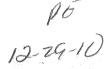
NO ACT





UNITED STATES SECURITIES AND EXCHANGE COMMISSION WASHINGTON, D.C. 20549-4561



February 25, 2011

Availability: 02-25-201

Andrea Utecht
Vice President, General Counsel and Secretary
FMC Corporation
1735 Market Street
Philadelphia, PA 19103
Washington, DC 20549

Re:

FMC Corporation

Incoming letter dated December 29, 2010

Dear Ms. Utecht:

This is in response to your letters dated December 29, 2010 and February 4, 2011 concerning the shareholder proposal submitted to FMC by David Brook. We also have received letters from the proponent dated January 24, 2011 and February 8, 2011. Our response is attached to the enclosed photocopy of your correspondence. By doing this, we avoid having to recite or summarize the facts set forth in the correspondence. Copies of all of the correspondence also will be provided to the proponent.

In connection with this matter, your attention is directed to the enclosure, which sets forth a brief discussion of the Division's informal procedures regarding shareholder proposals.

Sincerely,

Gregory S. Belliston Special Counsel

Enclosures

cc: David Brook

FISMA & OMB Memorandum M-07-16

Response of the Office of Chief Counsel Division of Corporation Finance

Re: FMC Corporation

Incoming letter dated December 29, 2010

The proposal requests the board to establish a product stewardship program that includes the elements set forth in the proposal.

There appears to be some basis for your view that FMC may exclude the proposal under rule 14a-8(i)(7), as relating to FMC's ordinary business operations. In this regard, we note that the proposal relates to the products offered for sale by the company and that it does not focus on a significant social policy issue. Accordingly, we will not recommend enforcement action to the Commission if FMC omits the proposal from its proxy materials in reliance on rule 14a-8(i)(7). In reaching this position, we have not found it necessary to address the alternative bases for omission upon which FMC relies.

Sincerely,

Carmen Moncada-Terry Special Counsel

DIVISION OF CORPORATION FINANCE INFORMAL PROCEDURES REGARDING SHAREHOLDER PROPOSALS

The Division of Corporation Finance believes that its responsibility with respect to matters arising under Rule 14a-8 [17 CFR 240.14a-8], as with other matters under the proxy rules, is to aid those who must comply with the rule by offering informal advice and suggestions and to determine, initially, whether or not it may be appropriate in a particular matter to recommend enforcement action to the Commission. In connection with a shareholder proposal under Rule 14a-8, the Division's staff considers the information furnished to it by the Company in support of its intention to exclude the proposals from the Company's proxy materials, as well as any information furnished by the proponent or the proponent's representative.

Although Rule 14a-8(k) does not require any communications from shareholders to the Commission's staff, the staff will always consider information concerning alleged violations of the statutes administered by the Commission, including argument as to whether or not activities proposed to be taken would be violative of the statute or rule involved. The receipt by the staff of such information, however, should not be construed as changing the staff's informal procedures and proxy review into a formal or adversary procedure.

It is important to note that the staff's and Commission's no-action responses to Rule 14a-8(j) submissions reflect only informal views. The determinations reached in these no-action letters do not and cannot adjudicate the merits of a company's position with respect to the proposal. Only a court such as a U.S. District Court can decide whether a company is obligated to include shareholder proposals in its proxy materials. Accordingly a discretionary determination not to recommend or take Commission enforcement action, does not preclude a proponent, or any shareholder of a company, from pursuing any rights he or she may have against the company in court, should the management omit the proposal from the company's proxy material.

David Brook

FISMA & OMB Memorandum M-07-16

Sent Via Email and U.S. Mail

February 8, 2011

U.S. Securities and Exchange Commission Division of Corporation Finance Office of Chief Counsel 100 F. Street, N.E. Washington, D.C. 20549

Re:

Shareholder Proposal by David Brook

Response to FMC's Second Letter, dated February 4, 2011

Dear Sir/Madam:

I am writing in response to the second submittal by FMC, dated February 4, 2011, as it relates to the shareholder proposal submitted by David Brook ("Brook Proposal.") FMC has submitted a new twenty page letter with hundreds of pages of new documents all focused on trying to show that it has substantially implemented the components of the Brook Proposal. I am sure that after the submittal of all of this information you can make one very important conclusion, that the issues relating to Furadan and other FMC pesticides are complicated. I think what shouldn't be complicated is the conclusion which the SEC should now be in a position to make.

Stripped to its basics: FMC claims that it has substantially implemented the Brook Proposal. Here's the problem with that statement. First, FMC once again has provided a lengthy letter with all sorts of assertions and claims about doing this and that, but once again it has not provided much of anything to show its actual documentation of a stewardship program which is in any way remotely connected to the components of what the Brook Proposal is seeking to establish. Yes, there is no doubt that FMC is operating in the world's commerce, and that it is involved with the normal issues associated with its business operations. This, however has no direct correlation to the nature and substance presented within the Brook Proposal.

Here is why FMC has not substantially implemented the Brook Proposal:

- The Brook Proposal calls for the production of an annual report for all identified product misuse. FMC has never prepared an annual report to document all product misuse, it has identified Furadan is being misused, but, with no annual reporting.
- The Brook Proposal calls for product withdrawals when there is documented misuse. FMC has never allowed for the establishment of any programs to

document misuse, so its actions are at best ad hoc, which is not demonstrative of proper and/or substantial implementation.

- The Brook Proposal would document misuse and propose changes to prevent further misuse. FMC has never prepared recommendations on changes to it products or practices to control misuse.
- The Brook Proposal calls for an independent scientific advisory panel to prepare these reports. FMC has never retained an independent third party to gather and prepare any reports such as these.
- The Brook Proposal goes beyond simple stewardship concepts and attempts to put in place broader solutions to misuse issues, like funding programs to prevent loss of wildlife and licensing applicators. FMC has no such programs and has expressed no interest in exploring these issues, thus no implementation, let alone substantial.
- The Brook Proposal calls upon FMC to establish a human equality declaration as part of its Corporate Responsibility Principles. FMC has never adopted any such policy.

In short, FMC cannot claim that it has substantially implemented the Brook Proposal, because it has not. FMC's recent submission with its hundreds of pages of exhibits actually provides nothing to bolster FMC's claims that it has substantially implemented a comprehensive stewardship program, as requested in the Brook Proposal. There is not one document in the form of a policy or procedure or guidance or memorandum attached to buttress FMC's claims. The information in these papers does address some issues of product misuse, but it does not even come close to demonstrating that FMC has implemented, let alone substantially implemented the Brook Proposal. FMC has failed to demonstrate how it translates its claims of having policies and procedures in place, when once again it is making claims that it is asking the SEC to accept, without providing any physical evidence to support those claims.

An Alternate Analysis:

Second, let's examine this issue slightly differently. If FMC has, as it says, substantially implemented the Brook Proposal, then why doesn't it simply agree to formally adopt it right now? The Corporate Secretary/General Counsel/Vice President seems to be agreeing with every component of the Brook Proposal as being valid and appropriate and the company seems to be saying that it embraces all of the principles embodied in the Brook Proposal. So, why not save all of the time of the SEC and the shareholders and ask FMC to simply put their proverbial money where their mouth is and agree to adopt the Brook Proposal right now?

The answer to this question is that if FMC had substantially implemented the Brook Proposal, then its Officers and attorneys wouldn't be fighting so hard to keep it from reaching the shareholders, and why is that? That is because the Brook Proposal is not something that FMC has substantially implemented and because it suits FMC to avoid this issue and to avoid

any accountability as to Furadan or any other pesticides that it manufactures. FMC can talk about stewardship and human rights, but it does not want be held accountable for the fact that it has never seen fit to devote the resources necessary to adequately protect humans and wildlife from the deadly consequences of exposure to its products. The components of the Brook Proposal, if discussed and adopted by the shareholders will begin to change that corporate intransigence.

The SEC can play a critical role in changing the dynamics at FMC by allowing the Brook Proposal to see the light of day and reach the shareholders for what will be a lively debate. The Rules of the SEC encourage this dialogue. I believe that a thorough review of the Brook Proposal, the arguments of FMC and the arguments presented in support of the Brook Proposal, shows there is ample legal support for the SEC to allow this proposal to be included in the 2011 FMC Annual Proxy Statement.

Thank you for your interest, patience and willingness to keep an open mind towards new ideas and ways that all corporations can better serve the needs of their shareholders and the world that we all live in.

Respectfully Submitted,

David Brook

Cc: Ms. Andrea Utecht, General Counsel FMC (sent via email)

PARCA Corporation

AUSTRAL MESC.

FMC Corporation 1735 Market Street Philadelphia, PA 19103 215.299.6000 Phone www.fmc.com

Via Federal Express and PDF Email

February 4, 2011

Office of the Chief Counsel
Division of Corporation Finance
U.S. Securities and Exchange Commission
100 F. Street, N.E.
Washington D.C. 20549

Re: FMC Corporation

Shareholder Proposal of David Brook

Securities Exchange Act of 1934 - Rule 14a-8

Ladies and Gentlemen:

This letter is in response to the letter (the "Response Letter") to the staff of the Division of Corporate Finance (the "Staff") of the Securities and Exchange Commission (the "Commission") dated January 24, 2011 from Mr. David Brook (the "Proponent"). The Response Letter is in response to the letter (the "No-Action Request") from FMC Corporation (the "Company") to the Staff dated December 29, 2010, pursuant to which the Company requested that the Staff confirm that it will not recommend any enforcement action if, in reliance on Rule 14a-8 under the Securities Exchange Act of 1934, as amended (the "Exchange Act"), the Company excludes the shareholder proposal (the "Proposal") submitted by the Proponent from its proxy statement and form of proxy (the "2011 Proxy Materials") for its 2011 Annual Meeting of the Shareholders (the "2011 Annual Meeting").

While the Company feels that its arguments to exclude the Proposal on the basis of Rule 14a-8(i)(3) and Rule 14a-8(i)(7) are compelling and sufficient enough to justify exclusion, the Company would like to supplement its argument that the Proposal may be excluded under Rule 14a-8(i)(10) with additional written evidence of the policies, practices and procedures that will clearly demonstrate the Company has implemented the essential objectives of the Proposal.

INTRODUCTORY STATEMENT

In evaluating the No-Action Request, in light of the Proposal and the Proponent's supporting documents, it is critical to keep in mind that the issue at hand is not whether the Company's products or generic or counterfeit products simulating the Company's products are being misused to poison wildlife. Rather, the issue at hand is whether the Company has in place a product stewardship program for its Agricultural



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Product Group ("APG") that has "substantially implemented" the Proposal within the meaning of Rule 14a-8(i)(10), or whether the Proposal and the accompanying Supporting Statement are materially false and misleading within the meaning of Rule 14a-8(i)(3), or whether the Proposal deals with matters relating to the Company's ordinary business operations within the meaning of Rule 14a-8(i)(7).

The Company recognizes that some poisonings are taking place in Africa by some desperate farmers as revenge for attacks by lions on their livestock, and in other cases by illegal poachers. The Company is by no means unsympathetic to this loss of life. These illegal killings of wildlife are very regrettable, and the Company is eager to see them come to a swift end. Nevertheless, the Company has demonstrated in its No-Action Request, and demonstrates further in this letter, that these unfortunate killings are being done almost entirely with pesticide products that are not manufactured or distributed by FMC Corporation or any of its subsidiaries, affiliates or business partners. 1 Third party use of another manufacturer's products for illegal purposes certainly cannot be held up as evidence that the Company's Stewardship Program is lacking in any respect. Furthermore, although some rogue purchasers of the Company's products may in fact be misusing the Company's products for illegal purposes, it must be acknowledged that almost any agricultural or other chemical product is capable of being illegally misused for an improper purpose if desired. In that light, the Company has processes and policies in place to minimize the chances of such misuse and to ensure that the highest standards of public health and safety are achieved in all aspects of the Company's operations, and such processes and policies comprise the Company's stewardship program (the "Stewardship Program").

APPLICABLE LEGAL PRINCIPLES

The Proponent, in his Response Letter, argues that "it is insightful and telling to observe that that [sic] FMC has stated that it believes that it has substantially implemented the 'objectives' sought by the proposal, it does not state that it has implemented the proposal," see Response Letter, pg. 10. The Proponent argues that the language of 14a-8(i)(10) reads "substantially implemented the proposal," not its objectives." See Response Letter at n. 27. By insinuating that the Company must implement the Proposal exactly as it has been presented by the Proponent in order for the Company to properly exclude the Proposal under Rule 14a-8(i)(10), the Proponent misstates the Staff's published interpretation of Rule 14a-8(i)(10).

The Commission stated in 1976 that the predecessor to Rule 14a-8(i)(10) was "designed to avoid the possibility of shareholders having to consider matters which have already been favorably acted upon by the management..." Exchange Act Release No.

¹ Crop Life International, a global industry organization committed to supporting sustainable agriculture, has estimated that on the order of 40% of all pesticides used in Kenya is counterfeit.

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12598 (July 7, 1976). When a company can demonstrate that it already has taken actions to address each element of a shareholder proposal, the Staff has concurred that the proposal has been "substantially implemented" and may be excluded as moot. See e.g. Exxon Mobil Corp. (avail. Jan. 24, 2001); The Gap, Inc. (avail. Mar. 8, 1996); Nordstrom, Inc. (avail. Feb. 8, 1995). Moreover, a proposal need not be "fully effected" by the company in order to be excluded as substantially implemented. See Exchange Act Release No. 40018 at n.30 (May 21, 1998); see also Exchange Act Release No. 20091 at II.E.6. (Aug. 16, 1983). Instead, the Staff has noted that "a determination that the [c]ompany has substantially implemented the proposal depends upon whether [the company's] particular policies, practices and procedures compare favorably with the guidelines of the proposal." Texaco, Inc. (avail. Mar. 28, 1991). In other words, substantial implementation under Rule 14a-8(i)(10) requires that a company's actions satisfactorily address the underlying concerns of the proposal and that the essential objectives of the proposal have been addressed. See e.g. Anheuser-Busch Cos., Inc. (avail. Jan. 17, 2007); ConAgra Foods, Inc. (avail. Jul. 3, 2006); Johnson & Johnson (avail. Feb. 17, 2006); The Talbots, Inc. (avail. Apr. 5, 2002); Masco Corp. (avail. Mar. 29, 1999).

As noted above, the Commission's statements and Staff precedent confirm that the standard for exclusion under Rule 14a-8(i)(10 is that a shareholder proposal be substantially implemented, not fully effected in all its particulars. In other words, Rule 14a-8(i)(10) permits exclusion of a shareholder proposal when a company has implemented the essential objectives of the proposal, even when the manner by which a company implements the proposal does not correspond precisely to each of the actions sought by the shareholder proponent. See Exchange Act Release No. 20091 (Aug. 16, 1983); see also Honeywell Int'l Inc. (avail. Jan. 31, 2007); Sun Microsystems, Inc. (avail. Sept. 12, 2006); General Motors Corp. (avail. Apr. 5, 2006); Tiffany & Co. (avail. Mar. 14, 2006); The Boeing Co. (avail. Mar. 9, 2005); The Home Depot, Inc. (avail. Mar. 7, 2005) (each allowing exclusion under Rule 14a-8(i)(10) of a shareholder proposal requesting that any future poison pill be put to a shareholder vote "as soon as possible" or "within 4-months" where the company had a poison pill policy in place that required a shareholder vote on any future poison pill within one year). See also Schering-Plough Corp. (avail. Feb. 2, 2006); Northrop Grumman Corp. (avail. Mar. 22, 2005); Southwest Airlines Co. (avail. Feb. 10, 2005) (each permitting exclusion of a shareholder proposal seeking declassification of the company's board of directors "in the most expeditious manner possible" when the company planned to phase in declassification of the board of directors such that the directors were elected to one-year terms as their current terms expired).

In his "Brief Answer," the Proponent summarizes his argument that the Company has not substantially implemented the Proposal because the Company "has not adopted policies or procedures that it has disclosed or taken sufficient actions to address the concerns raised in the proposal," and that "FMC has no policy on human equality, so factually there can be no implementation whatsoever." See Response Letter, pg. 9. Contrary to these assertions, the Company has, in fact, adopted written policies and procedures that clearly demonstrate the Company's continued and unwavering dedication

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to its Stewardship Program, and that the Stewardship Program is designed to address both identified and alleged incidents involving *any* of the products of the Company's Agricultural Products Group ("APG"), including, but not limited to, Furadan. Moreover, the Company can demonstrate that its practices and procedures with respect to the sale of its APG products supplement its adherence to written policies, and that, accordingly, the essential objectives of the Proponent's "human equality" declaration have also been substantially implemented.

ANALYSIS

I. The Company's Policies, Practices and Procedures Compare Favorably with the Guidelines of the Proposal and Demonstrate that the Company has Substantially Implemented the Essential Objectives of the Proposal

The Proponent asserts that "the lack of any documentation, other than the word 'stewardship' overwhelmingly demonstrates that in practice FMC has not, as a corporation, committed to any real product stewardship program." See Response Letter, pg. 2. Despite these claims, the Company has ample documentation to support that its Stewardship Program has been "institutionalized" with written goals and objectives; product life cycle analysis questionnaires; comprehensive internal and independent product audits; internal and external product surveys; Adverse Effect ("AE") system reporting; a Global Product Stewardship Manager for APG who facilitates dialogue among APG employees, its customers, foreign governmental organizations and non-governmental organizations; and a Sustainability Council that issues written recommendations to the Company's senior executive management. Moreover, the Company's stewardship efforts and AE reports are communicated to, and reviewed by, the Company's Chief Executive Officer and senior executive management on an annual basis, thus establishing their direct involvement, and potential for implementing modifications to, the Company's Stewardship Program.

A. The Company's Product Stewardship Program is Institutionalized by Written Goals and Objectives and Features Direct Involvement by the Company's Senior Executive Management

Despite the Proponent's unfounded assertion that "it has become apparent that FMC has not institutionalized through the adoption of policies or procedures any product stewardship program," see Response Letter, pg. 2, the Company's Stewardship Program is in fact "institutionalized" through a document outlining its goals and objectives and this document, for practical purposes, functions as a mission statement (the "Mission Statement"). The Mission Statement is attached hereto as Exhibit A, and its existence, in combination with the rest of the documents referred to below, demonstrate that the Company's Stewardship Program is endorsed by senior executive management.

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The Company devotes substantial resources and management attention to its Stewardship Program, which is summarized on the Company's web site at: http://www.fmc.com/corporateresponsibility/HealthSafetyEnvironment/ProductStewardshi p.aspx. In a related manner, public health and safety are major concerns of the Company. See: http://www.myfmc.com/corporate/safety/Pages/default.aspx.² The stewardship principles listed on these Company web pages are institutionalized through the daily practices of the Company's employees and are inherent in every phase of the Company's operations, from product development, to manufacturing, operations, delivery to our customers, and product use. Contrary to the Proponent's assertion that the Company's Stewardship Program is limited in focus to internal employee safety, see Response Letter, pg. 15, the Company's stewardship efforts are in fact equally directed to the Company's distributors, customers, retailers, growers, and the communities in which the Company operates. As just one example of many, see Exhibit C to our No-Action Request, entitled "Environmental Stewardship Guidelines." This pamphlet is addressed to users of our APG products, advising on how to avoid misuse of the products, advising as to the use of the products in accordance with label directions, warning against the use of products for illegal predatory baiting, and advising distributors and retailers how to spot a purchaser who may be attempting to purchase a product for illegal baiting purposes. The importance of stewardship principles is emphasized by the Company's senior executive officers, who direct and oversee the Stewardship Program.

The Proponent repeatedly expresses his concern that "[wlithout the direct involvement of the Board and the Senior Executive Officers, it is hard to imagine that FMC can claim that any program exists." In addition to their its endorsement of the Mission Statement, the Company's senior executive management is directly involved in the Company's Stewardship Program. Every year, APG, which is heavily involved in implementing the Company's Stewardship Program in that business segment, as discussed in more detail below, presents a comprehensive annual stewardship report to the Company's Chief Executive Officer and senior executive management (the "Annual Report"). Each other business segment of the Company does the same. The Annual Report, which is presented in written form and explained in detail in a meeting of senior APG personnel with the Company's Chief Executive Officer and the senior management team, presents the material aspects of the Company's stewardship efforts implemented through the Company's Stewardship Program throughout the previous year. Moreover, the Annual Report dedicates substantial attention to the Company's AE data collection and reporting process, enumerating the AE reports concerning each APG product received in the prior year. The Annual Report facilitates a direct communication between the Company's senior executive management and senior APG management, which implements the Company's Stewardship Program for its APG products globally. Through this process, the Company's executive leadership is able to assess the status and progress of APG's

² This compares favorably with the Environmental Health & Safety initiative of Dow Chemical Company, the company that the Proponent holds out as the gold standard for meeting the "substantially implemented" requirements of Rule 14a-8(i)(10) in the stewardship arena.

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stewardship efforts and, as necessary or appropriate, to implement changes to the Company's Stewardship Program. As much of the Annual Report contains sensitive confidential and proprietary information, the Company cannot make public the entire Report, but an excerpt from the most recent Annual Report is attached hereto as Exhibit B, and the Company undertakes to make additional portions of the Annual Report available to the Staff upon request, subject to confidential treatment.

Upon the guidance and direction of the Company's executive leadership, APG implements changes to the Stewardship Program directly through communication to its employees. Attached hereto as Exhibit C is a communication from the head of APG, who is also a senior executive officer of the Company, to all 1500 APG employees. This communication reinforces the Company's commitment to AE reporting and, significantly, includes a reference to the importance of AE reporting relating to information obtained outside of the United States, which goes above and beyond the requirements of the U.S. Federal Insecticide, Fungicide and Rodenticide Act ("FIFRA"). While the Proponent asserts that the Company's reporting of AEs to the United States Environmental Protection Agency ("USEPA") is "not voluntary..., so that can't be called FMC's [stewardship] program," see Response Letter, pg. 13, this communication demonstrates that the Company is committed to more than just FIFRA's reporting requirements.⁵

The Mission Statement, the Annual Report and the types of communications detailed above demonstrate that the Company has institutionalized its Stewardship Program with direct involvement and meaningful participation from its senior leadership. Accordingly, it simply cannot be said, as the Proponent asserts, that the Company has not "presented a single written policy or procedure as to how its... 'stewardship' program is implemented." See Response Letter, pp. 1-2. Instead, the Company's efforts in this regard clearly demonstrate that the Company has substantially implemented the Proposal.

B. As Part of its Product Stewardship Program, the Company Utilizes Product Life Cycle Analysis Questionnaires, Comprehensive Internal and Independent Product Audits and Internal and External Product Surveys to Monitor and Assess Risks and Safety Issues Associated with its Products

The Proponent asserts that the Company "has no ... policies, procedures, public participation components, identified systems or processes set up to monitor and assess risks and teams of employees to monitor product use." See Response Letter, pg. 12. In support of this unfounded proposition, the Proponent cites The Dow Chemical Co. (avail. Mar. 5, 2008) (the "Dow No-Action Letter") to argue that the type of documentation submitted by The Dow Chemical Company ("Dow") would allow "an objective observer to identify components of its programs which [would confirm] that [the stewardship] program

⁵ See also Section I.C below, which describes the Company's FIFRA & AE Reporting Compliance Manual.

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was real and it had integrated these programs into its daily operations." See Response Letter, pg. 10. Specifically, the Proponent cites the following passage:

Under this program, Dow has <u>implemented systems and processes</u> for <u>evaluating</u>, <u>monitoring and addressing</u> both the risks associated with, and the societal concerns raised by, its products, including those that are genetically engineered. These <u>systems and processes</u> include a "Business Risk Review," through which Dow <u>conducts risk evaluations</u> for new and existing products and their applications. These various <u>reviews address</u> the entire life cycle of a product, starting at the discovery phase. *See* Response Letter, pg. 11 (citing The Dow Chemical Co., 200 SEC No-Act. Lexis 301, 42-43).

The Proponent also notes that Dow's systemic review consisted of a product evaluation by teams of its own employees using a checklist with 40 questions "to ensure that its products were properly used." See Response Letter, pg. 11.

Like Dow, the Company has implemented a written procedure by which all of its products, including Furadan and other products marketed domestically and internationally, are meticulously reviewed to address risk and safety concerns, prior to their introduction into the marketplace. Moreover, while the product evaluation review of Dow cited by the Proponent purportedly consists of 40 questions, the Company's Product Life Cycle Analysis questionnaire ("LCA") consists of over 100 questions. The Company's LCA is attached hereto as Exhibit D. Each completed LCA is analyzed by key managers of all relevant functional areas within APG, and the product's future commercialization is evaluated from a variety of perspectives, including public health and safety. If appropriate, changes in proposed production methods or raw materials may be indicated, or the product may be abandoned altogether. The LCA process is not conducted only upon the inception of a product. Rather, each time a product is changed in any material respect, the LCA is updated to address the impact of those changes, and the analytical evaluation is repeated in order to ensure that the product, as modified, meets the same high standards for public health and safety as when the product was first introduced into the marketplace. The Company's use of the LCA for each and every one of its products is an example of a fullyimplemented system and process for evaluating, monitoring and addressing both the risks associated with, and the societal concerns raised by, its products.

The Company supplements the LCA with a Responsible Care Management System ("RCMS") Internal Audit, which is an annual audit involving interviews conducted with many managerial employees of the APG, the most recent one involving sixteen APG managers. The RCMS Internal Audit is effected through the RCMS Internal Audit Checklist, which is a twenty-page document consisting of approximately 100 questions. The RCMS Internal Audit Checklist is attached hereto as Exhibit E. Whenever an APG manager responds to a question with either "non-conformance," which is defined as a deviation or non-conformity with the RCMS requirements, or "opportunity for improvement," which is defined as an isolated deviation from planned arrangements, the

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response is compiled at the end of the RCMS checklist in the "Summary of Findings" section and the Company immediately develops remedial actions to address these findings. As demonstrated by the written policy statement that accompanies the RCMS Internal Audit, "[f]or all cases where non-conformances with the RCMS have been identified, corrective actions will be developed," and "[w]herever possible, corrective action plans will be developed within 30 days from the date the final audit was issued." Similar to the product evaluation questionnaire utilized by Dow, the RCMS Internal Audit is only implemented for products registered in the United States, including Furadan, but the remedial effects developed by the Company in response to any non-conformance are implemented into the Company's global operations. Finally, these RCMS Internal Audits are supplemented by an external audit conducted by an independent agency every three years by Det Norske Veritas Certification, Inc.

In addition to its implementation of the LCA and the RCMS Internal Audit, the Company conducts a RCMS Employee Survey in order to solicit *additional* internal evaluations of the Company's products. Upon review of employee responses, APG's Global Product Stewardship Manager tabulates the results and communicates these results to the Company's senior executive management. An action plan is also developed to address issues identified from the survey.

While the Company's use of the LCA, the RCMS Internal Audit and the annual RCMS Employee Survey demonstrates a steadfast commitment to risk and safety product review based upon *internal* evaluation, the Company has demonstrated repeated and continued commitment to soliciting *external* evaluation in order to strengthen its review process by implementing a RCMS Customer Survey, which the Company sends to all of its customers. Upon receipt of customer responses, the Company's APG Global Product Stewardship Manager tabulates the results, communicates these results to the Company's senior executive management, and develops an action plan to address any issues identified in the survey. The RCMS Customer survey is also important because, like the Proponent asserts, any credible stewardship program must focus on "the real world, not ... [the Company's] production facilities," *see* Response Letter, pg. 16, and these surveys are designed to elicit direct, external feedback and evaluation of the Company's products from its customers.

The LCA, the RCMS Internal Audit, the RCMS Employee Survey, the RCMS Customer Survey and the corresponding role played by the Company's APG Global Product Stewardship Manager in communicating these audit and survey results to the Company leadership are examples of the Company's implementation of systems, processes, practices and procedures for evaluating, monitoring and addressing both the risks associated with, and the societal concerns raised by, its products. These measures taken by the Company demonstrate that the Company has institutionalized efforts to understand and control the risks and safety issues associated with its products, and that the data collected by these processes is directly communicated to the Company's senior executive management. Accordingly, the Proponent's assertion that "it has become

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apparent that FMC has not institutionalized through the adoption of policies or procedures any product stewardship program" is simply untrue. See Response Letter, pg. 2.

C. The Company's Global Adverse Effects Reporting System Both Exceeds the Company's Legal Reporting Obligations under FIFRA and Facilitates the Company's Established Trend Analysis and Corresponding Remedial Efforts

In addition to the LCA, the RCMS Audits and the RCMS Surveys, the Company's robust AE reporting system is another example of an institutionalized system and documented process by which the Company monitors and assesses global risks associated with its products. This AE reporting system is an important part of the Company's Product Stewardship Program and substantially implements the essential objective of the Proposal that seeks to address all documented product misuses worldwide. While the Proponent asserts that the Company's AE Reporting is "not voluntary" because it is required by federal law, and thus cannot be "called FMC's [stewardship] program," see Response Letter, pg. 13, the Proponent has not provided any support for his proposition that a company's efforts to comply with applicable law should disqualify those efforts and established procedures from comprising part of an effective stewardship program. To the contrary, the Company respectfully submits that implementation of organizational procedures and practices to ensure legal compliance is an essential part of any properly constructed product stewardship program. Furthermore, the Company's AE Reporting system (1) is an important component of its Stewardship Program and (2) is global and therefore exceeds the scope required under FIFRA's AE reporting requirements.

The Company has institutionalized the AE reporting system in its own proprietary FIFRA & AE Reporting Compliance Manual (the "Compliance Manual"), which is 76 pages long and lays out all processes and instructions required to be followed by the Company's employees to handle AE process reporting. The Compliance Manual details the processes and procedures to be carried out with respect to any AE reports emanating from anywhere domestically and internationally and demonstrates that the Company's AE reporting system is indeed global (and therefore exceeds the scope of FIFRA's AE reporting requirements, which are limited to the United States). The Company's commitment to collecting data relating to global AEs is also exemplified by communications like that attached hereto as Exhibit C, and previously discussed, because it exemplifies a direct instruction from the Company's senior leadership that AEs arising in international markets are as important as those arising in the United States.

The Company's commitment to global AE reporting is further exemplified by the fact that all of its product labels are printed in the native language of each country in which the corresponding product is sold. In addition, the Company supplies Material Safety Data Sheets ("MSDS fact sheets") with all of its products to provide product users with a twenty-four hour hotline staffed by independent analysts who are trained to elicit all necessary and relevant information required to ascertain the nature of any AE and to facilitate a complete and comprehensive report. In addition, the Company's distributors

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report any AE of which they become aware. These are just some of the many efforts the Company has taken to implement and sustain a global AE reporting system that collects data from all documented product misuses worldwide.

In addition to exceeding the mandate of FIFRA's AE reporting requirements by collecting global data concerning product misuse, the Company's AE reporting system also collects unsubstantiated AEs involving all APG products, including Furadan, even when the Company cannot verify that its products were actually involved. The Proponent has neglected to point out that many alleged "Furadan" poisonings have definitively been demonstrated, through physical and chemical analyses, not to involve Furadan at all, nor for that matter any product containing carbofuran (the chemical name of the active ingredient in Furadan). The Proponent also fails to point out that Furadan's efficacy and affordability as a pesticide had made it an invaluable aid to African growers in increasing crop yields, making Furadan a highly coveted product. After the Company instituted the buy-back program and voluntarily ceased the authorized sale of Furadan in Kenya effective May 2008, in Uganda and Tanzania effective May 2009, and in South Africa effective the end of 2010, counterfeiters in these countries began selling counterfeit blue granular pesticide to capitalize on this unfulfilled market demand, claiming that it was Furadan when, in fact, it was not. The Company's No-Action Request included, as Exhibits A and B thereto, investigative reports showing that alleged "Furadan" poisonings had no connection, whatsoever, to carbofuran. In addition to counterfeit Furadan being available in Africa, there are five generic carbofuran-based pesticides registered for sale in Uganda, so even if a chemical analysis of a poisoned animal shows evidence of carbofuran, this is not evidence of Furadan.

Despite the fact that many alleged "Furadan" poisonings do not actually involve carbofuran or indeed the Company's Furadan-brand carbofuran, the Company's AE reporting system collects data related to these unsubstantiated African AEs. Furthermore, in addition to merely collecting data on these unsubstantiated African AEs, the Company's Stewardship Program takes action and devotes considerable resources to investigating these alleged "Furadan" poisonings and implementing remedial action plans accordingly, and these efforts are more fully explained in Section "D," below.

Upon collecting the data related to domestic, global and even unsubstantiated AEs pursuant to the established processes and procedures mentioned above, the Company generates quarterly reports and submits these reports to the USEPA, as required under FIFRA. This demonstrates the falsity of the Proponent's claim that "FMC has failed to include incident data that it has collected from around the world on product misuse or other incidents, since this may not be helpful to their arguments that everything is under control." See Response Letter, pg. 6. In addition to facilitating the Company's reporting obligations under FIFRA, the Company's AE reporting system

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comprises an important part of the Company's Stewardship Network because, based on the reports generated from all data collected through the Company's AE reporting system, the Company evaluates possible trends and makes corresponding changes to product instructions and formulations. This trend analysis is an integral part of the Company's Stewardship Program because it presents a fluid and systematic opportunity for the Company to implement global changes to its product lines based upon "real-time" data. In addition, the Company's trend analysis and opportunity for subsequent remedial action serve to substantially implement what the Proponent insists is "the most important part of the Brook Proposal," which (in the Proponent's words) is the Company's ability "to identify trends and other issues and to devote resources to 'proposing changes' to prevent further misuse." See Response Letter, pg. 16. Both the Annual Reports, discussed above, and this trend analysis demonstrate that the Company has substantially implemented the "most important part" of the Proposal, and accordingly, its essential objective.

D. The Company's Has Developed Constructive Partnerships with Foreign and Non-Governmental Organizations to Strengthen its Stewardship Program

The Proponent insists that "the lack of any documentation, other than the word 'stewardship' overwhelmingly demonstrates that in practice FMC has not, as a corporation, committed to any real product stewardship program," see Response Letter, pg. 2, but the Company has a surfeit of written documentation that demonstrates the efforts and actions taken by its Stewardship Network and Sustainability Council. These records (1) show that the Company indeed has a "real" product stewardship program, (2) provide additional support for the Company's claim that it has substantially implemented the essential objectives of the Proposal because these documents indicate that the Company's Stewardship Program works with foreign governments in training and educational programs, and (3) indicate that the Company actively partners with foreign and non-governmental organizations to strive to identify and correct product misuse, which is another essential objective of the Proposal.

One important component of the Stewardship Network, and the Company's Stewardship Program, is working with, and providing training to, foreign governmental and non-governmental organizations. The Company has met with organizations like the Kenya Wildlife Service, the Maasailand Preservation Trust and WildLife Direct, which are governmental and non-governmental organizations ("NGOs") in Africa, to develop a constructive partnership and to facilitate a dialogue that enables governmental and NGO officials to implement more effective programs to prevent misuse of chemicals by growers, and enable the Company to better identify and address safety issues, trends of product misuse and other risks associated with its products. In addition, these meetings provide the Company with an opportunity to educate and provide training to its global stakeholders. In April 2009, the Company met with the three aforementioned organizations, and these meetings were recorded through meeting minutes, which are attached hereto as Exhibit F (the "Minutes"). The Minutes demonstrate that the Company dedicates resources to understanding potential issues associated with its products, to discussing corresponding

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remedial strategies with global stakeholders and to developing specific action items to execute these strategies. The Company's APG Global Product Stewardship Manager supplements these efforts by communicating and working with organizations like the Kenya Wildlife Service to monitor those processes and procedures implemented by the Company designed to remedy product misuse. An example of such a communication is attached hereto as Exhibit G.

Although the efforts described above are relatively recent, the Company has been working with foreign governmental organizations and NGOs to investigate alleged product misuse and implement preventative measures from as early as 1996. A letter to the Company from G.N. Paterson dated April 10, 1996 (the "1996 Letter"), minutes documenting a meeting held on July 24, 1996 with the Kenya Wildlife Service and the Kenyan National Irrigation Board (the "1996 Minutes"), and an acknowledgment of registration (the "Acknowledgment") sent to the Company by the Pest Control Products Board (the "PCPB") are attached hereto as Exhibit H (collectively, the "1996 Documents"). In the 1996 Letter, the Company is being informed of the alleged misuse of Furadan to poach wild fowl. The 1996 Minutes demonstrate that, within three months, the Company met with foreign governmental organizations to investigate this alleged product misuse and to agree on an action plan to correct and prevent further product misuse. Thereafter, in response to concerns over the alleged poaching activities using Furadan, the Company voluntarily withdrew registration for the use of Furadan granules on rice in Kenya. The 1996 Documents are important because they demonstrate that the Company's stewardship efforts have been a critical part of its business long before Furadan was the subject of 60 Minutes. Moreover, the 1996 Documents exemplify that the Company has been working with foreign government organizations and NGOs to investigate alleged product misuse and developing action plans to correct and prevent further misuse for at least 15 years.

E. Since the Cessation of Sales of Furadan into East Africa in 2008, All Subsequent Alleged Cases of Poisoning of Wildlife with Furadan Appear to Have Involved Counterfeit Furadan or Other Unrelated Chemical Agents.

In addition to these efforts and despite the Proponent's assertion that the Company has "never taken steps to create a pro-active [sic] product stewardship program which is capable of accurately identifying product misuse," see Response Letter, pg. 2, the Company continues to make considerable efforts in working with African governmental organizations and NGOs to investigate and identify alleged misuse. Nearly all claims of wildlife poisoning allegedly involving Furadan are devoid of detailed photographs of the scene, physical samples of the granules of the suspected poisoning agent, or any sample of the carcass of the poisoned animal, and the lack of these types of evidence hinders reliable identification of the poisoning agent. In cases where photographic or physical evidence have been collected, however, the Company has tapped into its constructive partnerships with NGOs, which are a fundamental component of the Company's Stewardship Program, to implement and offer funding for rigorous and reliable testing methods to ascertain whether Furadan is actually the responsible poisoning agent.

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To reiterate, in most cases where photographic or physical evidence has been collected, rigorous and reliable testing methods have demonstrated that the agent in question is actually not Furadan. In a recent case of misidentification of a pesticide alleged to be "Furadan," a representative of a non-governmental organization in Kenya purchased a container of a blue granular pesticide in an agrovet shop in Kampala, suspecting that FMC had resumed the distribution of Furadan in Uganda. The NGO representative delivered the container of pesticide to representatives of Defenders of Wildlife, an environmental activist organization. A sample of the pesticide was made available to the Company, and the Company was able to demonstrate definitively through physical and chemical testing (undertaken in the presence of the representatives of Defenders of Wildlife) that the substance was not, in fact, Furadan. This Ugandan sample was subjected to a dissolution test, which indicated that the dissolution rates of the dye in the sample varied considerably from that in Furadan. In addition, the Ugandan sample was analyzed chemically using mass spectroscopy, which demonstrated definitively that the sample was devoid of carbofuran. In e-mail correspondence relating to the incident, representatives from Defenders of Wildlife vouched for the veracity of the Company's testing, but this correspondence is also important because it demonstrates the Company's action plan related to this incident. The e-mail from the Company's APG Global Product Stewardship Manager indicates that, in response to this incident, the Company is, among other actions, (1) meeting with Defenders of Wildlife to discuss the incident and (2) developing a tiered approach for assessing samples. As a consequence, the Company is dedicating resources to investigating and implementing corrective actions for incidents that do not even involve its own products. This e-mail correspondence, together with photographs of the dissolution testing, are attached hereto as Exhibit I.

In addition to this Ugandan incident, detailed photographs of another recent poisoning allegedly involving "Furadan" in Tanzania were provided to the Company by a conservationist with the Amboselli Lion Project, which is a collaboration involving the Kenya Wildlife Service and other organizations. A copy of these photographs, together with e-mail correspondence with the conservationist, are attached hereto as Exhibit J. In this e-mail exchange, the conservationist notes that the photograph indicates the poisoning agent is "obviously Furadan," but in actuality, the poisoning agent was not Furadan. While Furadan is regular in size and shape and is spherical, upon closer inspection, the photograph reveals that the blue granules in the alleged incident are of inconsistent size and are angular in shape similar to the known counterfeit identified in the Ugandan example described above. Additionally, this e-mail correspondence shows that the substance in question was purchased in a container labeled "Furadan," demonstrating that counterfeiters are falsely labeling the packaging used to sell their counterfeit product. unfortunate poisoning is recent, and despite the fact that it has been established that the Company's products are not even involved, the Company already has instituted an action plan to work with Defenders of Wildlife to provide training on sample collection and agent identification. These incidents in Uganda and Tanzania are certainly unfortunate, but they are also important because they provide additional support to demonstrate that (1) in most

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cases where physical and detailed photographic evidence is collected, reliable physical and chemical testing indicates that Furadan is not the actual poisoning agent and (2) the Company's Stewardship Program is both responsive and dedicating significant resources to investigating and remedying alleged product misuse, and is actively working with foreign governmental organizations and NGOs in pursuit of these goals, which is another example of how the Company's Stewardship Program is substantially implementing the essential objectives of the Proposal.

The erroneous conclusion that FMC-brand Furadan was the actual poisoning agent responsible for animal poisonings is not a recent phenomenon. Attached to the Response Letter as Exhibit 7 is a letter from Dr. Laurence Frank asserting that Furadan is being used to kill lions in Kenya. However, Dr. Frank knows quite well that lion poisoning investigations in which he has been involved and in which he initially asserted the use of Furadan actually wound up showing, through chemical analyses, not to involve Furadan at all. Accordingly, his continued assertion that Furadan is being used to kill lions in Kenya is suspect, at best. Attached hereto as Exhibit K is a letter and e-mail correspondence between Dr. Frank and the PCPB together with laboratory results certified by the Kenyan Government Chemist's Department (the "Strychnine Documents"). In the letter from Dr. Frank to the PCPB, dated August 13, 2003, Dr. Frank generally states that "the blue crystals obtained by Mr. Masere as being the pesticide used to poison predators were identified as Furadan." See Exhibit K, pg. 3, note 4. Subsequently, in the letter from the PCPB to Dr. Frank, dated January 27, 2005, the PCPB states that "[t]he results indicate that strychnine is the poison that was used to poison lions," and "[i]t is therefore true to say that contrary to the common belief that carbofuran was being used to kill the lions, strychnine, which is normally used by Veterinary department to bait dogs[,] is the poison that the locals use in killing the lions." See Exhibit K, pp. 5-6. Upon the receipt of this certified laboratory analysis, Dr. Frank wrote, in an e-mail correspondence dated February 17, 2005, that the "finding of strychnine in poisoned lions was a critical breakthrough." See Exhibit K, pg. 8. The Strychnine Documents are important, not just because they discredit Dr. Frank's assertions concerning the use of Furadan to poison lions in Kenya in support of the Proposal, but also because they demonstrate that even Dr. Frank, who according to the Proponent "has been involved with predator biology and conservation issues in Kenya for over 40 years and ... has authored 79 scientific papers and 10 articles," see Response Letter, pg. 14, cannot correctly identify whether carbofuran is the chemical agent responsible in animal poisonings.

The Frank Affidavit also states that Dr. Frank met with Company representatives in 2003 and that he informed the Company of Furadan's role in predator and waterfowl poisonings, but "FMC took no action until CBS 60 Minutes publicized the issue in 2009." See Frank Affidavit, pg. 2. The meeting minutes from this 2003 meeting (the "2003 Minutes") and a subsequent letter, dated April 22, 2004 (the "Mead Letter"),

⁸ Note that Furadan does not contain any strychnine.

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from the Company to Mr. David Mead, an Honorary Warden with the Kenya Wildlife Service, are attached hereto as Exhibit L. The 2003 Minutes are important because they show that the Company met with foreign governmental organizations and NGOs and committed to revising its product labeling in order to address the alleged role of the Company's products in waterfowl poisonings. As exemplified by the Mead Letter and the amended Furadan label for use in Kenya, included in Exhibit L, the Company fulfilled its voluntary commitment to amend the Furadan label. Accordingly, in addition to voluntarily ceasing the authorized sale of Furadan in Kenya effective May 2008, the Company did, in fact, take responsive action to alleged product misuse after the 2003 Meeting but prior to 2009. In addition to the Frank Affidavit, a partial listing of other errors and omissions in the Response Letter is attached hereto as Appendix 1.

Finally, the Proponent includes the statement of Mr. Martin Odino as Exhibit 8 attached to the Response Letter, to the effect that Furadan is being used to poison wildlife in Kenya. This statement is grounded entirely upon observations and inference rather than any physical evidence or empirical laboratory testing (even rudimentary testing) that would identify, or alternatively rule out, carbofuran as the responsible agent in these unfortunate and illegal poisonings. Moreover, Mr. Odino's blog indicates that he is casually using the trade name "Furadan" generically to refer to any counterfeit blue granular poisoning agent. In his blog entry dated June 2, 2010 and captioned "Ugandan' Furadan or FMC's Furadan," Mr. Odino unwittingly provides all of the evidence necessary to conclude that the poisoning agent he has identified as being responsible for the killing of wildlife is not a product manufactured by the Company at all, but is rather a counterfeit product. In this blog entry, Mr. Odino writes:

"[t]he usual Furadan 5G has granules that are homogeneous, almost perfect spherical shapes. This 'new' Furadan has seemingly slightly larger granules that are heterogeneous in shape-spherical, oblong, polygonal."

The Company's authentic product meets the description in Mr. Odino's first sentence quoted above – authentic Furadan granules are indeed "homogeneous, almost perfect spherical shapes." Accordingly, the poisoning agent he is discussing cannot be the Company's product. As is evident from the quoted blog entry, Mr. Odino has decided to use the word "Furadan" to describe the counterfeit irregular blue granules he has found at the scenes of wildlife poisoning, notwithstanding the fact that these granules are clearly not FMC's Furadan. Accordingly, one can only presume that the "Furadan" Mr. Odino is discussing in Exhibit 8 attached to the Response Letter is this same counterfeit product. Thus, his assertions concerning the Company's product being involved in the ongoing poisoning of wildlife in Kenya must be discounted. 10

⁹ See http://stopwildlifepoisoning.wildlifedirect.org/author/martin-odino/, at entry dated June 2, 2010.

¹⁰ Incidentally, the most recent entry of Mr. Odino's blog commends the success of the Company's Furadan buy-back program and states that "we no longer see the explicit display of Furadan on the shelves in our (continued...)

F. The Company's Sustainability Council Generates Written Recommendations to Senior Executive Management on a Semi-Annual Basis to Address Product Misuse Worldwide

While the Proponent implies that the Company's Sustainability Council, an independent scientific advisory panel, does not prepare annual reports on product misuse, see Response Letter, pg. 17, the Company respectfully submits that the Sustainability Council does indeed generate specific recommendations that are provided, in written form, to the Company's senior executive management (each, a "Sustainability Report") on a periodic basis. The Sustainability Reports contain clear and succinct recommendations to strengthen the Company's product stewardship initiatives. The organization of the Sustainability Council and the dissemination of the Sustainability Reports are additional examples of Company practices that substantially implement the essential objectives of the Proposal because they involve a written report generated from recommendations issued by an independent scientific advisory panel to address and propose changes to prevent further global product misuse.

II. The Company Has Substantially Implemented the Essential Objectives of the "Human Equality" Component of the Proposal

The Proponent asserts that the second purpose of his proposal "seeks to have FMC establish a human equality declaration and policy." See Response Letter, pg. 8. The Company's No-Action Request clearly and succinctly lists the written policies that, in the aggregate, substantially incorporate the essential objectives of this component of the Proposal, including the Company's commitment to the Code of Conduct of the Food and Agricultural Organization of the United Nations, the American Chemistry Council's Responsible Care Guidelines and the Company's Code of Ethics and Business Conduct. See No-Action Request, pp. 9-11. In addition, global public health and safety are major of the Company. See: http://www.myfmc.com/corporate/safety/ concerns Pages/default.aspx. While these arguments are incorporated herein by reference, the Company respectfully submits that it has consistently demonstrated a commitment to human equality by more than just adherence to written policy. As discussed in Section "B" above, the lessons learned from the Company's routine periodic RCMS Internal Audits and RCMS external independent audits are applied through implementation of action plans that apply globally. In addition, as discussed in Section "C" above, the Company's AE reporting and data collection is operated on a global basis, and across all APG products, wherever sold or distributed..

⁽continued...)

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The Company's practices and procedures, in addition to its policies, have highlighted its commitment to treat, in the Proponent's words, "third world people no differently than Americans as it relates to U.S. pesticide exposure limits," and this applies with respect to the Company's sale of all APG products.

INCLUSION OF ADDITIONAL CORRESPONDENCE

Finally, the Company would like to inform the Staff that its prior failure to enclose with its No-Action Request copies of certain correspondence between the Proponent and the Company was both unintentional and inadvertent. We had not been made aware of the requirement to do so as set forth in the SLB No. 14 series. We clearly had no intention to suppress these materials, as our No-Action Request makes reference to the Proponent's annotated Proposal in multiple places. Fortunately, the Proponent has supplied the Staff with most of these materials with his Response Letter, so that the Staff may take those materials into account into consideration in its evaluation of the No-Action Request and no harm will have occurred as a result of this omission. We have enclosed herewith, as Exhibit M, a copy of additional e-mail correspondence from the Company to the Proponent, dated December 22, 2010, which the Proponent failed to supply with his Response Letter. The e-mail in question demonstrates many of the Company's stewardship efforts. We have no reason to believe that the Proponent's omission of this letter was anything other than unintentional and inadvertent as well.

The Company confirms that since December 22, 2010, it has neither sent nor received any correspondence or other documents to or from the Proponent, other than copies of the No-Action Request and the Response Letter.

CONCLUSION

While the Company respectfully submits that its arguments to exclude the Proposal on the basis of Rule 14a-8(i)(3) and Rule 14a-8(i)(7), as detailed in the No-Action Request (and incorporated by reference herein), are compelling and sufficient enough to justify exclusion, the Company has supplemented its argument to exclude the Proposal under Rule 14a-8(i)(10) to provide additional examples and supporting documentation demonstrating that the Company's existing practices, policies and procedures have

¹² See Exhibits M and N to the No-Action Request, along with the corresponding text on pages 16 and 18 of the No-Action Request, as well as footnote 15 of the No-Action Request and the corresponding text on page 17.

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substantially implemented the essential objectives of the Proposal. The Commission's statements and Staff precedent confirm that the standard for exclusion under Rule 14a-8(i)(10) is that a shareholder proposal be substantially implemented, not fully effected in all of its particulars. In other words, Rule 14a-8(i)(10) permits exclusion of a shareholder proposal when a company has implemented the *essential objectives* of a shareholder proposal, even when the manner by which a company implements the proposal does not correspond precisely to the actions sought by the shareholder proponent.

The Company's practices, policies and procedures, in combination with the supporting documentation provided by the Company, demonstrates that the Company's Stewardship Program has been "institutionalized" with written goals and objectives; product life cycle analysis questionnaires; comprehensive internal and independent product audits; internal and external product surveys; AE system reports; an APG Global Product Stewardship Manager who facilitates dialogue among APG employees, its customers, foreign governmental organizations and non-governmental organizations; and a Sustainability Council that issues written recommendations to the Company's senior executive management. Moreover, the Company's stewardship efforts and adverse effect reports are communicated to, and reviewed by, the Company's Chief Executive Officer and senior executive management on an annual basis, thus establishing their direct involvement, and ability to expand, strengthen and effect modifications to, the Company's Stewardship Program. Accordingly, the Company does not anticipate that it would implement a product stewardship program that is materially different from the stewardship program already guiding the Company's own extensive actions, even if the Proposal were to be adopted. Consequently, and for the reasons described both herein and in the No-Action Request, the Company believes that it has substantially implemented the essential objectives of the Proposal and that the Proposal may be properly excluded pursuant to Rule The Company respectfully requests that the Staff not recommend any enforcement action if the Company omits the Proposal from the 2011 Proxy Materials.

To facilitate transmission of the Staff's response to our request, my facsimile number is (215) 299-6728. If the Company can provide you with any additional information or answer any questions you may have regarding this subject, please do not hesitate to call me at (215) 299-6990. Thank you for your consideration of this request.

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Respectfully,

Andrea Utecht

Vice President, General Counsel and Secretary

FMC Corporation

Enclosures

Cc: Mr. David Brook (w/encl.)

APPENDIX 1

- 1. The annotated Proposal provided by the Proponent, included as <u>Exhibit 1</u> to the Response Letter, is replete with false, misleading and unsubstantiated statements. The Company has broken down the annotated Proposal into 14 main points that are being made by the Proponent. Of these, six are factually incorrect, four are misleading, one is unsubstantiated, two are unknown to the Company, and one is factually correct. Furthermore, many of the resources cited in the footnotes of the annotated Proposal are inapposite or irrelevant. Several examples of these inapposite or irrelevant cited resources are mentioned in the No-Action Request. See No-Action Request, <u>Exhibits M</u>-N; No-Action Request, pp. 16, 18; No-Action Request at n. 15, pg. 17.
- 2. The Proponent now claims that his Proposal is intended to apply to all of APG's insecticides, herbicides and fungicides. See, e.g., Response Letter, pg. 3. However, the Proposal itself is clearly focused on Furadan, since the resources cited in the footnotes of the annotated Proposal are entirely or predominantly related to alleged incidents involving Furadan. For this reason, the No-Action Request gives more attention to allegations concerning Furadan than APG's other product lines. Nevertheless, as described in more detail in the within letter to the Commission, the Company's stewardship program is by no means limited to matters relating to Furadan, nor solely to the United States, but rather encompasses all of APG's product lines and is global in scope.
- 3. On pg. 15 of the Response Letter, the Respondent claims that the Company's "Vision 2015" does not contain any identifiable item related to stewardship and contains no focus towards product stewardship. Contrary to this assertion, Vision 2015 the Company's vision for the future contains a five-point plan that will govern the Company's activities during the next five years, and one of these points is "being safe, ethical and responsible stewards."

 Refer to the Vision 2015 video at http://www.fmcbiopolymer.com/careers/Recruiting/Vision2015.aspx, at 4 minutes and 30 seconds.

FMC CORPORATION

REQUEST FOR NO-ACTION LETTER

SUPPLEMENTAL RESPONSE LETTER

FEBRUARY 4, 2011

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MISSION STATEMENT

#13807464 vt

ANNUAL REPORT (THE INTRODUCTORY SLIDES FROM THE ANNUAL REPORT AS WELL AS THE TWENTY OR SO PAGES SPECIFICALLY ON STEWARDSHIP)

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COMMUNICATION FROM THE HEAD OF APG TO ALL APG EMPLOYEES

#13807464 v1

Linda Froelich

From:

Milton Steele

Sent:

Thursday, February 18, 2010 3:08 PM

To:

<u>.</u>)

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ML-APG Staff

Subject:

FIFRA 6(a)(2) - Adverse Effects Reporting

Importance:

High Personal

Sensitivity:

Dear APG Colleagues:

As you know, one of the core principles in the FMC Code of Ethics and Business Conduct is compliance with all applicable rules and regulations.

For APG, the U.S. Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), is one of the most important laws we are required to comply with and governs the manufacture, sale, distribution, import and export of pesticides. Section 6(a)(2) of the law requires registrants to submit information to EPA regarding post-registration incidents and studies involving adverse effects to humans, animals, non-target plants, and the environment. While the Adverse Effects Reporting Rule applies particularly to U.S. information obtained by FMC Corporation through its employees and agents, information obtained outside the U.S. may also be reportable.

APG has a long-standing practice of complying with the Adverse Effects Reporting Rule through the use of our compliance manual, employee training, and APG's reporting processes. Our overall compliance with the Adverse Effects Reporting Rule is overseen by the FMC TSCA-FIFRA Risk Evaluation Committee (T-FREC) whose members consist of representatives from each of FMC's divisions.

A short summary of FMC's Adverse Effects Reporting Compliance Manual can be found using the link here

http://www.myfmc.com/departments/APG4U/Insight%20Documents/Regulatory/6a2%20Present ation%204Feb2010.pptx. This summary addresses some common questions that have arisen over the past several years on our reporting obligations and procedures. I ask you to review the summary slides to re-familiarize yourself with the rule to ensure we are in compliance. If you should have any questions, please direct them to who manages our adverse effects reporting to the U.S. EPA.

I thank you for your continued efforts to maintain APG's commitment to compliance.

With warm regard,

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PRODUCT LIFE CYCLE ANALYSIS: SCREENING QUESTIONS FOR NEW PRODUCTS

#13807464 v1

Doc Owner: APG Global Product Stewardship Manager

.EMC Corporation

		PRODUCT LIFE CYCLE ANALYSIS (LCA)
The primary criteria for the product LCA is whether there is a known, perceived or potential impact to health, safety, security and the environment. This should be the consideration when answering the screening questions. An acronyms list is provided at the end of the document. It is the safety of this product better than older competitive products for the same use? Is the safety of this product better than older competitive products for the same use? It is the performance of this product better than older competitive products for the same use? Have any potential hazards with this product been communicated to employees? Have any potential hazards with this product been communicated to employees? Have any potential hazards with this product been communicated to employees? Have the product been fully evaluated for the following: efficacy, behavior, fate, hazard, and risk? Does the product require Experimental Use Permits (EUPs) for field testing? If so, have they been obtained? Have the requirements for shipping (transportation and regulatory) been addressed and met? Have the requirements for shipping (transportation and regulatory) been addressed and met? Have the requirements for shipping (transportation and regulatory) been addressed and met? Action on one situation of this material with R&D require the use of PPE or engineering conclosit is that would trigger HSSE reviews, testing schemes and/or toxicology studies to assess 'potential risk?" Do you believe there are sufficient Management Control Processes and/or Practices in place to assess' potential risk? Do you believe there are sufficient Management Control Processes and/or practices in place to assess' potential risk? Do soluther R&D work on this material require the use of highly hazardous compounds or solvents? Is there any use of formation of any persistent, work and biogeous and bio-accumulating or solvents? Is there are sufficient was or formation of any persistent, where any and pro-accumulating or solvents?		SCREENING QUESTIONS FOR NEW PRODUCTS
Have the appropriate R&D activities been completed to support the product? If the answer is no, please explan. Is the safety of this product better than older competitive products for the same use? Is the safety of this product better than older competitive products for the same use? Have any potential hazards with this product been communicated to employees? Have any potential hazards with this product been communicated to employees? Have the product been fully evaluated for the following: efficacy, behavior, fate, hazard, and risk? Does the product require Experimental Use Permits (EUPs) for field testing? If so, have they been obtained? Does the handling of this material with R&D require the use of PPE or engineering controls? If yes, list Management Control Processes and/or Practices in place to ensure application and use of PPE Are there any ongoing or planned R&D/Product Development activities with this product that would trigger HSSE reviews, testing schemes and/or toxicology studies to assess "potential risk?" Do you believe there are sufficient Management Control Processes and/or toxicology studies in place to trigger and guide the HSSE reviews, testing schemes and/or toxicology studies to assess botential risk? Do you believe there are sufficient Management Control Processes and/or toxicology studies for assess "potential risk?" Do you believe there are sufficient management Control Processes and/or toxicology studies for assess "potential risk?" Does thurled R&D work on this material require the use of highly hazardous compounds Does further R&D work on this material require the use of or purple of the processes and or solvents? Is there any use or formation of any persistent, toxic and bo-accumulating or supplemental results.		The primary criteria for the product LCA is whether there is a known, perceived or potential impact to health, safety, security and the environment. This should be the consideration when answering the screening questions. An acronyms list is provided at the document.
Have the appropriate R&D activities been completed to support the product? If the harswer is no, please explan. Is the safety of this product better than older competitive products for the same use? Is the safety of this product better than older competitive products for the same use? Is the performance of this product better than older competitive products for the same use? Is the performance of this product better than older competitive products for the same use? Have any potential hazards with this product been communicated to employees? Have the product require Experimental Use Permits (EUPs) for field testing? If so, have they been obtained? Have the requirements for shipping (transportation and regulatory) been addressed and met? Does the handling of this material with R&D require the use of PPE or engineering controls? If yes, list Management Control Processes and/or Practices in place to ensure application and use of PPE Are there any ongoing or planned R&D/Product Development activities with this product hat would trigger HSSE reviews, testing schemes and/or toxicology studies to assess "potential risk?" Do you believe there are sufficient Management Control Processes and/or Practices in place to trigger and guide the HSSE reviews, testing schemes and/or toxicology studies to assesses pleace to trigger and guide the HSSE reviews, testing schemes and/or toxicology studies for pose further R&D work on this material require the use of highly hazardous compounds Does further R&D work on this material require the use of or only only only only only only only only	Product Name:	******
** LEIFE-Cycle/Amalysis: Questions Have the appropriate R&D activities been completed to support the product? If the answer is no, please explain. Is the safety of this product better than older competitive products for the same use? Is the performance of this product better than older competitive products for the same use? Have any potential hazards with this product been communicated to employees? Have any potential hazards with this product been communicated to employees? Have the product require Experimental Use Permits (EUPs) for field testing? If so, have the product require Experimental Use Permits (EUPs) for field testing? If so, have the requirements for shipping (transportation and regulatory) been addressed and met? Does the handling of this material with R&D require the use of PPE or engineering controls? If yes, list Management Control Processes and/or Practices in place to ensure application and use of PPE Are the constituents of the product/process on any carcinogen list? (IARC, EPA, ACGIH, California Prop 65, New Jersey)? Are there any ongoing or planned R&D/Product Development activities with this product that would trigger HSE reviews, testing schemes and/or toxicology studies to assess "potential risk?" Do you believe there are sufficient Management Control Processes and/or Practices in place to trigger and guide the HSSE reviews, testing schemes and/or toxicology studies to assess "potential risk?" Does durine R&D work on this material require the use of highly hazardous compounds or solvents? Is there any use or formation of any persistent, toxic and bo-accumulating or solvents?	late of Analysis.	
Have the appropriate R&D activities been completed to support the product? If the answer is no, please explan. Is the safety of this product better than older competitive products for the same use? Is the performance of this product better than older competitive products for the same use? Is the performance of this product better than older competitive products for the same use? Have any potential hazards with this product been communicated to employees? Have the product been fully evaluated for the following: efficacy, behavior, fate, hazard, and risk? Does the product require Experimental Use Permits (EUPs) for field testing? If so, have they been obtained? Have the requirements for shipping (transportation and regulatory) been addressed and met? Does the handling of this material with R&D require the use of PPE or engineering controls? If yes, list Management Control Processes and/or Practices in place to ensure application and use of PPE Are the constituents of the product/process on any cardinogen list? (IARC, EPA, ACGIH, California Prop 65, New Jersey)? Are there any ongoing or planned R&D/Product Development activities with this product that would trigger HSSE reviews, testing schemes and/or toxicology studies to assess "potential risk?" Do you believe there are sufficient Management Control Processes and/or Practices in place to trigger and guide the HSSE reviews, testing schemes and/or toxicology studies to assess "potential risk?" Does during R&D work on this material require the use of highly hazardous compounds or solvents? Is there any use or formation of any persistent, toxic and bio-accumulating or solvents? Is there any ever formation of any persistent, toxic accompanial or solvents?	Compiled by:	
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		X
	R&D	Have the appropriate R&D activities been completed to support the product? If the answer is no, please explan.
	R&D	Is the safety of this product better than older competitive products for the same use?
	R&D	performance of
	6	Have any potential hazards with this product been communicated to employees?
	R&D R&D	
	R&D	Does the product require Experimental Use Permits (EUPs) for field testing? If so, have they been obtained?
	R&D	Have the requirements for shipping (transportation and regulatory) been addressed and met?
	R&D	Does the handling of this material with R&D require the use of PPE or engineering controls? If yee, list Management Control Processes and/or Practices in place to ensure application and use of PPE
	R&D	Are the constituents of the product/process on any carcinogen list? (IARC, EPA, ACGIH. California Prop 65. New Jersev)?
		Are there any ongoing or planned R&D/Product Development activities with this product that would trigger HSSE reviews, testing schemes and/or toxicology studies to assess "potential risk?" Do you believe there are sufficient Management Control Processes and/or Practices in place to trigger and guide the HSSE reviews, testing schemes and/or toxicology studies
R&D substances (PTBs)2	R&D R&D	To assess potential risk / Does further R&D work on this material require the use of highly hazardous compounds or solvents? Is there any use or formation of any persistent, toxic and bio-accumulating substances (PTRs)?

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	Does current and/or planned Research and Development on the Product contemplate
R&D	or require the use of Good Laboratory Practices (GLP) or other federally mandated testing compliance requirement?
R&D	Does the manufacture of a planned new material fall under Process Safety Management (PSM) and if so has a HazOp Analysis been completed for the R&D activities involving this material?
	With respect to this product, do you anticipate incorporating the use of new or unique equipment unfamiliar by the research scientists? If Yes, please explain
28,80	Do you believe the current Process Safety Review (PSR) procedure is a sufficient control measure to address any required information, sharing and associated training obligation pursuant to running a safe operation? If No, what changes to current or new Management Control Processes and/or Practices should (will) be considered to bring about a thorough safety and operational review of new unique equipment unfamiliar by the research scientists?
R&D	Will the new process/process modification use a new (not currently used at FMC) chemical?
R&D	Will additional R&D/process modifications be required for this product?
	Do you foresee any new critical Issues arising such as regulatory, public perception, competitive response that could delay or stop the development? If yes - explain in some detail the regulatory or public perception issue and what if anything is being done from an advocacy perspective to put the issue on the right business track.
R&D	Likewise, do you anticipate the elimination of any regulatory or other noteworthy obstacles that could serve to hasten the development of this product? If yes list those items that could be eliminated.
R&D	Are there new requirements in the environmental, health and safety area for this material/product? If yes explain.
R&D	Does any proposed change as described in a written change order, experimental notes or manufacturing requirements document impact the R&D process or activities for the Product?
	Are you aware of any new or unfamiliar equipment that will be introduced or used in the production, packaging or handling of this product? If Yes: (a). What Management Processes and/or Practices are in place or need to be added to ensure the safe use, management and maintenance of new equipment which is
R&D	
	18 41
Raw Materials	a). If the answer is No, "Is there a plan in place to 'after-the-fact' certify/qualify those raw material suppliers that are non-ACC member companies?"

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Raw Materials	Is there a contract in place with the raw material/vendor which identifies their responsibility under the Recognish Can Beauty
	speciment HSEE information such as Material Safety Data Sheets, updated physical & chemical hazards, etc. provided concurrent with first delivery? If the answer is No - If EH&S information such as MSDS' are not supplied in a timely fashion or updated routinely, what Management Control Processes and/or Practices are in place to get the supplier to respond? {Explain}
	Is any pertinent [and important] hazard or toxicological data missing on any existing raw material used in the manufacturing processes of this product? If yes or I Don't Know. (a). What Systems, Processes and/or Practices are in place to identify important 'missing data" and to interface with the Vendor/Vendor(s) to get the needed information? {Please List and Explain}
Raw Materials	
	Will a new raw material not currently used by FMC be introduced into our operations with this product? If the answer is Yes: (a). What systems, processes and/or practices are currently in place to facilitate a smooth transition of a new raw material into the operations? This may include one of more systems, processes and/or practices. Please list and explain. (b). Do you consider the previously listed systems, processes and/or practices to be sufficient? If No: (c). Please list additional systems, processes and/or practices that should be considered to fill the existing gap?
Raw Materials	
	Does the supplier of this product, raw materials, process aids and/or equipment require a site inspection or equipment process review prior to first delivery? If No (a). What systems, processes and/or existing practices are in place to extract and apply key supplier findings from into our current programs and operations? {Please List}
Raw Materials	

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epresenting agent(s) has experienced any significant transportation, deliver or storage Have there been any past or current supplier quality performance issues that may have place to avoid an incident recurrence? List Management Control Processes/Practices: communicated throughout the organization to help FMC be better Product Stewards of a). What, if any, Management Control Processes and/or Practices have been put into ncidents associated with the raw material, process aids and/or equipment associated Are you aware of or do you have directlindirect knowledge that the supplier and/or its Are there special requirements in the transportation or receipt of the product, raw materials, process aids or equipment such as refrigeration, heating, specialized PPE. Have there been past incidences with the handling, storage and/or processing of the transportation, storage, use and/or receipt of this product, raw material, process aid Is the handling, storage and/or processing of the raw materials used to product the raw materials used to produce this product (e.g., serious effects, explosions, fires, If yes, explain how the current system are working to correct supplier performance (a). Explain some of these "special requirements", how they were discovered and Are you aware of any new or anticipated emerging critical issues (e.g., regulatory, egislative, public perspective, etc.) arising could prohibit or significantly limit the (a). Provide an explanation and how such findings are shared with others and systems in place to keep the current and operational? this product/material. (List and Explain) product covered by PSM requirements? an impact the product risk within FMC? with the manufacturing of this product? and/or equipment associated ? environmental releases, etc.) issues? Are they sufficient? prior DOT notification, etc.? If Yes: Manufacturing Manufacturing Raw Materials Raw Materials Raw Materials Raw Materials

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	Are there special requirements for the use of unique, special and/or unusual PPE when handling the raw materials or finished products associated with this product?
<u> •</u>	If Yes: a). "What Management Control Processes and/or Practices are in place at the manufacturing sites to ensure compliance with special PPE measures?" {List Them}
Manufacturing	
	Are you aware of any new or unfamiliar equipment that will be introduced or used in the production, packaging or handling of this product? If Yes: (a). What Management Processes and/or Practices are in place to ensure the safe use, management and maintenance of new equipment which is unfamiliar to the operation?
Manufacturing	
	Are there any "site-limited" Intermediates used in the development of this product? If Yes: "What Policies, Procedures and/or Practices are currently in place to address 'site-limited' intermediates, quantities allowed and storage requirements?"(Explain)
Manufacturing	
	Are there any recent or proposed process or formulation changes associated with the manufacturing of this product which may cause health, safety or environmental concerns regarding the storage, handling, and transportation or consumer use of this product? If Yes: Operational SOP's are in place to capture process and/or formulation changes that would cause a change in health, safety, environmental concern regarding the storage, handling, transportation and consumer use of this product? {List}
Manufacturing	
Manufacturing	Are you aware of or do you have direct/indirect knowledge that the supplier and/or its representing agent(s) has experienced any significant transportation, delivery or storage incidents associated with the raw materials, process aids and/or equipment associated with the manufacturing of this product?

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	Have any changes in the Quality Assurance Programs and/or associated finished
	be associated by this product?
	If Yes: (a). Please explain and elaborate a bit on Management Control Practices, Policies or
	Operational SOP's in place to detect such affects on finished Product Quality?
Manufacturing	
	Have contractors or outsider tollers/manufacturers requested health, safety and
4	inaterials, process aids, etc. associated with the production/manufacturing of this product?
Mariniacturing	Does any proposed change or amendment as described in a written change and
	experimental notes or manufacturing specifications/requirements document impact the
Manufacturing	current manufacture of this product?
	Have there been significant transportation related incidents associated with the transportation of this moduct that EMC is aware of?
	If Yes:
	(a). What Management Control Processes, Systems and/or Practices have been or
	will be implemented to mitigate reoccurance?
Transportation	
Transportation	Is this product transported in unregulated containers?
Transportation	Are there any written policies, procedures or guidelines on how shippers are qualified to ship this product?
	What Management Control Processes, Systems and/or Practices are in place to
	ensure the integrity of the product, it's packaging and contents from the point of
	ochains in receipt. (e.g. realing our s, etc.):
Transportation	
i di isportationi	Are there any current or panding transportation or citing restrictions related to the
	shipment of this product?
Transportation	
	Are you aware of or do you have direct/indirect knowledge of any current or pending changes to transport classification or labels associated with the finished product? If Yes, provide the source of Management Control Processes, Systems and/or
	Practices that are present to detect and alert the business to current or pending
	• Indiagnal I
Transportation	

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		Cireciive Date: Noveril
	Does the finished product exhibit any specific hazards that would suggest special "pre- emptive" communication to the public or emergency planning agencies?	
Transportation		
	Are you aware of or do you have direct/indirect knowledge of any new critical issues (i.e., regulatory, public perception, etc.) arising that could affect the transportation of the finished product? If Yes: . Provide an example of the "new critical issue", and what Management Control Processes, Systems and/or Practices are in place to capture "new critical issues" and how to migrate them into the FMC's business?	
Transportation		
Transportation	Does any proposed change or amendment as described in a written change order, experimental notes or manufacturing specifications/requirements document impact the transportation of this product?	
	Does this product require any unique packaging requirements to address HSSE hazards and/or characteristics? *Child-Resistant Packaging (40 CFR 157.20) *Senior Friendly Packaging *Others_	
Storage/Handling/ Packaging		
Storage/Handling/	Are there federal, state or local storage containment requirements during the storage of Storage/Handling/ the finished product that should be communicated to distributors and or customers? Packaging	
	Are there any special safe handling procedures for the Product including but not limited to: · loading and/or unloading	
<u> </u>	use	
	esner.	
	transportation	
	storage : packaging : other (specify) (i.e. do not drop, shake etc.)	
Storage/Handling/ Packaging		

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	Does this Product require special storage conditions such as refrigeration, heated environment, sprinkled, nitrogen blanket, fast-response H2O submersion, etc.? b). Are there Management Control Process(es) and/or Practices deemed sufficient to identify the special storage requirements? List below	
Storage/Handling/ Packaging		
Storage/Handling/ Packaging	Does the product require special security requirements? If Yes: Do you think we have sufficient Management Systems in place regarding Special Storage/Handling/ Security Requirements? Packaging	
Storage/Handling/ Packaging	Storage/Handling/ or manufacturing requirements document impact Storage/Handling/Packaging Product?	
Storage/Handling/ Packaging		
	Is this Product sold into a market where there have been significant past incidents (e.g. fires, unanticipated chemical reactions, health implications, etc) involving similar product families or materials? b). Are there existing management control programs and/or processes that are in place to address, correct, mitigate, etc. such incidents.	
	c). Are there any additional management control programs or practices that the business should consider to reduce and/or eliminate the propensity for such incidences to occur (i.e., What should we be doing differently?)	
Product Use		

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	Is this product sold into industry sectors that promote potential direct consumer exposure (i.e., food, pharmaceuticals, personal care, crop protection, etc.)? If Yes: a) What current management control programs and practices are in place to ensure that the product is appropriate for direct consumer exposure? Listing of controls/practices.
	b). Do you have any thoughts on any additional/supplemental management control programs and/or practices that should be implemented?
Product Use	
	Rank the overall level of customers/consumer sophistication when handling, storing, or disposing of this Product? □High □ Moderate □ Low
Product Use	 b). If a 1 low ranking is selected, what controls, suggestions, etc. may be considered to improve the customer/consumer sophistication and/or improve the handling, storing and/or disposing of this product.
Product Use	Do customers typically use this Product in open systems?
	During customer applications is a significant portion of the Product released to the environment during customer use? Explanation:
Product Use	release to the environment* signals product applications wherein the waste/effluent from the system is not substantially treated by a PWTO (Potable Water Treatment Operation).
Product Use	Do a majority of the customers using this product typically not use PPE even though it may be specified on the product's label? a) Would failure to wear PPE lead to customer/consumer injuries?
	Is there a potential for unacceptable trace materials in the Product? a) What management control programs and/or practices are in place to certify raw materials and thus identify the presence of trace materials and impurities?
Product Use	
Product Use	Are you aware of any significant complaints, allegations or observation of questionable HSE practices by customers or others using the product that could surface?
	Are there any new handling procedures or product specific procedures which need to be communicated to customers/and or consumer using the product. If Yes, list:
Product Use	

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	Are there any new or pending federal, state or other governmentally-directed
Product Use	
	Has the business identified any known past application of this product as a misuse?
Product Use	
	Will this product initiate the need for assistance or information relating to product safety or product stewardship?
Product Use	or Yes: a) Should we change, add, amend or delete an existing Management Control Process or Practice?
Product Use	Are you aware of any significant safety, health, environmental and/or product stewardship concerns that could be raised by distributors, brokers and/or traders?
	Do current distributor agreements omit any of the following: • Prohibition of commingling the product? • Feedback from distributors/retailers on unsafe practices? □Yes □ No • Requirement for distributors to communicate EHS information downstream to their customers? □Yes □ No
Product Use	
Product Use	Are there known misuses of this Product that can cause harm?
Product Use	Is the Product known to be used in any sensitive end use applications (ex direct or Indirect food contact, toys for children, medical/pharma, personal care products, cosmetics)?
Product Use	Are there hazard warning notices/labels on the product the consumer uses?
Disposal	is the Product a hazardous waste or regulated waste?
Disposal	If the Product is a liquid, should approvals be obtained prior to disposal to a sewer system?
Disposal	Is this Product disposed of via land application (i.e. septic system)?
Disposal	Can/should packaging be recycled?
Disposal	With a focus on the end-of-life-cycle, are there issues with reuse, recycling, or the volume and type of final waste?
Disposal	Do we have knowledge of incorrect disposal practices by our customers?
Disposal	Will the Product and it's processes contribute to stratospheric ozone depletion, topospheric ozone formation, global climate change (greenhouse gas emissions)?
S. C.	Does the use of this product pose any security risks? i.e. any chemicals that could be used for terrorists activities? Any chemicals that could be used in illegal drug
Security	Does this product need to be stored in a secure location?

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in case of a fire or spill what risks are there and what security measures should be (b). If No, explain what improvements should be made to improve the system(s)? Has this product composition (including trace and trade secret components) been associated emissions being targeted by responsible environmental organizations, regulatory groups, governments etc. such that the license to construct facilities, manufacture/operate or market may not be available in the future? For this Product, are any raw materials, intermediates, products, by-products or (a). Are the current monitoring systems sufficient to identify the special security verified by the Analytical Group & reviewed by the Registration Manager? Does the transport of this Product require special security requirements? equirements and monitor the process? taken? Security Security Other Other

Acronyms

American Chemistry Council ACCIH EPA IARC ICA MOC PPE

American Conference of Governmental Industrial Hygenists **US Environmental Protection Agency**

International Agency for Research on Cancer

Life Cycle Analysis

Personal Protective Equipment Management of Change

Process Safety Management

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RCMS INTERNAL AUDIT CHECKLIST

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RCMS Internal Audit Checklist

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Date: December 7,8,9,10 & 13, 2010	
Team Leader:	
Team Member:	
Team Member:	
Scope: RCMS APG Headquarters Functions	
Criteria: HQ-11 FMC RCMS Internal Checklist 4.4 Rev 10	
Interviewees:	
Date of sites most recent Internal Environmental Audit: NA	
Date of sites most recent Internal Safety, Health and Security Audit: NA	

		T			1	T	T	1
Applicability HQ/Plant	*	Y	*	*	*	*	*	*
Арріі НQ/	>	>	>	>-	>	>	>	> -
Observations & Objective Evidence	APG Headquarters is part of "FMC Corporation Worldwide Policy on Health, Safety, Security and the Environment (HSSE)" posted on the FMC Responsible Care intranet and internet sites.	See above. Also Philadelphia based employees receive Responsible Care e-brief training.	Policy is relevant to APG Headquarters.	FMC HQ RCWG reviews and sets RC goals, objectives and targets. (BD) Started doing interdivisional annual internal RCMS audits in '10. (BD)	See policy.	See policy.	See policy.	See policy.
Confor- mance (Y,NC, OFI or N/A)	Y	Y	Y	Y	I	Y	Y	Y
Requirement	Has FMC's senior management defined and documented its Responsible Care policy?	Has the policy been communicated to employees, stakeholders and the public?	Is the policy relevant to the nature, scale and impact of FMC's operations, products and processes?	Does the policy provide a framework for establishing and reviewing Responsible Care goals, objectives and targets?	Does the policy include commitments to continual Responsible Care improvement?	Does the policy commit to legal and Responsible Care related requirements to which FMC is subject or subscribes?	Does the policy promote openness with stakeholders?	Does the policy reflect a commitment to the Responsible Care Guiding Principles?
RCMS Tech-Spec Reference	1.1.a	1.1.b	1.2	1.3.a	1.3.b	1.4	1.5	1.6

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Observations & Objective Evidence	Best Practice: NAC has a hallway cabinet that contains Responsible Care Information and posts policy along with guiding principles and other communication literature on outside of cabinet. Annual Product Stewardship Dialog presented to CEO (6/10) contains highlights, goals, opportunities for improvement, etc. (LF) All Leadership Team Meetings Echo RC. Don't miss opportunity to walk the talk (MS) Social responsibility to community. Philanthropy working Group (MS) 3 examples: 1) Furadan — Stop selling in all of Africa (proactive to 60 minutes report); 2) Set up independent sustainability council; 3) Look at where selling products of certain toxic classes. (MS)	Corporate H&RA procedure administered through CEG by (LF) EPA, EU, etc. regulated risk assessment programs. (LF) FIFRA mandates for pesticides to get to the market. No formal internal process. (JC) Annual Product Stewardship Dialog presented to CEO (6/10) contains highlights, goals, opportunities for improvement, etc. (LF)
Conformance (X,NC, OFI or N/A)	>	A
Requirement	Does FMC's senior management and other levels of management demonstrate visible leadership, commitment and involvement to this policy by: - periodically reviewing the policy for relevancy? - setting and reviewing goals? - auditing practices and company operations? - promoting Responsible Care issues? - providing resources?	Does FMC have a system to identify and evaluate potential health, safety, security and environmental hazards and assess and prioritize risks associated with these hazards?
RCMS Tech-Spec Reference	1.7	2.1.8

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Observed for P. Objective Pridence	Product Life Cycle Analysis Spreadsheet used for new products (ex. ***Transport of the control o	Product Stewardship Worldwide Network. Started summer '09 and meets ~quarterly. March '10 focus on Furadan.	Audit worldwide. Get out of markets that use illegally. EPA risk assessment revoked tolerances therefore looking at replacement product. (LF)	Use SAP HAZMAT Shipping Report to determine DOT category (PG 1, PG 2, PG 3, non-regulated). (GG) Review extract from freight payment data base (shows	used. (GG) 1st carrier preference is a RC carrier. (GG) Process for bringing product to market (generate data, conduct EPA risk assessment, submit package to EPA, work with EPA, need stamped approved labels, get states approvals, label review to insure what's on label is 100% accurate prior to provide plant). (JC)	Incontact A approval for any changes to product and to label) (JC) Formulation tollers in US identified and audit checklist identifies hazards. (RR)
Conformance (Y,NC, OFI	Y			·		
Deanirament	Has FMC identified all appropriate potential health, safety, security and environmental hazards associated with	- new and existing products?	- new and existing processes?	 changes to existing products and processes? 	 the distribution and use of raw materials and products? 	- activities associated with its operations (e.g., maintenance, training, housekeeping and other non-production activities)?
RCMS Tech-Spec	2.1.6					

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	Observations & Objective Evidence	Corporate HQ-4: RCMS Product Stewardship H&RA revised 2/2010 Use SAP HAZMAT Shipping Report to determine DOT category (PG 1, PG 2, PG 3, non-regulated). (GG) Don't sell to home markets directly (i.e. Home Depots, etc) (JC) Use SAP HAZMAT Shipping Report to determine DOT category (PG 1, PG 2, PG 3, non-regulated). How handle based on determination (i.e. don't cross dock PG1 products). (GG) Determination criteria and how material handled based on shipping report should be better documented. Toller audit checklist is scored. (RR)	All changes must be approved by EPA (JC) Furadan example (JC) Toller improvement plan based on follow through audit (RR)	Product Life Cycle Analysis Spreadsheet used for new products (ex. ————————————————————————————————————
Confor- mance	or N/A)	Y OFI	A	X
	Requirement	Has FMC assessed and prioritized risks associated with these hazards?	Are the prioritized hazards changed or updated as appropriate?	Have potential hazards of planned activities been assessed prior to implementation?
RCMS Tech-Snec	Reference	2.1.c	2.1.d	2.1.e

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Observations & Objective Evidence	An independent outside sustainability council has been set up to help review stewardship and sustainability practices. Had 1st meeting – established goals and objectives. (LF) Presentation made to leadership team in summer 2010. (LF)	See APG intranet->Business Site->Ag Products for MSDS, labels, etc (focus on North America). Looking to develop a global database. (LF) MSDS system transitioning to Wercs from 3E. (NS) MSDS reviews and updates are not current according to written procedure that they be \(\leq \forall \) years old (Active MSDS on intranet were >\(\forall \) years old).
Conformance (Y,NC, OFI or N/A)	A	NC
Requirement	How does the FMC monitor emerging health, safety, security and environmental concerns? - Who owns this process? - How is information shared? - What evidence is available to prove the process is being implemented? - How does the organization know which concerns are relevant?	Does FMC maintain current information related to potential hazards and associated risks for: - Products - Processes - Activities associated with its operations
RCMS Tech-Spec Reference	2.2.a	2.2.b

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Observations & Objective Evidence	EPA label manual (www.epa.gov) (NS) MSDS Wercs system. (NS) Attends seminars by Keller & Heckman, Informa (updates for worldwide chemical regs). (NS) Example 1	Federal Register review (LF) Crop Life America Distribution Council (DOT attends 1 meeting per year) (JV) BDP (Export/Import Broker) Newsletter (JV) Law firm newsletters (GG)	4/10 e-mail) (Eants (DT) rersations with	and survey (BL)				Yes (i.e. Olympic Forrest Pallet Supplies f/u e-mails) (DT) Biggest things customers look for is having MSDS, spill/control response (Prosar/Chemtrec on label) (BL)
Conformance (Y,NC, OFI or N/A)	Ā	·	X					Y
Requirement	Does FMC have a system in place to review and determine the applicability of regulations, legislation and other subscribed requirements?		What are the processes in place to assess stakeholders' perspectives?	- Employees	- Customers	- Suppliers	- Community and others	Were the concerns or perspectives from stakeholders captured with these processes?
RCMS Tech-Spec Reference	2.3		2.4.a					2.4.b

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)	93	cascade down 99 NC. (BT) PG Leadership	result of audit of the higher top down and ()					ees. (BT)	areas. (BT) onthly calls for
) J	Observations & Objective Evidence	HSSE APP's that This closes a 200 starts with A IG)	SE API's were a fe work place, 2 ut received fron 2010 API's) (BJ					er NAC employ.	include needed neetings and mc (MS)
)	Observations &	NAC division manager has HSSE API's that cascade down to organization as a metric. This closes a 2009 NC. (BT) API's cascaded down in FPS. Starts with APG Leadership Team and direct reports. (MG)	Last year's documented HSSE API's were a result of audit finding. Safe driving and safe work place, 2 of the higher risk items part of API's. Input received from top down and bottom up (Dec 1 e-mail on 2010 API's) (BT)	,	¥ ver			HSSE cascaded down to other NAC employees. (BT) API's cascaded down in FPS. (MG)	API's developed annually to include needed areas. (BT) Quarterly Leadership Team meetings and monthly calls for extended Leadership Team. (MS)
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	Conformance (Y,NC, OFI or N/A)	A	A					Y	Y
T)		en ecific for: operations	s based			scribed		anization ets related	s reflect
3	Requirement	oals, objectives and targets been hed as appropriate through specific procedures or employee teams for: Products Processes Activities associated with its operations	ctives and targe	ks? '	input?	regulatory, legal and other subscril requirements?	to continual s?	nction in the org jectives and targ ities?	tives, and target to continual
)	Rec	Have goals, objectives and targets been established as appropriate through specific plans, procedures or employee teams for: - Products - Processes - Activities associated with its operat	Are these goals, objectives and targets based on:	- prioritized risks?	 stakeholders' input? 	- regulatory, leg requirements?	 commitment to continual improvements? 	Has each relevant function in the organization established goals, objectives and targets related to RCMS responsibilities?	Do these goals, objectives, and targets refl FMC's commitment to continual improvement?
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λ	RCMS Tech-Spec Reference	2.5.a	2.5.b					2.5.c	2.5.d

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Applicability HQ/Plant	X	Y	>		×
Observations & Objective Bridence	HSSE API's are developed yearly for the employees and rated on accomplishment. (MG) Accountability and responsibility enforcement. (MG)	From Leadership input and employee input and through industry association (Crop Life of America, Agricultural Retail, etc) Performance targets and regional P&L statement. (BT) APG Leadership Team Safety Discussion – 12/8/10 meeting presentation example. (KF) Fill gap with regional and local safety committees. (KF) Working with SHRS. (KF)	Activities issues from Crop Life of America and Agricultural Retail Association Executive Boards funneled to organization to be proactive. (BT)	Handled by the FMC HQ Responsible Care Working Group. See SHRS intranet Responsible Care Program FMC Management System (or HQ RCMS Sharepoint)	See above.
Conformance (Y,NC, OFI	Y	Å	X	Y	M
Requirement	Do the objectives and targets programs include time frames and responsibilities for accomplishment?	What is the process for identifying and assessing programs, organizational needs and resource allocation to meet goals, objectives and targets?	Are programs assessed or amended as appropriate to include new projects, activities, or developments?	Has FMC established and maintained a documented Responsible Care Management System as necessary to ensure its effective implementation, maintenance and control?	Is the RCMS documented system: - legible? - dated? - available? - readily identifiable? - maintained in an orderly manner? - retained for a specific period?
RCMS Tech-Spec Reference	2.5.e	2.5.f	2.5.g	3.1.a	3.1.b

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Observations & Objective Evidence	Reviewed and updated by FMC HQ Responsible Care Working Group with final approval by HQ Responsible Care Coordinator.	Plant MOC process (LF) EPA adverse effects reporting rule 6(a)2. Submit monthly & quarterly and look for trends (i.e. revised Bifenthrin label based on pet effects). (LF)	MSDS new Wercs system (LW) Product labels (LW)	Customer can register for label change notifications. (LW) Newly formed team on DHS concerns for pesticides & fertilizers (LW)	(review development of products going to market – i.e. 12/7/10 master product list & Leadership Team action items) (JC)	NAC quarterly project review with Leadership Team Team Members has regulatory responsibility for every product sold (i.e.	labels to ensure correct when go to packaging location) (JC) EC Sourcing system used for new Requests For Quotations (RFQ) bidding process for new suppliers. The RFQ includes questions on Responsible Care, etc. (DT)	Toller protocol (RR) Warehouse qualification process. New distribution center spreadsheet. (JV) C-TPAT survey part of supplier and distribution process. Linden warehouse (JV)
Conformance (Y,NC, OFI or N/A)	Y	Y						
Requirement	How are these documents reviewed, updated and approved? By whom?	Consistent with the Responsible Care Guiding Principles, has FMC established and maintained systems to:	- Manage its prioritized risks?	- Ensure safe operations and maintenance activities sufficient to achieve its policy, goals, objectives and	targets? - Protect the environment, conserve resources, protect worker health and	create a safe and secure work environment?	 Manage change for products, processes and activities associated with its operations, commensurate with risk? 	
RCMS Tech-Spec Reference	3.1.c	3.2						

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Observations & Objective Evidence	Provided APG Roles & Responsibility document. Barry Downes communicates to appropriate individuals. (BD)	New Philadelphia based employees receive RC briefing through e-learning. This is part of new employee orientation. Spreadsheet of employees appeared to cover all/most employees. The standard of employees and trains individuals on RC R&Rs. R&R document updated as needed (recently updated 12/7/10). (BD) Documentation of R&R training needs improved to help confirm done and effective.	See above.	RC briefing includes tests. As mentioned above there is not R&R training documentation. (BD)	internet inquires, etc. (LW) EPA 6(a)2 tracking (LW) Product quality / complaint report (received from customers filed reps / technical reps / distribution / etc.) (LW) finc.com (LW) fincprosolutions.com (MSDS / labels) (LW) Have label change notification service – provides those who sign up with labels and MSDS when updated (LW)
Conformance (Y,NC, OFI or N/A)	Y	V OFI	Y	Y	A
Requirement	Has FMC established, documented and communicated responsibilities and accountabilities for the Responsible Care requirements?	How are training needs identified to address Responsible Care related job requirements? How is it updated regularly?	Have employees with Responsible Care functions been trained appropriately? Have new employees been trained appropriately?	Has FMC ensured that training is effective?	Has FMC established and maintained dialogue regarding relevant risks, impacts on health, safety, security, and the environment, its Responsible Care System performance, plans for improvement, and management of relevant risks for products, processes and activities associated with its operation with stakeholders as follows, but limited to:
RCMS Tech-Spec Reference	3.3	3.4.a	3.4.b	3.4.c	3.5

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Observations & Objective Evidence	EC sourcing, visits, phone calls (DT) Warehouse visits, e-mails (i.e. 7/10 on Jacobson warehouse problem e-mail) (JV) Tollers provided written Technology transfer package (MSDS, safety precautions, etc) Communicate in product presentation give to customers (BL)	FPS Compliant Policy & Procedure Manual. Also has FAQ to assist with manual. (LW) FPS has various incident forms. (LW) fmc.com (LW)	fincprosolutions.com (MSDS / labels) (LW) Have label change notification service – provides those who sign up with labels and MSDS when updated (LW) FPS Tech Service Handbook 1/08. How to book on what	to do if (LW) Get MSDS for sample and every shipment (DT) Get COA for quality check (DT) Warehouses get MSDS sheets (JV) Carriers provided MSDS or ERG page (JV) Customer meetings include slide on RC i.e. Athena product	overview (BL)
Confor- mance (Y,NC, OFI or N/A)		I			
Requirement	 Employees? Customers? Suppliers? Contractors? Carriers? Distributors? Tollers? Community and others? 	Does FMC have a process to facilitate the flow of: - Hazards and Safe handling information	along the supply chain to support risk evaluation and risk management of its products?	- Appropriate guidance, information and or training requirements along the supply chain to support knowledge of the relevant risks and hazards associated with its products, processes and activities,	 For receiving such information from suppliers on goods and services used by the organization.
RCMS Tech-Spec Reference	. •	3.5.1			

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Observations & Objective Evidence	Per Corporate HQ-4: RCMS Product Stewardship H&RA revised 2/2010 no APG material needs a product summary. Labels, MSDS (BL) FMCcrop.com (BL) Pay to put our information on websites most commonly used for Ag products (Greenbook, CDMS, Agrian) (BL)	Chemtrec (JV) Recycling programs for plastic jugs (BL) National Distribution Association for Pesticides (BL)	APG has representation on the FMC Headquarters RCMS Working Group. Safety shares. Bi-weekly safety calls. (KF)	API's cascade down. Factor in MRA's appropriate legal use of our products; driver safety course for appropriate personnel, etc. (MG)	Annual APG Safety, Products Stewardship and Environmental Dialog input. (BD)
Confor- mance (Y,NC, OFI or N/A)	A	Y	A	Y	Y
Requirement	Is Product Stewardship information publicly available? Through which means? This information includes, but is not limited to: - Chemical identity (or category description) - Uses – applications, functions - Physical/ chemical properties - Health effects - Environmental effects - Exposure – exposure potential - Risk management – recommended measures	Is FMC involved in mutual assistance programs and sharing activities as embodied in Responsible Care?	How are the employees involved in the development, communication and implementation of the Responsible Care Management System?	How is the employees' Responsible Care performance evaluated and recognized? Does the employee have a performance evaluation objective (MRA) that includes Responsible Care performance?	What mechanisms/procedures enable employees to share environmental, health and safety concerns with the management?
RCMS Tech-Spec Reference	3.5.2	3.5.3	3.6.a	3.6.b	3.6.c

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Observations & Objective Evidence	Crisis Management Team (MS) Philadelphia Safety Leadership Team Uses Philadelphia Headquarters Emergency Response Plan, Incident Investigation Procedure, Illness & Injury Procedure, Bomb Threat Checklist, etc. (posted on intranet)	See above.	See above. FPS Compliant Policy & Procedure Manual. Also has	FAQ to assist with manual. (LW) Monthly report documents and monitors. (LW) FPS tech service manual (LW)
Confor- mance (Y,NC, OFI or N/A)	Y	X	Y	
Requirement	Does FMC have a procedure to respond to accidents and emergency situations including considerations for preventing and mitigating impacts that may be associated with these situations?	Do these procedures include: - Appropriate consideration of communications and community recovery needs? - Appropriate participation in the development, implementation and maintenance of community emergency preparedness plans? - An appropriate process for responding to raw material, product, process, waste material and transportation incidents?	Are these procedures periodically reviewed and tested where practicable? Have procedures been documented and	implemented to monitor key characteristics of operations that can have significant effect on health, safety, security and the environment?
RCMS Tech-Spec Reference	3.7.a	3.7.b	3.7.c 4.1.a	

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	FPS complaint tracking database contained in monthly. (LW) Monitor, document and submit adverse effects and customer complaints (i.e. 6(a)2 reports) (LF) Done in annual safety dialog (BD) Damage analysis spreadsheet (JV)	FPS complaint tracking database contained in monthly. (LW) Monthly APG Leadership Team discussion (BD) APG monthly safety report (i.e. Oct '10) (BD) Provide damage analysis spreadsheet info to BD (JV)	Track and keep up to date via publications (i.e. Pesticide & Toxic Chemical News) (NS) Attends seminars by Keller & Heckman, Informa (updates for worldwide chemical regs). (NS)	Annual RCMS internal APG Headquarters audits. (LF) 2010 RCMS external FMC Philadelphia Headquarters audit (Feb '10 by DNV).	Annual management review meetings (review of 2009 APG Headquarters internal audit done 1/6/2010). (LF/BD)
Confor- mance (Y,NC, OFI or N/A)	A	Y	Y	Ā	Y
Requirement	Are records available to track performance, relevant operational controls and conformance with goals, objectives and targets?	Are health, safety, security and environmental performance and trends analyzed based on relevant measures of key characteristics and records?	Has the overall compliance with relevant health, safety, security and environmental legislation and regulation been evaluated?	Has the effectiveness of the Responsible Care Management System been evaluated to determine if it has been properly implemented and maintained?	Were the results of these evaluations reviewed by management?
RCMS Tech-Spec Reference	4.1.b	4.1.c	4.2	4.3.a	4.3.b

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Observations & Objective Evidence	Customers are not qualified prior to entering into a business relationship. (from 2009). FPS has developed	a customer qualification process for 2011 implementation. (LW)	NAC will also implement customer qualification process developed by FPS in 2011. (BL)	stewardship, on-line training requirement to receive	FPS Technical Service Reps provide training and review	customer complaints. (See FPS tech service rep reports – i.e.	EC Sourcing system used for new Requests For Quotations	(RFQ) bidding process for new suppliers. The RFQ includes questions on Responsible Care, etc. The EC	Sourcing system scores the bids and is reviewed by a team. (DT)	Annual assessment reviews of existing suppliers are performed by the plants. (DT)	Warehouse qualification process (new distribution center	set up spreadsheet (GG) Carrier qualification process (check Safestat, insurance,	permits, etc.) Use Kavanaugh to periodically review (JV) C-TPAT surveys for security of imports (IV)	Toller protocol (RR)
Confor- mance (Y,NC, OFI or N/A)	NC											,		-
Requirement	Has Responsible Care, or other health, safety, security and environmental program,	performance review been conducted, as appropriate to the risk, for use in qualification	ត្ត	- Camers?		- Distributors?	- Customers?	- Contractors?	- Third party providers?					
RCMS Tech-Spec Reference	4.4													

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Observations & Objective Evidence	FPS via tech service rep reports and training. Pest Control operators can get training credits. (LW) FPS track number of customer inquiries. (LW) Carriers – Legentre Survey (JV)		Uses Philadelphia Headquarters Incident Investigation Procedure, Illness & Injury Procedure, etc. posted on intranet. (BD) Spreadsheet damage analysis (JV)	
Conformance (Y,NC, OFI	Y		Y	
Requirement	Has the effectiveness of FMC's communication programs with stakeholders been periodically evaluated?	- Customers	- Community and others Does FMC have a procedure/s to identify, address, investigate and communicate: - Incidents, accidents and near misses relating to its products, processes and activities associated with its operations.	
RCMS Tech-Spec Reference	4.5		4.6.a	

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) ~)	g	dures.					broken wrist.	IC records less IT Steering	RCMS audit
	Observations & Objective Ryldence	Headquarters proced				·	incident – employee	ol procedure and FM mittee & Cross Busin orbane-Oxy (CT) It process and control	2009 APG internal 1
j	Ohservati	Use FMC Philadelphia Headquarters procedures.					10/13/2010 recordable incident – employee broken wrist.	RCMS document control procedure and FMC records retention policy. APG IT Steering Committee & Cross Business IT Steering Committee (CT) IT controls based on Sorbane-Oxy (CT) Corporate internal audit process and controls—	Management review of 2009 APG internal RCMS audit done 1/6/2010. (LF/BD)
	Confor- mance (Y,NC, OFI or N/A)						$m{Y}$	Y A O I	A d
) ()			causes?	s and mitigate	on of corrective	nd associated ive actions with xternal	actions timely,	nented to of Responsible ords?	ews take place to ity, adequacy and ble Care
9	Requirement	Do these procedures address:	Identification of root causes?	Taking steps to address and mitigate any adverse impact?	Initiation and completion of corrective and preventive actions?	Sharing key findings and associated corrective and preventive actions with relevant internal and external stakeholders?	Are corrective and preventive actions timely, appropriate and effective?	Have procedures been implemented to identify, maintain and dispose of Responsible Care Management System records?	Do periodic management reviews take place to ensure the continuing suitability, adequacy and effectiveness of the Responsible Care Management System?
:)	!	Do these pro	- Iden	- Taki	- Initia	- Shar corre relev stake	Are correcti appropriate	Have proced identify, ma Care Manag	Do periodic managem ensure the continuing effectiveness of the Re Management System?
<u>, </u>	RCMS Tech-Spec Reference	4.6.b					4.6.c	7.4	5.1.a

		Confor-		Applicability HQ/Plant	oility
RCMS Tech-Spec	•	mance (Y,NC, OFI			
Keterence	Kequirement	or N/A)	Observations & Objective Evidence		
5.1.b	Does management review result in changes, as	Y	Annual safety dialog. (BD) (MS) (KF)	¥	>
	appropriate, to the policy, goals, objectives,				
	targets, and other elements of the Responsible				
	Care Management System, changing			- ,-	
	circumstances and to the commitment to				
	continual improvement?				-

* - Must report local results to corporate.

RCMS Internal Audit Report

Date(s) of Audit:

Audit Team Leader:

Audit Team Members:

Audit Team Leader

Management Representative

Date

January 7, 2011_Date

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Scope

This internal Responsible Care Management System (RCMS) audit scope was to determine if the RCMS at the FMC (input facility name) conforms to the RCMS standard and planned arrangements as well as if the RCMC has been properly implemented and maintained. The RCMS checklist was utilized for this audit.

Definitions

The audit findings are classified as a conformance, non-conformance or an observation.

A conformance is defined as meeting the RCMS requirements or planned arrangements based on objective evidence or observations during the audit.

A non-conformance is defined as a deviation or non-conformity with the RCMS requirements or planned arrangements that was observed during the audit.

An observation is an isolated deviation from planned arrangements observed during the audit that was not system wide.

Corrective Actions

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For all cases where non-conformances with the RCMS have been identified, corrective actions will be developed.

In all cases corrective action plans will include the following:

- Clear description of the action(s) to be taken to correct the non-conformance
- Target date for completion of the corrective action(s)
- Identification of an individual responsible for completing the corrective action.

Whenever possible, corrective action plans will be developed within 30 days from the date the final audit report was issued. Within this time period, individual corrective action plans will be sent to the Responsible Care Coordinator for review and approval.

Summary of Findings

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Is it a Non-Conformance (NC) or an Observation (O)?	NC All MSDS's should be cleaned up after new WERCs MSDS system is fully implemented. This was originally scheduled to occur in 3 rd quarter of 2010 but has been delayed.	NC Complete communication and implementation of customer qualification process that has been developed for FPS and NAC.	Provide RCMS Roles and Responsibilities awareness training in a timely manner for new individuals (within first few months) and improve documentation of RCMS Roles & Responsibilities training provided to help improve awareness and training effectiveness.
Findings / Observations from the Internal Audit	Technical specification 2.2.b states that current product information is maintained related to their potential hazards and associated risks. In accordance with APG written procedures active MSDS should not be >5 years old. MSDS >5 years old were noted on the list of APG MSDS. From 2009.	Technical specification 4.4 states qualification and periodic reviews of HSSE performance is conducted as appropriate to risk for stakeholders. Customers are not qualified prior to entering into a business relationship. The qualification process has been developed and will be implemented for FPS and NAC in early 2011. From 2009.	rechnical specification 3.4 states that a process is in place to identify training needs, and to establish and maintain effective training, to ensure RCMS job related requirements are addressed. While the APG RCMS Roles and Responsibilities Document had been updated, the documentation and timeliness of training individuals included in this document should be improved. From
RCMS Section Reference	2.2.b	4.4	3.4.a,b,c

Document how each hazard class is handled on the hazard and risk assessment spreadsheet.								
OFI					-			-
Technical specification 2.1 states systems are established for identifying and	evaluating potential HSSE hazards. While	distribution of APG products based on	their hazard class is used to determine	how the product is handled throughout the	distribution chain, the criteria used to	make this determination and how	distribution practices affected are not	documented.
			2.1.c				-	

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2010 RCMS EMPLOYEE SURVEY

From:

Sent:

Friday, February 05, 2010 10:43 AM

To:

Cc:

Subject:

RCMS - 2009 APG HQ Employee Survey Results

Attachments:

APG Responsible Care Employee Survey Results - Raw Data 12-7-09.xlsx

Dear All,

The results of the 2009 RCMS APG Employee Survey for Philadelphia HQ are quite favorable – please see the high level summary below. The vast majority of employees feel that FMC provides them with necessary information on potential hazards of our products and on HSSE programs, strives to protect employees through our HSSE activities, and operates its activities in a safe and responsible manner.

Written responses to two additional survey questions (listed below) identified the following concerns:

- being able to find needed information in case of an emergency
- dealing with hazards of new ai's that we are not familiar with
- making sure that RCMS training is on-going and that everyone is committed to continuous improvement

and I are addressing each of these to ensure that there are appropriate actions in place to address and alleviate these concerns.

If you are interested in the detailed results of the survey, the attached spreadsheet contains all the survey data.

If you have any questions, please let me know.

Best regards,

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Summary of RCMS Employee Survey for APG HQ:

Number of Responses	95 (approx. 65% response)	
Survey Question	Response	
Familiarity with RCMS	92 - yes, 2 – no, 1 – no response	
FMC provides info on potential hazards of our products	91 agree to strongly agree, 4 disagree	
FMC keeps me informed on HSSE activities	91 agree to strongly agree, 4 disagree	
FMC strives to protect employees through HSSE programs	91 agree to strongly agree, 2 disagree, 2 no response	
FMC is prepared to deal with emergencies that may have community impact	89 agree to strongly agree; 5 disagree, 1 no response	
FMC operates in a safe and responsible manner	93 agree to strongly agree, 2 disagree	

Additional survey questions:

- 1. What, if anything, concerns you most about FMC and Responsible Care?
- 2. Has FMC provided you with sufficient information on what to do in case of a chemical or other emergency?

2010 RCMS CUSTOMER SURVEY

#13807464 v1

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From:

Sent:

Wednesday, February 03, 2010 4:22 PM

To:

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RCMS Customer Survey Results for FPS and NAC

Subject: Attachments:

FMC Responsible Care Survey Results - APG Customers.xlsx

Dear

The results of our RCMS Customer Survey for FPS and NAC (combined) are attached. A high level summary is tabulated below. The results are mostly favorable; however, the response rate was low at only 10%.

There is opportunity for some communication, training, and education on safe transport, handling, and use of our chemicals with a few of our customers. Please let me know if you would like my help in putting something together for them from a product stewardship perspective.

Best regards,

RCMS Customer Survey Results for FPS and NAC:

Total number of survey responses 23 (out of 222 sent out - 10% respon		
Startest Couractions	MESOURSE	
Familiarity with RCMS	4	
Members of ACC	3	
FMC is committed to Responsible Care	21/23 agree or strongly agree; 2 N/A	
FMC has been proactive in Responsible Care efforts	21/23 agree or strongly agree; 2 N/A	
FMC is committed to resolving problems with handling and disposal of chemicals	22/23 agree or strongly agree; 1 N/A	
Confidence in FMC's ability to provide exact chemical information in a timely manner	22/23 agree or strongly agree; 1 slightly disagree	
Have an effective means of communicating with FMC on safe transport, handling and use of their chemicals	21/23 agree or strongly agree; 1 disagree; 1 N/A	
FMC offers training/education on safe transport, handling, use and disposal of their chemicals	17 agree or strongly agree; 3 disagree; 3 N/A	

There are two worksheets included in the spreadsheet - one with all the data and one with just the two questions and responses on:

What additional steps could FMC take the help educate and inform you? What other suggestions/comments do you have?

MINUTES OF MEETINGS WITH GOVERNMENT AND NON-GOVERNMENT ORGANIZATIONS

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FMC MEETING WITH CONSERVATIONISTS CONCERNED WITH WILDLIFE POISONING USING FURADAN – APRIL 15, 2009

WildlifeDirect / FMC Meeting with Conservationists Concerned with Wildlife Poisoning using Furadan

WildlifeDirect offices, Nairobi, Kenya April 15, 2009 10.30 am

Present:

— Wetlands Int'l, Bird life Int'l, National Museums of Kenya
— National Museums of Kenya, Member of bird committee
— Living with Lions, Laikipia
— WLD, Communications
— WLD, Partnerships
— National Museums of Kenya, Member of bird committee
— FMC, commercial manager for East Africa and India
— Kerr and Downey Safaris
— WLD, Executive Director
— FMC, director of global regulatory affairs and compliance
— FMC, global product stewardship manager for agricultural products
— WWF, Environmental Hazards

welcomed the visitors and after introductions the agenda was agreed upon:

- Description of Furadan withdrawal and buy back program
- Field reports of wildlife poisonings
- General discussion
- Way forward

FMC expressed the following points at the beginning of the meeting:

- Thanked everyone for attending the meeting, particularly on such short notice
- Desire for this meeting to be the first stage of an on-going dialog and exchange of views where we can learn from one another
- Asked for the discussions to remain private to allow for full and honest exchange of views
- Listed other stakeholders they would be meeting with during the week
- Goals for the meeting:
 - 1. Understand the existing data that ties Furadan specifically to wildlife poisonings
 - 2. Discuss strategies to address the situation over the long term
 - 3. Establish a clear and consistent process for information sharing and reporting on any future poisoning incidents

MINUTES OF THE MEETING

Furadan Withdrawal and Buy-Back Program

• FMC noted that after the initial reports of lion poisoning in the Maasai Mara, no product was sent to Kenya since last May and that the buy-back of Furadan had started recently. Withdrawal and buy back is taking place in Kenya. No more product is being distributed to Tanzania and Uganda. After some time an assessment will be done in each country individually to decide on whether it can be re-introduced while ensuring that it will be used responsibly. Although Furadan buy back is underway, WLD reported that Furadan is still available in numerous Agrovets across the country as of this morning. Paula agreed to send Linda a list of all the Agrovets visited/phoned with information on where product was still available so it can be purchased by Juanco. Committed to following up with Juanco.

Field Reports of Wildlife Poisonings

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- FMC expressed concern about the potential impact of Furadan on lion populations in Kenya.
 Conservationists warned that the availability of Furadan is tipping the balance against lions, a species that is rapidly declining because poisoning is the biggest instant threat to them. One poisoned carcass can have devastating local impact. Removing the product could buy time. FMC explained that the action to withdraw Furadan was based on the judgment that Furadan has the potential to cause major damage to lions. The decision was to pull back the supply and sort through the problem.
- FMC reviewed their independent investigation of the Maasai Mara incident involving hippos and lions after PCPB had conducted its investigation. They noted that the incident in Mara was when they were first aware that Furadan was being closely linked to lion poisoning. They provided a detailed explanation of what was found and explained how they concluded that the weight of evidence did not support a connection between Furadan and the incident of secondary poisoning. As part of their investigation, they evaluated the methods used in the Government Chemist Lab and the KEPHIS lab and highlighted that the latter used a superior method for identification and quantification. They made no judgment about the Government Chemist Lab in general, but noted that in the specific case of the Furadan incident, the method was unreliable.
- Conservationists noted that stringent methods of analysis may not be met in all incidents of poisoning using Furadan, but that other anecdotal information should be considered, such as interviews with those lacing carcasses who admit to using Furadan. It was shared that in some areas Furadan is stocked purely for stray dogs and problem animal control. Pastoralists are the main users and Furadan is usually decanted into plastic bags and is clearly recognizable. It was confirmed that all lion deaths are reported to KWS and that although the overall Laikipia population is stable now, this is due to success in the central private ranches where populations are increasing versus major declines in the surrounding community areas. Elsewhere lion populations are declining significantly, particularly in Amboseli and Mara areas.

• FMC inquired about two statistics quoted in the 60 Minutes segment. 1 – What has caused the decrease in lion population from 200,000 to 30,000? Conservationists stated that it was from increased human population taking over the lions' habitats, hunting, spearing, and poisoning. 2 – What are the 70 lion poisonings due to? Conservationists stated that they were not all necessarily due to Furadan.

Birds and fish:

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Conservationists discussed incidents of Furadan being used to kill birds and fish so they can
be used for human consumption. FMC noted that human poisoning was unlikely through
subcutaneous contamination, but possible to those handling the product who are at risk of
ingestion. There was discussion on how surveys should be conducted to determine risk to
people who are exposed to repetitive exposure through eating contaminated birds and fish.

General Discussion

- Threat of alternatives being introduced in absence of Furadan: During discussion it was suggested that Furadan is such a well known brand it could be re-packaged and counterfeited. It was also confirmed that the Furadan patent has expired and that the product can be manufactured by generic producers. Thus, generic Furadan could appear in the Kenya market.
- Furadan packaging: In the 1990's FMC had agreed to sell Furadan only in packages >5 kg. Ultimately, this was not implemented due to industry product stewardship concerns that the bigger packages would be opened and the product re-packaged in smaller unlabelled packets. When asked why FMC does not indicate on the label that misuse could lead to prosecution, FMC indicated that it must follow national rules on labeling.
- Risks of using Furadan in a developing country: Concern was raised regarding ability for users to follow proper use and responsibility in terms of stewardship of the product given the scale of corruption and the illiteracy. It was noted that people use the product without gloves or following other precautions on the label. FMC reviewed the evolution of pesticide classes (organochlorines, organophosphates, carbamates, pyrethroids) and explained the role Furadan has had in feeding the world and the way the product had been safened for the user through formulation as a granule. For example, the acute dermal toxicity of Furadan 5G is greater than 10,000 mg/kg. FMC re-affirmed that despite its safer properties growers should always be wearing gloves and protective equipment.
- Incident reporting: Concern was raised about lack of trust between NGO's and some government agencies on reporting incidents. WLD feels that little credibility has been given to the reports by the government. All incident reports were shared with the PCPB and KWS at the April 2008 meeting and since then reports have been made available on the WLD website. FMC requested copies of the incident reports documenting the poisonings since they have not received any to date. FMC also stated that there is a process in place for handling wildlife poisonings which involves submitting official reports to PCPB. They stressed that this procedure needs to be followed so the problem can be handled effectively. FMC confirmed that the KEPHIS lab is a world class lab that can test for Furadan using high performance liquid and gas chromatography techniques which are superior to thin layer chromatography. Ad a comment that Darcy Ogada indicated she had new evidence of

carbofuran analysis based on gas chromatography analysis by a chemistry student, but that she would have to seek approval from the 4 individual before sharing the information with us.

- Status of Furadan globally: FMC reviewed the registration status of Furadan in the USA and the EU. Carbofuran was first registered in the United States in 1969 and is available in granular and liquid formulations. In 1991, the USEPA and FMC agreed to phase down and limit the use of granular formulations to minimize risk to birds. Growers began to use the liquid formulation in place of granulars. There have been no confirmed reports of bird mortality from labeled uses of Furadan since 2000. The US EPA is currently evaluating Furadan's re-registration eligibility and the product's benefits. In March 2009 EPA approved FMC's voluntarily cancellation of most Furadan uses. In July 2007 the European Commission issued its decision not to include carbofuran on Annex I listing. Concerns had been identified late in the review process and consequently certain risk assessments could not be concluded. FMC had submitted the additional data two years before the decision, but these were not reviewed because they were submitted after the legal deadline. The Commission stated that the decision did not prejudice the submission of a new application for registration which FMC did in April 2008. The new application is under review.
- Options for Kenya: The likely impact of the Furadan withdrawal from Kenya was discussed. FMC raised concerns that farmers who use the product correctly would be penalized by the withdrawal of Furadan and that poisoning of wildlife may not decline unless underlying causes are addressed. Product stewardship ideas were explored that could ensure that the product could be used responsibly if it were ever to be reintroduced into the market: licensing users, having them sign for products, requiring evidence of growers being trained on proper use, monitoring the distribution channel, and limiting the number of distributors. Ideas for developing an unpalatable Furadan product were discussed as well. However, FMC committed that the product would never be re-introduced into the market unless they were assured that it would only be used responsibly and not to poison wildlife.

Way Forward

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- Monitoring: In terms of monitoring and reporting poisoning incidents it was emphasized that Furadan is not the only poison available, although it was noted that it is currently the cheapest and most widely product available, even in areas without agriculture. In gathering evidence, FMC suggested looking for external signs including blue or purple granules, presence of blue or purple color, or consistent sized granules with no color (in case in color has leached out). Granules should be looked for in stomach, mouth, and on the ground around the carcass. If no evidence of Furadan is found, then look for other causes. Mocap, a granular organophosphate product, looks similar and has comparable toxicity. FMC noted that the problem with the wildlife conflict is much bigger than just Furadan due to cultural, legal, and enforcement issues as well as the improper use of the product.
- Actions for the Poison Task Force: FMC suggested that the Government should be the focal point for the task force since there is a process in place for handling wildlife poisonings. It was noted that, to date, the government had taken no action despite the reports and public concerns and that they may not share data equally. The following was agreed to: 1) fact finding, monitoring, and networking will continue, 2) samples will be taken for analysis, 3) all cases of poisoning will be reported to the government, 4) the government will be invited to future Task Force meetings, and 5) the Task Force will monitor the availability of Furadan in Agrovet shops and share this information with Juanco and FMC. It was noted that a number

of bird and fish samples suspected to have been poisoned using Furadan remained to be analysed.

Action Items

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- 1. Develop a template for gathering necessary information when poisoned wildlife are found FMC to provide first draft
- 2. Collect information at one location and submit official reports to PCPB on a quarterly basis with a copy to FMC
- 3. Send data on Furadan availability in Agrovet stores to Juanco and
- 4. Send previous reports on misuse to and and
- 5. Confirm that seport can be shared with send it to her
- 6. Consider having another tripartite meeting in near future to bring together all the partners (discuss with all stakeholders)
- 7. Information about the meeting
- 8. Circulate minutes for review

In closing, the need for funding to continue activities of the Task Force was discussed and it was agreed that funding needs should be discussed at a future meeting.

The meeting was closed with thanks at 2 pm.

FMC MEETING ON WILDLIFE POISONING USING FURADAN APRIL 16, 2009

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Maasailand Preservation Trust / Living with Lions / FMC Meeting on Wildlife Poisoning using Furadan

April 16, 2009 12:00 pm

Present:

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Maasailand Preservation Trust
 Maasailand Preservation Trust
 Living with Lions, Maasailand
 Living with Lions, Maasailand
 Living with Lions, Maasailand
 FMC, Commercial manager for East Africa and India
 FMC, Director of global regulatory affairs and compliance
 FMC, Global product stewardship manager for agricultural products

welcomed the visitors and after introductions the agenda was agreed upon:

- Description of Furadan withdrawal and buy-back program
- Field reports of wildlife poisonings
- General discussion
- Path forward

FMC expressed the following points at the beginning of the meeting:

- Thanked everyone for attending the meeting, particularly on such short notice
- Desire for this meeting to be the first stage of an on-going dialog and exchange of views where we can learn from one another
- Asked for the discussions to remain private to allow for full and honest exchange of views
- Listed other stakeholders they would be meeting with during the week
- Goals for the meeting:
 - 1. Understand the existing data that ties Furadan specifically to wildlife poisonings
 - 2. Discuss strategies to address the situation over the long term
 - 3. Establish a clear and consistent process for information sharing and reporting on any future poisoning incidents

MINUTES OF THE MEETING

Furadan Withdrawal and Buy-Back Program

 FMC noted that after the initial reports of lion poisoning in the Maasai Mara, no product was sent to Kenya since last May and that the buy-back of Furadan had started recently. Withdrawal and buy back is taking place in Kenya. No more product is being distributed to Tanzania and Uganda. After some time an assessment will be done in each country individually to decide on whether it can be reintroduced while ensuring that it will be used responsibly. Although Furadan buy back is underway, both and reported that Furadan is still available in numerous Agrovets in Chula Hills. After discussion, it was agreed that and would buy-back any Furadan they find, inventory it, and store it in a secure location. They will notify FMC of the product they have and FMC will request that Juanco pick up the product, reimburse and for any and transport the product to their secure warehouse for storage.

Field Reports of Wildlife Poisonings

Lions:

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- FMC expressed concern about the potential impact of Furadan on lion populations in Kenya. FMC
 explained that the action to withdraw Furadan was based on the judgment that Furadan has the
 potential to cause major damage to lions. The decision was to pull back the supply and sort through
 the problem.
- FMC reviewed their independent investigation of the Maasai Mara incident involving hippos and lions after PCPB had conducted its investigation. They noted that the incident in Mara was when they were first aware that Furadan was being closely linked to lion poisoning. They provided a detailed explanation of what was found and explained how they concluded that the weight of evidence did not support a connection between Furadan and the incident of secondary poisoning. As part of their investigation, they evaluated the methods used in the Government Chemist Lab and the KEPHIS lab and highlighted that the latter used a superior method for identification and quantification. They made no judgment about the Government Chemist Lab in general, but noted that in the specific case of the Furadan incident, the method was unreliable.
- example ported that there have been no lion killings in the past four years on his ranch. He feels that much of this is attributable to the Lion Guardian program. However, outside of his ranch lion poisoning is still a big problem.

Crocodiles:

- Treported that in Tanzania Furadan is linked to crocodile poaching. Poachers shoot and kill hippos and then lace them with Furadan. The crocodiles feed on the dead hippos and die. The advantage for the poachers is that the crocodile skins are intact and they can sell them for large sums of money.
 - had pictures of blue granules on the hippos and around the crocodiles' mouths. This was the first real hard evidence linking Furadan to wildlife poisoning FMC has seen. Everything else to date has been anecdotal.

Hyenas:

• stated that she had originally been studying hyenas in Laikipia for her Ph.D. thesis. She reported that due to Furadan poisoning, the hyena population she was studying all died and that is why she is now studying behavior of predators in relation to livestock depredation, and also the population effects from poisoning.

General Discussion

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- Incident reporting: FMC requested copies of the incident reports documenting the poisonings since they have not received any to date. FMC also stated that there is a process in place for handling wildlife poisonings which involves submitting official reports to PCPB. asked who PCPB was. FMC described who they are and their function. FMC stressed the importance of submitting the incident reports to PCPB so the problems can be handled effectively. The reviewed the protocol they use when they find animal carcasses. It was very comprehensive.
- Analytical laboratories: Trelayed that LWL has not found an analytical lab that provides reliable results. They have tried several in Nairobi and found the equipment is antiquated, the techniques are not appropriate, and their samples have gotten mixed up. FMC recommended they try the KEPHIS lab which is a world class lab that can test for Furadan using high performance liquid and gas chromatography techniques which are superior to thin layer chromatography.
- Status of Furadan globally: FMC reviewed the registration status of Furadan in the USA and the EU. Carbofuran was first registered in the United States in 1969 and is available in granular and liquid formulations. In 1991, the USEPA and FMC agreed to phase down and limit the use of granular formulations to minimize risk to birds. Growers began to use the liquid formulation in place of granulars. There have been no confirmed reports of bird mortality from labeled uses of Furadan since 2000. The US EPA is currently evaluating Furadan's re-registration eligibility and the product's benefits. In March 2009 EPA approved FMC's voluntarily cancellation of most Furadan uses. In July 2007 the European Commission issued its decision not to include carbofuran on Annex I listing. Concerns had been identified late in the review process and consequently certain risk assessments could not be concluded. FMC had submitted the additional data two years before the decision, but these were not reviewed because they were submitted after the legal deadline. The Commission stated that the decision did not prejudice the submission of a new application for registration which FMC did in April 2008. The new application is under review.
- Options for Kenya: The likely impact of the Furadan withdrawal from Kenya was discussed. FMC raised concerns that farmers who use the product correctly would be penalized by the withdrawal of Furadan and that poisoning of wildlife may not decline unless underlying causes are addressed. Product stewardship ideas were explored that could ensure that the product could be used responsibly if it were ever to be reintroduced into the market: licensing users, having them sign for products, requiring evidence of growers being trained on proper use, monitoring the distribution channel, and limiting the number of distributors. Ideas for developing an unpalatable Furadan product were discussed as well. However, FMC committed that the product would never be re-introduced into the market unless they were assured that it would only be used responsibly and not to poison wildlife.

Path Forward

• Monitoring: In terms of monitoring and reporting poisoning incidents it was emphasized that Furadan is not the only poison available, although it was noted that it is currently the cheapest and most widely product available, even in areas without agriculture. In gathering evidence, FMC suggested looking for external signs including blue or purple granules, presence of blue or purple color, or consistent sized granules with no color (in case in color has leached out). Granules should be looked for in stomach, mouth, and on the ground around the carcass. If no evidence of Furadan is

found, then look for other causes. Mocap, a granular organophosphate product, looks similar. FMC noted that the problem with the wildlife conflict is much bigger than just Furadan due to cultural, legal, and enforcement issues as well as the improper use of the product.

Action Items

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- 1. See added to it.
- 2. LWL will submit official incident reports to PCPB with a copy to FMC.
- 3. and let FMC know what they have so Juanco can come pick it up.

FMC MEETING ON WILDLIFE POISONING USING FURADAN APRIL 17, 2009

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Kenya Wildlife Service / FMC Meeting on Wildlife Poisoning using Furadan

Kenya Wildlife Service (KWS) offices Nairobi, Kenya April 17, 2009

Present:

- KWS, Biodiversity, Research, and Monitoring
- FMC, Commercial manager for East Africa and India
- FMC, Director of global regulatory affairs and compliance
- FMC, Global product stewardship manager for agricultural products

welcomed the visitors and after introductions the agenda was agreed upon:

- Description of Furadan withdrawal and buy-back program
- Slide presentation by KWS on wildlife poisonings
- General discussion
- Path forward

FMC expressed the following points at the beginning of the meeting:

- Thanked everyone for attending the meeting, particularly on such short notice
- Desire for this meeting to be the first stage of an on-going dialog and exchange of views where we can learn from one another
- Listed other stakeholders they had met with during the week
- Goals for the meeting:
 - 1. Understand the existing data that ties Furadan specifically to wildlife poisonings
 - 2. Discuss strategies to address the situation over the long term
 - 3. Establish a clear and consistent process for information sharing and reporting on any future poisoning incidents

MINUTES OF THE MEETING

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Furadan Withdrawal and Buy-Back Program

• FMC noted that after the initial reports of lion poisoning in the Maasai Mara, no product was sent to Kenya since last May and that the buy-back of Furadan had started recently. Withdrawal and buy back is taking place in Kenya. No more product is being distributed to Tanzania and Uganda. After some time an assessment will be done in each country individually to decide on whether it can be reintroduced while ensuring that it will be used responsibly.

Slide Presentation - Summary Points (Charles Musyoki)

- 88% of the Agrovet stores in Kenya carried Furadan. A teaspoon of Furadan can be purchased the store owner will open a container and wrap the teaspoon of Furadan in newspaper for transport.
- reported that he went to an Agrovet store and asked for a product to kill stray dogs and they gave him Furadan.
- Reviewed amounts of Furadan that would potentially be required to kill lions and hippos on an acute basis. KWS cited amounts that were considerably lower than what FMC estimated. These differences were determined to be due to KWS using: 1- lower animal weights and 2 technical product vs. formulated product acute oral tox values.
- Incidents reviewed:

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- April 2004 (Athi River Ranch): 187 vultures died after feeding on dead cow laced with Furadan. Pastoralist confessed to using Furadan. No blue granules were observed. Five spotted hyenas and two jackals also died.
- o April 2005 (location?): 30 vultures died after feeding on a dead cow laced with Furadan
- o May 2007 (northern Kenya not an agricultural area): 5 lions died. Blue granules were observed and confession by pastoralist to have used Furadan
- o June 2007 (northern Kenya not an agricultural area): 2 lions and 15 vultures died. Blue granules were observed and confession by pastoralist to have used Furadan
- O August 2007 (northern Kenya not an agricultural area): 4 lions and 2 hyenas died. Blue granules were observed and confession by pastoralist to have used Furadan
- October 2007 (Laikipia): 9 hyenas poisoned allegedly with Furadan. Ph.D. student had to abandon here study.
- o December 2007 (Laikipia): 8 lions poisoned allegedly with Furadan.
- 100 lions lost per year due to poisoning from 2001 2008; 75 of them from Furadan (equates to < 10 per year)
- FMC requested copies of the slide presentation, animal and bird census information, field protocol, and incident reports. KWS outlined the proper procedure for requesting information.

General Discussion

- Maasai Mara incident: FMC reviewed their independent investigation of the Maasai Mara incident
 involving hippos and lions after PCPB had conducted its investigation. They noted that the incident
 in Mara was when they were first aware that Furadan was being closely linked to lion poisoning.
 They provided a detailed explanation of what was found and explained how they concluded that the

weight of evidence did not support a connection between Furadan and the incident of secondary poisoning. As part of their investigation, they evaluated the methods used in the Government Chemist Lab and the KEPHIS lab and highlighted that the latter used a superior method for identification and quantification. They made no judgment about the Government Chemist Lab in general, but noted that in the specific case of the Furadan incident, the method was unreliable.

- Incident reporting: FMC requested copies of the incident reports documenting the poisonings since they have not received any to date. FMC also stated that there is a process in place for handling wildlife poisonings which involves submitting official reports to PCPB. Stated that he was told that KEPHIS re-routes samples for analysis to the Government Lab. FMC and KWS agreed that there is a need for reliable analytical techniques to be used.
- Status of Furadan globally: FMC reviewed the registration status of Furadan in the USA and the EU. Carbofuran was first registered in the United States in 1969 and is available in granular and liquid formulations. In 1991, the USEPA and FMC agreed to phase down and limit the use of granular formulations to minimize risk to birds. Growers began to use the liquid formulation in place of granulars. There have been no confirmed reports of bird mortality from labeled uses of Furadan since 2000. The US EPA is currently evaluating Furadan's re-registration eligibility and the product's benefits. In March 2009 EPA approved FMC's voluntarily cancellation of most Furadan uses. In July 2007 the European Commission issued its decision not to include carbofuran on Annex I listing. Concerns had been identified late in the review process and consequently certain risk assessments could not be concluded. FMC had submitted the additional data two years before the decision, but these were not reviewed because they were submitted after the legal deadline. The Commission stated that the decision did not prejudice the submission of a new application for registration which FMC did in April 2008. The new application is under review.
- Options for Kenya: The likely impact of the Furadan withdrawal from Kenya was discussed. FMC raised concerns that farmers who use the product correctly would be penalized by the withdrawal of Furadan and that poisoning of wildlife may not decline unless underlying causes are addressed. Product stewardship ideas were explored that could ensure that the product could be used responsibly if it were ever to be reintroduced into the market: licensing users, having them sign for products, requiring evidence of growers being trained on proper use, monitoring the distribution channel, and limiting the number of distributors. Ideas for developing an unpalatable Furadan product were discussed as well. However, FMC committed that the product would never be re-introduced into the market unless they were assured that it would only be used responsibly and not to poison wildlife.

Path Forward

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- Monitoring: In terms of monitoring and reporting poisoning incidents it was emphasized that Furadan is not the only poison available, although it was noted that it is currently the cheapest and most widely product available, even in areas without agriculture. In gathering evidence, FMC suggested looking for external signs including blue or purple granules, presence of blue or purple color, or consistent sized granules with no color (in case in color has leached out). If animals are still alive, take careful notes about symptoms. Take pictures. Granules should be looked for in stomach, mouth, and on the ground around the carcass. If no evidence of Furadan is found, then look for other causes. Mocap, a granular organophosphate product, looks similar. FMC noted that the problem with the wildlife conflict is much bigger than just Furadan due to cultural, legal, and enforcement issues as well as the improper use of the product.
- KWS noted the following needs:

- o Aggressive public awareness program on Furadan safe use
- o Education for the Agrovet shops owners/proprietors on agricultural products
- o Adding a statement to the Furadan label regarding illegal use
- o Interministerial task force meeting including Minister of Agriculture, PCPB, AAK, NGO's and KWS to address human wildlife conflict as a whole

Action Items

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- 1. Submit reports of wildlife poisoning to PCPB with a copy of FMC
- 2. Find a laboratory that has reliable technical capabilities and equipment
- 3. Work to initiate the interministerial task force; write to the Minister of Wildlife requesting assistance with this
- 4. Submit official requests to KWS director for for solded presentation, animal census information, incident reports, and toxicology protocol used when poisoned animals are found

COMMUNICATIONS FROM THE COMPANY TO KENYA WILDLIFE SERVICE

#13807464 v1

From:

Sent:

Tuesday, May 12, 2009 6:18 PM

To: Cc:

Cc: Subject:

RE: Furadan and Wildlife - Request for information

Dear Dr. Kipngetich,

I hope this finds you well. I wanted to check to see if you had any questions about my request for information outlined below.

Also, could you please confirm that you received my email and when I may expect to receive the information? The information will be most helpful to me in further understanding the issues.

Thank you for your help in this matter.

With regard,

Linda

Linda W. Froelich Global Product Stewardship Manager FMC Corporation 1735 Market Street Philadelphia, Pennsylvania USA 215-299-6183 (office) 267-250-6328 (mobile)

From: Linda Froelich

Sent: Friday, April 24, 2009 2:21 PM

To: 'kipngetich@

Cc: R

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Subject: Furadan and Wildlife - Request for information

Dear Dr. Kipngetich,

Allow me to introduce myself. My name is Linda Froelich and I am the Global Product Stewardship Manager for FMC's agricultural products business. As you know, our product Furadan has been implicated in lion poisonings in Kenya. My colleagues and I were all shocked to learn the extent to which lion poisonings have been occurring in Kenya and it is very troubling that our Furadan product is being linked to these tragic events. We have been disturbed by this issue since it was first reported to us last year that two lions had been poisoned. That is why we took immediate action to halt further sale of the product to our distributor in Kenya. It was not until we watched the US news program "60 Minutes" produced CBS News shown on US broadcast television on March 29, that we learned the full magnitude of this problem.

Consequently, we have undertaken very aggressive steps to get all remaining Furadan product off the shelves in Kenya as a precautionary measure.

Last week a team of three people from FMC (our regional manager from India, our director of global regulatory affairs, and myself) came to Kenya to monitor the progress and effectiveness of our Furadan Buy-Back Program, learn about the firsthand experiences of conservationist groups and explore ideas for working together, and to understand more about the human-wildlife conflict and current programs from government officials like KWS. On Friday of last week we had a very productive meeting with all members of your Biodiversity, Research, and Monitoring team to discuss the situation.

FMC is committed to ensuring that wildlife is not poisoned by our product. To that end we would like to work together with KWS on this issue. To help us in this endeavor we are requesting the information listed below so we can fully understand what has happened and to determine the best course of action going forward. Mr. indicated to us that the proper procedure was to make an official request to you.

- 1. slide presentation to FMC on wildlife poisoning (April 17, 2009)
- 2. All wildlife poisoning incident reports involving Furadan including information on whether they were intentional or accidental and who may have caused the incident
- 3. The toxicological protocol that is used when poisoned wildlife are found (so we can add specific information to help determine the cause, i.e. look specifically for blue granules or blue color, the symptoms of Furadan poisoning to look for
- 4. Census information on total numbers of animals and birds that have been affected over the past 10 years

Please let me know if you have any questions about our requests and when we might expect to receive the information. I look forward to hearing from you and working with your team.

Best regards,

Linda

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Linda W. Froelich Global Product Stewardship Manager FMC Corporation 1735 Market Street Philadelphia, Pennsylvania USA

1996 MINUTES

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Til (8381) 20155/6/7/8 or 9 Tiley: 57092 "Worlfing" Faccionità (0361)- (21978 or 20045

10 April 1996

Cop to K. Ninder

Chepkembe

2.0. Box 223

Kericho

Kerwa

The Managing Director Hoechst East Africa Ltd P.O. Box 30467 NAIROBI

FMC Corporation P.O. Box 46179 HAIROBI

> The Managing Director FMC Corporation 2000 Market Street Philadelphia 19103

23 APR 1996

Dear Sirs

FURADAM 5G

Furadan 54 as you rightly warn on the directions for use is highly toxic to birds, game and livestock. Unfortunately this knowledge is being exploited by farmers who are baiting with Furadan where wild fowl feed and are killing large numbers.

A.FINDER, Fillion .

I have found areas where such slaughter has taken place, usually only marked by the residues of the bait and feathers. Other residents report that in one 700 acre area of rice between 100 and 150 birds are being poisoned daily and subsequently sold. Local wild fowl populations cannot support such devastating attrition and some species could be wiped out if this practice continues.

It seems unnacessary at the present time to use such an environmentally unfriendly chemical, and I urge you to incorporate an unpalatable flavour into Furadan which makes it undesirable to birds, game and livestock. I look forward to receiving your reaction to this proposal.

Yours faithfully

G N PATBESON

Copies to:

The Director, Kenya Wildlife Services, P.O. Box 40241, WAIRORI

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The Director East African Wildlife Society P.O. Box 20110 NAIROBI

Mr Mark Stanley Price African Wildlife Foundation P.O. Box 48177 WAIRORI

Mr J P d'Huart World Wide Fund for Nature P.O. Box 62440 NAIROBI

The Managing Director Posticide Chemicals Association of Kenya P.O. Box 60723 NAIROBI MINUTES OF MEETING HELD ON 24 JULY 1996 AT MT KENYA SAFARI CLUB

SUBJECT: FURADAN AND ENVIRONMENT

7 AUG 1996

PRESENT: See attached list of attendants

PROCEEDING

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This meeting deliberated on the following issues:

- The case of Furadan causing mortality to ducks especially in the rice growing schemes in Ahero and Mwea resulting from:
 - i) Ducks feeding on the product directly in the field and/or from a bait.
 - ii) Ducks feeding on rice treated with Furadan at 25 days after transplanting.
- Possible secondary poisoning from eating ducks killed by Furadan.
- 3 Birds dying after feeding on wheat/barley seeds dressed with Furadan.
- Resultant decline on duck population generally visaviz effects on biodiversity. An indication of 100 ducks being killed with Furadan per week.

REACTION ON ABOVE ISSUES

1 Case of baiting ducks:

This was noted to be an illegal or criminal act which could be handled by kws and PCPs who are empowered to prosecute such cases.

2 Ducks dying due to feeding on rice treated with Furndam:

This is not possible from a technical point of view. There are no resours of the product in the crop at harvest to cause any toxicity.

3 Secondary Poisoning to humans:

This again was noted that it is not possible. Furndan is metabolized in the animal body. The metabolites are of no toxidological significance implying a no chance of secondary poisoning.

Birds dying after feeding on wheat/barley seeds treated/dressed with Furadan:

such exposed seeds which are fed on by birds are found at turning points of seed planters.

These planters could be modified to ensure that the seeds are completely buried in the soil even at such turning points. It was noted that Furadan is such a useful product for the purpose of pest management in cereals.

5 Decline on biodiversity:

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Indication on number of ducks killed was based on hearsay. While it is difficult to dispute the figures only an objective study/survey can verify this indication.

RECOMMENDATIONS/PROPOSALS TO AVERT SIMILAR MIS-USE OF PRODUCT IN FUTURE

From the on-set it was noted that Furadan is currently the safest of the soil applied insecticide/nematicide from the applicators point of view. It was also noted to be very effective for the purpose of pest management in a wide spectrum of pest and crop sectors.

For these reasons the meeting resolved that the push for a ban of the product due to reports of product mis-use was out of the question. Hence, the meeting made the following proposals aimed at gverting mis-use of Furadan:

- a) That FMC Research Laboratory look for an appropriate additive to the current formulation to make the product un-attractive and/or repellent to ducks and other birds. It was further agreed that this be accomplished in about 3 years from now. By the end of this period an implementation should be achieved or a report on that pursuit be availed.
- b) In the short term, the meeting resolved the following:
 - A strong campaign be undertaken to publicise/educate the local people on the dangers of killing birds using furadan. Print (postern) and radio media should be considered in this undertaking.

Responsibility

Safe Use Project, Distributors of Furadan and PMC

relative to environmental account use of Furadan.

Responsibility

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Distributor of Furadan (Agrevo) and FMC

- nb: It was noted that most of such information is already contained in the current label, <u>BUT</u> would look at possibility of adding more to emphasize on effects on birds.
- iii) NTB to hold seminars in Ahero and Mweater Rice Schemes to educate fermers and their staff on usage of Furadan and the legal implications of misuse. Safe Usa Project and PCPB would also participate in these forums.
 - iv) KWS in conjunction with the local administration (in Ahero and Mwea) undertake to immediately inform the public about the illegality of killing birds and more so with agricultural chemicals. KWS to immediately start being on the look out for people said to be baiting ducks with Furadan with a view of arresting and prosecuting them. Any arrest made should be publicized to deter future indulgence into the habit.

The sale of dead ducks in hotels should also be banned.

v) A committee to formulate and co-ordinate plans/programmes addressing all issues as indicated above was proposed. This to comprise of:

F M C AGREVO K W S P C P B N I B

The committee to convert the first meeting on 20 July 1996 at 10.00 AM in the office of Agreyo E A Ltd.

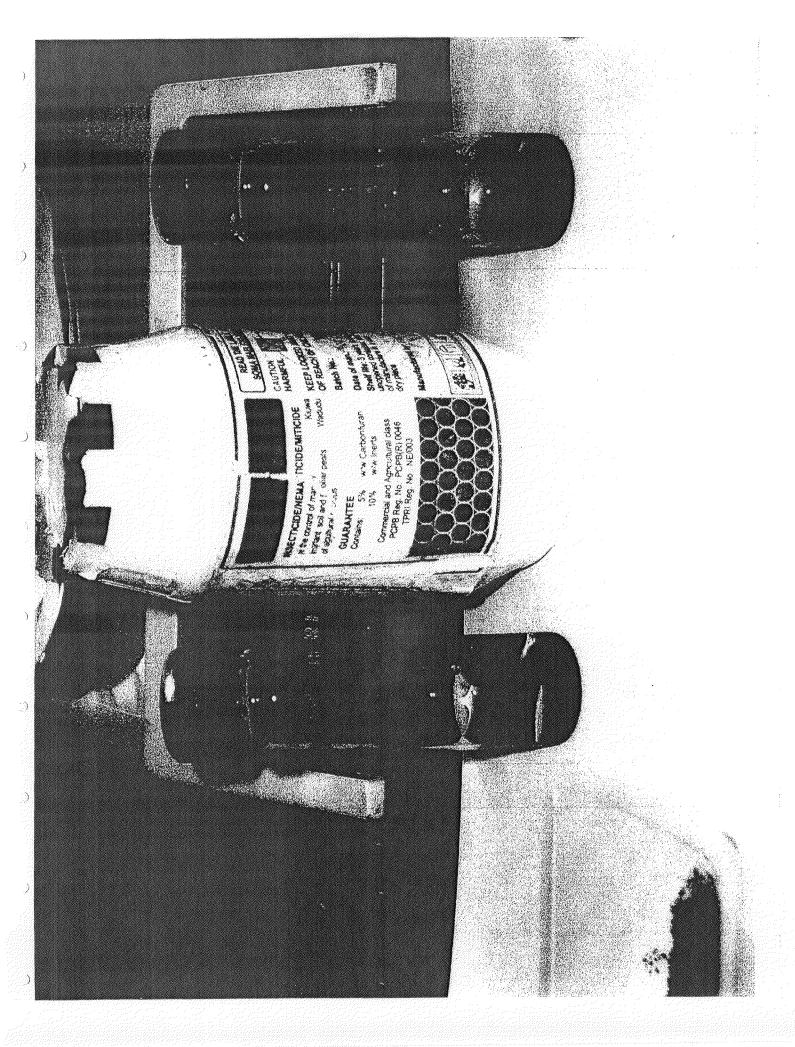
F M MIANO AGREVO EAST AFRICA LTD

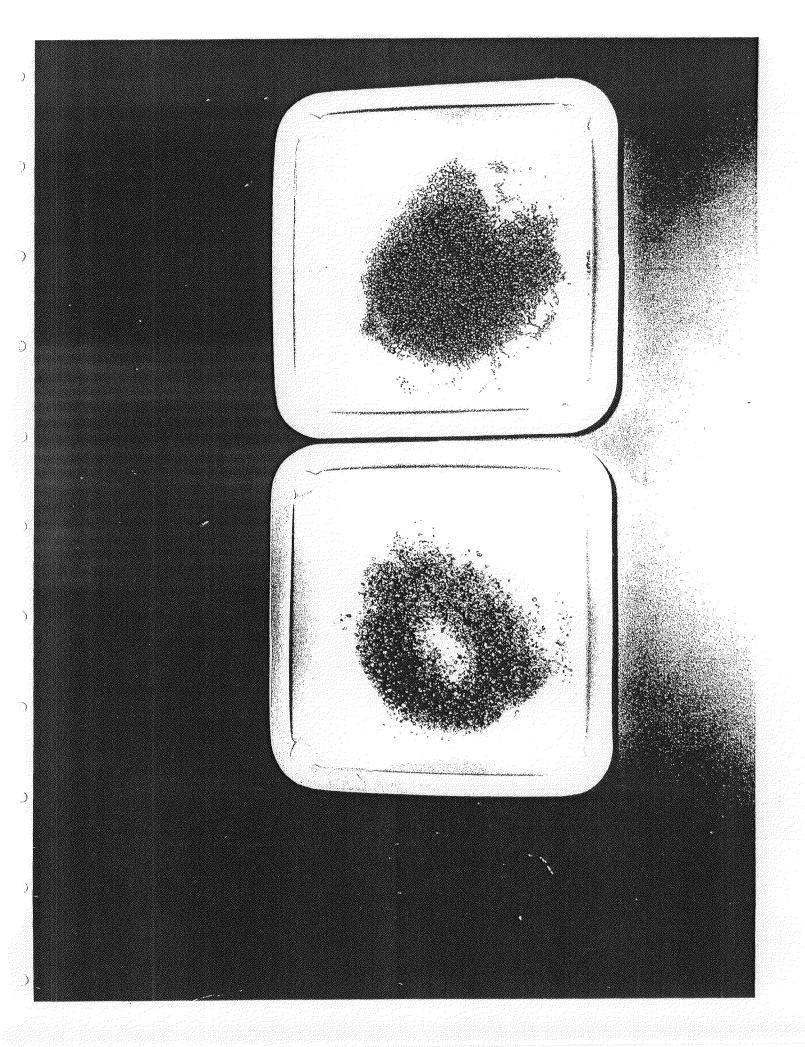
05/08/96

Sent: Saturday, January 22, 2011 3:26 PM To: Cc: Subject: FMC Meeting - January 20, 2011 Importance: High
Hello All, On Thursday January 20th, and I met with an and a number of chemists at the FMC Ewing lab. We had a productive meeting. The product in the sample bottle that collected was tested. Even though the label states it is Furadan 5G from FMC, the test results show the product in that particular bottle is not Furadan and no carbofuran was detected. The product in the bottle is unknown at this time. Further testing will be done to find out what it is and
the results will be reported to us. From the results we got so far, the best guess is that it is some type of insecticide. The toxicity is unknown at this time. It could be quite toxic. This opens up a whole new set of questions. We have to keep in mind this is only one bottle. In order to figure out what's going on, we need to gather additional samples and other information. We are in the process of discussing strategy, the way forward and the next steps. There are many possibilities. As plans and strategies unfold, we will keep you updated and ask for your input and assistance. This opens up a whole new set of questions. We are in the process of discussing strategy, the way forward and the next steps. There are many possibilities. As plans and strategies unfold, we will keep you updated and ask for your input and assistance. This opens up a whole new set of questions. As plans and strategies unfold, we will keep you updated and ask for your input and assistance. This opens up a whole new set of questions. As plans and strategies unfold, we will keep you updated and ask for your input and assistance. This opens up a whole new set of questions. As plans and strategies unfold, we will keep you updated and ask for your input and assistance. This opens up a whole new set of questions. As plans and strategies unfold, we will keep you updated and ask for your input and assistance. This opens up a whole new set of questions.
be readily available to do damage at some point in the future. Although we are sure we won't all agree on everything, our hope is we can all work together and keep the end goal in mind, to make positive changes to benefit the wildlife and people of Africa.

Kind regards,

[FMc Note: The author is a representative of Defenders of Wildlife.]





From: M@fmc.com]
Sent: Monday, January 24, 2011 9:30 PM
To: Cc: Subject: FW: Poisoned Lions

Dear All,

:)

Below is the email exchange between the bottom of the email string which I believe are forwarded from through through a conservationist who has been involved in an Amboselli Lion Rroject (see email message signed "R" to the lion carcass. In one of the pictures there are blue granules sprinkled on the lion carcass. When you enlarge the picture, the granules are of inconsistent size and are angular in shape similar to the Ugandan product we analyzed last week which was not carbofuran. I will communicate this to be sure she is aware.

In a response to the she suggests training the game scouts on how to safely collect samples of granules sprinkled on carcasses so the granules can be tested. I'll be very interested in his response to her suggestions. Prior to the and I meeting with a suggestion in August 2009 we had sent him a protocol outlining what to look for and what to do when coming upon a dead carcass suspected of being poisoned. He told us it was not useful to him because people would not respond if they could not answer all the questions in the protocol.

Next steps:

- 1. Put results of our analysis of the Ugandan product on FuradanFacts. Will keep information at a high level so the counterfeiters do not have the details of what we found.
- Contact the second point the exchange below and the timing for meeting with Defenders.

Regards,

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From:
Sent: Sunday, January 23, 2011 11:50 AM
To:
Cc:
Subject: Re: Poisoned Lions

- ,

Hello and all,

I can't answer for FMC's position, but at the meeting we had last Thursday, I heard nobody from FMC say that they believed there was no more Furadan in Africa. We did not discuss that point directly. I did question Linda about how the buy-back program was conducted and if there was some sort of business registration to work from in order for them to locate all of the stores to check for Furadan. She told me that Juanco went to the stores that they had distributed it to, for the buy-back.

I'd like to thank after for taking the personal risk of collecting the sample that was tested at our meeting. Everyone should keep in mind that was one sample, and now there are even more unanswered questions.

From this latest information you've sent, I think it would be exceedingly helpful if the community game scouts could be trained to safely collect samples of the granules sprinkled on any carcass as soon as they find it. Those granules could then be tested to find out if they are Furadan, or something else. We can give you guidance on how to collect the sample. Let us know if you need the

2/4/2011

necessary equipment such as vials, gloves, etc. Although the identity of the poison is insignificant to a dead lion or other wildlife, it will be important regarding the way forward, and to understand exactly what is going on and how to end this slaughter.

All of this information and effort is extremely important in order to continue working together in a meaningful, cooperative manner.

Thanks for all your input and efforts, EFMC Note: The author of the above e-mail is a representative of Defenders of Wildlife. 7 Kind regards, On Jan 23, 2011, at 3:45 AM

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I do note that copied here.

Is it the FMC position that there is no Furdan in East Africa any more?

Note this just in from the Kenyan anti poaching teams in Maasailand. I hope you enjoy the images.

All the best

Dear and

Here are some pics and storey of the Lion I told you about, killed accross the border in TZ,

and Tales....see the pic of what is obviously Furadan, feel free to use it as you wish,

Will update on any other details as they come out.

---- Original Message ---From:

Sent: Saturday, January 22, 2011 12:30 AM

Subject: Poisoned Lions

Poisoned lions

To: MPT < mailto:

It has been a very busy and bad week for MPT considering the death of 5 lions by poisoning from the Tanzanian farmers using Furadan. The first lioness was poisoned on 2nd of January 2011 after killing a cow inside a boma at Kitenden area on the Tanzanian side. We were notified about the death of the lioness by community game scouts from Tanzania working under AWF on 5th of January who found the carcass by luck when they were on daily patrol. We went up to the community game scout post and they gave us the GPs coordinates of where they saw the carcass and they also managed to take a few pictures. The pictures showed that the carcass was almost 3 days old and most of it had been eaten by hyenas and vultures. We abandon the search and decided to continue

from where we left the next day because it was already getting late. Using the GPs coordinates we were able to locate where the lioness died the next day. At the site we found only a few scattered bones, it was even hard to identify if it was indeed a lion. I'll send pictures that were taken by AWF game scout because they are more detailed than the ones I have. We decided to use an informer in order to get the full extent of the matter and he was able to give us the following details.

- The lion was poisoned by a man known as Samanya ole Samaki(owner of the cow killed by the lioness)
- • Four hyenas and a vulture died after eating the lioness carcass. GPS coordinates of the carcass **0308275 9688511**

On 19th of January we received another report from our informer that four lioness have died as a result of poisoning using Furadan. The lions were killed in retaliation for killing a cow which had a small calf belonging to the same guy, Samanya ole Samaki. We went the next day to look for the carcasses and we were joined by the zonal warden of TANAPA and a few rangers from Tanzania. We were able to find only one carcass of a male lion. All the canines had been removed, claws and a big part of the skin was also missing. We tried to convince the warden to burn the lion carcass to prevent the death of other animals that may feed on the carcass but he decline. It also appeared as if Furadan was sprinkled on the lion carcass probably targeting hyenas. The search resumed the next day but we didn't find anything so we abandon the search. On 21st we received another report that only one lion returned to feed on the carcass of the poisoned cow and not four as reported 2 days ago. We also heard that the 3 lions all females were spotted together lying under a tree and they looked okay. It also seemed like TANAPA will not take any action against the owner of the cow responsible for poisoning the 2 lions. There were also rumors circulating around that any person from Kenya entering Tanzania to follow up on the issue will be arrested or beaten up by the local community.

GPS coordinates of the poisoned Male lion - 0309137 9685792

GPS coordinates of the poisoned cow - 0308944 9685608

----- End of Forwarded Message

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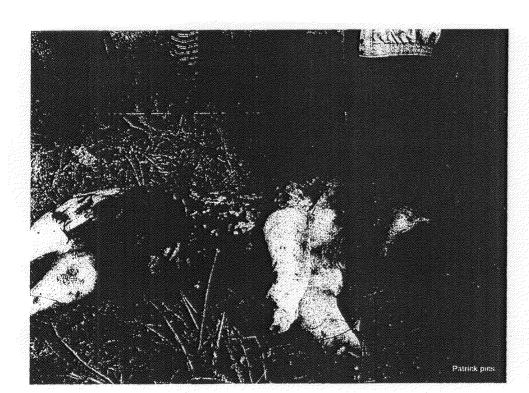
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2/4/2011

STRYCHNINE DOCUMENTS

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Pest Control Products Board

From: Laurence Frank [lgfrank@uclink.berkeley.edu]

Sent: Friday, June 06, 2003 7:56 AM

To: pcpboard@todays.co.ke

Cc: 'David Mead'; Laikipia Wildlife Forum; Kenya Wildlife Service - Laikipia Station

Subject: RE: Frederick Muchiri: Predator Poisoning in Laikipia

Dear Frederick,

Many thanks for the report you sent me last week. I am attaching my response for your consideration.

Best,

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Laurence Frank

Dr. Laurence Frank, Director Laikipia Predator Project Mpala Research Centre PO Box 555 Nanyuki

Tel: + (0) 176-32758 Fax: + (0) 176-32750

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13-Aug-03

LAIKIPIA PREDATOR PROJECT

MPALA RESEARCH CENTRE

UNIVERSITY OF CALIFORNIA, BERKELEY

Mpula Research Centre
P.O. Box 555
Nanyniki, Kenya
Phone: + (254) (0) 176 32758
Fax: + (254) (0) 176 32750

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Museum of Vertebrate Zoology 3101 Valley Life Sciences Building Berkeley, CA 94720-3160 USA Phone: + (510) 848-0418 Fax: + (510) 642-8321

Email: lgfrank@uclink.berkeley.edu

13 August, 2003

Frederic Muchiri
Pest Control Products Board
Richard Sikuku
Agrochemicals Association of Kenya

Dear Mr. Muchiri and Mr. Sikuku:

Many thanks for your report on your visits to Laikipia. You clearly gained a lot of information, which gave you a comprehensive view of the attitudes of pastoralists and farmers toward wildlife. You certainly appreciate the tensions between wildlife conservation and the human population. I am sure that your visit was very important in reminding people that poisoning of wildlife is illegal, and that this practice will now be less common.

I am sorry that I was not there to meet you, but I gather that you got good information from my assistant Steven Ekwanga. On your next visit, it would be worthwhile for you to talk to biologists and conservationists, as well as pastoralists and farmers. Unfortunately, there are a number of inaccuracies in what you were told, and in the future I hope you will be able to meet with wildlife experts.

It is almost certainly untrue that populations of predators have increased; although lions still occur on conservation properties, they have essentially disappeared elsewhere and populations of hyenas are also almost certainly declining due to persecution. In fact, it is not at all clear that predator attacks on livestock have actually increased, although people may feel that they have; I have worked on predators for over thirty years, and people have always felt that "there are more than there used to be", even though populations have been in steady decline. It is certain that all wildlife has disappeared in agricultural areas, and declined dramatically on pastoralist lands. Although predators avoid humans, there is less wild prey and even though they are few in number, hunger may force predators to attack domestic stock.

Although people may deny poisoning, it is indeed happening on an increasing scale. I would guess that only a few people are responsible for poisoning, but they can have a very serious effect on predator populations. We have seen cases where whole prides of lions have been poisoned in a single night; a group of five was poisoned in eastern Laikipia a few days ago. In Masailand whole lion populations have nearly disappeared in recent years.

It is entirely untrue that lions and leopards are "clever animals" who will not return to a kill. I have captured and released over one hundred lions and 25 leopards in Laikipia, every one of them when they returned to a kill. Similarly, when lions and leopards are shot it is virtually always when they return to last night's kill. It is, in fact, very easy to poison most predators precisely because they reliably return to kills. Only wild dogs and cheetahs are exceptional in that they do not return to kills and are probably rarely poisoned.

Wild dogs have indeed increased in the last few years, and the Samburu-Laikipia Wild Dog Project is monitoring them very closely, including all reports of attacks on domestic stock. In fact, they have found that wild dogs rarely attack stock, and the few attacks have occurred largely when the dogs wandered onto agricultural land where there is no wild prey. The Laikipia wild dogs spend only about 9% of their time on settlement lands, but over 70% of the livestock attacks have occurred there (however, as you noted, many of these attacks have killed multiple small stock, which is very painful for the owner). The report you received of wild dogs attacking bomas at night is probably false: these animals are diurnal and avoid people. I have never heard of an attack on a boma.

As you so rightly noted, in many cases livestock are not well protected from predators; good protection can dramatically decrease livestock losses, and peoples' intolerance of predators. The main purpose of my project is to help communities improve livestock husbandry to better protect stock from predators, reducing the need to kill these animals.

I have a few comments on some of your recommendations under section (g):

1. Wild dogs are among the rarest animals in the world (there are less than 5000 left in all of Africa) and are classified as Critically Endangered. They are therefore stringently protected and it would be highly illegal to kill them, under both Kenya and International law. The return of wild dogs to Laikipia is a major conservation achievement and a strong tourist attraction, especially on the communally owned areas where the dogs have settled. Again, in spite of what you were told, attacks by wild dogs on domestic animals have been uncommon on the group ranches and nonexistent on commercial ranches.

Virtually all hyena depredation occurs when hyenas force their way into poorly built bomas; we are working with the local people to improve boma construction. Hyenas come around settlements at night to scavenge on bone and other takataka lying around; we encourage people to dispose of animal wastes so that they do not attract hyenas in the first place.

- 2. People frequently state that problem predators should be translocated. In fact it is virtually impossible to translocate predators due to their territorial behavior, so this is not an option for predator management. In the case of persistent problem leopards, shooting is probably the only realistic option.
- 3. It is simply untrue that lions and leopards are not poisoned.
- 4. While people may deny using Furadan, the blue crystals obtained by Mr. Masere as being the pesticide used to poison predators were identified as Furadan.

As you note, Kenya abandoned compensation for wildlife – human conflict when corruption at all levels totally undermined the system. With a new commitment to honest government, it may well be time for Parliament to revisit the issue, as just compensation would dramatically improve tolerance of wildlife.

I think it is worth remembering that wildlife tourism is one of Kenya's primary foreign currency earners, and that wildlife is disappearing at an alarming rate all over Kenya EXCEPT in Laikipia. Due to conservation efforts, wildlife increasing and this area is rapidly becoming a major tourist destination. As you learned, the Masai communities are building their own lodges and attracting tourism, but they can only do that if they can offer wildlife, and especially predators: tourists want to see lions. The Kenya Wildlife Service, the Laikipia Wildlife Forum, and the Laikipia Predator Project are all trying to help these communities profit from tourism by helping them find ways to live with predators.

I want to thank you very much for the strong interest you have taken in predator conservation. Your visit will have strongly reminded people that poisoning is not acceptable, and I am sure that it will have a very positive effect. Now that we are aware of proper channels, we will make sure that you are promptly

informed of suspected incidents, and I hope to be able to meet with you should you make another visit to Laikipia.

Sincerely yours,

Laurence Frank, Ph.D.

Cc:

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KWS, Laikipia Office Laikipia Wildlife Forum David Mead

27th January 2005

PCPB/31/II/173

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Mpala Research Centre P.O. Box 555 NANYUKI

Tel: (0) - 62-32575, Fax: 32750

Attn: Lawrence Frank - e-mail lgfrank@berkeley.edu

SAMPLE ANALYTICAL RESULTS

You will recall the various meetings we have had over lion poisoning in Laikipia and investigations done to get to the killing agent.

Two investigations have been done and the last one was at Muggie Ranch where frozen samples of viscera of the poisoned lions were taken and stored at Mpala Research Centre awaiting analysis. These samples were delivered to our offices with additional liver samples from suspected poisoned lions.

The samples were analyzed with specific interest on Carbofuran and Strychnine. The result of analysis are as indicated below;

Analytical report

Sample	Carbofuran	Strychnine
Stomach contents of female hyena	Not detected	Not detected
S28 – stomach contents	Not detected	Detected
LF08 – stomach contents	Not detected	Detected
LF90 – stomach contents	Not detected	Detected
Liver	Not detected	Detected

The results indicate that strychnine is the poison that was used to poison lions as it was detected both in the stomach and the liver. Since these samples were drawn from different ranches and at different times, it would be correct to conclude that strychnine is in the wrong hands and your future investigations should focus on that line.

It is therefore true to say that contrary to the common belief that carbofuran was being used to kill the lions, strychnine, which is normally used by Veterinary department to bait dogs is the poison that the locals use in killing the lions.

Regards.

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F.N. Muchiri FOR: CHIEF EXECUTIVE/SECRETARY

C.C. David Mead - e-mail davidmead@kenyawe.com

Director Veterinary Services P.O. Private Bag - 00625 KANGEMI - NAIROBI

Chief Executive Officer Agrochemicals Association of Kenya P.O. Box 13809 NAIROBI



PEST CONTROL PRODUCTS BOARD RECEIVED 10 JAN 2005

SECRETARY'S OFFICE P. O. Box 13794, NAIROBI.

REPUBLIC OF KENYA

GOVERNMENT CHEMIST'S DEPARTMENT

P.O. Box 20753-00202 NAIROBI Telephone: 2725806/7

Fax: 2717567

ORIGINAL

ERTIFICATE OF ANALYSIS

Report Reference No.: P/VET/VOL. 1/2004(17)

Lab. Sample No.: VT 27/04

Sender's Reference:

Description of Sample:

1. Stomach contents of female spotted Hyena.

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LF03 stomach contents.

- 328 stomach contents.
- LF90 stomach contents.

A'sakkakkaksraks

Sxamination Required:

Corbofuran and Strychnine

Analytical Report:

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The Chief Analyst, Pest Control Products Board, Box 13794, Nairobi-Date Received possoo.

Sender:

03/12/04

Sample	Carbofuran	Strychnine
Stomach contents		
of female hyena	Not detected	not detected
S28 stomach contents	Not detected	detected
LFOB stomach contents	Not detected	detected
F90 stomach contents	Not detected	detected
iver	Not detected	detected

E. W. NJOGU

For: Government Chemist

pcpboard

Sent:

Laurence Frank [lgfrank@berkeley.edu] Thursday, February 17, 2005 12:58 PM

To:

'Drathomas Manga poppoard, Laikipia Wildlife Forum, Claus Mortensen, alayne Mathieson, David Mead, Nicholas

Cc:

Georgiadis; Seamus Maclennan; research@KWS.org

Subject:

Predator Poisoning

Dear Dr. Manga,

I was extremely pleased to meet you and Dr. Kinyua today to discuss the predator poisoning incidents in Laikipia. Dr. Muchiri's finding of strychnine in poisoned lions was a critical breakthrough, and it is marvellous that the Vet Dept. is following up so thoroughly.

As I said, we are losing lions and other predators at a frightening rate, not only in Laikipia but other in parts of Kenya, as well. I will let you know promptly when we get other cases. Please do not hesitate to get in touch at any time, and I would be grateful to receive news of your investigations.

Sincerely,

_aurence Frank

Dr. Laurence Frank Laikipia Predator Project Kilimanjaro Lion Conservation Project PO Box 555 Nanyuki KENYA

Tel: + (0) 62-32575 Fax: + (0) 62-32750

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2003 MINUTES/MEAD LETTER/AMENDED FURADAN LABEL FOR KENYA

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-> FORM DAG /KENYA

WATERFOWL AND PREDATOR PROTECTION FROM LEGAL AND ILLEGAL USE OF FURADAN

HELD AT KER & DOWNEY SAFARI'S HEADQUARTERS ON 12th MARCH 2003 AT 9.00 A.M.

PRESENT

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David Mead - Honorary Warden, Kenya Wildlife Service

Senior Inspector, Pest Control Products Board

- Administrator and Training Manager, Agrochemicals Association of Kenya

- Country Manager, Southern & East Africa, FMC Agricultural Products Group

- Regulatory Affairs Manager, Europe & Middle East/Africa, FMC Chemicals

Technical Consultant, (GIFAP Safe Use Project)

Laurence Frank - Laikipia Predator Project (LPP)

IN ATTENDANCE

- Taking minutes

INTRODUCTION

The Meeting was called to discuss two issues relating to Furadan 5G and attendant problems:

- a. The poisoning of ducks and other waterfowl.
- b. The increasing occurrences of predator poisoning, primarily in Laikipia and the Chyulu/Kimana/Amboseli eco-system.

BACKGROUND - DM/JA

1. Ducks and Waterfowl

- a. Throughout the '90's, but getting steadily more critical, ducks were being targeted by poachers in the Mwea and other rice-growing areas in Kenya by illegal baiting with Furadan mixed with rice grain. Ducks were being immobilised and caught prior to death eviscerated, and sold in the illegal 'bushmeat' market. Witnesses reported seeing pick-up trucks full of duck carcasses, and as a consequence of this wholesale slaughter, duck populations were rapidly diminishing in these hitherto prolific areas.
- b. Through the use of Furadan as a pesticide on rice-growing crops, significant numbers of waterfowl e.g. Ibis, Spoonbills, Herons, Storks and other waders were being killed by ingesting the product.

These issues were addressed at the Furadan Environmental Meeting at the MKSC on 24th July 1996, but the various actions determined at that time, though laudable, failed to solve the problem and the rapid decline in the above species continued unabated. DM bought this serious issue to the attention of FMC which finally led to their passing a Resolution to "de-register the product from rice-growing areas and to restrict the sale to 5 kg packs or larger". This timely action by FMC was greatly appreciated and as a direct result, wildfowl populations increased significantly.

In late 2002, it became apparent that Furadan was again being sold in 200 g. packs, and since this was contrary to the FMC Resolution, DM brought this to their attention.

DM's primary concern was that if the product was again available in such small, cheap and easily obtainable quantities, and since duck populations had increased markedly, there may be a resurgence of poisoning of duck for 'bush-meat'.

Co-incidentally, LF reported the incidences of the poisoning of predators, in the areas noted above, by 'salting' predator-killed livestock with Furadan. DM then requested LF to address the meeting with his findings and concerns.

2. Predator poisoning - LF:

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LF is involved in the Laikipia Predator Project and reported that there was an increasing intolerance by livestock owners to predator killings of their livestock. There have been many occurrences of predator poisonings with Furadan suspected as the prime agent. The LPP has adopted a three pronged approach to this issue:

- a. Educating local communities as to the commercial values, through tourism, of predators particularly the large cats, but also hyenas. A number of communities have already established very successful tourist facilities (community-owned lodges) and thereby generating significant remuneration from wildlife. There is an increasing interest in community conservation, from which returns from tourists viewing wildlife more than compensate for the losses of livestock. This is an ongoing and expanding movement.
- b. Reducing livestock/predator conflict by the LPP's efforts to identify inexpensive means of strengthening 'bomas' (stockades) to restrict access at night by predators, including having alert dogs as an early warning device.
- c. Attempting to restrict the availability of any product that can be used to poison predators- which was the main point of his attendance at this meeting.

DM added that the Wildlife (Conservation and Management) Act, permitted landowners to kill any animal in defense of human life, livestock or crops.

Having covered the background and concerns, the meeting was opened for comments and suggestions from the floor.

COMMENTS

- FM made an invaluable point, that the Wildlife Act notwithstanding, the PCPB can, and do,
 prosecute offenders for Misuse of Products. A most helpful and encouraging piece of
 information which will go a long way towards resolving the two key issues concerning ducks
 and predators. Successful prosecutions on these grounds, and given full support by the PCPB,
 should have considerable impact on the conservation of Kenya's wildlife heritage, particular to
 the aforementioned issues.
- LF asked what action he should take and what sort of report was required by the PCPB. FM/RS advised:

- a.. Telephone the office of the PCPB (254-2-446115) immediately together with e-mailed information (pcpboard@todays.co.ke) marked for FM's attention, or in his absence, Mr Peter Amukoa.
- b. Take samples from the 'salted' carcasses, if possible, and certainly from the animal poisoned, and retain these under refrigeration.
- c. Identify the owner of the livestock killed, as the most likely culprit.
- d. Full details of the incident, including location, species involved and date of occurrence/evidence

The PCPB stated they will make every effort to visit the site and collect those samples taken, for analysis, with a view to determined prosecution of offenders. ACTION - PCPB/LPP

- commented on the high degree of efficiency and effectiveness of the PCPB, and furthermore he recommended that all significant information was communicated to the national press. He also suggested that the PCPB may care to make an interim statement to the press after LF has provided them with a concise background of previous occurrences. This would also include the PCPB's commitment to prosecuting offenders which will result in heavy penalties for the misuse of product, and the serious illegality of re-packaging the product into small and unlabelled packages. It is hoped that this press coverage will have considerable impact on potential offenders by stressing the risks they run. ACTION PCPB/LPP.
- 4. FM/RS commented on the matter of small packs vs larger and explained that properly labeled small packs was the correct stewardship of the product. They stressed that otherwise there was a likelihood of larger packs being broken down for re-sale into smaller quantities without the essential labeling. They submitted that ducks were not dying due to small packs, but rather to the large packs being broken down. These opinions from qualified experts were accepted as logical and informed. The issue of smaller packs was accordingly agreed to, in principle, subject to how things went in the future. If it did not work, then the issue would have to be revisited. PCPB/AAK would continue to keep a check on sales outlets to see if it were possible, by covert means, to buy small and unmarked quantities. Any of us, as interested parties, should also report any similar findings to them for action.
- 5. DM asked FMC to confirm that the de-registration from rice growing areas would remain in force and requested that in addition, that the labeling include something specific to 'prohibit use in rice growing areas' and with a warning that 'product misuse is a serious offence'.
- 6. DJ approved the continuation of sales in the smaller packs of 200 g, and confirmed that they would include the requested information on their labeling with effect from the next re-run. He would e-mail DM as to what form this would take. ACTION FMC/DM. He went on to say that as far as he was concerned the issue of ducks was now closed, subject only to any resurgence of illegal baiting. He requested that DM/LF correspond with him direct as confusion could arise if their USA office was approached. DM accepted this provided that he was kept aware that USA was being updated and that he was sent copies of the relevant correspondence between USA to confirm this. ACTION FMC (11).
- 7. JA pointed out the marketing problems of FMC and that any ill-will towards their product is a major concern of theirs. He also commented that the issue of large packs vs small packs was a two-edged problem, but agreed that it could remain on the 'back-burner' unless future developments indicated that it be re-addressed. He reiterated that Furadan was an excellent

product for the agricultural sector, and it was hoped that provided its negative side to Kenya's wildlife was carefully controlled and monitored, there would be no call for pressure to withdraw the product altogether. He again stressed the need for good prosecutions and media focus on culprits. DM concurred with this 'wait and see' way forward. ACTION (re prosecution) — PCPB/AAK.

- DM requested that the PCPB/AAK send him a copy of any statement or notification to the press
 (basically a photocopy from the newspaper), in case he missed it. This was agreed. ACTION
 PCPB/AAK. DM would pass these on to LF. ACTION DM.
- LF asked DJ if nothing could be done to make the product totally unpalatable by both taste, and smell, to carnivores and birds? DJ remarked that this was in progress, but what may work for carnivores may not work for birds and vice versa. ACTION - FMC.

CONCLUSION

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DM concluded that we had gone about as far as could be realistically expected for the present and requested that all parties make a concerted effort, work together, and keep each of the others informed. In this way, we would be able to work towards our undisputed and common goal of preserving Kenya's wildlife. He then thanked everyone for their active participation and valuable inputs.

There being no further business, the meeting ended at 12.30 p.m.

FMC Chemical, sprl Agricultural Products Group

Boulevard de la Plaine 9/3 B-1050 BRUSSELS Belgium Tel. 32 2 645 95 84 Fax 32 2 645 96 55



KER & DOWNEY SAFARIS LTD P.O. BOX 86 KAREN 00502 NAIROBI KENYA

Attention: Mr David Mead

Brussels, 22th April 2004

Dear Mr Mead,

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Following our meeting last year and in agreement with the PCPB, we have amended the label of our product FURADAN SG regarding the mention of the limitation of use on paddy rice. This use restriction is clearly mentioned as you can see on the copy of the new label that is enclosed for your information.

I also take this opportunity to confirm that we are currently working on this formulation to make it less palatable for birds, which is the group the most at risk as you identified it. This takes time, because the palatability has to be tested under real condition.

Should you have any comment or question, or need any additional information, please do not hesitate to contact me.

Yours sincerely,

Florence Troubac

Regulatory Affairs Manager Europe, Middle East, Africa

FMC Chemical sprl, APG

Tel: 00 32 2 645 95 47

Fax: 00 32 2 645 96 55

Philippe Quinion FMC

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CORRESPONDENCE FROM COMPANY TO PROPONENT DATED DECEMBER 22, 2010

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From: Andrea Utecht

Sent: Wednesday, December 22, 2010 6:25 PM

Forisma & OMB Memorandum M-07-16***

Subject: Response to your proposed commitment letter

Dear David:

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We have given careful thought to your most recent proposed commitment letter in the context of our current product stewardship programs and practices. We believe, however, that your proposal requires undertakings that go far beyond the control of one company. Also, we are obligated to balance your concerns with the concerns of all our shareholders, and we do not feel that your proposal properly strikes that balance.

FMC is very committed to the robust and effective stewardship of our products. As you will recall when we met on December 9, we walked you through a number of the steps we take to steward our products around the globe, and specifically in South and East Africa. Many of the examples we shared with you at that meeting had been unknown to you. Some of the Product Stewardship programs / efforts that we described, and which are but a few of the examples of our global product stewardship programs, are:

- Despite having received no definitive proof of any deliberate misuse of carbofuran, we stopped all Furadan sales in Kenya effective May 2008, stopped all sales in Uganda and Tanzania effective May 2009, and stopped all sales to South Africa and Zambia effective January 2010.
- We instituted Furadan buyback programs in Kenya in May 2009 and in Tanzania and Uganda in September 2009 that spanned several months and covered more than 25,000 kilometers. These involved visiting hundreds of Agrivet shops to buy back any Furadan found at up to ten times the original price. All Furadan repurchased was packed and shipped out of Africa.
- We made an offer to local authorities and wildlife conservationist groups to fully fund the analysis, at a reputable laboratory, of wildlife specimens from incidents of suspected "misuse" – this offer still stands.
- We have developed and are implementing a phased program to withdraw Furadan and other products
 from any markets in which we cannot assure that these products' safe use is a national priority, and/or
 effective product stewardship cannot be generally implemented.
- We have established a Sustainability Council of members representing non-government organizations, including large cat preservation, whose remit is to provide us with independent external expertise and recommendations.
- We informed you that it is highly likely that FMC's withdrawal of Furadan from these markets has opened
 the door to generic carbofuran, and that FMC has no control over how these generic products are
 stewarded.
- We offered for you to undertake a trip at our expense to East Africa to see for yourself the situation on
 the ground and to talk with whomever you choose, irrespective of whether you withdraw your
 shareholder proposal or not. The goal would be for you to come back to us with your perspectives on any
 additional practical actions that we could be taking to further decrease the conflict between wildlife and

2/3/2011

humans in these countries and that are in FMC's shareholders' best interests. This offer remains open through June 2011.

Unquestionably, we will continue our efforts to reduce the incidents of misuse of any of our products, and in doing so we will keep your recommendations in mind. We want to thank you for the news article you sent yesterday and have already begun to look into the incidents. We certainly appreciate your interest in this issue; unfortunately at this point we believe that further negotiations would not be productive.

Sincerely,

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Andrea Utecht

Please be advised that this transmittal may be a confidential attorney-client communication or may otherwise be privileged or confidential. If you are not the intended recipient, please do not read, copy or re-transmit this communication. If you have received this communication in error, please notify me by e-mail (andrea.utecht@fmc.com) or by telephone (call us collect at 215/299-6990) and delete this message and any attachments. Thank you in advance for your cooperation and assistance.

Andrea E. Utecht Vice President, General Counsel and Secretary FMC Corporation 1735 Market Street Philadelphia, PA 19103 Phone: 215/299-6990

Fax: 215/299-6728

David Brook

FISMA & OMB Memorandum M-07-16

Sent Via Email and Federal Express Standard Overright: & OMB Memorandum M-07-16***

January 24, 2011

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U.S. Securities and Exchange Commission Division of Corporation Finance Office of Chief Counsel 100 F Street, N.E. Washington, D.C. 20549

Re: Shareholder Proposal by David Brook Reply Letter

Product Stewardship and Human Equality: FMC Corporation

Dear Sir/Madam:

This letter has been prepared to assist the staff of the Division of Corporate Finance ("Staff") of the United States Securities and Exchange Commission ("SEC") with a reply to the request by FMC Corporation, ("FMC") dated December 29, 2010, to exclude the shareholder proposal of David Brook, ("Brook Proposal") dated November 16, 2010, (which included an annotated version provided later¹, included as Exhibit 1) from the 2011 annual proxy statement. The Proponent believes that the information provided in this letter will overwhelmingly convince the Staff that the Brook Proposal has merit, that FMC has failed to sustain its burden to exclude the proposal and the SEC should therefore allow the Brook Proposal to proceed to a discussion and vote by all shareholders of FMC.

I. INTRODUCTION:

Like so many legal issues, FMC's arguments and the length of their documents present the appearance of a carefully thought out and documented corporate approach toward product management. Unfortunately, like the story of the emperor's new clothes, when you begin to peal away the layers of rhetoric and misinformation, the SEC will identify that nothing could be further from the truth. As detailed below, after careful research of these issues and discussions with corporate officers, including an in-person meeting, it appears that FMC has spent more time and effort on building a public relations program than on building a credible, effective stewardship program.

FMC's materials (and this additional information) show that it has no effective corporate understanding or control over the misuse of its pesticide products. FMC has not presented a single written policy or procedure as to how its supposed product "stewardship" program is

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As was mentioned in the original cover letter, page 3, an annotated Shareholder Proposal was supplied to FMC on December 9, 2010, in order to provide FMC with the documentary sources supporting the Brook Proposal. A copy of the annotated Brook Shareholder Proposal is attached as Exhibit 1.

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implemented. The Brook proposal was specifically submitted for that reason, since a diligent review of FMC information, governmental sources, not for profit organizations and discussions with those people and organizations on the ground in Africa, the United States and Canada, indicated that there is no real or substantially implemented FMC product stewardship program. This is not to state that FMC has not taken defined actions to respond to allegations of one product's misuse through intentional poisonings, namely Furadan, but therein lies the problem. FMC's entire approach to these issues has been driven only by ad-hoc reaction to crisis. FMC has never taken the steps to create a pro-active product management program which is capable of accurately identifying product misuse and then implementing predetermined measures to correct and prevent future incidents. Its efforts have only involved one pesticide, namely Furadan. The Brook Proposal (if adopted) would establish comprehensive pro-active corporate-wide policies and procedures to credibly manage all of its agricultural products, not just one.

The logical conclusion which may be drawn by the SEC from FMC's own submittals is that it has failed to demonstrate sufficient indicia of a corporate commitment towards product management and towards prevention of product misuse. Corporations, like government, take very specific steps to put in place expressions of corporate philosophy. This process usually involves steps to identify issues, research those issues, bring stakeholders together for discussions of issues and possible solutions, drafting policies, approving policies, getting more stakeholder meetings, drafting procedures, submitting those procedures for reviews by stakeholders and upper management and then ultimately adopting, usually in some formal process, these policies and procedures to implement a corporate philosophy. Most corporations, like government, keep literal policy and procedure books, usually indexed by number, with established operating authorities as to what policies have been adopted and what procedures are established and how they will be implemented and who within the corporation will be responsible for proper implementation and oversight.

These policies and procedures provide management and all employees with a written understanding of their corporate expectations and responsibilities. This is especially important today, since a corporation for example, with a strong leader and no policies, may find itself in trouble should that person leave. There is the increased likelihood that without the stability and predictability of written policies and procedures that the corporate direction may be forgotten or misdirected. After review of all available and requested information from FMC and one detailed meeting with the FMC Vice President of Agricultural Products Group and the FMC Vice President, General Counsel and Corporate Secretary² it has become apparent that FMC has not institutionalized through the adoption of policies or procedures any product stewardship program. It appears that since FMC operates without some form of organized corporate control over its supposed program, there can be no implementation, let alone substantial implementation of any stewardship program. Superficially the FMC arguments sound good in theory, but the lack of any documentation, other than the word "stewardship" overwhelmingly demonstrates that in practice FMC has not, as a corporation, committed to any real product stewardship program.

It is also important to place a caveat on all of the information which was actually provided by FMC and the information which is being submitted as legal support for the Brook

The Assistant General Counsel and the Manager of Global Product Stewardship were also present at this meeting.

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Proposal. There is a vast amount of information about Furadan, (some about Marshal, a second FMC pesticide alleged to have been misused for poisonings³) and other pesticides which FMC manufactures and sells. Some documents like rule adoptions, dietary studies, and endangered species reports are extensive with literally thousands of pages of studies and analysis. I have made a diligent effort to truthfully and accurately prepare this proposal and document its legitimate purpose. As a shareholder of the company, who does not oversee the manufacture of these complex chemical compounds, I have done my best to research these issues and provide reputable sources as support for the Brook Proposal. I also do not have the resources of a multinational company, like FMC, to produce all sorts of company information in my support. That is why this proposal makes sense and is not duplicative of existing company programs, especially since FMC has only spoken about Furadan, one of its pesticides and the Brook Proposal deals with all of the FMC products, which in the United States equates to approximately 97 other FMC branded insecticides, herbicides and fungicides⁴. It would also include an unknown number of products which are only sold outside of the United States and for which there is no corporate obligation to report incidents which occur outside the United States in the United States.

I will note however, that the information which I have gathered from across the world indicates that there is an unresolved problem with the misuse of Furadan and now it appears also Marshal. This problem continues into the year 2011. I also will note that considering the resources of FMC to gather information in support of its position that it has an active product stewardship program, the actual information it provided is pretty scant and substantively not really company-based. While the SEC is spending time reviewing the documents presented in support of the Brook Proposal, I also think it is important for the SEC to also look at what FMC has NOT provided in support of its arguments. Put simply, based upon what it has provided, (and that is all that we can go on) FMC has not included much, if any documentation in support of its "substantially implemented" position. FMC has not provided any information to show that the Brook Proposal is false and misleading, and FMC has not shown that the subject of the Brook Proposal is part of its "ordinary business operations," since the Brook Proposal raises sufficiently significant social policy issues as discussed below.

It is also critical to identify that FMC has neglected to mention that while it has a legal obligation to report incidents of misuse to the EPA for its U.S. registered pesticides, like Furadan, it has no obligation to report any incident of misuse for pesticides which are not registered in the U.S., like Marshal. I mention Marshal, since there are allegations of its misuse in Africa for intentional poisonings⁵, (Report enclosed as Exhibit 2) and Marshal (carbosulfan) breaks down into carbofuran (basically Furadan) but FMC has no governmental obligation to track or report these issues. While some of their pesticides like Furadan are registered in the United States and others like Marshal are not, the Brook Proposal would require FMC to establish a stewardship program for all pesticides, like Marshal, which appear to be slipping through the stewardship cracks.

³ Marshal, is also a carbamate pesticide with a chemical name of carbosulfan. It is not registered in the United States.

See, FMC's Professional Solutions webpage at: http://www.fmcprosolutions.com/Home/ProductLibrary.aspx and http://www.fmccrop.com/product/list/
 See, Lion poisoning incident reports from April 25, 2010 and bird poisoning report from October 29, 2010 and photographs of Marshal 350. (Exhibit 2)

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FMC has been deceiving itself about the serious adverse impacts which Furadan has been having on the world's environment. The purpose for this proposal is to begin to address this long-standing history of "head-in-the-sand" corporate management. The plethora of readily available information of criminal acts and current investigations of crimes, reliable scientific research with documented scientifically peer reviewed reports, confirms that FMC has not provided the SEC with a truthful explanation of the serious problems with its sale and distribution of Furadan and other dangerous pesticides⁶. As will be detailed below, this very carefully orchestrated presentation by FMC failed to disclose many of the facts underlying the sad history of Furadan and the failure by FMC to control this highly toxic pesticide. This information also confirms that FMC's only focus has been to react to Furadan issues in its "stewardship" program, when it has become apparent that at least one other FMC pesticide, named Marshal, is now alleged to being misused for intentional poisoning of wildlife. A "stewardship" program which addresses only one pesticide is not a stewardship program.

This reply letter will systematically review FMC's information and provide responses that will detail, with documentary information, why FMC's assertions are not supportable by its record, nor information in the public domain. The letter will also provide the critical information that will confirm why the Brook proposal is worthy of review by all of the shareholders of FMC and why the SEC should reject FMC's request to exclude this proposal.

A. WHAT'S THE PROBLEM?

The following brief explanation is provided in order for Staff to better appreciate why the Brook Proposal was advanced⁷. FMC produces agricultural pesticides as well as other chemical products. Furadan is an FMC N-methyl carbamate pesticide (chemical name is carbofuran⁸) made in granular and liquid form. Furadan acts as a cholinesterase inhibitor⁹, for which the United States Environmental Protection Agency ("EPA") concluded in 2009 that the:

"...dietary, worker, and ecological risks are unacceptable for all uses of carbofuran. All products containing carbofuran generally cause unreasonable adverse effects on humans and the environment and do not meet safety standards, and therefore are ineligible for reregistration. (Enclosed as Exhibit 3)

⁶ See, National Marine Fisheries Service, Endangered Species Act Section 7 Consultation Biological Opinion, April 20, 2009 Report at: http://www.nmfs.noaa.gov/pr/pdfs/carbamate.pdf (at 591 pages), See, EPA Carbofuran Webpage for reference information:

http://www.epa.gov/oppsrrd1/reregistration/carbofuran/ See, enclosed affidavits in Exhibits 7 and 8.

The information provided as to Furadan in this section is based upon the writer's understanding of this chemical compound and while I believe all of it to be accurate, with sources provided, I welcome the reader to independently confirm its accuracy.

Reader to independently contains a accuracy.

8 Chemically, Furadan is: $C_{12}H_{15}NO_3$ with a the full chemical composition of: 2,3-dihydro-2,2-dimethyl-7-benzofuranyl methylcarbamate.

⁹ See, Extension Toxicology network description of Cholinesterase Inhibition at: http://extoxnet.orst.edu/tibs/cholines.htm

See, EPA Carbofuran Cancellation Process Cover Pages, November 2010 attached as Exhibit 3 and also at: http://www.epa.gov/oppsrtd1/reregistration/carbofuran_noic.htm

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As an insecticide, Furadan is applied to operate as a "systemic," which means it is meant to be drawn into the plant's vascular system through its roots, so when an insect bites the plant it eats some of the poison. In layman's terms, Furadan acts by disrupting the enzymes(s) that allow for the proper firing of nerve impulses and the insect's nervous system simply spasms out or shuts down (or both) and its internal control over all of its organs stops working and the insect dies. The problem is that very small amounts of Furadan will also perform the same disservice to humans, wildlife, fish, birds, waterfowl and any creature in between which comes into contact with it and ingests it. It is odorless and tasteless. It is an indiscriminate poison. Furadan is very effective at killing everything that happens to get it into its system. Just to put this pesticide in perspective, in the granular form, if ingested, about a quarter of one teaspoon of Furadan will kill you, or in a liquid form approximately 7 drops will kill a human being 11.

Furadan is still officially a registered pesticide in the United States and its use has been extensively researched by many branches of the federal government and State governments, universities and not for profit groups, including EPA and the National Marine Fisheries Service (NMFS.) The general consensus is that it's <u>intentional</u> use in the United States has created many problems, leading to the EPA's May 15, 2009 Final Rule for Tolerance Revocations¹², which has determined that no residues of carbofuran (Furadan) are allowed in foods produced domestically. The EPA Final Rule went into effect on December 31, 2009, and it included domestic and imported foods. On appeal, the imported foods provisions were not accepted by the United States Court of Appeals, so imported foods, such as coffee, bananas, sugar cane and rice are still allowed to have residues of carbofuran¹³. FMC has appealed.

As an example of the seriousness of its concerns towards its intentional use, NMFS stated on April 20, 2009, "NMFS concludes that pesticide products containing carbaryl and carbofuran are likely to jeopardize the continuing existence of 22 listed Pacific salmonids (Salmon species) as described in the this Opinion¹⁴ (Emphasis added.) NMFS is stating that its research indicates that it is likely that carbofuran use may cause the extinction of 22 different species of Salmon in the United States. When Furadan was widely used in the United States, it was listed as a restricted pesticide, which meant that only licensed applicators could purchase and apply it. FMC stated in its letter that EPA only based its revocation decision on "computer models." (P.13, Full Paragraph 2) EPA stated that it looked at three lines of evidence in assessing ecological risks, which included a screening level risk assessment, a refined assessment and field data with carbofuran. FMC is wrong.

Based upon a person weighing 150 Lbs. Source: www.chemicalbook.com

See, Carbofuran; final Tolerance revocations: Final Rule, Federal Register Vol. 74, No. 93, Pages 23046-23095, Friday, May 15, 2009, and also the Order Denying FMC's Objections and Requests for Hearing, Federal Register, Vol. 74, No.221, Pages 59608-59686, Wednesday, November 18, 2009.

See, National Corn Growers Association, et al. v. Lisa Perez Jackson, 613 F.3d 266, 2010.

Please recognize that the study conducted by NMFS also included research into carbaryl as well as carbofuran, but the seriousness of the conclusion as to the impact of carbofuran is still made. See, April 20, 2009 letter and supporting documents by the NMFS sent to the EPA: http://www.nmfs.noaa.gov/pr/pdfs/carbamate.pdf

See, March 7, 2006, Reregistration Eligibility Science Chapter for Carbofuran, Environmental Fate and Effects Chapter, Page iii, go to: http://www.epa.gov/oppsrrd1/reregistration/carbofuran/ and look for EPA docket: EPA-HQ-OPP-2005-162-0080. Document is 532 pages.

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In the United States, Furadan has been intentionally misused in successful attempts to poison what certain people decided were undesirable animals, like coyotes and raccoons, with the unintentional side effect of killing hawks, Bald Eagles, and any other animal that has the misfortune of eating the carcass of the original poisoned animal. Furadan has no odor or taste, so the animals eating the baited carcass have no warning that they are eating the poison. FMC would like to suggest that this is an old problem, but it is not. In 2010, there were four criminal convictions in the United States, (that I know of) where there were confirmed misuses of Furadan, resulting in the death of Bald Eagles, hawks, vultures, raccoons, migratory birds and dogs. These incidents and the criminal convictions of the responsible individuals occurred in New York State, Kentucky, Ohio and Connecticut 16. The Connecticut case, December 2010, is especially troubling, not just for the irresponsible behavior of the man convicted, but for the Massachusetts company that willingly sold the Furadan without even identifying if the buyer was licensed to purchase it 17. The burden of proof in a criminal trial is "beyond a reasonable doubt," so there is no doubt that Furadan was involved in each of these incidents. (See, December 10, 2010, copy of State of Connecticut Press Release enclosed as Exhibit 4.) The Furadan incidents have continued, and as recently as January 12, 2011, there was a news report from Claiborne County, Tennessee involving the intentional poisoning of dogs18 with an active criminal investigation currently occurring right now.

The Brook Proposal would include stewardship in the United States, as well as Africa, for which FMC has said nothing in its arguments to the SEC. The issue of misuse and poisonings in the United States should have been addressed by FMC in its materials since problems continue in the United States even after FMC voluntarily cancelled its registrations for all but six crops in the United States ¹⁹. It is also interesting to note that FMC has failed to include incident ²⁰ data that it has collected from around the world on product misuse or other incidents, since this may not be helpful to their arguments that everything is under control.

The problem with Furadan is that in other countries, especially in countries which have no licensed applicator laws, Furadan can be purchased by anyone who has the money. In 2008, CBS's 60 Minutes reported (Transcript included as Exhibit 5) that it cost about two dollars for a

U.S. Fish and Wildlife Services: "Kentucky Man Sentenced for Poisoning Hawks and Vultures," February 18, 2010, See, http://www.fws.gov/southeast/news/2010/r10-015.html, Allegany County, New York Man enters Guilty Pleas to Poisoning Two Bald Eagles, March 9, 2010, See, http://www.dec.ny.gov/press/63388.html. See, information on the Ohio conviction: http://www.epa.gov/compliance/resources/cases/criminal/highlights/2010/bee-richard-06-08-10.pdf See also, http://www.epa.gov/compliance/resources/cases/criminal/highlights/2010/bee-richard-06-08-10.pdf See also background information on Raptors: Poisoning of Raptors with Organophosphorous and Carbamates Pesticides with Emphasis on Canada, the United States and the United Kingdom, Pierre Mineau, et al., Journal of Raptor Research, 33(1):1-37, 1999.

See press release from the Connecticut Department of Environmental Protection: http://www.ct.gov/dep/cwp/view.asp?A=3847&Q=469794

See, http://www.wbir.com/news/article/152070/2/Claiborne-detectives-investigate-poisoned-dogs
See, http://www.wbir.com/news/article/152070/2/Claiborne-detectives-investigate-poisoned-dogs
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See, Nttp://www.wbir.com/news/article/152070/2/Claiborne-detectives-investigate-pois

See FMC's own submission, Section H, Page 26, which indicates that EPA changed the reporting requirements in 1998 so "minor incidents, solitary deaths need only be reported in some aggregate fashion.

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bottle in Kenya²¹. Specifically in Africa, in recent years it has become the poison of choice by certain people who have used it not just to intentionally poison wildlife, but to poison waterfowl and fish which are apparently being sold for human consumption²².

B. <u>SPECIAL NOTATION: FAILURE TO COMPLY WITH STAFF</u> BULLETIN NO. 14C

It should also be noted that FMC has neglected to comply with Staff Legal Bulletin No. 14C, dated June 28, 2005, Section G, since it has failed to provide the SEC with all correspondence the company has exchanged with the shareholder proponent. FMC has failed to include a copy of the annotated Brook Proposal which provided the company with a detailed annotated version of the proposal containing 16 footnotes which provided FMC with over 30 citations to scientific, governmental, educational, criminal convictions and press reports as independent background and support for the proposal. Without a copy of this annotated proposal, the SEC might believe that allegations made by FMC about false information were correct. This failure to disclose and provide this information to the SEC is extremely significant, especially in light of the fact that if shareholders are not committed to communicating with the SEC, then the SEC may be basing its decisions upon flawed and misleading and certainly deficient information provided by a corporation. If there is such a thing as SEC imposed "sanctions" for this failure to disclose, the SEC should consider such an action against FMC. There is no valid excuse for FMC's failure to disclose this information. The annotated Brook Proposal is included as Exhibit 1.

FMC has also failed to provide the SEC with the detailed email correspondence and two drafts of a proposed agreement between the proponent and FMC to establish a credible stewardship program at FMC²³. Review of this agreement is extremely insightful, since it will confirm that FMC does not have, nor does it desire to implement a credible or effective stewardship program. Copies of this information is provided in this response and it will confirm not only that FMC has not been forthright in its dealings with the SEC, but this additional information provides added support to the validity of the Brook Proposal. (See email correspondence and FMC letter, with proponent's letter showing proposed ideas for creating a credible product stewardship program, attached as Exhibit 6.)

C. THE TWO COMPONENTS OF THE BROOK PROPOSAL:

The purpose for this shareholder proposal is twofold:

First, FMC has no written coherent corporate policy to control its sale of highly toxic pesticides and other chemicals that have been used to intentionally (and unintentionally) poison

See copy of transcript from story attached as Exhibit 5 and website link for actual video story: http://www.cbsnews.com/stories/2009/03/26/60minutes/main4894945.shtml?tag=mncol;lst;1

See, Measuring the conservation threat to birds in Kenya from deliberate pesticide poisoning, Martin Odino, July 30, 2010. See also, Evidence for revoking registration of carbofuran in Kenya, Paula Kahumbu, May 17, 2010.

The Stewardship Proposal was exchanged in letter format with FMC. A copy of this proposal and accompanying email correspondence is included as Exhibit 6.

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wildlife across the earth. People have also died from intentional and unintentional poisoning from Furadan²⁴. While the evidence that Furadan and other FMC products, like Marshal have been intentionally misused is growing, the ability of FMC, to effectively deal with this issue is lacking. Based on all available information, the Brook Proposal was drafted, since it appears that if there is any willingness of FMC to confront these issues, it seems to be driven more by its concern towards bad public relations, than by any organized corporate approach towards proper investigation and solutions to these critical problems.

The Brook proposal offers an imminently reasonable approach to better understanding the issue and it then allows the company to craft appropriate informed solutions to this problem. The proposal would recommend withdrawal of products where there is documented misuse, until the company can identify the cause and control it. The Brook Proposal would for the first time have FMC prepare a Stewardship Report identifying misuse and most importantly set up a process whereby FMC would identify and propose changes to prevent further misuse.

Second, the Brook Proposal seeks to have FMC establish a human equality declaration and policy. Human rights issues impact all companies like FMC that conduct manufacturing and sales internationally. This intended policy declaration would propose establishing the United States as the benchmark country for FMC to determine appropriate handling and exposure for its operations. This component of the Brook Proposal would deal with all of FMC's operations, not just its pesticides. This proposal is perfectly within the realm of any corporation to determine how it can best establish a philosophy of human rights in the form of an equality declaration as to how it intends to treat all people and as a policy it would allow FMC to be guided by these principles. It should initially be noted that FMC has no policy as it relates to treating all people equally, regardless of nationality, when it comes to the use and exposure to its pesticides and all other chemical products that it manufactures.

II. RESPONSE TO THE FMC ARGUMENTS:

FMC has made three arguments in support of its position that the Brook Proposal should be excluded from its 2011 annual proxy materials. It should be noted that the burden of proof to sustain this position rests squarely upon FMC as stated at 17 C.F.R. 240.14(a)(8)(g.) and in addition, the SEC will not consider any basis for exclusion that is not advanced by the company²⁵.

I respectfully maintain that a careful reading of the FMC arguments, combined with the supplementary information and documents which are being provided by the proponent, will convincingly show that FMC has failed to meet its burden and that there is more than adequate legal support for this proposal to be heard by the shareholders of FMC.

²⁵ Staff Legal Bulletin No. 14, July 13, 2001.

²⁴ See article on 3 year old accidentally ingesting Furadan: http://news.nationalgeographic.com/news/2009/11/091113-boy-killed-lions-pesticide-furadan.html and Romanian singer's suicide with carbofuran: http://illfolks.blogspot.com/2010/07/no-more-manole-madalina-manole-birthday_29.html

FMC has generally stated that the Brook Proposal should be excluded because:

- · FMC has "substantially implemented" the objectives of the proposal, and
- The information contained in the proposal is "materially false and misleading," and
- The proposal deals with a matter that is relating to the "ordinary business operations of the Company."

Brief Answers:

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FMC has not substantially implemented the components of the Brook Proposal, since it has not adopted policies or procedures that it has disclosed or taken sufficient actions to address the concerns raised in the proposal. FMC admits that it has no policy on human equality, so factually there can be no implementation whatsoever.

The information contained in the proposal is not false, nor is it misleading, since all statements in the Brook Proposal are supported by reliable independently documented and verified sources.

The Brook Proposal raises sufficiently significant social and environmental policy issues which transcend the day-to-day business matters, since FMC's failure to act, as directed by the language in the Brook Proposal may, among other things, be contributing to the extinction of at least one animal species.

ARGUMENT

A. FMC HAS NOT SUBSTANTIALLY IMPLEMENTED THE COMPONENTS OF THE BROOK SHAREHOLDER PROPOSAL, or,

"Actions Speak Louder Than Words²⁶"

FMC has argued that the nature of the Brook Proposal and its current programs coincide sufficiently as to maintain that the Corporation has already "substantially implemented the objectives sought by the proponent." (Page 3, second paragraph.) If this had been true, I would not have submitted the Brook Proposal in the first place. The genesis for the Brook Proposal originated from a careful analysis of the available FMC corporate investor information and other documents, governmental reports and regulatory documents, discussions with experts in different fields, media reports and an examination of the available misuse problems across the world with FMC's products, which indicated that if FMC was doing something, it was not working. FMC can state that it has a product stewardship program that is the functional equivalent of the Brook Proposal, but without presenting some form of objective criteria to show that to be the case, all that the SEC is left with is hollow words. A factual analysis of what FMC is actually doing compared to the components of the Brook Proposal as detailed within this letter

²⁶ Sometimes the easiest way to separate fact from fiction is to look at what someone is actually doing, since, "talk is cheap" and since corporations are profit driven, sometimes they are better at presenting an image which does not always reflect what they are actually doing.

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will show that FMC is not doing what the Brook Proposal would establish and even if it is doing something, it has certainly not substantially implemented the objectives of the Brook Proposal.

1. APPLICABLE LAW AND THE COMPONENTS OF THE BROOK PROPOSAL

Under Rule 14a-8(i)(10), a shareholder proposal may be excluded if the company has already substantially implemented the proposal. First, it is insightful and telling to observe that that FMC has stated that it believes that it has substantially implemented the "objectives" sought by the proponent, it does not state it has implemented the proposal. (P3, Second paragraph.) FMC is a sophisticated corporation with more than adequate legal representation, and one is left to believe that it picks its words very carefully. So, initially it appears that FMC has openly admitted that it only believes that it has substantially implemented the "objectives", but it has admittedly failed to state that it has substantially implemented the "proposal.²⁷"

The general policy underlying the substantially implemented basis for exclusion of a shareholder proposal is to "avoid the possibility of shareholders having to consider matters which have been favorably acted upon by management." Release No. 34-12598 (July 7, 1976) The Staff has stated "a determination that the company has substantially implemented the proposal depends upon whether [the company's] particular policies, practices and procedures compare favorably with the guidelines of the proposal." Texaco, Inc, (avail. Mar. 28, 1991) FMC has even argued that "A proposal need not have been implemented in full or precisely as presented for it to be omitted as moot under Rule 14a-8(i)(10) — all that is required is that the company has in place policies and procedures that address the proposal's essential objectives satisfactorily." (P. 3, Paragraph 1) Quoting the 1983 Release and Caterpillar, Inc. (avail Mar.11, 2008); Wal-Mart Stores, Inc. (Avail. March 10, 2008); The Dow Chemical Co. (avail. Mar. 5, 2008); and Johnson & Johnson (avail. Feb 22, 2008.)

While there are varying interpretations of what "substantially implemented" means in practice, there are some common criteria that Staff examines in order to determine if a comparison of what currently exists at FMC parallels the Brook Proposal. First, what has the company done to manifest its intent to adopt the components of such a proposal? In Dow Chemical Company, (avail. Feb. 24, 2000) ("Dow") a proposal was made regarding genetically-engineered agricultural products to withhold distributing until tests could show no harm to humans, animals of the environment. While the proposal was ultimately withdrawn, the information which Dow produced in its response is extremely insightful as applied to FMC. Dow provided the SEC with detailed information as to the nature of its product stewardship programs. Dow's information allowed an objective observer to identify components of its programs which confirmed that this program was real and it had integrated these programs into its daily operations:

²⁷ Could this word choice be a distinction without meaning? No. There is no logical explanation other than an admission that FMC is fine tuning words to avoid the conclusion that it cannot demonstrate substantial implementation of the proposal but only what it calls its "objectives." The rule states "already substantially implemented the proposal," not its objectives.

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Finally, Dow has in place a long-standing Environment, Health & Safety ("EH&S") policy designed to ensure that all of its products and operations, including its agricultural products, meet Dow's standards for safety. This policy incorporates Dow's Responsible Care initiative, which is driven by EH&S excellence, public participation and dialogue. n24 The Responsible Care initiative contains six codes of management practice, including a "Product Stewardship" program. Under this program, Dow has implemented systems and processes for evaluating, monitoring and addressing both the risks associated with, and the societal concerns raised by, its products, including those that are genetically engineered. These systems and processes include a "Business Risk Review," through which Dow conducts risk evaluations for new and existing products and their applications. These various reviews address the entire life cycle of a product, starting at the discovery phase. The "Societal Concern Evaluation" is a disciplined process of considering the public perception of Dow's products and how they might be received by consumers and concerned citizens. In conducting this evaluation, teams of Dow employees [*43] address a checklist of 40 or more questions. Finally, once its products are brought to market, Dow has ongoing "product stewardship" programs to ensure the proper use of its products by customers. (Emphasis added.) 200 SEC No-Act. Lexis 301, 42-43.

The analysis conducted by Dow above provided information which, if questioned, would have provided independent verification of a detailed corporate commitment to stewardship. Through adopted policies and procedures which involved public participation and dialogue the reader could examine the implemented systems and processes set up to evaluate, monitor and address risks associated with its products. Dow's reviews evaluated its products and included a societal concern evaluation with teams of its own employees addressing a checklist with 40 questions to ensure that its products were properly used. None of this has happened or has been coherently documented and presented to the SEC by FMC.

The proponent suggests one simple possible test for the SEC to utilize to determine what, if any substantial implementation of the product stewardship program really exists at FMC, it's called the "transferability test²⁸." It is based upon the following very hypothetical premise; what if all senior management at FMC was changed tomorrow? What stewardship program would exist at FMC the day after that? If FMC really had all these programs in place, then nothing would be different, since there would be written policies and procedures, guidance, guidelines and internal memorandum on how all of these programs would work and how the new officers would continue where the old ones left off, like those at Dow. But, that is not the case here. If we look at FMC's submissions, it becomes very obvious, very quickly that virtually no "stewardship" would exist, since all actions which FMC suggests that it took to implement its programs were ad hoc and possibly only decided upon by one or two people, not "the Management." Without the direct involvement of the Board and the Senior Executive Officers, it is hard to imagine that FMC can claim that any program exists. The actions which FMC has argued were part of a larger product stewardship program, like moratoriums, or buybacks apparently were ad hoc, with no objective policy direction, except that someone decided to do

²⁸ This terminology was created by the writer, but it does seem to fit as an appropriate legal test in this situation.

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something. Without the ability of FMC to demonstrate transferability, there can be and is no substantial implementation of any product stewardship program.

FMC has no such policies, procedures, public participation components, identified systems or processes set up to monitor and assess risks and teams of employees to monitor product use. While the products which Dow manufactures and the products which FMC manufactures are different, the issues and the way that they are addressed should still be the similar or the same. FMC has failed to show in any of its materials that it has institutionalized any components of the Brook Proposal and thus it cannot objectively maintain that it has substantially implemented it.

2. <u>ESTABLISHMENT OF A LEGITIMATE STEWARDSHIP</u> PROGRAM

The Brook Proposal initially calls upon the Board to establish:

a legitimate product stewardship program by: Implementing immediate moratoriums on sales and withdrawals from the market of Furadan, and any other FMC pesticide, where there is documented misuse of products harming wildlife or humans, until FMC effectively corrects such misuse;

i. There is no substantial implementation of a product stewardship program within the FMC Corporation

FMC claims that it has a "longstanding product stewardship program that is endorsed by executive management." The problem is that what FMC calls a "stewardship program" and what the proponent calls stewardship are two very different things. FMC has not provided one written policy or procedure in its materials signed by or endorsed by executive management. If it is so longstanding, one would have thought that the FMC could have written it down and provided a copy to the SEC. How can FMC dispute the request to establish a "legitimate" stewardship program, if it has never taken the time to actually get executive management to formally endorse it's "stewardship program" in writing? How can FMC argue that it has such a "legitimate" stewardship program when it has not ever produced a single policy or procedure in its submitted materials to the SEC to prove this is a real program and that it actually works? While certain people at FMC may be interested in these issues, without some formal endorsement by the Board and management there can be no effective and consistent corporate stewardship. materials submitted as exhibits seem to indicate that it calls safe product use by it employees and farm workers as "product stewardship." This does not address issues such as preventing intentional misuse or properly documenting the reasons for that misuse. Adoption of the Brook Proposal would be the first time that FMC actually established these stewardship steps.

In order to attempt to understand what FMC is actually saying publicly about its stewardship programs, a quick look at its own website is insightful. It appears that based upon FMC's own representations on its website that its "stewardship" program consists of a one page explanation²⁹ and it only relates to Furadan. Its "performance metrics, product stewardship³⁰

²⁹ http:// http://www.furadanfacts.com/CommitmenttoStewardship/tabid/3809/Default.aspx

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page provides nothing about any FMC programs, but it does provide references to a group called the American Chemistry Council, which is an unrelated business entity. This is not an FMC program.

FMC states that it recently created the position of Global Product Stewardship Manager. (P. 5, Paragraph 1) This is a positive step, but it does not mean that FMC has implemented the specifics of the Brook Proposal, since there is no information as to the details of the role this person will play or if that single person has a budget to perform any work and/or who they report to and what is done with their recommendations.

FMC has stated that it established the "Stewardship Network at FMC in June 2009. (P. 5, Paragraph 2) That's nice, but since 2009, what reports have they prepared and what recommendations have they made? The submittal by FMC is devoid of any documents to demonstrate that this "network" is operational or that it functions with any corporate funding or guidelines. Could it be so "informal" that they have not gotten around to preparing any reports, yet? FMC states that this "network" facilitates direct reports to USEPA of adverse effects from pesticides. This activity is not voluntary, as FMC is mandated by federal law to report all such incidents as required by the Federal Insecticide Fungicide and Rodenticide Act, so that can't be called FMC's program and it has nothing to do with the substance of the Brook Proposal.

FMC states that it has withdrawn sales of Furadan in Kenya and other parts of Africa. Nevertheless it argues that there is no proof that the misuse of Furadan was the cause of lion poisonings. That action is inconsistent. The Brook Proposal calls for FMC to act where there is "documented misuse" which means that FMC would devote resources to identify what caused a death and whether it was caused by an FMC pesticide. FMC currently has no means nor has it devoted resources to objectively identify these animal and human deaths and injuries. The Brook Proposal calls for moratoriums on sales and withdrawals of Furadan, and any other FMC pesticide, where there is documented misuse of products harming wildlife or humans, until FMC effectively corrects such misuse. (Emphasis added.) FMC is only admitting or addressing that it has or may have a problem with Furadan only. The Brook Proposal has been written to establish corporate actions to address all pesticide products, not just Furadan. As discussed within, there are new allegations that other FMC products, namely Marshal, is being intentionally misused and FMC currently has no mechanism in place to identify or address this issue proactively. These differences alone, with FMC just looking at one pesticide versus all of them in the Brook proposal demonstrates that FMC has not substantially implemented the Brook Proposal

The differences between what FMC has done and what the Brook Proposal calls for are many. FMC admits that it withdrew Furadan even though it argues there was no "connection" between Furadan (carbofuran) and the death of the animals. Why? Does FMC know more than it is telling or could one argue this is not sound policy to act without any objective information. The Brook Proposal calls for action when there is "documented" misuse, which requires better information gathering, testing, necropsies, etc., by FMC or its agents. FMC has been informed that Marshal (carbosulfan) is allegedly being misused for intentional poisonings in Kenya, yet FMC has done nothing that the proponent is aware of to investigate and document this potential

³⁰ http://www.fmc.com/AboutFMC/ResponsibleCare/PerformanceMetrics/ProductStewardship.aspx

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misuse³¹. Marshal is still readily available in Kenya, Tanzania and Uganda and while it is not as potent as Furadan, it is still sufficiently deadly and can still be utilized for intentional poisonings.

The Brook Proposal covers all FMC products, FMC's program does not. There was an identified poisoning death of a 3 year old child in Kenya from Furadan ingestion, on or about October 26, 2009³². FMC makes no mention of humans in its materials, but the Brook Proposal would cover stewardship addressed to protecting wildlife as well as humans. Most importantly, one more distinction between what FMC claims to be doing, is that the Brook Proposal would establish corporate criteria to maintain moratoriums, until FMC "effectively corrects" such misuse. FMC has no such policy and while FMC claims it has stopped sales in Kenya, Tanzania and Uganda, there are reports that Furadan is still available in neighboring countries³³. Also, see Exhibits 7 and 8 within the attached exhibits.

ii. There is no substantial implementation of a product stewardship program on the ground in Africa or elsewhere.

As an initial example of that wide gap between FMC theory and reality as to substantial implementation, the following statement prepared by Dr. Laurence Frank, Director, Living with Lions, Museum of Vertebrate Zoology, University of California is provided for some background information about what is really happening on the ground in Africa, enclosed as Exhibit 7. Dr. Frank has been involved with predator biology and conservation issues in Kenya for over 40 years and he has authored 79 scientific papers and 10 articles specifically on the biology and conservation of African predators. He regularly travels to Africa for research. Dr. Frank has identified that today, the greatest threat to large predators in Africa is from retaliatory killings and Furadan is still the leading intentionally misused poison for that purpose. He describes an incident as recently as January 2, 2011, on the Tanzania side of the Kenyan border whereby Furadan was used to kill a female lion and later one male lion.

This death by Furadan issue is not new and he has met with FMC as far back as 2003 to try to convince the company to stop sales and better control this problem. He indicated that nothing changed until CBS 60 Minutes ran an episode about lion poisonings in 2009. His own belief is that Furadan is still available in Tanzania, contrary to what FMC has stated. While FMC denies that Furadan is being used, the few people who are getting caught and the others who speak about their poisonings are confirming that they are using Furadan to continue this sad destructive cycle of death. (Please be aware that the photographs included of these poisonings may be disturbing to view.)

While Dr. Frank is involved with large predatory mammals, Mr. Martin Odino, is involved primarily with birds in Kenya. Martin has his Bachelor of Science Degree in Zoology and he has spent the last four years on the ground in Kenya researching bird poisoning incidents

Lion Poisoning Incident Report, dated April 22, 2010 and Wildlife Direct Press release, dated May 13, 2010, enclosed as Exhibit 2, was provided to FMC by the proponent.

www.youtube.com/watch?v=u0HhYK4oK0w

See, Wildlife Direct article from November 20, 2010 discussing origins of Furadan from Uganda at: http://stopwildlifepoisoning.wildlifedirect.org/

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and the role of Furadan in these continuing events. Martin's statement as to his experiences is enclosed as Exhibit 8. It becomes apparent after reading his observations directly from Kenya, that whatever FMC may be telling the press and/or the SEC, that its "stewardship" program is not actually working on the ground in the place where it claims to have a handle on the problem. Martin's in-person recent (January 2011) observations confirm that Furadan is still readily available and it is the poison of choice by poachers who are using it to kill larger waterfowl birds, presumably for human consumption. One can only imagine what is happening on the ground in places where FMC has never been confronted by the press or active concerned citizens.

Dr. Frank's statement and Mr. Martin Odino's statement truly show a dysfunctional FMC product stewardship program on every level in the field. So one can only ask the questions. Does FMC actually have any stewardship program on the ground in Kenya or anywhere? If there is any FMC stewardship program, what are the actual components of it? If Furadan continues to be used to poison wildlife, can anyone state that a supposed moratorium on sales is even working? Since poisonings are continuing in 2011, then what part of this "stewardship" program is working better now, than in 2003? What report and knowledge of this 2011 event is even known at FMC? If, as claimed by FMC, there was an effective moratorium on the sale and a buy back program for Furadan, why is it still showing up in 2011? What can be said about the success of the buyback program by FMC? What efforts has FMC made to address what appears to a thriving possible Furadan black market program? Has FMC ever conducted an audit of its sales and its inventories and its buyback program to determine if it ever got its outstanding stocks of Furadan back? Does FMC even know what stocks of Furadan it sold or is selling in these countries? Is the FMC distributor acting honestly?

Dr Frank's and Mr. Martin Odino's statements raise more questions than answers, since if FMC actually had a substantially implemented product stewardship program there would be actual answers to these questions and a working program to stop all of these continuing senseless killings.

FMC raised some other matters that it claims have a connection to product stewardship. It mentioned "Vision 2015." (P. 6, Paragraph 3) Proponent reviewed this document online, which appears to have been released on or about December 2, 2010, and cannot identify any item related to stewardship. This document appears to be a glossy business marketing plan with no focus towards product stewardship.

FMC has provided two attachments listed as exhibits C³⁴ and D, and it has suggested that it enhances its stewardship programs, but these are only employee internal safety documents and while they are good for employees, the Brook Proposal is focused on how FMC establishes a credible stewardship in the real world, not at its production facilities. There are no lions

It should be noted that FMC erroneously placed the last page of its Exhibit "H" at the end of Exhibit "D" which happens to be the "Conclusion" by EPA which openly states that "Taken together data from incidents reports and the available field studies do demonstrate that when carbofuran is used as currently registered, adverse effects in wildlife can and do occur in field conditions. Including: Mortality, Sublethal effects, Incapacitation, Reproductive effects."

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jeopardized with poisoning at FMC facilities. FMC Exhibits E, F and G appear to be safety training for applicators, more than what one would consider stewardship issues.

FMC has provide its Exhibit "L" and suggested that its shows the "permissible levels of carbofuran residues in hundreds of different types of foods" by the European Union. I am not an expert, but I do notice that all of these foods listed, except citrus and oilseeds have a little "star" notation next to them. That star definition at the top of the page appears to indicate that the level set is the "lower limit of analytical determination." What I think that means is that if any level registers in a test of for example almonds, then it is unacceptable and would be banned. At a minimum, without a better explanation, this information and claims by FMC may be misleading to the reader. The SEC is directed to The European Commission Decision and an appeal decision, referenced in the Brook Annotated Proposal (footnote 6) which concludes with "Carbofuran should therefore not be included in Annex I to Directive 91/414/EEC³⁵. EEC Directive 91/414, Annex I, is a list of substances that are allowed in plant products. It would appear that based upon the Decision of the European Commission that carbofuran is not allowed as an Annex I chemical. The conclusion is that no carbofuran is allowed in foods in Europe.

3. PREPARATION OF AN ANNUAL STEWARDSHIP REPORT

The Brook Proposal calls upon FMC to further implement the product stewardship program by:

Preparing and publishing, at reasonable cost, excluding propriety information, a product stewardship report by October 2011, and annually thereafter, addressing all documented product misuses worldwide since 2005 and proposing changes to prevent further misuse including: working with foreign governments in training and educational programs, licensing applicators, restricting access, incorporating bittering agents and funding programs to prevent loss of livestock and wildlife;

FMC cannot claim that it has ever begun to implement any component of this portion of the Brook Proposal. FMC management and its shareholders have no baseline of information to determine what is happening with its pesticide products worldwide. The first way to find out is to identify what incidents and events have occurred and where they have occurred and what pesticide was involved in order to understand the scope of any problem. This proactive approach to product stewardship has never been presented to management by management or the shareholders. FMC cannot argue that it has substantially implemented this component of the proposal since it has never produced any report of this type. But the most important part of this section of the Brook Proposal will be the ability of FMC to identify trends and other issues and to devote resources to "proposing changes" to prevent further misuse, something for which there is no currently organized corporate approach. This reporting would also provide information

See, European Commission, SANCO/10054/2006 final, September 7, 2007, http://ec.europa.eu/food/plant/protection/evaluation/existactive/list_carbofuran.pdf as a review of 2007/416/EC, dated June 13, 2007 http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=OJ:L:2007:156:0030:0031:EN:PDF

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which is not being reported to EPA, since it would include all incidents without setting minimum dead animals and it would include pesticides not registered in the United States. (See, footnote 20.)

Staff, as discussed in the Lowe's Companies, Inc. ("Lowe's) (Avail. March 21, 2006) decision, has rejected numerous no-action requests based on Rule 14a-8(i)(10) where companies have taken far more significant steps towards implementation of a proposal than FMC actually has suggested it has in this case. See, e.g., The Coca-Cola Co. (Jan. 19, 2004) (Provision of information relating to stock option grants by race and gender to a third party, resulting in public report, insufficient where shareholders sought direct access to data); 3M Company (March 2, 2005) (requesting implementation and/or increased activity on eleven principles relating to human and labor rights in China not substantially implemented despite company's comprehensive policies and guidelines, including those that set specific expectations for Chinabased suppliers); The Dow Chemical Company (February 23, 2005) (Proposal seeking report relating to toxic substances not substantially implemented by a public report that fails to address core concerns raised by the Proposal, and where several statements were materially misleading). ExxonMobil lost two challenges despite its claims that it had reported extensively on the topic of the proposal (ExxonMobil (March 24, 2003) and ExxonMobil March 17, 2003)). (Pages 29-30.) See, also, DeVry, Inc., (Avail. Sept. 25, 2009), Staff refused to exclude a proposal by the People for the Ethical Treatment of Animals, where even though veterinarian hospitals had some procedures in place, the nature of the proposal and the details which it sought to implement were sufficiently different to sustain a substantially implemented exclusion argument.

4. <u>ENHANCED CREDIBILITY THROUGH INDEPENDENT</u> REPORT PREPARATION

The Brook Proposal finally adds one more layer of credibility to the stewardship program by:

"Establishing an independent scientific advisory panel to prepare these reports;"

FMC argues that it has created its "Sustainability Council" and that this group will perform some independent role in the company's operations. While this step is commendable, there is no indication in the FMC materials that this group would play any role in what the Brook Proposal is calling for, which is preparing the annual reports on product misuse. The name "Sustainability Council" itself raises questions as to what its role might be as it relates to product misuse, since sustainability has nothing to do with the issues raised by the Proponent. FMC has also provided no charter or mission statement for this group, so one can only guess as to what purpose this group will or will not serve.

The objectivity of FMC's membership on this "council" could be questioned, since FMC admits providing "significant financial support" (P. 7 Paragraph 3) to at least one organization, Panthera and then it appoints it to this "independent" council. First it appears that this council meets only every six months, and there is no independent oversight. What can it get done if it meets every six months? Second, FMC fails to indicate how it intends to take the information gathered or whether it can simply decide to reject the findings if it doesn't like them. The Brook Proposal will have transparency in its structure, since FMC will agree to retain independent

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advisors, no differently than when it hires outside auditors to perform financial and other reviews. This suggestion that "Sustainability Council" will be independent and prepare reports as envisioned by the Brook Proposal is structurally flawed and FMC cannot even begin to suggest that it has anything to do with implementing this component of the Brook Proposal.

FMC's position with regard to the annual report and the independent preparation is also not unlike the decision in *Lowe's Companies, Inc.* ("Lowe's) (Avail. March 21, 2006) whereby proponent requested Lowe's to, "issue an annual report to shareholders ... reporting its progress toward implementing the company's wood policy." Lowe's argued that it had substantially implemented the proposal since it had prepared the "Lowe's Wood Policy Status Report," which it argued had substantially implemented the proposal. Staff disagreed and refused to exclude the proposal.

Proponent, Domini Social Investments, argued with many parallels, that, "As discussed above, the Company's Status Report consists of anecdotes, misleading information, and numerous material omissions. When the Supporting Statement of the Proposal's request for a "company-wide review" is considered, the Status Report also falls considerably short of the mark, providing no quantifiable data on any of the recommended indicators." (Page 28) In Lowe's, there was at least some Company wide report, but with FMC, there has never even been an attempt to prepare any type of report as envisioned by the Brook Proposal. In Wendy's International (February 21, 2006), a proposal filed by the Proponent sustained a challenge under Rule 14a-8(i)(10) when Proponent argued that the proposal's request for a "company-wide review of policy, practices and indicators related to measuring long-term social and environmental sustainability" had not been performed, despite the publication of the company's corporate social responsibility report. Similarly, in Kimberly-Clark Corp. (January 30, 2006), existing company disclosure, materially better than Lowe's disclosure and FMC's nondisclosure, it could not render the proposal moot, as the Company's disclosure contained misleading information, and no evidence of the specific study requested by the proposal. These cases support proponents position that even if FMC could show it had some independent review (which it does not) that it is not sufficient to exclude the Brook Proposal.

5. <u>ESTABLISHMENT OF HUMAN EQUALITY</u> <u>DECLARATION INTO FMC CORPORATE</u> <u>RESPONSIBILITY PRINCIPLES</u>

The last component of the Brook Proposal provides for:

"Incorporating in the FMC Corporate Responsibility Principles a human equality declaration stating that FMC will treat third world people no differently than Americans as it relates to U.S. pesticide exposure limits."

Simply stated, there can be no suggestion of substantial implementation of this proposal by FMC, since FMC admits that it has no such corporate responsibility principle and there is no actual or anticipated implementation of this proposal by FMC. This component of the Brook Proposal is therefore fully appropriate for presentation and discussion by the shareholders as to its appropriateness for adoption by the Board.

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FMC has made a series of arguments that it operates under the FAO Code of Conduct and is a member of the American Chemistry Council and that the company has a Code of Ethics. These are all good things. It should be noted that the FAO Code of Conduct is strictly voluntary and there is no enforcement of it. Regardless, as that saying goes about comparing apples and oranges, the Brook Proposal is different, it has not been substantially implemented, therefore the SEC should not concur with FMC's request to exclude this provision.

6. THE MEETING WITH FMC CORPORATE OFFICERS

In an effort to avoid involving the SEC and in the interest of compromise the proponent met with officers of FMC at their Headquarters on December 9, 2010, specifically with Ms. Andrea Utecht, Vice President, General Counsel and Secretary; Milton Steele, Vice President and General Manager Agricultural Products Group; Michael F. Reilly, Assistant General Counsel and Linda W. Froelich, Manager, Global Product Stewardship. The meeting, which lasted approximately two and one half hours involved an open discussion about FMC's efforts at product stewardship and the proponents efforts to convince FMC to support the proposal. The discussion covered a wide range of topics and while FMC argued it had established these programs, it could not articulate how it had actually implemented them in Africa and other places where allegations of product misuse is occurring. FMC offered to work with the proponent to establish this written defined policy if proponent agreed to withdraw his proposal. The meeting ended with a positive belief on the part of the proponent that FMC would agree to adopt the substance and principles of the Brook Proposal, after negotiating the language, if the proponent would withdraw the proposal.

FMC's Andrea E. Utecht, Vice President, General Counsel and Secretary sent a letter detailing what it proposed, enclosed as Exhibit 6. The FMC proposal was a little light on details. When proponent developed an objective and verifiable approach to product misuse and submitted to the FMC, it was rejected, twice, without even the offer of discussing alternate language. While no program is without improvement, this proposal would have established a clearly defined credible stewardship program at FMC. Management's failure to even negotiate wording changes indicates that FMC has not even partially implemented what the proponent believed embodied a credible stewardship program. While FMC maintained that the scope of the proposed stewardship outline exceeded the shareholder proposal, Management never even discussed one single point of it.

As can be seen in this draft, FMC agreed that after the meeting that, "we have determined that we have mutual interest in finding ways, where feasible, to improve the current practices used to investigate and report potential misuse events in developing countries. In particular, both parties agree there is benefit to be derived from having a more formalized, objective system, whereby such incidents may be investigated by an independent party, with the results both verified in reputable labs using appropriate protocols and reported accurately to interested parties. ³⁶" (Emphasis added.) The response by the proponent and suggestions for detailing how to implement a better system of stewardship was then provided to FMC, via emails ³⁷.

Ouote from original letter by FMC's Andrea E. Utecht.

The emails which were exchanged are also included.

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Apparently FMC then determined, either these ideas might work and/or it was unwilling to commit to establishing a more objective program which is envisioned in the Brook Proposal.

If FMC had substantially implemented any components of this proposed compromise, as it has suggested in its letter, one would have thought that it would have at least brought these up as part of this negotiation. It did not. This shows that while FMC claims to have a robust stewardship program, when it came time to pin the corporation down on the specifics of a detailed process, there was an unwillingness to commit to defined components of any plan. A copy of this draft settlement letter for proper implementation of this Stewardship Plan by proponent is enclosed as Exhibit 6.

FMC also failed to provide a copy of this proposal to the SEC and even though it was a draft, proponent maintains that it is still "communications" as defined by the SEC rules and should have been provided by FMC as part of its obligation to disclose all communications and to give a flavor for FMC's approach to these issues. There was never any agreement by the parties to consider this or any other communication "confidential," so it sheds light on how little FMC is interested in a legitimate product stewardship program, since many of these proposed steps would substantially enhance its ability to better manage alleged misuse incidents.

B. THE INFORMATION PROVIDED IN THE BROOK PROPOSAL IS TRUTHFUL AND IT IS NOT FALSE OR MISLEADING

FMC has devoted substantial resources, almost seven pages, of its letter arguing that the Brook Proposal should be excluded under Rule 14a-8(i)(3) since it alleges that the proposal and the supporting statement are materially false and misleading. Nothing about the Brook Proposal is materially false or misleading. FMC raises one complaint about the actual proposal and twelve about the supporting statement. Knowing that any issue relating to Furadan and its use and misuse is controversial, proponent on December 9, 2010, provided FMC with an annotated version of the proposal complete with 16 footnotes and over 30 sources of reliable information to support each statement. A Copy of the Brook annotated shareholder proposal is enclosed as Exhibit 1. While a few comments should be made as to FMC's remarks, and rather than address every challenged statement, and be sure that I can, proponent relies upon Staff's current guidance on this issue from Staff legal Bulletin No. 14B, ("SLB 14B") dated September 15, 2004. Rule 14a-8(i)(3) as interpreted by Staff prohibits a company from moving to exclude a proposal merely because it objects to factual assertions. As Staff has noted in Bulletin 14B, a company's statement in opposition to the proposal is the proper forum for disputing the facts. The Bulletin states:

Accordingly, we are clarifying our views with regard to the application of rule 14a-8(i)(3). Specifically, because the shareholder proponent, and not the company, is responsible for the content of a proposal and its supporting statement, we do not believe that exclusion or modification under rule 14a-8(i)(3) is appropriate for much of the language in supporting statements to which companies have objected. Accordingly, going forward, we believe that it would not be appropriate for companies to exclude supporting statement language and/or

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an entire proposal in reliance on rule 14a-8(i)(3) in the following circumstances:

- the company objects to factual assertions because they are not supported;
- the company objects to factual assertions that, while not materially false or misleading, may be disputed or countered;
- the company objects to factual assertions because those assertions may be interpreted by shareholders in a manner that is unfavorable to the company, its directors, or its officers; and/or
- the company objects to statements because they represent the opinion of the shareholder proponent or a referenced source, but the statements are not identified specifically as such.

We believe that it is appropriate under rule 14a-8 for companies to address these objections in their statements of opposition.

As SLB 14B confirms, the supporting statements in the Brook Proposal are not the kind of statements that are subject to the exclusions under Rule 14a-8(i)(3). FMC generally objects that the statements are not supported, materially false, misleading, or unsubstantiated and these are exactly the grounds that SLB 14B addresses as not appropriate for exclusion. Therefore the company's forum for addressing its concerns should be in its opposition statement.

As to FMC's comments on the Brook Proposal relating to a declaration of human equality, it appears that FMC completely misunderstands the basis for this proposed principle. There is no intent to impugn or judge FMC's current activities. This portion of the proposal is meant to fill a void and begin to establish an additional component of the FMC's Corporate Responsibility Principles. In the absence of any action, which is the case, there is no implied value placed upon FMC and FMC seems to misunderstand this issue as a Furadan issue, when it is meant to open a discussion over all products and how the company should best operate uniformly in the international marketplace.

As to each of FMC's other objections, proponent has supplied outside sources of information for each of the statements provided in the Brook Proposal, but a brief reply may be helpful. FMC seems to object to every source of information, recognizing that the proponent simply identified sources of information, including the United States Environmental Protection Agency, which was the source for a number of statements. FMC is also splitting hairs as to other issues raised as to the United States and Europe "banning" residues of carbofuran in foods. EPA has eliminated tolerance levels in domestic foods, that means zero carbofuran levels in domestic foods. FMC admits that EPA did "revoke all domestic carbofuran tolerances." That is a ban. The European Union performed the same basic function. It is not understandable as to why FMC is objecting. The statement about "millions" of migratory birds being unintentionally poisoned was taken from a number of sources, including, EPA and directly from a study report by Pierre Mineau, PhD³⁸, a world renown avian pesticide expert. The number may have been

See, <u>Direct Losses of Birds to Pesticides – Beginnings of a Quantification</u>, Pierre Mineau, USDA Forest Service Gen. Tech. Rep. PSW-GTR-191, 2005. http://www.fs.fed.us/psw/publications/documents/psw_gtr191/psw_gtr191_1065-1070_mineau.pdf
Pierre Mineau, PhD. is a Senior Research Scientist in Pesticide Ecotoxicology National Wildlife

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low, during the peak of the use of Furadan in the United States. See also the American Bird Conservancy's fact sheet on Carbofuran, which stated that the EPA's estimate was up to 2 million birds a year were killed by carbofuran³⁹. This information was provided to FMC as part of the annotated Brook Shareholder Proposal. FMC has stated that its Exhibit "H" shows that less than 11,000 migratory birds have been affected by Furadan. The proponent has read FMC Exhibit "H" twice and cannot find any reference to this number.

FMC must be joking when it argues over the statement about unrestricted sales in third world countries. The 60 Minutes episode clearly shows their reporter, Bob Simon, going into an Agrovet store, in an undercover fashion and buying Furadan, no questions asked. As to irresponsible use, this information was heavily footnoted in the Brook Proposal and the focus of the 60 Minutes report was on the misuse of pesticides, including Furadan to poison lions. FMC has actually supplied an official copy of the laboratory analysis of the Republic of Kenya, Government Chemist's Department as its Exhibit "K" which confirmed that "carbofuran (furadan)" was detected in the stomach contents of a lion and a hippopotamus. If FMC does not agree with the Government of Kenya, that is between it and the government.

As to Marshal, FMC was provided with allegations that Marshal is being misused. The Proponent simply transmitted this information and annotated it in his proposal. FMC admits the problem has spread to other countries, since allegations were made which ultimately later led in 2010 to it stopping the sale of Furadan in South Africa. As to jeopardizing reputation and profitability, does FMC enjoy receiving bad press and does bad press help its reputation and profitability? The answer certainly cannot be "yes."

FMC states that Furadan is "heavily regulated in worldwide markets" and it sells only to licensed distributors. (P. 15, Paragraph 4) What FMC fails to disclose is that unlike the United States, where only licensed applicators are able to purchase Furadan (and other restricted use pesticides) in much of the rest of the world's under-developed countries, like Kenya, Uganda, and Tanzania, there are no licensed applicators, so the prerequisite to purchase, is money, not training or some demonstration of competence in understanding the serious dangers of handling these poisons.

FMC states that proponent misrepresented information as to the unrestricted international sale of Furadan and cites to and includes the "document that proponent refers to substantiate this claim, attached hereto as Exhibit M." (P 15-16) It is curious that FMC has now acknowledged that it read the annotated version of the Brook Proposal, since this was the only location for this source provided to FMC, yet FMC has failed to inform the SEC and failed to attempt to refute all of the other citations provided in the Brook Proposal. As to this citation, FMC is in error, this citation was referring to the fact that Furadan is not just creating harm in far away countries, as evidenced by the reference to this article mentioning threats to wildlife, not just in Kenya but also South Africa and Uganda. (Page 2, first new paragraph of its Exhibit "M".) The statement made by the proponent is supported by this article.

Research Centre, Science and Technology Branch, Environment Canada & Adjunct Research Professor, Department of Biology, Carleton University

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FMC also argues that the proponent's use of an article about human deaths from exposure to carbofuran (Exhibit N) was materially false since it was not FMC's product that killed these people. While the proponent is not aware of whether FMC sells its products in Senegal, the basis for the proponent's statement is still valid. The Brook Proposal asks FMC to acknowledge a basic human principle of equality and FMC cannot argue that its sale and distribution of Furadan and many other pesticides is handled completely differently in "third world countries." If this term is not understood, then proponent would be more than happy to amend its proposal to change this to "undeveloped" or "underdeveloped" countries. The policy issue is still the same, in these undeveloped countries FMC allows for greater opportunity for poisonings and other misuse towards people and wildlife than the way it treats people in the United States to potential exposures to these same products. Not everyone may agree with this policy proposal, but the merits should be decided by no one other than the shareholders.

That last issue relates to that morning cup of coffee, something near and dear to many of us. FMC admits in its own materials that it succeeded in overturning the USEPA tolerance revocation for residues of carbofuran in four imported foods, including coffee, that is why "it is possible that residues of it were in your morning coffee." (Emphasis added.) This is a truthful and accurate statement. See, footnote number 19.

C. THE BROOK PROPOSAL DOES NOT DEAL WITH MATTERS RELATING TO FMC'S ORDINARY BUSINESS OPERATIONS

FMC has broadly argued that the Brook Proposal should be excluded, under Rule 14a-8(i)(7) stating that it could be burdensome and "not in furtherance of any investor related determination." FMC has not elaborated on its claims, nor explained why it believes that the Brook Proposal is of a nature that it involves the company's ordinary business operations. FMC has cited to many prior matters, but it has failed to articulate how the Brook Proposal involves the day-to-day ability of management to run the company or how the proposal seeks to micromanage the company such that it justifies its exclusion. Proponent maintains that since FMC has failed to make a coherent argument discussing the two prong test involved in analyzing activities constituting (or not constituting) the company's ordinary business operations, that the SEC should summarily reject FMC's request.

Proponent relies upon Staff's guidance as the basis for interpreting and distinguishing proposals that involve the company's ordinary business operations and those that do not. Staff Legal Bulletin No. 14A, July 12, 2002 ("SLB 14A") and Exchange Release No. 34-40018, May 21, 1998 ("ERN 40018") both discuss what types of proposed activities may involve ordinary business operations. Initially, to paraphrase both SLB 14A and ERN 40018, proponent maintains that the substance of the Brook Proposal does not involve the day-to-day activities of FMC, like workforce, hiring or production, nor would the proposal act to micro-manage the company. Proponent maintains that the Brook Proposal raises sufficiently significant social policy issues and would not be excludable, because the subject matter transcends the day-to-day business matters and raises policy issues so significant that it would be appropriate for a

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shareholder vote. The subject matter of the Brook Proposal includes credible establishment of an FMC product stewardship program, the objective reporting on product misuse, proposed changes to prevent misuse and it proposes an addition to the FMC Corporate Responsibility Principles to add a human equality declaration.

Extinction is a word that all to often today involves some form of human failure. The continued use and misuse of Furadan and other FMC pesticides, may be contributing to the extinction of lions in Africa and certain Salmon species in the United States. Extinction is forever. The question to the shareholders is whether FMC is doing enough to properly steward its products? Can and should FMC take new definitive actions to investigate misuse and stop it? What is the proper role of a corporation when it makes products which may be contributing to the loss of species across the planet? How can a chemical company which purposefully manufactures poisons, take steps to act honestly and build trust and its reputation by acting responsibly in the international community in which it operates? What is the role of a chemical manufacturer to treat all people equally when it comes to potential human exposures in the handling of it products and in the foods that people across the world consume?

The Brook Proposal, directly and indirectly asks the shareholders, management and the Board to consider and to debate <u>all</u> of these issues. These are significant social policy issues. The Brook Proposal is one possible answer to some of these questions. Proponent maintains that the Brook Proposal raises sufficiently significant social, environmental and human rights issues such that there can be no justification for excluding it under the Rule 14a-8(i)(7) exclusion.

The Brook proposal raises completely different issues than the cases cited by FMC. Coca Cola, Co., Marriott International, Inc., Walmart Stores, Inc., and Walgreen Co., all involved proposals which attempted to directly impact consumer marketing decisions. The Lowe's and Home Depot cases again dealt with direct marketing of products and there is really no comparison with the social importance of glue traps or soda to the issues raised in this matter.

If one were to examine a case with parallels, it would be *Devry, Inc.*, (Avail. Sept. 25, 2009) whereby People for the Ethical Treatment of Animals ("PETA") submitted a proposal to enact a policy prohibiting all medically unnecessary surgeries [on animals.] While Devry argued that the proposal implicated ordinary business, PETA, argued that the issues which its proposal raised transcended the day-to-day business operations and that it raised policy issues so significant that it would be appropriate for a shareholder vote. PETA cited to the *Wyeth* decision, (Avail. Feb 4, 2004,) *Wendy's Int'l* (Avail. Feb. 8, 2005) *Hormel Foods Corp.* (Avail. Nov. 10, 2005) and *Woolworth Corp.* (Avail. April 11, 1991) as support for its position as does the proponent. Staff was unable to concur that Devry could exclude the PETA proposal under Rule 14a-8(i)(7.) Staff in this matter should draw the same conclusion and allow the Brook Proposal to proceed.

III. CONCLUSION

The Brook Proposal offers an opportunity for FMC to establish a real product stewardship program. While FMC has made numerous statements about the broad extent of its

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"stewardship" programs, the problem is that other than providing glossy colored papers and some crisis generated decisions, it has failed to demonstrate that it even has a single actual functioning program or person on the ground in Africa (or other continents) taking defined steps to ensure that its pesticides and chemicals are not misused for poisoning animals or people. FMC has no written policies or procedures which it has provided to the SEC (or to Proponent) which detail how it actually deals with the issues which have been raised in the Brook Proposal.

How can FMC claim that it has this problem under control when it has failed to even accurately define the problem and it has failed to provide a single document which shows that it has actually put in place what it is so good at talking about? Most significantly, the two statements by Dr. Frank and Martin Odino speaks volumes about the lack of any product stewardship program controls on the ground in Africa. Unfortunately, the proof is in the poison and the poison, Furadan is continuing to be available and be used for the unnecessary slaughter of African wildlife. Since FMC has not substantially implemented the Brook Proposal, the SEC should refuse to concur that FMC may exclude the Brook Proposal on the grounds that it has been substantially implemented.

FMC has also misdirected the focus of this issue by presenting arguments to suggest that the Brook Proposal and mostly the supporting statement provides materially false and misleading information. As demonstrated in the annotations and other supporting documents, the information provided in the Brook Proposal is accurate and truthful. In this situation, the SEC should follow SLB 14, refuse to exclude and encourage FMC to address its objections in their statement of opposition.

Finally as to the FMC argument that the Brook Proposal relates to its ordinary business operations, FMC has failed to substantively argue the two prong test as established by the SEC. This is sufficient grounds for the SEC to reject FMC's request. But, in addition the Brook Proposal raises sufficiently significant social issues such that the subject matter transcends the day to day business matters by raising significant policy issues, such as wildlife poisonings, possible extinction and human equality principles which are so significant that it would definitely be appropriate for the shareholders to decide.

The Brook Proposal, if allowed to proceed to the shareholders, will help make FMC a better corporation. The importance of this proposal is twofold. First, it will mark a new beginning in the way that FMC acts to more credibly manage the full life cycle of its pesticide products in a fashion that will ultimately improve the use, as well as avoiding the misuse of these products. Second, it will hopefully allow FMC to question its operations and question prior management decisions, in the hopes that the corporation will stop fighting everyone who suggests that doing the "right" thing is as important, if not more important than just corporate profits. The question that the FMC Board of Directors, Management, all of its employees and ultimately its shareholders should ask themselves is simply, "What do I say to my wife, my husband, my children and my grandchildren when they ask me if I worked for (or held stock in) that company that killed the lions or took definitive steps to save the lions?"

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Please help those who want to give the lions and other threatened wildlife their "voice" at the annual meeting of the Board of Directors by rejecting FMC's request to exclude the Brook Proposal.

Should Staff request any additional information, clarifications or wording changes to the Brook Proposal please let me know, so that I may follow your direction. If transmittal of your determination is possible via email, that would be the simplest means of delivery sent to ***FISMA & OMB Memorandum M-07-16***

Respectfully Submitted,

David Brook

Cc: Ms. Andrea Utecht, General Counsel FMC 1/24/11 1:47 PM

Shareholder Proposal by David Brook Product Stewardship and Human Equality: FMC Corporation

INDEX OF REFERENCED EXHIBITS

- 1. Annotated David Brook Shareholder Proposal, dated, December 9, 2010.
- 2. Lion Poisoning Incident Report in The Masai Mara, dated, April 22, 2010, and Wildlife Direct Press release, dated May 13, 2010.
- 3. EPA Carbofuran Cancellation Process Cover Pages, dated, November 2010.
- 4. State of Connecticut Press Release, dated, December 10, 2010.

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- 5. Transcript of CBS's 60 Minutes report: "Poison Takes Toll on Africa's Lions", dated, July 25, 2009.
- 6. The Draft New and Improved Stewardship Proposal letter from FMC with proposed revisions by David Brook, with email correspondence included, dated, December 2, 2010 through December 21, 2010.
- 7. Statement by Dr. Laurence Frank, PhD., Use of Furadan to Eliminate Lions and Other Carnivores in Kenya, dated, January 23, 2011.
- 8. Statement by Martin Odino, Use of Furadan for Wildlife Poisoning in Kenya, dated, January 23, 2011.

DECEMBER 9, 2010 - ANNOTATED VERSION- by David Brook

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IMPROVING FMC's PRODUCT STEWARDSHIP PROGRAM AND CORPORATE RESPONSIBILITY PRINCIPLES

FMC's Furadan insecticide is killing more than just insects¹. Furadan (carbofuran) is being used to intentionally kill large mammals such as lions in Africa². Millions of migratory birds in South and North America have been unintentionally poisoned by Furadan³. Even America's national symbol of freedom, the bald eagle, has been poisoned by Furadan⁴. USEPA banned all carbofuran residues in domestic foods, effectively prohibiting its use in America on December 31, 2009⁵. The European Union banned residues in foods in 2007⁶.

While Furadan use is restricted in the United States, FMC has allowed its unrestricted international sale in corner stores in many third world countries⁷. Anyone can buy it for a few U.S. dollars⁸. Furadan is not just creating harm in far away countries⁹, in the U.S., carbofuran has been

See, National Marine Fisheries, Endangered Species Act Section 7 Consultation, Biological Opinion, dated April 20, 2009, for the loss of Pacific Salmon, www.nmfs.noaa.gov/pr/pdfs/carbamate.pdf - 2009-04-21, Page 481-482 for conclusions on impacts of continued registration of carbofuran. See, USEPA Interim Reregistration Eligibility Decision for Carbofuran, August 3, 2006, EPA-738-R-06-031. See, USEPA Reregistration Eligibility Science Chapter for Carbofuran, March 7, 2006, EPA-HQ-OPP-2005-162-0080. See, Evidence for Revoking Registration of Carbofuran in Kenya, Paula Kahumbu, May 17, 2010, as to reported incidents of misuse in Kenya. See, The Wildlife, Pierre Mineau, National Wildlife Research Centre, Canadian Wildlife Service, 1993.

See, Footnote 1, above, and See, CBS Sixty Minutes Episode: http://www.cbsnews.com/stories/2009/03/26/60minutes/main4894945.shtml. See, Ray of Hope in the fight against lion-killer pesticide, the East African, Rupi Mangat, June 15, 2009, http://www.theeastafrican.co.ke/news/-/2558/610826/-/r2heu5z/-/.

See, <u>Direct Losses of Birds to Pesticides – Beginnings of a Quantification</u>, Pierre Mineau, USDA Forest Service Gen. Tech. Rep. PSW-GTR-191, 2005. See, <u>Birds and Pesticides: Are Regulatory Decisions Consistent with the Protection Afforded Migratory Bird Species Under the Migratory Bird Act?</u> Pierre Mineau, Wm. & Mary Envtl. L. & Pol'y Rev., Vol 28:315, 2003. See, American Bird Conservancy Press Release, August 3, 2006, "Pesticide Ban Follows Millions of Bird Deaths," http://www.abcbirds.org/newsandreports/releases/060803.html. "Carbofuran manufacture to be banned in the USA?" Wildlife Extra, March 2010, http://www.wildlifeextra.com/do/ecco.py/view_item?listid=1&listcatid=1&listitemid=6899&live=0#cr, Birds:

Bellweathers of Watershed Health, Lynne Trullo, http://cfpub.epa.gov/watertrain/moduleFrame.cfm?module_id=17&parent_object_id=263&object_id=263.

U.S. Fish and Wildlife Services: "Kentucky Man Sentenced for Poisoning Hawks and Vultures," February 18, 2010, See, http://www.fws.gov/southeast/news/2010/r10-015.html, Allegany County, New York Man enters Guilty Pleas to Poisoning Two Bald Eagles, March 9, 2010, See, http://www.dec.ny.gov/press/63388.html. See also, Winter Poisoning of Coyotes and Raptors with Furadan-Laced Carcass Baits, Journal of Wildlife Diseases, 32(2) 1996, pp. 385-389. See also background information on Raptors: http://www.dec.ny.gov/press/63388.html. See also background information on Raptors: http://www.dec.ny.gov/press/63388.html. See also background information on Raptors: http://www.dec.ny.gov/press/63388.html. See also background information on Raptors: http://www.dec.ny.gov/press/63388.html. See also background information on Raptors: http://www.dec.ny.gov/press/63388.html. See also background information on Raptors: http://www.dec.ny.gov/press/63388.html. See also backgro

USEPA Carbofuran; Final Tolerance Revocations; Final Rule, <u>Federal Register</u>, Volume 74, Number 93, 23046-23095, May 15, 2009. Carbofuran: Order Denying FMC's Objections and requests for Hearing, Federal Register, Volume 74, Number 221, 59608-59686, November 18, 2009.

European Commission, SANCO/10054/2006 final, September 7, 2007, as a review of 2007/416/EC, dated June 13, 2007, See also: http://www.furadanfacts.com/RegulatoryInformation.aspx.

See, CBS Sixty Minutes Episode: http://www.cbsnews.com/stories/2009/03/26/60minutes/main4894945.shtml See, CBS Sixty Minutes Episode: http://www.cbsnews.com/stories/2009/03/26/60minutes/main4894945.shtml

See, <u>Carbofuran and its Toxic Metabolites Provide Forensic Evidence for Furadan Exposure in Vultures (Gyps africanus) in Kenya</u>, Peter O. Otieno, et al., Bull Environ Contam Toxicol, Published online: April 7, 2010, http://www.peregrinefund.org/pdfs/ResearchLibrary/2010Carbofuran.pdf.

found in the umbilical cord blood of women in Manhattan¹⁰ and it is possible residues of it were in your morning cup of coffee, since residues are allowed in certain imported foods¹¹.

The irresponsible and unregulated use of Furadan through a lack of product stewardship by FMC in Africa, Asia and South America is creating a nightmarish result prompting CBS Sixty Minutes to document the intentional misuse of this product to exterminate lions in Kenya. (http://www.cbsnews.com/stories/2009/03/26/60minutes/main4894945.shtml) There are new reports that Furadan and Marshal (carbosulfan) are being intentionally misused to exterminate wildlife in other African countries, including Uganda, Tanzania and South Africa and to poison fresh water fish and waterfowl sold for human consumption 12.

While FMC acted to stop sales in Kenya¹³, it has not stopped the problem from spreading to other countries¹⁴. FMC has failed to responsibly control the misuse of Furadan, thus jeopardizing FMC's reputation and profitability. As shareholders, the next embarrassing news story or potential litigation over FMC's failure to practice honest product stewardship may harm our investments.

FMC should also amend its Corporate Responsibility Policies, since it affords Americans greater protections from exposure than third world people¹⁵, who are allowed unlimited exposure to Furadan¹⁶.

RESOLVED, the Shareholders request the Board establish a legitimate product stewardship program by:

- Implementing immediate moratoriums on sales and withdrawals from the market of Furadan, and any other FMC pesticide, where there is documented misuse of products harming wildlife or humans, until FMC effectively corrects such misuse;
- Preparing and publishing, at reasonable cost, excluding propriety information, a product stewardship report by October 2011, and annually thereafter, addressing all

See National Corn Growers, et al. v. Lisa Jackson, 613 F.3d 266, July 23, 2010. See also, "Furadan Facts" as to Court of Appeals Decision,: http://www.furadanfacts.com/ProductMisuse.aspx.

poisoning report from October 29, 2010 and photographs of Marshal 350. (Sent as a PDF document.)

See, Furadan Facts, www.furadanfacts.com/FAQs.aspx.

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See Analytical Report, October 6, 2009, Paul G. Allen Family Foundation Wildlife Chemistry Laboratory, Botswana Predator Conservation Trust. (Sent as a PDF document.)

USEPA Carbofuran; Final Tolerance Revocations; Final Rule, <u>Federal Register</u>, Volume 74, Number 93, 23046-23095, May 15, 2009. Carbofuran: Order Denying FMC's Objections and requests for Hearing, Federal Register, Volume 74, Number 221, 59608-59686, November 18, 2009.

See, "Bad for America, Good for Africa" New African Magazine, December 1, 2010, http://www.biyokulule.com/view_content.php?articleid=3137. See also, Investigation of deaths in an area of groundnut plantations in Casamance, South of Senegal after exposure to Carbofuran, Thiram and Benomyl, Maria, Ugenia Nia Gomes Do Espirito, et al Journal of Exposure Analysis and Environmental Epidemiology (2002) 12, 381–38810.1038/sj.jea.7500239 10.1038/sj.jea.7500239, https://www.nature.com/jes/journal/v12/n5/full/7500239a.html.

USEPA Carbofuran; Final Tolerance Revocations; Final Rule, <u>Federal Register</u>, Volume 74, Number 93, page 23087 and study in reference note 118 on Page 23093, May 15, 2009.

See, Evidence for Revoking Registration of Carbofuran in Kenya, May 17, 2010, as to reported incidents of misuse in Kenya and Measuring the Conservation Threat to Birds in Kenya from Deliberate Pesticide Poisoning, Martin Odino, July 30, 2010. See, Wildlife Direct website article on vulture poisoning, http://stopwildlifepoisoning.wildlifedirect.org/. See, Lion poisoning incident reports from April 25, 2010 and bird

documented product misuses worldwide since 2005 and proposing changes to prevent further misuse including: working with foreign governments in training and educational programs, licensing applicators, restricting access, incorporating bittering agents and funding programs to prevent loss of livestock and wildlife;

- Establishing an independent scientific advisory panel to prepare these reports; and
- Incorporating in the FMC Corporate Responsibility Principles a human equality declaration stating that FMC will treat third world people no differently than Americans as it relates to U.S. pesticide exposure limits.

I, therefore, urge Shareholders to vote FOR this proposal.

The following is not part of the proposal.

Submitted on: November 16, 2010

By: David Brook

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FISMA & OMB Memorandum M-07-16

Owner of 75 + shares, since on or about July 29, 2009.

12/9/2010 11:39 AM

Lion poisoning incident in the Masai Mara on 22nd April 2010

Incident: Poisoning of three lions

Date of incident: 22nd April 2010

Threat: Lions

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Method: Dead cow laced with pesticide to kill lions

On the 25th of April investigators confirmed the deaths of three lions in the Masai Mara which occurred on the 22nd of April 2010. The lions lay dead in a boma belonging to a Masai family. A lioness had just died about 5-10 meters away from the cow carcass at GPS co-ordinate 36M 0761391,UTM9877716. The carcasses of a juvenile male and second lioness lay some 30m away.

They noticed that there were piles of dead flies around the cow carcass and that the lions had not yet been scavenged. The bodies were quite decomposed.

Community rangers with the KWS team arrested one man named, Oletaito Olemaito, who admitted that he had poisoned the lions with his neighbors. He also produced a container, which he had used to poison the lion that contained pink powder. The same pink coloring was visible on the laced meat of the cow carcass used for the poisoning.

The suspect revealed that the cow carcass that was laced belonged to him and other family members and that it had been killed by lions on the 22/04/2010 when his herd's boy was grazing livestock. He and his family decided to take the law into their own hands and kill the lions in order to save their other cattle. Upon searching a homestead that he led us to, he identified a 100g tin with a pinkish powder that the suspect claimed to have used when poisoning the cow carcass.

Investigators destroyed the carcasses by burning to avoid more mortality of scavengers, and risks to the environment

The suspect was taken by the KWS to the Narok police station and booked under this booking number: OB NO 29/27/04/2010. He was released on bond on the 28/04/2010 as the investigating officer from the police department requested for a new sampling of the specimen to be done afresh as per their procedures so that the findings of the evidence to be used during prosecution

On the 28th of April the suspect was released and no charge reached the prosecutors office.

The lion samples were refrigerated and flown to Nairobi on the 27th of April. The KWS veterinarian in Nairobi collected them that morning.

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We urge the PCPB to confirm receipt of this report and to investigate and report back to us on the findings.

Sequence of Events of lion poisoning in the Lemek Hills, Narok South District

Recorded by Marc Goss

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At 8pm on the 24th of April 2010 MNC Sn. Warden Benson Ketere reported that our Ngoswani rangers had been informed that lions had been poisoned near their gate.

Benson arrived at Ngoswani at 8:30pm that night but could not enter the area where the lions were reported to be lying dead, due to large numbers of elephant. Benson returned to his station for the night.

On the morning of the 25th at 8am Benson arrived our Ngoswani Gate and was escorted some 4km from the gate to where the lions were. Upon confirming the deaths of three dead lions we reported the incident to the KWS intelligence department Narok, and KWS Mara veterinarian. The veterinarian previously instructed our team on how to take samples, which we did with the KWS Lemek rangers and Intel. Dept.

At the scene we noticed that there were piles of dead flies around the cow carcass and that the lions had not yet been scavenged. They had been dead for about two days, due the rate of decomposition.

Our rangers with the KWS team arrested one man named, Litato Maitai, whom admitted to the group that he had poisoned the lions with his neighbors. He also produced a container, which he had used to poison the lion that contained pink powder. The same pink coloring was visible on the laced meat of the cow carcass used for the poisoning. He was taken by the KWS to the Narok police station.

On the 28th the suspect was released and no charge reached the prosecutors office.

The lion samples were refrigerated and flown to Nairobi on the 27th of April. The KWS veterinarian in Nairobi collected them that morning.

Some three weeks later we have had no feedback regarding the test results.

Suspected Poisoning in the Mara

We at WildlifeDirect were informed of the incident on Friday, October 29. We immediately left to visit the scene to collect evidence and assess the situation. We counted 25 (Ruppells Griffon, White Backed, and Hooded) vultures, a Tawny eagle, and a Bateleur eagle, dead in the area where they had been discovered by game scouts of a conservation project in Siana area, <u>Predator Aware</u>, in the vicinity of a wildebeest carcass that had been laced with poison by suspected cattle herders.

The pink colouration and powdery form of the substance found sprinkled on the well-eaten wildebeest carcass point more towards Marshal than Furadan. It is known that local herders have been using Marshall (a pink substance) to kill fleas and other external parasites by dusting their sheep and goats with this substance. Game scouts believe that the poison was intended for lions and other large predators, which the herders may have targeted in retaliation for suspected predation on their livestock. We could not establish why the local community would lace a wildebeest.

KWS officers had picked two intact carcasses the previous day. On this day we collected beaks, crops, and talons, which we delivered to a professor at the Kenya Polytechnic University College (a constituent college of the University of Nairobi) for independent toxicology testing. We also collected a sample of the pink powder we found next to the carcasses. KWS too got this powder to test independently. Together with the Mara scouts, KWS, and the police, we formed a team, and after taking samples, we decided to gather the carcasses and destroy them by burning, to avoid cross contamination.

.....Those present during my visit (those who helped in burning the carcass) included:

1. The Local Chief

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- 2. A Kenya Police officer (Mara), Mr. Osewe Leonard
- 3. James Muasya (T.P.U) Police officer, Mara
- 4. KWS officers (Christine and
- 5. Moses Kuvioni Game Warden, Mara
- 6. Robert Parmwati
- 7. The local youth

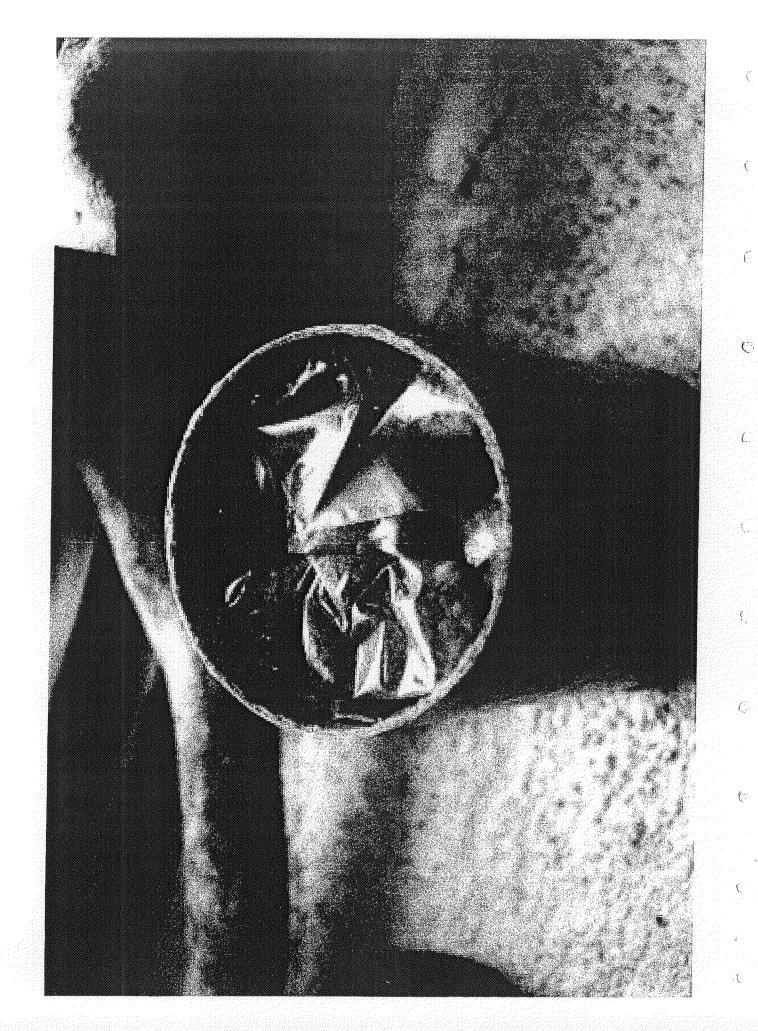
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Kenya's lions on the brink of extinction: three more lions poisoned in Masai Mara

Conservationists have warned that Kenya's lion population is in danger of becoming extinct within a few years if nothing is done to stem a wave of poisonings that have already left at least eight of the charismatic predators dead in recent weeks.

In the latest incident, the carcasses of two lionesses and a young male were found late last month near Lemek, apparently killed in retaliation for attacking domestic cattle. In their investigation, the Kenya Wildlife Service (KWS) arrested a local cattle herder who admitted he had used a pesticide to poison the lions along with his neighbours.

The suspect showed investigators a container with the remains of the poison he had used to lace a cow carcass that the lions ultimately ate. The container had traces of a pink powder that the authorities suspect is a form of carbofuran - a deadly pesticide commonly used in the horticultural industry. KWS has sent samples of both the lion carcasses and the pink substance for toxicological tests to confirm what it was that killed the predators.



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KWS took the suspect to the police but despite the evidence and his admission of guilt, he was released shortly after. According to anonymous sources, a local politician intervened on his behalf.

This incident brings to 8 the number of confirmed lions poisonings in recent weeks across southern Kenya; the other five occurring near the Amboseli National Park.

In their National Conservation and Management strategy for Lions and Hyenas, the Kenya Wildlife Service estimates that only 1,970 lions remain across the country, and said "poisoning is perhaps the greatest threat to predators and scavenging birds".

KWS confirms that 2010 has started off badly for lions - in addition to 8 confirmed poisonings, more than 10 other lions have been killed in other circumstances; A lion was shot in or near Buffalo Springs Reserve, Samburu District, by local police, while others have been speared near Amboseli National Park

The situation is now so serious that the conservationist and chairman of WildlifeDirect Dr Richard Leakey has again called for the government to take action.

"The future of tourism in Kenya is at risk if dangerous pesticides like Carbofuran (sold locally as Furadan) remain on the market. Time and again, we've seen these substances used to slaughter our national heritage and destroy one of our greatest economic assets. Yet the authorities continually fail to follow up cases of abuse and prosecute the culprits. The Kenyan government must show that it is serious and take swift action to ban deadly pesticides like Furadan and enforce the law.

"If we fail to put a stop to poisonings, our lions could go extinct in a matter of years; a catastrophic loss for anyone who cares about our national heritage, but also a devastating blow to the tourism industry that currently brings in hundreds of millions of dollars to our economy."

Carbofuran is the active ingredient in pesticides most widely used to kill wildlife such as lions and leopards. It is also used to kill fish and birds for human consumption. Carbofuran is a neurotoxin that is deadly to fish, birds, cats and even humans. Kenyan conservationists are calling on the Ministry of Agriculture to ban the pesticide due to it's environmental impacts. It is not permitted for use in the European Union where authorization for its' use was withdrawn in 2007. Nor can it be used in the USA where it is produced due to a recent decision by the Environmental Protection Agency (EPA) that revoked all tolerance for carbofuran residues on food. This means that carbofuran residues must not be found on locally produced and imported food items. The decision was implemented on the 31st December 2009. These decisions could affect Kenyan food exports if the product remains in use on export crops. In addition, Canada's Pest Management Regulatory Agency recently conducted the risk and value assessments for carbofuran and its end-uses on food and feed crops and also recommends a ban of the product. Conservationists in USA have conducted an online petition and gathered more than 80,000 signatures urging the Kenyan Government to do the same.

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After incidents of lion poisoning in Kenya became public in 2008, the manufacturers of Furadan, FMC withdrew Furadan from Kenyan shelves. However, the product is still not officially banned and can be found in some agro-vet stores. The active ingredient, carbofuran, is still available in other over-the-counter pesticides.

WildlifeDirect is a conservation charity registered in USA and Kenya, and based in Nairobi. We enable conservationists at the front lines to tell their stories and raise awareness about their work through over 80 blogs from the field on the website platform http://wildlifedirect.org. The Chairman of WildlifeDirect is Dr. Richard Leakey and the Executive Director is Dr. Paula Kahumbu. Visit http://wildlifedirect.org for more information

Furadan: WildlifeDirect is campaigning for the de-registration or total ban on the active ingredient of Furadan, carbofuran in Kenya due to the threats it poses to users, consumers and wildlife. This pesticide threatens the survival of lions, vultures, fish species and many other mammals and birds In Kenya. Furadan is produced in USA by FMC and is sold locally by Juanco SPS as an agricultural insecticide. For more information on our campaign against wildlife poisoning visit http://stopwildlifepoisoning.wildlifedirect.org

KWS is the government body responsible for wildlife conservation in Kenya. For more information visit http://www.kws.org

For other photographs or more information please contact Paula Kahumbu <u>paula@wildlifedirect.org</u>, or call 0722685106, or 020 2602463

(CBS) This story was first published on March 29, 2009. It was updated on July 25, 2009.

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We all grew up learning that the lion is the king of the jungle. And now that we're not little any more, we know just how vulnerable they are. In fact, when exposed to man's devices, lions are extremely fragile.

The latest weapon being used against them is poison. As **60 Minutes** first reported last March, African herders whose livestock and livelihood are threatened by lions are killing them in the most effective and economical way they can.

And overwhelmingly, that is by using a cheap American chemical called Furadan. It is marketed as a pesticide, to be used for protecting crops. But it's bought by many to kill animals. And that's one reason why, conservationists say, Africa's lions are in trouble.

Correspondent Bob Simon took a journey through the bush in Kenya to find out what's going on. We learned that 20 years ago, there were some 200,000 lions in Africa. Today, there are 30,000 and the numbers are going down all the time.

Lions are being poisoned at a staggering rate in Kenya, and there's little chance cubs outside the wildlife reserves there will make it to adulthood.

Dr. Laurence Frank, of the University of California Berkeley, told Simon he believes that poison, combined with other threats, will make the lion in Africa extinct.

Frank has been following lions for the last 30 years, looking for ways to keep them alive. While **60 Minutes** was there, Alayne Cotterill, his colleague, needed to put a new collar on a lioness named Mara. She darted her and put her to sleep.

Cotterill and Frank had less than an hour to do their work before Mara would wake up. A sleeping lion is a deceptively gentle creature. Her coat, which looks exquisitely smooth, is actually quite rough to the touch.

Seeing Mara's claws retracting into soft, padded paws, you understand why she is such an efficient killer. But actually, she may be more afraid of us than we are of her.

"They're very unlikely to attack us," Cotterill explained. "There's been so many years of conflict with people in this area, it's almost hardwired into their systems to be terrified of people."

And with good reason: over the millennia, people have speared, shot and trapped lions. Today, the primary culprit appears to be poison.

"We know of 30-plus poisonings just in this area in the last five or six years. We have data on another 35 or 40 poisonings in our other study area, elsewhere in Kenya. But that's gotta be just the tiny tip of the iceberg," Dr. Frank told Simon.

Mara is part of a pride which lives on Claus Mortensen's ranch. Five years ago he found out just how devastating poison can be when he discovered that another of his prides had gone missing.

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"After a few days, vultures were seen circling on our northern boundary there. And we went out and we found first one lion, then another, and then another," Mortensen remembered.

Seven lions in all had perished. The lions had been vomiting and there were no bullet wounds.

Mortensen said he was sure the lions had been poisoned and suspects that Furadan was responsible. It's one of the most toxic pesticides sold in Kenya, widely available and hard to detect because it dissipates quickly in poisoned animals. Lab tests, he says, ruled out any other poison.

So why would anyone want to poison these glorious creatures? The first thing you need to know is that 70 percent of the country's wildlife is found outside the protected game reserves, on Kenya's vast plains, where wild animals and cattle mingle. Lions are there too, and that's where the trouble begins. The lions attack and eat the cattle.

The area is inhabited by the Maasai people, who always had a way of dealing with that. The young men went out hunting lions with spears; it was a rite of passage. Antony Kasanga was one of them.

Asked what it means for a young Maasai man to kill a lion, Kasanga told Simon, "It makes you famous. You get the whole community to know you, because you killed a lion....If you had one girlfriend, you get 20 more."

It's more than just having 20 girlfriends: killing lions protects cattle, the very foundation of the Maasai's existence.

When a cow is killed by a lion, Kasanga said it's a disaster.

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And Kasanga's job now is to avert that disaster and save the lion at the same time. He is a leading member of the Lion Guardians, a group of reformed Maasai warriors who keep track of collared lions and warn herders when the lions get too close to their cattle.

Last year, they were too late in reaching an old herder whose cow had been killed. The herder laced the carcass with poison, knowing the lions would return to finish their meal.

That night, Sengale and Birdie, two collared lions the Guardians knew well, feasted on it. If the carcass was poisoned with Furadan, they wouldn't have suspected it because Furadan has no taste and no smell. It didn't take long before the lions were found dead; Birdie was pregnant with five cubs.

Cows are a cash crop in Kenya. They put food on the table, and they send kids to school. Mengistu Sekeret and his friends all lost cows to lions. That turned them into lion killers.

Asked how one kills a lion, Sekeret told Simon, "In very silent way."

"What is the silent way?" Simon asked.

"Actually, we use the poison," Sekeret said, explaining that it is very effective.

One poisoned lion captured on camera could barely walk. Its nervous system was shutting down, so it was put down by vets from the Kenyan Wildlife Service who conducted an autopsy.

The official government chemist's analysis found Furadan in the lion's stomach. A subsequent report by the agency that regulates pesticides in Kenya did not mention that finding and claimed that Furadan was not connected.

When 60 Minutes asked Mengistu Sekeret and his friends about Furadan, they didn't recognize the name, but knew exactly what it looked like.

He told Simon they call it "the blue stuff" and that that is actually the common name.

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Simon showed them a bottle of Furadan to make sure we were talking about the same thing.

"Oh wow, it's the one," one of the men replied, after seeing the purplish-blue chemical.

Sekeret and his friends wouldn't have any trouble finding Furadan: it can be bought in towns and villages all over Kenya in stores called "Agro-Vets," which sell agricultural products, including pesticides.

But when Simon tried buying Furadan with 60 Minutes cameras rolling, the shopkeepers told him they didn't have it in stock, so we decided to go undercover with a hidden camera.

When Simon walked into a shop - filmed with the hidden camera - he had no problem buying a bottle of Furadan for 120 shillings, or about \$2.

There was actually plenty of Furadan on the shelves and we were surprised that the storekeeper didn't ask what we wanted it for. Asked if many people buy Furadan, the shopkeeper told Simon, "So many people buy Furadan."

But when asked what they use it for, the shopkeeper simply laughed.

It seemed clear from stores 60 Minutes visited that shopkeepers knew Furadan was not only used on crops. In fact, some stores which stocked Furadan were in areas where there wasn't a crop for miles.

In its granular form, Furadan is banned in Europe and the United Kingdom; it is severely restricted in the United States. Just a tiny amount from a \$2 bottle is enough to kill an entire pride of lions.

Furadan, even when used as directed, is estimated to have wiped out millions of birds in the United States and poses unacceptable risks to human health. That's why the Environmental Protection Agency is in the process of banning it.

But in Africa, Furadan is perfectly legal as a pesticide. However, when the granules are sprinkled on carcasses, any animal that feeds on them will die. And not just lions - hyenas, leopards, jackals, vultures and other birds die in droves.

"It's inexcusable to use Furadan for killing animals. It wasn't designed for the purpose. It's grossly irresponsible to use it in that way," said Dr. Richard Leakey, the doyen of conservationists in Africa, who has spent years fighting for the conservation of Kenya's wildlife.

"But you can understand why cattle farmers do use it," Simon remarked.

"I can understand why people rob banks. I mean, there are a lot of things I can understand," Leakey replied. "It's irresponsible to put on the market something that is so utterly dangerous to wildlife in a country where wildlife is so critical for our economic future."

Wildlife is in fact crucial for Kenya's economic future. Hundreds of thousands of tourists bring hundreds of millions of dollars to the country. But most Kenyans see very little of that, so there is little incentive to value the wildlife.

"The amount of tourism that's here is not sufficient to offset the cost of these people living with wildlife," said Tom Hill, an American philanthropist who wanted to make wildlife worth something to the people.

Hill and Richard Bonham, a Kenyan naturalist, recognized that time was running out.

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"It just became very clear unless we stepped in and made some sort of intervention, we were gonna lose the lion," Bonham said.

So they began meeting Maasai to ask what it would take to stop killing lions. "The answer as they gave it to us is: if you would pay us back for our lost livestock once it's been killed by predators and we can replace it, then we would quit killing them," Hill said.

"That's what we're doing," Hill said. "They don't hate lions. They hate the economics of lions."

So Hill and Bonham set up a fund to compensate the Maasai for their livestock losses. Teams of monitors crisscross the countryside to inspect dead cattle and reimburse the owners if they don't poison the lions.

The program has achieved some success, but covers only a small area. Throughout the rest of Kenya the poisoning goes on.

Asked how one stops farmers from doing it, Leakey told Simon, "You stop farmers by using unregulated chemicals by not having the chemical on the market. You ban the product."

But the Kenyan government hasn't banned the product. The company that makes it, FMC, declined **60 Minutes'** request for an interview but said in a written statement that Furadan is important to the sustainability of agriculture in Kenya. They said that the labels clearly illustrate its proper use and that they condemn the illegal use of their products to kill predatory wildlife.

But does it have to be a choice between cubs and corporations? There are other ways to protect cattle without using lethal chemicals. But for lion cubs to grow up to be the splendid creatures they can be, Furadan cannot be part of their future.

After our story aired, FMC announced it would recall Furadan from stores in Kenya and stop all sales in the neighboring countries of Uganda and Tanzania. But a random survey last month found that while Furadan was no longer on the shelves in Kenya, it was still available in Uganda and Tanzania, where lions are also disappearing.

[FMC Letterhead]

David Brook

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December 13, 2010

FISMA & OMB Memorandum M-07-16

Re: Shareholder Proposal Concerning Improving FMC's Product Stewardship Program and Corporate Responsibility Principles ("the Proposal")

Dear Mr. Brook:

Thank you for meeting with us concerning the Proposal you have submitted for inclusion in FMC's 2011 Proxy Statement, and discussing FMC's efforts to prevent intentional misuse of its products to harm wildlife. As a result of our dialogue, we have determined that we have mutual interest in finding ways, where feasible, to improve the current practices used to investigate and report potential intention misuse events in developing countries. In particular, both parties agree there is benefit to be derived from having a more formalized, objective system, whereby such incidents may be investigated by an independent party, with the results both verified in reputable labs using appropriate protocols and reported accurately to interested parties.

You indicated that achieving such improvement would go a long way towards creating a more comprehensive solution to the intentional-misuse-of-FMC's products problem that concerns you. Additionally, we agreed that, by necessity, such a solution would involve a number of participants in addition to FMC, including but not limited to, governmental bodies and possibly NGOs to promulgate and enforce better stewardship standards in the countries at issue.

This will hereby serve to confirm FMC's commitment to work to try to achieve an improved system for identifying and reporting the cause and effect of any misuse incidents that come to our notice. We understand that you are willing to withdraw your Proposal in consideration of such a commitment, in the belief that the path we have outlined is a more effective way for you to make progress towards achieving your ultimate objective of finding a comprehensive solution to the problem of intentional misuse of any FMC products to harm wildlife or human health. We also understand that you are free to resubmit your proposal for the 2012 proxy season should you not be satisfied with the progress of FMC's efforts.

Please be assured that we take the foregoing commitment seriously and that we will work in good faith towards achieving its objectives. To facilitate our commitment, we invite you to meet with the Agricultural Products Group's Sustainability Council at its next meeting, and to participate, at FMC's expense, in an upcoming trip to Africa to assess the efforts we have

undertaken to ensure that FMC's carbofuran pesticide (Furadan brand), is no longer being sold in the countries of East and Southern Africa.

If you agree with the foregoing, please confirm and we ask that you withdraw the Proposal by close of business on December 22, 2010.

Sincerely,

FMC Corporation

By:

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Proposed additions shown in color with underline Proposed deletions shown with strikethrough

David Brook

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FISMA & OMB Memorandum M-07-16

Improving FMC's P
Proposal") December 17, 2010 N

Re: Shareholder Proposal Concerning Improving FMC's Product Stewardship Program and Corporate Responsibility Principles ("the Proposal")

Dear Mr. Brook:

Thank you for meeting with us concerning the Proposal you have submitted for inclusion in FMC's 2011 Proxy Statement, and discussing FMC's efforts to prevent intentional misuse of its products to harm wildlife. As a result of our dialogue, we have determined that we have mutual interests in finding ways, where feasible, to improve the current practices used to investigate and report potential intentional misuse events in developing countries. In particular, both parties agree there is benefit to be derived from having a more formalized, objective system, whereby such incidents may be investigated by an independent party, with the results both verified in reputable labs using appropriate protocols and reported accurately to interested parties.

You indicated that achieving such improvement would go a long way towards creating a more comprehensive solution to the intentional_misuse-_of-_FMC's products problem that concerns Additionally, we agreed that, by necessity, such a solution would involve a number of participants in addition to FMC, including but not limited to, governmental bodies and possibly Non-Governmental Organizations ("NGOs") to promulgate and enforce better stewardship standards in the countries at issue. Those countries include, at this time, all countries in Africa where there has been distribution of FMC products in the last five years.

In order to more comprehensively address these issues, FMC is interested in exploring, with your interest and involvement, a number of options in order to identify an improved process for its stewardship program. These options involve the potential misuse of FMC's Furadan (carbofuran), and Marshal (carbosulfan) but this improved process would apply to all products marketed for pesticide, herbicide or any other product which has the potential to harm humans Specifically, FMC hereby agrees to research and then begin to implement the following defined stewardship program improvements in Africa beginning on or before March 31, 2011:

1) Actions to improve the factual identification of potential product misuse incidents through:

a) FMC agrees to act to establish a more comprehensive investigative process and a more formal program to document intentional or unintentional misuse poisonings of animals and people; this can be accomplished through a number of steps including:

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- b) Better documenting of the gathering of incident information and reporting by supporting the use of licensed veterinarians, NGOs, game wardens and governmental officers trained to investigate misuse incidents and to perform standard necropsies with tissue sampling in order to determine cause of death. Establishing proper chain of custody process and paperwork for the gathering and secured transfer of samples from the field to the laboratory.
- c) Acting to establish designated professional laboratories with uniform testing protocols for the identification of chemical compounds found in samples and the manufacturers of these compounds, if possible through impurity and process "fingerprinting" analysis. FMC agrees to provide those laboratories with laboratory analysis chemical peak identifiers specific to its products, if applicable.
- d) Supporting the utilization of the same licensed veterinarians to prepare standardized post mortem pathology reports using their field observations and the laboratory reports.
- e) Contemporaneously acting to report these incidents to police and local authorities in order to request the lodging of criminal charges for poisoning incidents where appropriate.
- f) Acting to designate a local authorized contact person to coordinate the actions of FMC with these designated points of contact.
- g) Establishing a mailing and/or emailing list for the laboratory chemical identification results and necropsy reports to be uniformly sent to designated approved recipients as well as the posting of all data and reports to a secure File Transfer Protocol ("FTP") site for access by approved NGOs, governmental agencies and other designated parties.

2) Actions to establish an internal policy for product withdrawal, buyback and auditing program for effectiveness when there is identified product misuse:

a) FMC agrees to establish a written product withdrawal protocol by March 31, 2011, in order to have an established protocol in place, should an FMC product be identified as being misused for intentional poisonings of wildlife, birds, fish or humans. FMC agrees that it will take steps to immediately halt sales of that chemical within a specified distribution area or country radius of the incident and it will make a good faith effort to buy back that compound should such an effort reduce or eliminate stocks of that compound; and to establish internal guidance on such product withdrawal actions.

- b) FMC agrees that it will examine opportunities to expand product packaging identification systems, such as expanded batching codes, electronic tracers or other packaging tracking systems for backtracking distribution points and sources in order to better track sources for any product and packaging identified as misused for a poisoning.
- c) FMC agrees that it will coordinate with all of its distributors and others to accurately maintain inventory and sales records of all FMC product inventory and in order to confirm their understanding and compliance with product withdrawals and/or buybacks and product return and/or destruction.

3) Actions to build consensus and trust:

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- a) Within three (3) months of execution of this letter commitment, FMC agrees that it will sponsor a minimum of three open stakeholder meetings over the next year in Kenya and/or other African countries to solicit local involvement and expand its dialogue on the issue of product misuse. Invited attendees would include interested representatives from: NGO's, Agricultural interests, environmental organizations, governmental representatives and agriculture/chemical manufacturers and distributors. While the meetings will be sponsored by FMC, an involved conservation group, such as for example, Panthera Corporation or World Wildlife Fund or equivalent organization, would be asked to (if interested) act as moderator/facilitator for each meeting. Meeting minutes would be prepared and recorded to be posted to the FTP site.
- b) FMC will work with and identify viable suggestions from the stakeholder meetings, including, not limited to: ways to educate people about the dangers of pesticide misuse, restricting access to certain pesticides, licensing applicators, changing formulation of pesticides with bittering agents and/or pungent or acrid, odors, funding programs to prevent loss of livestock and wildlife and promoting enhanced criminal penalties for intentional misuse/poisoning of wildlife, waterfowl or fish.
- c) FMC will work with NGO's and governmental officials in an attempt to establish a poisoning incident toll-free hotline. FMC and other related chemical distributors and manufacturers in the region will also explore supporting and funding the establishment of a financial reward program for information leading to the arrest and conviction of anyone responsible for any such misuse poisonings. Use of this hotline and reward program would be promoted through radio, print and other forms of mass communications.

4) Preparation of FMC Product Stewardship Report:

a) FMC agrees to prepare a "Product Stewardship Report," to its shareholders by October 2011, with updates and lessons learned from these enhanced program initiatives. The report will be prepared through the gathering of information from changes made and incident reports with assistance of the FMC Agricultural

- Products Groups Sustainability Council and input from at least one FMC unfunded African-based NGO or other involved independent conservation group.
- b) FMC agrees to have the report peer reviewed prior to release by an independent third party, such as an academic institution with no ties to FMC, such as a United States based veterinary school with international experience or a law school with international environmental law experience. Changes would be made to respond to suggestions by such a third party independent institution. FMC agrees to involve you in the choice of such institution and the African-Based NGO.

5) Development of Creation of Agriculture-Business Consortium Support:

- a) FMC agrees to communicate with the other chemical companies and distributors which support the agricultural industry in Africa with chemical herbicide and pesticide products to encourage the establishment of a shared funding source for the preceeding agreed upon programs discussed in this letter agreement. Funding support allocation would be determined by the parties based on a market share or simply equal division of costs. Formalization of such an agreement to support these preceeding programs would be targeted for execution by July 2011 or sooner, if possible.
- b) Those new parties involved with this agreement would also be invited to participate in the stakeholder meetings.

6) Development of Corporate Responsibility Principles:

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- a) FMC agrees to examine expanding its corporate responsibility principles to establish a policy which encourages uniformly limiting human exposure to its pesticides based upon United States Standards.
- b) FMC will work to draft such a policy by June 2011.

This will hereby serve to confirm FMC's commitment to work to try to achieve an improved system for identifying and reporting the cause and effect of any misuse incidents that come to our notice. FMC agrees that it will establish and maintain an open dialogue with you as these endeavors move forward and it welcomes your input for which it will make very effort to incorporate your ideas and comments. In order to facilitate this dialogue, FMC agrees to involve you in its non-propriety communications as it develops these programs and in its formulation of this expanded stewardship program.

FMC also agrees that should any poisoning incidents occur in other countries on other continents, that it will act to establish a similar program as outlined above as applied to that part of the world.

We understand that you are willing to withdraw your Proposal in consideration of such a commitment, in the belief that the path we have outlined is a more effective way for you to make progress towards achieving your ultimate objective of finding a comprehensive solution to the problem of intentional misuse of any FMC products to harm wildlife or human health. FMC will strive to have each of the aforementioned tasks implemented, or to be in the process of implementation, not later than September 15, 2011, unless otherwise noted, so that you We also understand that you are would be free to submit or resubmit your a proposal for the 2012 proxy season should you not be satisfied with the progress of FMC's efforts.

Please be assured that we take the foregoing commitment seriously and that we will work in good faith towards achieving its objectives. To facilitate our commitment, we invite you to meet with the Agricultural Products Group's Sustainability Council at its next meeting, and to participate, at FMC's expense, in an upcoming trip to Africa to assess the efforts we have undertaken to ensure that FMC's carbofuran pesticide (Furadan brand), is no longer being sold in the countries of East and Southern Africa.

If you agree with the foregoing, please confirm and we ask that you withdraw the Proposal by close of business on December 22, 2010.

Sincerely,

(Signed by a Corporate Officer)

FMC Corporation

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I have read and agree with the preceeding information as proposed by FMC Corporation.

By: David Brook:

12/17/2010 11:16 AM

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USE OF FURADAN TO ELIMINATE LIONS AND OTHER CARNIVORES IN KENYA

Laurence Frank, PhD.
Director, Living with Lions
Museum of Vertebrate Zoology
University of California
Berkeley, CA 94720

23 Jan. 2011

Credentials:

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BA in Biology, Reed College, 1970
MSc. in Ecology, University of Aberdeen, 1974
PhD in Zoology, UC Berkeley, 1983
40 years of research on biology and conservation of predators in Kenya
79 scientific papers and 10 popular articles on biology and conservation of
African predators

Statement:

I have been active in predator research in Kenya since 1971 and predator conservation since 1997, with emphasis on lions and spotted hyenas. The greatest conservation threat to these and other large predators is retaliatory killing by people in response to depredation on cattle, sheep, goats and camels. Poisoning with Furadan is the most common way for people to get rid of large carnivores, as most species return to finish a large kill the next night. Livestock owners poison the remains of the carcass, killing every carnivore, vulture or eagle that subsequently feeds on it. The most recent lion poisoning case of which I am aware took place on Jan. 19, 2011.

Lions and other predators are heading for extinction; by the best estimate, fewer than 30,000 lions remain throughout Africa. Our conservation group Living with Lions has records of at least 52 lions poisoned in our 3000 square mile Laikipia study area since 2002, and a minimum of 68 in the 2000 square mile Amboseli region since 2001. The Kenya Wildlife Service has many poisoning records from the Masai Mara region. In most other parts of Kenya, dead carnivores are unlikely to be reported to conservation authorities, so these records represent just a fraction of the actual number of lions poisoned in Kenya. Few data are available from other countries, but anecdotal evidence suggests that poisoning is very common in much of Africa. There have been several reports in the Uganda press of lions being poisoned with Furadan in Queen Elizabeth National Park, and Furadan is reported to be widely used to poison vultures in southern Africa, for use in magic.

In the 20th century, both strychnine and toxaphene (an organochlorine used for dipping' cattle to prevent tick-borne diseases) were widely available and used for killing predators. When strychnine was better controlled and toxaphene was replaced by acaricides with low toxicity to mammals, people discovered that Furadan was highly effective for killing predators, very cheap, and universally available in Kenya: one could go into any 'agrovet' shop (there are many in every small town in agricultural areas), ask for something to kill predators or feral dogs, and be sold a jar of Furadan granules for 120-150 Kenya shillings (\$1.50-2.00). Virtually all pastoralists were aware of this, and large numbers of lions, spotted and striped hyenas, leopards and jackals were killed. Incidental mortality of vultures and scavenging eagles was enormous; as a result, some species of vultures have virtually disappeared from Kenya, others have become rare.

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In 2003, I attended a meeting in Nairobi with FMC corporate representatives David Jupp and Florence Troubac, where they were informed that Furadan was being used to poison predators and also waterfowl (for human consumption), but FMC took no action until CBS 60 Minutes publicized the issue in 2009. The following day, FMC withdrew it from the Kenya market and instituted a buy-back program, with the result that it is now difficult to buy in Kenya. Old stocks remain hidden, however, and it is readily available in neighboring countries.

The most recent incidents were reported by scouts from the African Wildlife Foundation and followed up by a scout from the Masailand Preservation Trust and one from our *Lion Guardians* group. On January 2, 2011, just on the Tanzania side of the Tanzania-Kenya border, a livestock owner sprinkled Furadan on the carcass of a cow killed by lions. A female lion, four spotted hyenas and a vulture were poisoned. On January 19, the same man poisoned a male lion who fed on another cow; its female companions apparently survived. The accompanying photos show Furadan granules sprinkled on the lion after it was partially skinned (skins, teeth and claws are illegally sold to tourists), apparently in an effort to kill more hyenas. The lions almost certainly came from Amboseli National Park on the Kenya side of the border. I have bought Furadan in Kenya to photograph it, and the granules visible on this lion appear identical.

In a similar incident a year ago, a pride of five Amboseli lions was poisoned on the Kenya side of the border, and the perpetrator freely admitted buying Furadan in Tanzania. The Kenya Government Chemist's analysis of lion liver and stomach samples showing carbofuran in all samples is attached. Thus, although Furadan is now hard to buy in Kenya, it is freely available in Tanzania, where it has also been documented by Richard Bonham as being used to poison crocodiles in the Selous game Reserve.

I also include photos taken in 2006 outside Tsavo National Park in Kenya, where two male lions were poisoned using Furadan, reported by my colleagues Seamus Maclennan, Leela Hazzah and Amy Howard. The photos show the dead lions, the cow carcass that was used as bait, and Furadan granules and masses of dead flies on the cow.

In typical cases, however, the dead lions, hyenas, or vultures are only found and reported days after death. They are rotten and scavenged, and little evidence is left behind. It is

rare for someone to arrive on the scene while the carcasses are still fresh, and evidence in the form of granules or piles of dead flies on the bait are still visible. Because rangers are not trained in toxicology, stomach content samples are rarely taken. Further, the one laboratory in Kenya capable of analyzing for carbofuran residues now refuses to do it—the assumption among conservation groups is that they have been paid off.

Although few lab analyses have been done, the people doing the poisoning readily describe using Furadan, and all agrovets are familiar with this use for it. As strychnine and organophosphate acaricides are no longer available, there is no other readily available poison. In spite of FMC's denial, there is overwhelming evidence that Furadan has been used to decimate predators and scavengers in Kenya, and continues to be used in 2011 to kill wildlife in Kenya and elsewhere in Africa.

This statement is truthful to the best of my knowledge.

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Laurence Frank, PhD.

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Director, Living with Lions

Research Scientist, University of California, Berkeley and

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My name is Martin Odino,

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I am making this statement since I live in Kenya and based upon what I have seen, I believe that Furadan is continuing to be misused for wildlife poisonings as recently as January 3, 2011.

I am an affiliate of the National Museums of Kenya, Ornithology Section. I have an educational background in Zoology (Bachelor of Science in Zoology, 2005). Since 2007, I have worked under the Bird Committee of Nature Kenya (BirdLife International's Kenyan partner), BirdLife International African Partnership Secretariat in Kenya and Wildlife Direct (African Conservation Fund under the Richard Leakey & Associates) during which time I have ran consultancies on pesticide poisoning of wildlife and conducted surveys and research on bird and other wildlife poisoning. Broadly I am an ecologist though I have specialized on birds and therefore most of my research, particularly on poisoning is illustrated by studies on birds.

I have been involved with the issue of the misuse of pesticides in Kenya and specifically Carbofuran sold under the brand name Furadan 5G in Kenya, which is manufactured by FMC Corporation. I would like to give a brief most recent overview of what I have seen as to the current status with the misuse of Furadan and the stated withdrawal of Furadan from Kenya:

During April 2009, we had a meeting with two of FMC's top personnel at Wildlife Direct's offices in Nairobi Kenya and the proceedings of what was discussed can be accessed on-line at http://www.furadanfacts.com/LinkClick.aspx?link=Content%2FDocs%2FWildlifeDirect%2520FMC%2520 meeting%2520minutes%252015th%2520April%25202009.pdf

After the 60 Minutes broadcast, FMC announced their withdrawal of Furadan for their expressed concern for Kenya's wildlife, particularly lions and a buyback programme was put in place with the local distributors, JUANCO, being charged with the responsibility.

I have been conducting field work in the Western Kenyan marshes. On January 3-5, 2011, I was at the site where I have been working (Bunyala Rice Irrigation Scheme) since February 2009 and to say the least Furadan 5G is still being used by poachers to poison birds, especially African Openbills, Anastomous lameligerus. More horrifying and as you may have already read on our stop wildlife poisoning blog, http/stopwildlifepoisoning.wildlifedirect.org/, JUANCO the traditional distributor of FMC reinstated information on some confusing formulation of Furadan, yet information about Furadan had been off their website for about a year. It is ironic since the same JUANCO were the ones solely involved with the buy back. I thought they were helping to heal the wound, only to stab it raw and open again, by apparently selling it or some formulation of Furadan.

FMC withdrew Furadan during 2009, but this pesticide somehow surfaces among the poachers as recent as now (January 23, 2011), secretly supplied to them by unscrupulous distributors (who judging from the communication on Juanco's website must be JUANCO; check http://juancogroup.com/?id=4&spg=30) through the agrovets that must still be running this business in top secrecy.

I certify that the foregoing statements made by me are true.

Sincerely,

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Martin Odino

PARE Corporation

FMC Corporation 1735 Market Street Philadelphia, PA 19103 215.299.6000 Phone

www.fmc.com

Via Federal Express

December 29, 2010

Office of the Chief Counsel
Division of Corporation Finance
U.S. Securities and Exchange Commission
100 F Street, N.E.
Washington D.C. 20549

Re: FMC Corporation
Shareholder Proposal of David Brook
Securities Exchange Act of 1934 – Rule 14a-8

Ladies and Gentlemen:

This letter is to inform the staff of the Division of Corporate Finance (the "Staff") of the Securities and Exchange Commission (the "Commission") of the intention of FMC Corporation (the "Company") to exclude from its proxy statement and form of proxy for its 2011 Annual Meeting of Shareholders (collectively, the "2011 Proxy Materials") a shareholder proposal (the "Proposal") and statements in support thereof (the "Supporting Statement") received from Mr. David Brook (the "Proponent"). In accordance with Rule 14a-8 promulgated under the Securities Exchange Act of 1934 (the "Exchange Act"), the Company respectfully requests confirmation that the Staff will not recommend enforcement action if the Company excludes the Proposal from its 2011 Proxy Materials. The letter setting forth the Proposal and the relevant correspondence is attached hereto as Appendix 1.

Pursuant to Rule 14a-8(j), the Company has:

- filed this letter with the Commission prior to 80 calendar days before the Company intends to file its definitive 2011 Proxy Materials with the Commission (on or about March 21, 2011); and
- concurrently sent a copy of this letter to the Proponent.

Pursuant to Rule 14a-8(j), the undersigned hereby submits this letter and its attachments to the Commission, together with six additional copies. The undersigned has concurrently sent a copy of this letter and its attachments to the Proponent.

THE PROPOSAL

The Proposal requests that the Company establish a product stewardship program for Furadan® insecticide and other FMC pesticides that have been suspected to have been misused by third parties to harm wildlife or humans, particularly in Africa. Specifically, the Proposal sets forth the following resolution:



"RESOLVED, the Shareholders request the Board establish a legitimate product stewardship program by:

- Implementing immediate moratoriums on sales and withdrawals from the market of Furadan, and any other FMC pesticide, where there is documented misuse of products harming wildlife or humans, until FMC effectively corrects such misuse;
- Preparing and publishing at reasonable cost, excluding propriety information, a product stewardship report by October 2011, and annually thereafter, addressing all documented product misuses worldwide since 2005 and proposing changes to prevent further misuse including: working with foreign governments in training and educational programs, licensing applicators, restricting access, incorporating bittering agents and funding programs to prevent loss of livestock and wildlife;
- Establishing an independent scientific advisory panel to prepare these reports; and
- Incorporating in the FMC Corporate Responsibility Principles a human equality declaration stating that FMC will treat third world people no differently than Americans as it relates to U.S. pesticide exposure limits."

BASIS FOR EXCLUSION

As is evident from the Proposal and its Supporting Statement, this Proposal arises principally from concerns regarding alleged misuse of an FMC pesticide product – FuradanTM insecticide – directed at lions in Africa by cattle herders who are illegally seeking to protect their herds from lions through intentional misuse of this crop protection product. The Company has been following good stewardship practices regarding Furadan in Africa and elsewhere in the world for many years, even before this issue was highlighted in a March 2009 segment on CBS' Sixty Minutes television program. Since the segment aired, the Company has engaged in extensive efforts to strengthen its stewardship programs and, contrary to the Proposal, already has a robust stewardship program. Starting from largely misleading assertions in the Supporting Statement, the Proposal seeks to micro-manage the business of the Company's largest division, in ways that are substantially covered by existing Company processes.

Accordingly, the Company hereby respectfully requests the Staff to concur in its view that the Proposal may be excluded from the Company's 2011 Proxy Materials pursuant to (1) Rule 14a-8(i)(10) because the Proposal relates to a matter that the Company has substantially implemented, (2) Rule 14a-8(i)(3) because the Proposal is materially false and misleading and (3) Rule 14a-8(7) because the Proposal deals with a matter relating to the ordinary business operations of the Company.

U.S. Securities and Exchange Commission Page 3 December 29, 2010

ANALYSIS

A. The Proposal May Be Excluded under Rule 14a-8(i)(10) Because the Proposal Has Been Substantially Implemented.

Under Rule 14a-8(i)(10), a proposal may be omitted if it has already been "substantially implemented." The Staff has taken the position that "a determination that the Company has substantially implemented the proposal depends upon whether its particular policies, practices and procedures compare favorably with the guidelines of the proposal." Texaco Inc. (avail. Mar. 28, 1991); see also Exchange Act Release No. 34-20091 (Aug. 16, 1983) (the "1983 Release") (adopting interpretive change to "permit the omission of proposals that have been 'substantially implemented by the issuer"). A proposal need not have been implemented in full or precisely as presented for it to be omitted as moot under Rule 14a-8(i)(10) — all that is required is that the company has in place policies and procedures that address the proposal's essential objectives satisfactorily. See 1983 Release; see also Caterpillar Inc. (avail. Mar. 11, 2008); Wal-Mart Stores, Inc. (avail. Mar. 10, 2008); PG&E Corp. (avail. Mar. 6, 2008); The Dow Chemical Co. (avail. Mar. 5, 2008); Johnson & Johnson (avail. Feb. 22, 2008) (each allowing exclusion under Rule 14a-8(i)(10) of a shareholder proposal requesting that the company prepare a global warming report where the company already had published a report that contained information relating to its environmental initiatives).

The Company believes that it may exclude the Proposal because, as discussed below, the Company has already substantially implemented the objectives sought by the Proponent.

1. Element 1 of the Proposal: "Implementing immediate moratoriums on sales and withdrawals from the market of Furadan, and any other FMC pesticide, where there is documented misuse of products harming wildlife or humans, until FMC effectively corrects such misuse"

Furadan® is a broad spectrum insecticide that is a crop protection product used by farmers around the world for improved crop yield and productivity. FMC sells Furadan and other pesticide products (including Marshal® Insecticide) to help farmers meet the demands of an ever-increasing human population on the world's food supply. Proper use of these products allows farmers to continue to farm efficiently and maintain favorable crop yields. Since its commercial launch in 1967, Furadan has enjoyed a long history as a safe and effective product for sustaining agriculture and has become one of the most widely-used pest control insecticides in the world. It is most commonly used in protecting crops such as rice and corn. Because of its versatility and effectiveness, Furadan is used in more than 40 countries by both large commercial farmers and small plot growers.

Prior to ceasing all sales into East Africa countries in 2008 and 2009, FMC sold the granular formulation of Furadan in Kenya for growers of corn, potatoes, vegetables, bananas and horticulture crops to use to control pests that are very destructive to crops – for example, nematodes, aphids, grubs, weevils, and stalk borers. In the Spring of 2008, the Company learned

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of an incident involving the possible poisoning of lions in the Maasai Mara region of Kenya, which allegedly involved the use of Furadan as the causal agent. In response, and out of an abundance of caution, the Company immediately stopped the distribution of Furadan into Kenya. The Kenya Pest Control Products Board ("PCPB") – the Kenyan pesticide regulatory agency which is the Kenyan equivalent of the U.S. Environmental Protection Agency – and the Company conducted independent investigations into these alleged incidents, and both concluded that there was no connection between carbofuran (the active ingredient in Furadan) and the deaths of the animals. See Exhibits A and B attached hereto, which are the PCPB and Company investigative reports, respectively.

Nevertheless, the Company has not resumed sales of Furadan into Kenya following reports of the incidents in 2008, in spite of the absence of any evidence that the Company's products were used in these criminal acts by third parties. In April 2009 the Company instructed its distributor in East Africa to cease all sales of Furadan into Tanzania and Uganda, which are neighboring countries to Kenya, as a proactive and precautionary measure in response to concerns by conservation groups that Furadan could be used for illegal baiting in those countries or, alternatively, brought into Kenya. In addition, the Company ceased selling Furadan in South Africa in early 2010. The Company has fully withdrawn from the sale and distribution of Furadan in East Africa and South Africa, has implemented a moratorium on any further sale or distribution of Furadan by FMC in these regions, and has no intention of reintroducing Furadan in these regions in the future. The Company is not aware of any other country where there is any ongoing reported poisoning of wildlife alleged to involve the use of pesticides currently produced and marketed by FMC¹. Accordingly, FMC respectfully submits that it has already implemented this aspect of the Proposal.

In addition to these moratoriums, the Company has taken additional preemptive action that exceeds the scope of the Proposal by establishing buy-back programs for Furadan in these regions. Beginning in the Spring of 2009, the Company implemented a Furadan buy-back program from distribution centers and retailers in Kenya, and beginning in the Summer of 2009, the Company implemented a Furadan buy-back program from distribution centers and retailers in Uganda and Tanzania. Moreover, that same year, the Company sent its own personnel and a specially-retained consultant to Kenya and surrounding countries, traveling over 25,000 kilometers to search for Furadan in local "Agrovet" retail shops (where many farmers shop for their agricultural supplies), in order to encourage them to participate in our buy-back program. Pursuant to these buy-back programs, the Company exported from Africa all Furadan that it repurchased from Africa in February 2010. These buy-back programs in each of Kenya,

It is worth noting that there are many generic pesticides in Kenya and other East Africa nations, some of which look similar to FMC's Furadan product. Given the high brand recognition of "Furadan" and its many years on the local market, it is not surprising that some persons are swift to call any pesticide granule found in a baiting situation as "Furadan" even when the product has no connection whatsoever to FMC-produced Furadan carbofuran product.

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Uganda, and Tanzania remain open today for any Furadan product that might still be found in these countries.

2. Element 2 of the Proposal: "Establish a legitimate product stewardship program by...preparing and publishing at reasonable cost, excluding propriety information, a product stewardship report by October 2011, and annually thereafter, addressing all documented product misuses worldwide since 2005 and proposing changes to prevent further misuse including: working with foreign governments in training and educational programs, licensing applicators, restricting access, incorporating bittering agents and funding programs to prevent loss of livestock and wildlife"

The Company has a longstanding product stewardship program that is endorsed by executive management and integrated into all management processes involving the pesticide business. This program is effective and is continually being improved. Even though the Company's stewardship efforts date back at least to the launch of Furadan in the late 1960s, the Company recognizes that stewardship is an ongoing and never-ceasing obligation, and that the message and the means of fulfilling its stewardship objective must be constantly evolving. A recent change in the program includes the creation of a Global Product Stewardship Manager position to oversee international efforts. This Manager provides outreach and is in regular communication with foreign governmental and NGO entities on issues related to alleged Furadan misuse.

Accordingly, in June 2009, the Company established an internal product stewardship network (the "Stewardship Network") to assist the Company and the U.S. Environmental Protection Agency (the "USEPA") in issuing reports and recommendations, in addressing global issues and in implementing various programs designed to respond to both documented and alleged misuses of Furadan and other pesticides manufactured by the Company. The Stewardship Network, which built on existing informal communications processes, promotes regular conversation among regional FMC product stewardship personnel to discuss local incidents of product misuse and to consider and design proactive measures to prevent any such misuse. The Stewardship Network facilitates the Company's longstanding annual product stewardship dialogue process with the Company's Chief Executive Officer and executive management, which addresses: (i) the Company's progress toward the goals set during the prior year, (ii) any instances of alleged product misuse and the Company's responding action plan, (iii) the product stewardship programs in each of the Company's business units, (iv) areas of improvement and (v) the future goals for the coming year.

The Stewardship Network also facilitates the Company's direct reporting to the USEPA of adverse effects from the Company's pesticide products worldwide that come to the Company's attention from the field, publications, and other sources and which are reportable to USEPA under US pesticide law. These reports are used by the USEPA to identify trends and to implement responsive action plans. In conjunction with these comprehensive reports, the Company has a crisis management plan to escalate the communication of serious adverse event reporting to its executive officers. Upon the Company's receipt of information relating to any pesticide incidents that pose a serious and immediate threat to protecting human health, safety or

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the environment, the Company immediately assembles a team of personnel having operational supervision over key functional areas to address the issue. If the event is significant, such incidents are swiftly escalated to the Company's executive committee and the Company's corporate health and safety organization.

The Company's stewardship program includes the dissemination of reports detailing the Company's stewardship goals, initiatives and achievements. These reports are used to inform and educate employees of the seriousness with which the Company treats stewardship principles, as well as to counsel users of the Company's products as to the importance of the proper and safe use of these products. Two such reports – one relating to the Company's U.S. market (where the Company no longer distributes Furadan) and the other pertaining to the Company's South America market – are attached hereto as Exhibits C and D.

Additional evidence of the Company's commitment to stewardship is the openness with which the Company treats Furadan safety issues. The Company has sponsored a website dedicated to a discussion of the alleged involvement of Furadan in illegal activities in certain African countries, including a description of the Company's response as well as a host of additional relevant information.²

Indeed, a commitment to stewardship is a core principle of the Company. One of the five key elements in the Company's "VISION 2015" growth strategy, recently unveiled by the Chief Executive Officer to the Company's employees, is that the Company "be safe, ethical and responsible stewards." This tone-at-the-top message is reiterated particularly in the Agricultural Products Group organization ("APG") through means such as top level communications from the Group's President, regular communications from the Group's Global Stewardship Manager, and training by Group legal counsel.

Another part of this element of the Proposal requests that the Board establish a "legitimate" product stewardship program by "working with foreign governments." As demonstrated below, the Company has already substantially implemented this aspect of the Proposal. The Company's Stewardship Network spends considerable time and effort working with conservation groups and the Company's distributors, *in addition to foreign governments*, to prevent further misuses of the Company's products. Some of the Company's recent efforts include the following:

• In order to facilitate the detection of Furadan as the cause of any suspected wildlife poisoning, FMC has (i) outstanding offers to fund laboratory analyses by, (ii) outstanding offers to provide product information to, (iii) outstanding requests to receive information from, and (iv) sent teams to meet with, each of the following entities and organizations: U.S. embassy officials and local regulatory authorities in Kenya, Uganda and South Africa; National Geographic; the Kenya Wildlife Service; Wildlife Direct Inc., a charitable

² The website address is www.furadanfacts.com.

organization registered in both Kenya and the United States that is dedicated to saving endangered species; Lion Guardians, a conservation program dedicated to preserving and protecting lions from, among other threats, the poisoning by pesticides in Kenya; Masaailand Preservation Trust, an organization which works with local African communities to resolve human-wildlife conflict; the Chemical Crime Forum, which is operated by the Endangered Wildlife Trust; and the following distributors of the Company: Juanco Group, Philagro South Africa (Pty) Ltd. and Arysta LifeScience South Africa.

- FMC takes a leadership role in representing the chemical manufacturing industry in the Rotterdam Convention, which is a legally-binding international treaty, and in the course of such representation (i) receives notifications of regulatory actions taken by countries relating to problematic and hazardous pesticide formulations and (ii) corresponds with the Rotterdam Convention's 31 designated experts on the Convention's Chemical Review Committee;
- FMC has provided significant financial support to Panthera in its big cat conservation efforts, particularly in Africa with Panthera's Lion Guardian program, which helps prevent the loss of wildlife and livestock in areas where the herder-wildlife conflict is particularly acute;
- FMC has worked through its trade organization, CropLife International, as a member of the stewardship team that provides product stewardship training programs for farmers around the world on the responsible use of pesticidal products; and
- FMC has expanded the scope of the Company's stewardship program into Asia by holding a Furadan workshop in Thailand with regulators and poison control center officials.

These are but a few examples of the recent actions taken by the Company to embellish its stewardship program. They rest on a firm foundation of annual training by FMC and its distributors which is undertaken particularly in developing nations and particularly with respect to sensitive products such as Furadan, where farmers, retailers, local regulators, pesticide applicators, and other interested persons learn how to properly use and apply products so that adverse impacts to human health and the environment can be avoided. FMC has invested in these efforts every year, in countries as diverse as Kenya, Brazil, Mexico, Indonesia and Thailand, and thousands of persons have received such training over the many years of these efforts. See Exhibits E, F and G for examples of training materials used in the Company's stewardship program.

Finally, FMC considers and implements programs and research to mitigate potential incidents, including research to see if a bittering agent can be added that will effectively deter wildlife or keep them from ingesting the granular formulation of Furadan that is popular with farmers. The current Furadan usage instructions, which involve tilling the insecticide under the surface of the soil, have been very successful in minimizing exposure to birds. FMC believes

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in a continually evolving approach to product stewardship, as the Company continues to seek new ways to improve and expand the scope and effectiveness of its stewardship efforts.

Accordingly, the Company already has in place robust stewardship programs and funding initiatives that accomplish substantially all of the material aspects of this element of the Proposal, the only exception being the publication of an annual product misuse report available to the public. However, even with respect to this one exception, the Company has in place other mechanisms to inform the Stewardship Network and senior management of these issues, and to interact with the public regarding same. With respect to alleged Furadan misuse in Africa in particular, the Company has a public website which describes the situation and the Company's stewardship efforts. These collective efforts show that FMC is open to, and engaging all interested persons in, its stewardship programs. In light of all these ongoing actions, FMC respectfully submits that this part of the Proposal has also been substantially implemented.

3. Element 3 of the Proposal: "Establishing an independent scientific advisory panel to prepare these reports"

In June 2010, consistent with its overall focus on stewardship, the Company established an independent "Sustainability Council" with the goal of providing FMC's Agricultural Products Group with an independent and diverse range of external expertise, perspectives, and guidance related to APG's global stewardship program and sustainability practices. It is comprised of scientists, an environmental lawyer, a global leader in implementing corporate responsibility and ethics programs, and conservationists. The members of the Sustainability Council come from the following organizations: Panthera (the world's leading big cat preservation NGO); Mainstream Green Solutions (a consulting firm for climate change, natural resource conservation and other environmental issues); the Academy of Natural Sciences (the oldest natural science research institution and museum in the Americas); the Partnership to Cut Poverty and Hunger in Africa (an NGO focused on improving conditions of Africans); Emerging Agriculture LLC (a consulting firm that advises on crop sustainability policies); and Hong Kong University's Center for Corporate Governance and Financial Policy.

The objectives of the Sustainability Council are to:

- inform APG of emerging agricultural, environmental, conservation and/or social issues, trends and opportunities related to APG's global business;
- advise APG on enhancing its global stewardship program and sustainability policies;
- recommend metrics for assessing APG's global stewardship and sustainability practices;
- provide input aimed at positioning APG as a leader in sustainable practices and products; and

• avail APG and senior management with critical thinking, candid discussions and advice for action on conflicts.

The full Sustainability Council has had one two-day meeting in 2010, and several subgroups have met, including several members who attended the two-day World Food Prize conference in Iowa – an event which focuses on improving agriculture particularly in developing nations. In addition, many one-on-one conversations have occurred. The next full meeting will be convened within six months. The Council's participation at this year's World Food Prize was particularly relevant to FMC's stewardship efforts in Africa: the event featured more than 1,000 researchers, governmental policymakers, and other experts from 65 countries and NGOs, with a special emphasis on Africa, highlighted by a keynote address from former U.N. Secretary General Kofi Annan, who now chairs the Alliance for a Green Revolution in Africa.

The Company utilizes the advice and recommendations received from the Sustainability Council to refine the Company's stewardship activities and to devote additional attention and funding to the initiatives that would best achieve the Company's stewardship objectives. The Company respectfully submits that this evidences substantial implementation of this element of the Proposal.

4. Element 4 of the Proposal: "Incorporating in the FMC Corporate Responsibility Principles a human equality declaration stating that FMC will treat third world people no differently than Americans as it relates to U.S. pesticide exposure limits."

The Company conducts its business in a consistent manner worldwide that protects public and occupational health, the environment and employee safety. Specifically, the Company complies with the Code of Conduct of the Food and Agricultural Organization of the United Nations³ ("FAO Code of Conduct"), the American Chemistry Council's Responsible Care Guidelines, ⁴ and the Company's Code of Ethics and Business Conduct⁵ ("Code of Ethics"), which in the aggregate, substantially incorporate the Company's commitment to the Proposal's "human equality declaration."

The Company adheres to all standards set forth in the FAO Code of Conduct by:
(i) assisting countries that have not yet established the requisite regulatory controls on the quality and suitability of pesticide products to promote the judicious and efficient use of such products and address the potential risks associated with the use of these products; (ii) promoting practices

The FAO Code of Conduct can be accessed at the following URL: http://www.fao.org/docrep/005/y4544e/y4544e00.htm.

The ACC's Responsible Care Guideline can be accessed at the following URL: http://www.americanchemistry.com/s responsiblecare/sec.asp?CID=1298&DID=4841

⁵ The FMC Code of Ethics and Business Conduct can be accessed at the following URL: http://media.corporate-ir.net/media_files/irol/11/117919/code_ethics_ENG.pdf.

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that reduce risks in the handling of pesticides, including minimizing adverse effects on humans and the environment and preventing accidental poisoning resulting from improper handling; and (iii) ensuring that pesticides are used effectively and efficiently for the improvement of agricultural production and of human, animal and plant health. Among other things, the Company provides certain of its foreign distributors with protective equipment and approved spray application equipment for the distributors to give away for free to customers, so as to encourage and enable the safe use of the Company's products. The Company also provides training in the native languages of various end markets for its products, in order to protect the health of farmers using the Company's products.

As an active member company of the American Chemistry Council ("ACC"), the Company is committed to ensuring that the ACC's principles of "Responsible Care" are implemented worldwide throughout the Company's business. Responsible Care is a chemical industry initiative designed to continually improve the actions taken by the Company to protect its employees, customers, the public and the environment. The Company has committed to complying with the Responsible Care program and does so by implementing responsible development, manufacture, transportation, use and disposal procedures of its products. This includes training of employees in the Responsible Care principles, emphasis on the importance of the Responsible Care principles in the Company's Code of Ethics, and a regular independent audit of the Company's practices under the auspices of the ACC to assure compliance with the Responsible Care standards.

Under its Code of Ethics, the Company is committed to conducting its global business with honesty and integrity and complying with all applicable laws of all countries where the Company operates. The Code of Ethics exemplifies the Company's dedication to these business standards and summarizes the legal and ethical principles that the Company follows in implementing its business operations worldwide. The Code of Ethics stresses the importance of protecting the environment as well as human health and safety, beyond achieving mere compliance with applicable laws. Although laws and standards vary from country to country and culture to culture, the Company's common goal and continuing commitment is to maintain equally high standards wherever it operates. The Company's commitment to the Code of Ethics starts at the top of the Company's corporate governance structure, as FMC's directors, officers and employees are responsible for becoming familiar with and abiding by the Code of Ethics. This includes the Company, its subsidiaries, affiliates, joint ventures and all other entities, that, in each case, are directly or indirectly controlled or managed by the Company; the employees

⁶ See Exhibits E, F and \underline{G} for examples of written, photographic and pictorial training materials (portions of which have been translated into English for readability by U.S. headquarters personnel).

⁷ The FMC Responsible Care website can be accessed at the following URL: http://www.fmc.com/AboutFMC/ResponsibleCare/ResponsibleCareProgram.aspx

⁸ See Section 7 on page 6 of the FMC Code of Ethics and Business Conduct, referenced in footnote 5, supra.

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and directors of these entities in their work on behalf of the Company; and consultants and other independent contractors in their work on behalf of the Company. Moreover, the Company facilitates a means to enforce the Code of Ethics by providing a globally accessible, anonymous and confidential "Ethics Response Line" that operates twenty-four hours per day, seven days per week. Failure to carry out the responsibilities set forth in the Code of Ethics can lead to disciplinary action, including discharge.

All these commitments apply with particular emphasis to the Company's research, development, marketing and sales of its pesticides, including Furadan. The Company recognizes that these products, while having great benefit to agricultural production, can have negative effects if used improperly. Therefore, the Company takes great care in studying the potential toxicological effects of its products, and, before marketing in any country in the world, ensures that the use of the pesticide product will not cause adverse effects to workers or persons who eventually consume foods produced by crops treated by the Company's pesticides. With regard to Furadan, over forty years of use by many thousands of farmers around the world confirms that the product is safe when used correctly – whether the farmer is based in Iowa or in Kenya. FMC is committed to the protection of all such farmers wherever they may be, and reinforces this effort through research, proper labeling, training and other outreach. Similarly, toxicological data – and 40 years of experience – confirm that permitted carbofuran residues on foodstuffs produced around the world will not result in adverse effects to humans. The Company takes equally seriously the protection of such consumers both in the United States and in the developing world.

* * *

In summary, all four elements of the Proposal have already been substantially implemented by the Company. While the Company recognizes that varying interpretations of the Proposal could lead to slight discrepancies between the requirements of the Proposal and the Company's aforementioned efforts, the Staff consistently takes the position that a company need not comply with every detail of a proposal or implement every aspect of a proposal in order to make a determination that the proposal has been substantially implemented and to exclude it under Rule 14a-8(i)(10). See Bank of America Corp. (avail. Jan. 4, 2008); AMR Corporation (avail. Apr. 17, 2000); Masco Corp. (avail. Mar. 29, 1999); Erie Indemnity Company (avail. Mar. 15, 1999); AutoNation Inc. (avail. Mar. 5, 2003); AutoNation Inc. (avail. Feb. 10, 2004); and Symantec Corporation (avail. June 3, 2010). As is demonstrated by the foregoing, the Company works daily to implement the essential objectives of the Proposal. The Company has adopted its current stewardship program after careful consideration, with input from the Sustainability Council, and with due regard to the actions that the Company, as a business organization with responsibilities to its shareholders and stakeholders, may properly take to help combat the illegal and intentional misuse of the Company's products.

As a consequence, the Company does not anticipate that it would implement a product stewardship program that is materially different from the stewardship program already guiding the Company's own extensive actions, even if the Proposal were to be adopted.

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Accordingly and for the reasons described above, the Company believes that it has substantially implemented the essential objectives of the Proposal and that the Proposal may be properly excluded pursuant to Rule 14a-8(i)(10).

B. The Proposal May Be Excluded under Rule 14a-8(i)(3) Because the Proposal and the Supporting Statement are Materially False and Misleading.

Rule 14a-8(i)(3) permits the exclusion of a proposal from a company's proxy statement when the proposal or supporting statement is contrary to any of the Commission's proxy rules, including Rule 14a-9, which prohibits materially false or misleading statements in proxy soliciting materials. In recent years, the Commission has clarified the grounds for exclusion under Rule 14a-8(i)(3) and noted that proposals may be excluded where the company demonstrates objectively that a factual statement is materially false or misleading. See Staff Legal Bulletin No. 14B (Sept. 14, 2004) ("SLB No. 14B").

As explained below, the Proponent's Proposal and Supporting Statement weaves a series of misleading and false statements as the premise to his inflammatory and erroneous assertions that "FMC has failed to responsibly control the misuse of Furadan, thus jeopardizing FMC's reputation and profitability" and is "creating a nightmarish result." These statements, however, cannot withstand close scrutiny and are additional grounds for excluding the Proposal in its entirety.

Proponent's Proposal - false and misleading

"RESOLVED, the Shareholders request the Board establish a legitimate product stewardship program by... [i]ncorporating in the FMC Corporate Responsibility Principles a human equality declaration stating that FMC will treat third world people no differently than Americans as it relates to U.S. pesticide exposure limits."

The Staff has permitted the exclusion of certain portions of stockholder proposals and supporting statements from proxy materials when such proposals and supporting statements contained false or misleading statements or omitted material facts necessary to make statements made therein not false or misleading. See Farmer Bros. Co. (avail. Nov. 28, 2003); Monsanto Co. (avail. Nov. 26, 2003); Sysco Corp. (avail. Aug. 12, 2003); Siebel Sys., Inc. (avail Apr. 15, 2003). Specifically, the Staff stated in SLB No. 14B that companies may rely "on Rule 14a-8(i)(3) to exclude or modify a statement... [(a)] where statements directly or indirectly impugn character, integrity, or personal reputation, or directly or indirectly make charges concerning improper, illegal, or immoral conduct or association, without factual foundation; [or (b)] the company demonstrates objectively that a factual statement is materially false or misleading..." SLB No. 14B.

Here, the Proposal requests that the Company incorporate into its Corporate Responsibility Principles a "human equality declaration" stating that the Company will "treat third world people no differently than Americans as it relates to U.S. pesticide exposure limits" (the "Declaration"). The requested Declaration implies that the Company currently engages in

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business practices that discriminate against "third world people" in putting their safety at risk by exposure to foods that may contain carbofuran residues. This underlying premise is false and materially misleading and thus this Proposal should be excluded.

While it is true that the USEPA has revoked carbofuran tolerances in the United States, the Company believes such action was not scientifically valid and not in accordance with the procedures outlined in the Federal Food Drug and Cosmetic Act. For this reason, the Company has been seeking administrative and judicial redress against USEPA, and will now be filing a petition for certiorari with the U.S. Supreme Court. FMC is not alone in these efforts – US farmers believe strongly that Furadan is safe and efficacious and so the Company has been joined in its efforts to overturn USEPA's decision by the National Corn Growers Association, National Potato Council and the National Sunflower Association. These groups represent the three major crops on which Furadan has been used in the United States.

The Company has been challenging USEPA not for the continued sales of US Furadan which are admittedly modest, but rather, because the Company believes firmly that the product is safe. Indeed, with regard to the particular point noted in this Proposal element – U.S. residue limits – USEPA agrees with the Company and has gone on record that carbofuran residues on domestic crops are safe. ¹⁰ The USEPA based its decision on computer models showing theoretical residues in certain ground and surface water scenarios – <u>not in food</u>.

The Company carries this same safety commitment to its sale and marketing of Furadan and other FMC pesticides in other countries. As noted above, the Company generates residue data on crops before it begins marketing its pesticide products in any country in the world. Based on those analyses, and the toxicological data in hand regarding the active ingredient, FMC scientists and researchers can determine the appropriate level of product residue that may remain on a harvested crop and which could potentially remain on a consumable food. Governmental entities and supra-national bodies such as the World Health Organization then confirm or establish different safe residue limits.

The pesticide safety system is highly regulated at many levels all around the world. The Company complies with these regulations in addition to following its own internal high standards. The sale and marketing of Furadan in particular is confirmed by its more than 40-year history, where safe residue limits in all countries have protected persons (whether they be in Africa, Asia, South America, or the United States) who eat foods treated with carbofuran,

⁹ The U.S. Circuit Court of Appeals for the D.C. Circuit held that the USEPA's revocation of the carbofuran residue limits was "arbitrary and capricious" and mandated that such tolerances be reinstated. *See* National Corn Growers Association, et al. v. Environmental Protection Agency et al., 613 F.3d 266 (D.C. Cir. 2010).

In connection with its revocation of carbofuran residue limits for all sales of carbofuran in the U.S., the EPA stated: "The estimated acute dietary exposure from carbofuran residues in food alone (i.e., assuming no additional carbofuran exposure from drinking water), are below EPA's level of concern for the U.S. Population and all population subgroups." 74 Fed. Reg. 23,077 (May 15, 2009).

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from adverse effects. Given that this record establishes that the Company does not discriminate between U.S. people and "third world people," the Proposal is false and materially misleading and thus should be excluded under Rule 14a-8(i)(3).

Proponent's Supporting Statements - false and/or materially misleading

The Proponent has also made the following statements in support of the Proposal which the Company considers to be materially false and misleading, in violation of the Commission's proxy rules, for the reasons set forth below:

1. Proponent's Statement: "Furadan is being used to intentionally kill large mammals such as lions in Africa."

The Company respectfully submits that this statement is unsubstantiated and, accordingly, materially misleading. The Company is not aware of any substantiated cases of large mammals being intentionally killed with Furadan. The Company met with the Kenya Wildlife Service ("KWS") in both 2008 and 2009 to review alleged incidents of illegal poisoning of lions with Furadan. Although KWS advanced **unsubstantiated** claims linking a small minority of the lion deaths from 2000-2008 to Furadan misuse by pastoralists, and notwithstanding formal requests by FMC for reports from KWS to review the relevant data and any analytical methods used, KWS has not provided any evidence to support its assertions. As explained earlier in this letter, the Kenya Pest Control Products Board and the Company conducted independent investigations into alleged incidents of lion poisoning, and both concluded that there was no connection between carbofuran (the active ingredient in Furadan) and the deaths of the animals. Furthermore, since those incidents were highlighted in the media, no substantiated report of Furadan poisonings has been submitted to the Kenya Pest Control Product Board, which would be required if in fact there were any linkage.

2. Proponent's Statement: "Millions of migratory birds in South and North America have been unintentionally poisoned by Furadan."

The Company respectfully submits that this assertion is materially false and misleading. The purported evidence on which the Proponent relies is pure conjecture. As a more plausible estimate, on February 5, 2008, the USEPA presented statistics, attached hereto as Exhibit H, indicating that less than 11,000 migratory birds have been affected by Furadan in the last 38 years. In addition, the American Bird Conservancy database, attached hereto as Exhibit I,

With regard to one 2008 incident, KWS produced a report asserting that carbofuran baiting caused the death of two lions. However, that report relied on the analysis by a chemist who used an unreliable method of testing. See attached report of Dr. Edward Kikta, a fellow of the American Institute of Chemists and former chairman of the American Society for Testing Materials committee on Chromatography, attached hereto as Exhibit J. Therefore, the KWS report, attached hereto as Exhibit K, purportedly linking carbofuran in this one incident is suspect. Furthermore, even if the poison used was carbofuran, which the Company denies, it could easily have been a generic form of carbofuran and not FMC's Furadan. See footnote 1, supra.

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indicates that an estimated 40,000-50,000 birds have been affected by Furadan in the 32-year period from 1972 to 2003. As any shareholder would recognize, there is a world of difference between an estimated 40,000-50,000 and "millions." Further, and as comparison points of reference, in the United States, high-rise buildings cause approximately 300,000,000 bird deaths each year and transmission and distribution lines cause approximately 150,000,000 bird deaths each year. Finally, with respect to South America, the Company is not aware of any reports of bird poisonings attributable to Furadan.

3. Proponent's Statement: "USEPA banned all carbofuran residues in domestic foods, effectively prohibiting its use in America on December 31, 2009."

The Company respectfully submits that this assertion is materially misleading. The USEPA did revoke all domestic carbofuran tolerances but based its decision on computer models showing theoretical residues in ground and surface water – not in food. Indeed, USEPA has confirmed that carbofuran residues in all US-labeled food crops are safe. ¹³

4. Proponent's Statement: "The European Union banned residues in foods in 2007."

The Company respectfully submits that this assertion is materially false and misleading. The European Union did not ban carbofuran residues in foods. What the European Union did was omit carbofuran from a new list of approved active ingredients, resulting in carbofuran being subject to specified residue limits under European Union regulation. These default limits permit the continued importation into the European Union of treated commodities with residues at de minimis levels which carbofuran has for many crops. ¹⁴

5. Proponent's Statement: "While Furadan use is restricted in the United States, the Company has allowed its unrestricted international sale in corner stores in many third world countries."

The Company respectfully submits that this assertion is materially misleading. Furadan is heavily regulated in worldwide markets. The Company sells only to *licensed* distributors worldwide and authorizes the sale and distribution of Furadan only to *licensed* retail shops that sell agricultural products. Further, the Company has voluntarily ceased supplying any resellers in Kenya, Uganda, Tanzania and South Africa, as more fully described in Section A, above. Finally, the document to which the Proponent refers to substantiate this claim, attached

See the American Bird Conservancy report, attached hereto as Exhibit I, at the tab captioned "Other Killers."

¹³ See footnote 9, supra.

See European Union MRL (maximum residue limits), attached hereto as <u>Exhibit L</u>, showing permissible levels of carbofuran residues in hundreds of different types of foods, as currently in effect.

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hereto as Exhibit M, refers only to now-halted sales in Kenya, not to sales in "many third world countries" as alleged by the Proponent.

6. Proponent's Statement: "it is possible residues of [Furadan] were in your morning cup of coffee, since residues are allowed in certain imported foods."

The Company respectfully submits that this assertion is materially false and misleading. Neither carbofuran nor its metabolites are found in the processed commodities of either roasted or instant coffee. Accordingly, "your morning cup of coffee" would not contain residues of Furadan. Furthermore, USEPA's regulations on imported coffee beans permit safe levels of carbofuran residue. The U.S. Circuit Court of Appeals for the D.C. Circuit held that the USEPA's prior revocation of the carbofuran residue limits (including coffee) was "arbitrary and capricious," and mandated that such tolerances be reinstated. See National Corn Growers Association, et al. v. Environmental Protection Agency et al., 613 F.3d 266 (D.C. Cir. 2010).

7. **Proponent's Statement**: "The irresponsible and unregulated use of Furadan through a lack of product stewardship by FMC in Africa, Asia and South America is creating a nightmarish result..."

The Company respectfully submits that this assertion is materially false. Furadan, like every other pesticide, is regulated by governments in every country around the world and cannot be sold without submission of relevant data and issuance of a product registration. In addition to governmental regulation in all countries in Africa, Asia and South America, FMC sells Furadan in a responsible manner, using only licensed distributors who train farmers on the safe and effective use of the product. The overwhelming majority of farmers who purchase Furadan have been using this product responsibly and safely for over 40 years because it substantially increases crop yields in an efficient and affordable manner. This responsible use of Furadan has helped farmers succeed in putting food on the table of millions of people living in Africa, Asia and South America. Moreover, the Company (either directly or through its distributors or a trade association) has implemented product stewardship programs in Africa, Asia and South America. As described above, when FMC became concerned regarding potential Furadan misuse in East Africa, it instituted moratoriums on sales by FMC of Furadan in Kenya, Uganda, Tanzania and South Africa with no intention of reintroducing the product in these countries, and further, has established buy-back programs for any remaining Furadan product found in Kenya, Uganda, and Tanzania.

8. Proponent's Statement: "prompting CBS Sixty Minutes to document the intentional misuse of this product to exterminate lions in Kenya."

The Company respectfully submits that this assertion is materially misleading. The documentation cited by CBS Sixty Minutes did not include any actual evidence that Furadan was used to exterminate lions in Kenya. A close reading of the program transcript or a careful listening to the program will confirm that CBS Sixty Minutes nowhere stated conclusively that Furadan was the cause of any lion deaths.

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9. Proponent's Statement: "There are new reports that Furadan and Marshal (carbosulfan) are being intentionally misused to exterminate wildlife in other African countries, including Uganda, Tanzania and South Africa and to poison fresh water fish and waterfowl sold for human consumption."

The Company respectfully submits that this assertion is unsubstantiated and, accordingly, materially misleading. The Company has not received any substantiated reports that either Furadan or Marshal have been intentionally misused to exterminate wildlife in any African countries or to poison freshwater fish and waterfowl for human consumption. The reports to which the Proponent refers¹⁵ either do not refer to FMC products or refer to them in a misleading and unsubstantiated, speculative manner.

10. Proponent's Statement: "While FMC acted to stop sales in Kenya, it has not stopped the problem from spreading to other countries."

The Company respectfully submits that this assertion is materially false. The Company has ceased all distribution and sales of Furadan to Uganda, Tanzania and South Africa, and has taken extensive measures to address these issues, as discussed more fully in Section A, above.

11. Proponent's Statement: "FMC has failed to responsibly control the misuse of Furadan, thus jeopardizing FMC's reputation and profitability."

The Company respectfully submits that this assertion is materially false. As discussed above, the Company has ceased all sales and distribution of Furadan in East Africa and South Africa in response to alleged misuse, and the Company's response was expeditious. The Company has invested further in the implementation of robust stewardship programs to address the responsible use of Furadan. Finally, if anything, FMC's reputation as a responsible product steward has been increasing: over the last several years, the Company's Agricultural Products Group business units in Mexico and Brazil have won recognition for industry-leading stewardship programs. ¹⁶

See, Evidence for Revoking Registration of Carbofuran in Kenya, May 17, 2010, as to reported incidents of misuse in Kenya, at http://www.scribd.com/doc/34411935/Wildlife-Direct-Carbofuran-Report-for-Task-Force-17-5-10, and Measuring the Conservation Threat to Birds in Kenya from Deliberate Pesticide Poisoning, Martin Odino, July 30, 2010, at http://stopwildlifepoisoning.wildlifedirect.org/.

Page 16 APG's Brazil division was named as the "top company in Grower Education for the safe use of pesticides" by a judging commission from the Brazilian government in 2005. The commission acknowledged FMC's product stewardship program that focused on Responsible Care and 7 Habits of Safe Use for crop protection products. In 2009 and 2010, APG's Mexico division received the distinction of being declared a Socially Responsible Company. The distinction is granted upon a determination that a company's culture is based on principles of honesty, transparency and service, where the company bases its vision and commitment in policies, programs, decision-making and actions designed so as to positively impact employees, the environment and the communities in which the company operates, beyond its basic obligations.

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12. Proponent's Statement: "FMC should also amend its Corporate Responsibility Policies, since it affords Americans greater protections from exposure than third world people, who are allowed unlimited exposure to Furadan."

The Company respectfully submits that this assertion is materially false. While it is not clear precisely to whom the Proponent is referring by his reference to "third world people," FMC can confirm that purchasers of Furadan in any of its worldwide markets, including the continents referred to elsewhere in the Proposal - Africa, South America and Asia - are not exposed to unlimited amounts of Furadan. Furadan is distributed only in marketable quantities to licensed resellers, and the usage instructions on the product label clearly indicate proper application protocols in the local language. Accordingly, crops that are subject to Furadan application feature acceptable residue limits and are in compliance not only with all applicable laws and regulations, but also with the Company's commitment to protect human health, in addition to the health of wildlife and the protection of the environment. As discussed above, the Company operates its business in global compliance with the FAO Code of Conduct, the American Chemistry Council's Responsible Care Guidelines and the Company's Code of Ethics, which in the aggregate facilitate the operation of the Company's global business in a consistent manner that protects public and occupational health, the environment and employee safety. Furthermore, the document to which the Proponent referred FMC to substantiate this claim, attached hereto as Exhibit N, refers to a generic brand of carbofuran sold in a three-way dustable formulation powder that FMC does not make or market – it is another company's product.

Summary

Due to the preponderance of materially false and misleading statements contained in the Proposal, the Company believes attempting to correct and edit the Proposal would be fruitless, and therefore the Proposal should be completely excluded. The Company respectfully submits that the Proposal may be excluded by virtue of Rule 14a-8(i)(3) and requests that the Staff not allow the defects in the Proposal to be corrected by amendment.

In the alternative, if the Staff is unable to concur with the Company's conclusion that the Proposal should be excluded in its entirety because of the numerous false and misleading statements contained therein, the Company respectfully requests that the Staff recommend the exclusion of the statements specifically discussed above. In the event the Staff permits the Proponent to make the substantial revisions necessary to bring the Proposal within the requirements of the proxy rules, the Company respectfully requests explicit confirmation from the Staff that such revisions are first confirmed as accurate and subject to complete exclusion by the Company if they cause the Proposal to exceed the 500 word limitation set forth in Rule 14a-8(d) of the Exchange Act.

C. The Proposal May Be Excluded under Rule 14a-8(i)(7) Because the Proposal Deals with Matters Relating to the Company's Ordinary Business Operations.

The Proposal may be properly excluded from the Proxy Materials under Rule 14a-8(i)(7) because it encompasses matters relating to the Company's ordinary business operations.

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Under Rule 14a-8(i)(7), a company is permitted to exclude a shareholder proposal if it "deals with a matter relating to the conduct of [its] ordinary business operations." The first central consideration upon which the policy of this rule rests is that "[c]ertain tasks are so fundamental to management's ability to run a company on a day-to-day basis that they could not, as a practical matter, be subject to direct shareholder oversight." See Exchange Act Release No. 34-40018 (May 21, 1998). The second central consideration underlying the exclusion for matters related to the Company's ordinary business operations is "the degree to which the proposal seeks to 'micro-manage' the company by probing too deeply into matters of a complex nature which shareholders, as a group, would not be in a position to make an informed judgment."

The SEC has taken the position that decisions regarding the sale, content or presentation of a particular product, whether considered controversial or not, are part of a company's ordinary business operations and thus may be excluded under Rule 14a-8(i)(7), see The Coca Cola Co. (avail. Jan. 22, 2007) (proposal requesting, in part, that the company adopt specific requirements relating to the labeling of its caffeinated beverages); Marriott International, Inc. (avail. Feb. 13, 2004) (proposal prohibiting the sale of sexually explicit material at Marriott owned and managed properties); Walmart Stores, Inc. (avail. Mar. 9, 2001) (proposal requesting that the retailer stop selling handguns and their accompanying ammunition was excludable). For example, in Walgreen Co. (avail. Oct. 13, 2006), a shareholder sought to include a proposal that the company's board of directors publish a report characterizing "the extent to which Walgreens' private label cosmetics and personal care product lines contain suspected carcinogens, mutagens, reproductive toxicants, and chemicals that affect the endocrine system, accumulate in the body or persist in the environment." Despite the social policy issues raised by the shareholder's proposal, the Staff concurred in the Company's argument that the proposal could be excluded under Rule 14a-8(i)(7).

The Company is aware of the Staff's position concerning the inclusion of stockholder proposals that have ethical or social significance. The Staff has found that some of the issues that raise a "significant social policy issue" include: (i) animal testing, see 3M Co. (avail, Feb. 22); Wyeth (avail, Feb 4, 2004), and (ii) food safety and the inhumane killing of animals, see Wendy's Int'l, Inc. (avail. Feb. 8, 2005); Hormel Foods Corp. (avail. Nov., 10, 2005). Despite this position, the Staff has determined in several instances that proposals raising the issue of alleged cruel and inhumane treatment of animals in connection with the sale of products are excludable under 14a-8(i)(7) as dealing with matters of ordinary business operations. In Lowe's Companies, Inc. (avail. Mar. 18, 2010), the shareholder sought to include a proposal that encouraged the company to label all glue traps sold in its stores with a warning stating the danger that these traps pose to companion animals, wildlife and human health. The company argued, in part, that because the proposal dealt with matters relating to the company's selection and labeling of products, the proposal was excludable under Rule 14a-8(i)(7). The Staff concurred that the Company could exclude the proposal under Rule 14a-8(i)(7). See also The Home Depot, Inc. (avail. Mar. 12, 2010) (concurring that proposal encouraging company to label glue traps as dangerous to animal welfare was excludable under 14a-8(i)(7)). Similarly, in PetSmart, Inc. (avail. April 14, 2006), the Staff concurred in the company's view that a proposal prohibiting the sale of large birds in its stores was excludable under 14a-8(i)(7) as relating to

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ordinary business operations (i.e., the sale of a particular good) despite the proponent's argument that the proposal raised significant social policy concerns.

Furthermore, the Staff has excluded shareholder proposals that have requested highly detailed and specific reports, even when the subject may be a socially significant issue. See e.g. Ford Motor Company (avail. Mar. 2, 2004) (allowing exclusion of proposal recommending that the board annually publish a report that would include detailed information on temperatures, atmospheric gases, sun effects, carbon dioxide production, carbon absorption and costs and benefits at various degrees of heating or cooling). Here, the Proposal requests a report, by October 2011, that addresses "all documented product misuses worldwide since 2005 and proposing changes to prevent further misuse including: working with foreign governments in training and educational programs, licensing applicators, restricting access, incorporating bittering agents and funding programs to prevent loss of livestock and wildlife" (emphasis added). The annual report mandated by the Proposal, if followed to the letter, would require the Company to engage a staff of scientists and various other experts, in addition to the Sustainability Council mentioned above, and local governments that may be unreceptive or unresponsive to the Company's efforts, to undertake a large-scale research project at great expense. This substantial burden on the Company would result in a report that, at best, would essentially be a compilation of unfortunate incidents categorizing the illegal misuse of the Company's products and that would not be in furtherance of any investor-related determination. FMC maintains that it has already substantially implemented this aspect of the Proposal, as amply demonstrated throughout this letter.

The mere fact that the Proposal is tied to a social issue is not enough to surmount the important policy considerations of Rule 14a-8(i)(7), as aptly demonstrated by Walgreen Co., Lowes Companies, Inc., The Home Depot, Inc. and PetSmart, Inc., because the Proposal deals with complex tasks that are fundamental to management's ability to run the Company on a day-to-day basis and seeks to "micro-manage" the Company by probing too deeply into business decisions and relationships upon which shareholders are not equipped to render decisions. See e.g., Pfizer (avail. Jan. 28, 2005) (proposal prohibiting the Company from making donations contributing to animal testing was excludable). Decisions relating to a company's selection of products form the basis of the daily and ordinary business operations of every company, not just FMC, and these decisions are inherently based on complex business considerations that are outside the knowledge and expertise of the stockholders, and accordingly, should not be subject to direct shareholder oversight. The Proposal seeks to control the Company's selection of its products – to allow the stockholders to dictate what the Company may sell would substitute their opinion for the judgment of the directors. This judgment is precisely the type which Rule 14a-8(i)(7) is intended to address.

CONCLUSION

Based on the foregoing analysis, the Company believes that it may omit the Proposal from its 2011 Proxy Materials in reliance on either or all of paragraphs (i)(10), (i)(3) and (i)(7) of Rule 14a-8, and the Company respectfully requests that the Staff not recommend any enforcement action if the Company omits the Proposal from such proxy materials.

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To facilitate transmission of the Staff's response to our request, my facsimile number is (215) 299-6728. If the Company can provide you with any additional information or answer any questions you may have regarding this subject, please do not hesitate to call me at (215) 299-6990. Thank you for your consideration of this request.

Respectfully

Andrea Utecht

Vice President, General Counsel and Secretary

Andrea Utecht/RAD

FMC Corporation

cc: Mr. David Brook (w/encl.)

APPENDIX 1

Shareholder Proposal and Supporting Statement of David Brook

November 16, 2010

NOV 1 7 REC'D

David Brook

*** FISMA & OMB Memorandum M-07-16 ***

Sent Via Fed Ex Next Day Delivery: Tracking Number:

*** FISMA & OMB Memorandum M-07-16 ***

November 16, 2010

Ms. Andrea E. Utecht Vice President, General Counsel and Secretary FMC Corporation 1735 Market Street Philadelphia, Pennsylvania 19103

Re: Shareholder Proposal:

Improving FMC'S Product Stewardship Program and Corporate Responsibility Principles

Dear Ms. Utecht:

I am writing to you as the Corporate Secretary, as required in the FMC Corporation ("FMC") Proxy Statement dated March 19, 2010, Page 16, as the FMC Officer requiring notification of my intention to submit a shareholder proposal for the 2011 FMC Annual Meeting. Enclosed is a timely shareholder proposal intended to improve the FMC Product Stewardship Program and enhance the Corporate Responsibility Policies of FMC Corporation. FMC has stated the due date for such a proposal is not later than November 19, 2010.

The proposal addresses the continuing issues relating to the pesticide Furadan (carbofuran), Marshal and others. I am sure that you can appreciate the rather unacceptable situation which has been generated about the manner in which FMC's Furadan continues to be misused around the world for poisoning all sorts of wildlife, fish and waterfowl.

Based upon the lack of zealousness in which FMC has reacted to this continuing problem, I am proposing more direct Board involvement to better examine these issues and to do two things: first examine the documented misuses of Furadan, and other misused pesticides, with the preparation of a report on these incidents and then institute better stewardship practices to prevent future occurrences and second, that FMC amend it Corporate Responsibilities Policies to address human equality issues so that FMC begins to treat third world people no differently than Americans (and Europeans) as it relates to pesticide product and pesticide residue exposure.

The issue of different standards of exposure for different people of national origin is very challenging and while I am sure that FMC has not and would not violate any laws, the fact remains that Americans and Europeans are currently protected from any residues of carbofuran in foods, (except Americans are still exposed to tolerances in imported sugar, bananas, rice and coffee) and third world people are not. This is an issue of Corporate Social Responsibility and how FMC defines its Corporate Responsibilities so that it can as it has stated in its own words better implement its "commitment to ensuring that we operate our business ethically, safely,

securely and in a sustainable manner. 1"

It is my understanding that FMC is also a signatory to the Food and Agriculture Organization of the United Nation's International Code of Conduct on the Distribution and Use of Pesticides ("Code"), revised version, reprinted 2006. This Code sets standards of conduct for pesticide management and provides goals for governments and corporations to establish more careful pesticide management in countries where there are limited or no governmental controls. As stated, compliance with this Code is voluntary. Based upon the principles of this Code and a review of FMC materials, there do not appear to be identified visible steps taken directly by FMC to properly internally institutionalize the provisions of this Code. An audit by FMC of its compliance with this Code may be one step to improve upon its performance. I suggest that for now, modifying FMC's Corporate Responsibilities Policies as provided in my proposal will immediately assist the Corporation in its efforts to better comply with the FMC adopted International Code of Conduct on the Distribution and Use of Pesticides guidelines.

While I am sure that FMC complies with international laws, this issue is not about laws as much as it is about FMC taking a defined corporate stance on protecting all humans equally from the use, misuse and environmental consequences of potent pesticides. While international product liability actions may not presently create a significant legal risk to FMC, this issue may change, as more and more countries begin to adopt United States and European type controls. My proposal begins to guide FMC in a direction which will ultimately protect the Corporation from these potential future legal issues and the potential damage to corporate profitability should these actions begin to proliferate.

Furadan, as a cholinesterase inhibitor, is a dangerous pesticide and it was previously a restricted use pesticide in the United States. Why should FMC as a United States Corporation, which acknowledges that it cannot allow Americans and Europeans to be exposed to any residue of Furadan continue to allow people in certain third world countries to freely buy it without any restrictions on the who can access it, use it, misuse it or expose humans to unacceptable product concentrations? I hope you will agree that FMC has a Corporate Responsibility to treat all people equally and this proposal requests the Board to act to establish a new direction in the form of an amended Corporate Responsibility Policy as to how FMC should act to treat all people equally, when it comes to pesticide safety, exposure and environmental impacts, regardless of the person's nationality using the United States as its base of applicability.

I am sure that you realize that both of these issues are not easily resolved, so this proposal attempts to set in place a mechanism whereby FMC will begin to make changes to correct each of these problems. Unfortunately a limit of 500 words in my shareholder proposal does not allow for a full analysis and presentation of these issues. Therefore, I am more than happy to further elaborate upon these details with you and/or other Officers of FMC as to why this proposal has merit and why I ask Management to support the incorporation of this proposal into the 2011 FMC proxy statement.

Quotation taken from FMC's Responsibility in Action, Welcome to FMC, webpage, http://www.finc.com/Default.aspx?alias=www.fmc.com/corporateresponsibility.

I have provided a title to this Proposal, "IMPROVING FMC's PRODUCT STEWARDSHIP PROGRAM AND CORPORATE RESPONSIBILITY PRINCIPLES," which I ask be used in the proxy statement. While I do not consider this title as part of the 500 word limit, the total words of the proposal, including this title is less than 500 words, which conforms to the SEC word limit requirements.

I also will shortly be providing you with a footnoted version of the proposal, so that you may confirm that all of the statements and information which I have provided in the proposal are proper and factually documented by reports, investigations and prosecutions. I do not consider this information as required in any way by the SEC submittal requirements, but I will present it as a courtesy in order to facilitate your review and hopeful support of this proposal.

PROCEDURAL COMPLIANCE WITH SEC REQUIREMENTS AND FMC BYLAWS:

In order to expedite your procedural review of this proposal and its conformance with the FMC Bylaws and Securities and Exchange Commission Procedural Requirements, I provide the following information to validate my right to present this proposal under 17 CFR 240.14(a)(8):

- 1. I have continuously held FMC Corporation securities for over a year with a value which has never dropped below \$2000. I purchased 75 shares of FMC Corporation stock on or about July 29, 2009. The number of shares is currently approximately 75.65.
- 2. My address is: *** FISMA & OMB Memorandum M-07-16 *** . In light of personal safety concerns, I request that my address NOT be disclosed in the proxy statement and that FMC require written requests should anyone seek to obtain my address. I also ask that I be notified of any such requests.
- 3. I fully intend to continue to hold these securities through the date of the next annual meeting and beyond.
- 4. I am enclosing a form prepared by the "record" holder of my securities, Fidelity Investments, which confirms that at the time I am submitting this proposal that I have held these securities for at least a year and the number of the current shares that I hold to be 75².
- 5. In conformance with the FMC Bylaws, Section 5, I intend to present my proposal to the shareholders at the annual meeting. Please consider this letter as notice that I request appropriate notification from FMC as to the actual 60 and 90 day window in which the corporation requests my timely notification of a formal request, should you require such.

SUBSTANTIVE COMPLIANCE WITH SEC REQUIREMENTS:

6. This proposal is intended to make recommendations on the manner in which the

Fidelity has not included the fractional shares I hold as part of my dividend reinvestments.

Ms. Andrea E. Utecht, Vice President, General Counsel and Secretary FMC Corporation

FMC Board and Management should institute improved actions to act as a proper steward for Furadan and other pesticides, such as Marshal. While the proposal makes recommendations on how the Board should investigate and report and then correct this problem, due to limitations on wording, it is not, and should not be considered exhaustive or limiting to the Board. There are many solutions to this problem which may not be listed and for which the best approach may not be known until the independent panel investigates. In fact, I have mentioned bittering agents as one idea and this may be now under investigation, although nothing has been concluded, that I am aware. Therefore, none of the listed solutions should be considered fixed or binding, but merely representative of possible recommended solutions.

7. FMC has stated previously in its "Furadan Facts³," that it acted after the airing of the Sixty Minutes episode to stop all sales of Furadan from Kenya, and to establish a buy-back program and that FMC's distributor discontinued sales into Tanzania and Uganda in April 2009. This information implies that by withdrawing the current stock of Furadan that the poisonings will stop. My shareholder proposal is specifically being presented because FMC has failed to adequately address the continued intentional poisonings in Kenya and also in other countries in Africa, and not just through the misuse of Furadan, but also FMC's Marshal, (carbosulfan) which is also being used for intentional poisonings. Since FMC did not mention it, I have to believe that Marshal is still readily available in Kenya, Uganda and Tanzania, so the problem of the intentional misuse of FMC pesticides, both Furadan and Marshal for poisoning wildlife has not be substantially addressed by FMC and so the problem of misuse of FMC products continues.

Based upon the information provided by FMC, on its own website⁴, it is apparent that FMC has taken actions in some attempt to address these continuing issues. These actions have not been sufficient to state that the problem is solved. My proposal will assist FMC with this process and hopefully aid in advancing a successful solution.

I look forward to speaking with you and others at FMC on the ways that we might work together to begin to address solutions to these issues. If Management and/or the Board would like to support my proposal, with changes, I would be more than happy to discuss any such ideas. I may be reached at OMB Memorandum Droby email at MA & OMB Memorandum M-07-16 would also ask that you provide me with a written acknowledgement that my proposal was timely received by your office.

Sincerely,

David Brook

Cc: Pierre Brondeau, President, CEO and Chairman of the Board 11/16/10 2:25 PM

http://www.furadanfacts.com/inthenews/tabid/3792/default.aspx?itemid=937

http://www.furadanfacts.com/FAQs.aspx

IMPROVING FMC's PRODUCT STEWARDSHIP PROGRAM AND CORPORATE RESPONSIBILITY PRINCIPLES

FMC's Furadan insecticide is killing more than just insects. Furadan (carbofuran) is being used to intentionally kill large mammals such as lions in Africa. Millions of migratory birds in South and North America have been unintentionally poisoned by Furadan. Even America's national symbol of freedom, the bald eagle, has been poisoned by Furadan. USEPA banned all carbofuran residues in domestic foods, effectively prohibiting its use in America on December 31, 2009. The European Union banned residues in foods in 2007.

While Furadan use is restricted in the United States, FMC has allowed its unrestricted international sale in corner stores in many third world countries. Anyone can buy it for a few U.S. dollars. Furadan is not just creating harm in far away countries, in the U.S., carbofuran has been found in the umbilical cord blood of women in Manhattan and it is possible residues of it were in your morning cup of coffee, since residues are allowed in certain imported foods.

The irresponsible and unregulated use of Furadan through a lack of product stewardship by FMC in Africa, Asia and South America is creating a nightmarish result prompting CBS Sixty Minutes to document the intentional misuse of this product to exterminate lions in Kenya. (http://www.cbsnews.com/stories/2009/03/26/60minutes/main4894945.shtml) There are new reports that Furadan and Marshal (carbosulfan) are being intentionally misused to exterminate wildlife in other African countries, including Uganda, Tanzania and South Africa and to poison fresh water fish and waterfowl sold for human consumption.

While FMC acted to stop sales in Kenya, it has not stopped the problem from spreading to other countries. FMC has failed to responsibly control the misuse of Furadan, thus jeopardizing FMC's reputation and profitability. As shareholders, the next embarrassing news story or potential litigation over FMC's failure to practice honest product stewardship may harm our investments.

FMC should also amend its Corporate Responsibility Policies, since it affords Americans greater protections from exposure than third world people, who are allowed unlimited exposure to Furadan.

RESOLVED, the Shareholders request the Board establish a legitimate product stewardship program by:

- Implementing immediate moratoriums on sales and withdrawals from the market of Furadan, and any other FMC pesticide, where there is documented misuse of products harming wildlife or humans, until FMC effectively corrects such misuse;
- Preparing and publishing, at reasonable cost, excluding propriety information, a
 product stewardship report by October 2011, and annually thereafter, addressing all
 documented product misuses worldwide since 2005 and proposing changes to
 prevent further misuse including: working with foreign governments in training and
 educational programs, licensing applicators, restricting access, incorporating
 bittering agents and funding programs to prevent loss of livestock and wildlife;
- Establishing an independent scientific advisory panel to prepare these reports; and

 Incorporating in the FMC Corporate Responsibility Principles a human equality declaration stating that FMC will treat third world people no differently than Americans as it relates to U.S. pesticide exposure limits.

I, therefore, urge Shareholders to vote FOR this proposal.

The following is not part of the proposal.

Submitted on: November 16, 2010

By: David Brook

*** FISMA & OMB Memorandum M-07-16 ***

Owner of 75 + shares, since on or about July 29, 2009.

FMC CORPORATION

REQUEST FOR NO-ACTION LETTER

DECEMBER 28, 2010

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- A. Investigative Report of Maasai Mara Game Reserve by the Kenya Pest Control Products Board dated June 16, 2008
- B. Company's FMC Investigation of Recent Allegations of Carbofuran Wildlife Poisoning in the Maasai Mara Reserve in Kenya
- C. Environmental Stewardship Guidelines USA
- D. Social and Environmental Report 2006 South America
- E. FMC Training Guide South America
- F. Product Stewardship Training Program Thailand
- G. FMC Product Stewardship and Training Materials Central America and Mexico
- H. US Environmental Protection Agency Overview of Field Data and Incident Reports
- I. American Bird Conservancy Avian Incident Information on Carbofuran
- J. Statement of Edward Kikta, Ph.D on unreliability of analytical testing method used by Kenya Wildlife Service.
- K. Kenya Wildlife Service Report Concerning Maasai Mara Game Reserve
- L. European Union Maximum Residue Limits for Carbofuran in food
- M. See, <u>Carbofuran and its Toxic Metabolites Provide Forensic Evidence for Furadan Exposure in Vultures (Gyps africanus) in Kenya</u>, Peter O. Otieno, et al., Bull Environ Contam Toxicol, Published online: April 7, 2010, http://www.peregrinefund.org/pdfs/ResearchLibrary/2010Carbofuran.pdf
- N. "Investigation of deaths in an area of groundnut plantations in Casamance, South of Senegal after exposure to Carbofuran, Thiram and Benomyl," Maria, Ugenia Nia Gomes Do Espirito, et al Journal of Exposure Analysis and Environmental Epidemiology (2002) 12, 381-38810.1038/sj.jea.7500239 10.1038/sj.jea.7500239, http://www.nature.com/jes/journal/v12/n5/full/7500239a.html.



PEST CONTROL PRODUCTS BOARD

Internal Memo

TO: MD/SECRETARY

Ref: PCPB/32/V/75

From: F.N. MUCHIRI

Date: June16, 2008

Subject: Suspected use of Furadan (Carbofuran) in Poisoning of Lions in Maasai Mara Game Reserve

ANALYTICAL RESULTS

Nine samples of the soil and plant tissues were forwarded to KEPHIS and Government chemist on 13th May 2008 for extraction and analysis to determine whether there was carbofuran. The results of analysis are as indicated below:

KEPHIS RESULTS

Sample Code	Sites	Results	Concentration (ug/mg)
A08/08	2A	Not detected	<lod< td=""></lod<>
A09/08	2B	Not detected	<lod< td=""></lod<>
A10/08	- 2C	Not detected	<lod< td=""></lod<>
A11/08	2D	Not detected	<lod< td=""></lod<>
A12/08	2E	Not detected	<lod< td=""></lod<>
A13/08	1A	Not detected	<lod< td=""></lod<>
A14/08	1B	Not detected	<lod< td=""></lod<>
A15/08	10	Not detected	<lod< td=""></lod<>
A16/08	10	Not detected	<lqd< td=""></lqd<>

¹A. (hole) from which the study sample was drawn located next to the staff quarters of the Mara Conservancy.

¹B-Scooped soil form site 1A.

¹C- Site approximately 2 metres from site 1A and on bere soil under the trees.

¹D-Site approximately 10 metres from site 1A with grass vegetation,



2A-Site located within the sukums wiki shambs from which the researcher had drawn a study Sample. No vegetation cover except the sukuma wiki plents

2B-Soil from the edges (scooped) of site2A.

2C.-Site approximately 1 and a half feets from altes 2A and 2B.

2D-Site at the edge of sukume wiki strambe on the bank of river Mara next to which there is grass vegetation.

2E-Sukuma plants with solly roots uprooted from next to site 2A and 2B.

LOD= Limit of Detection

NOTE: No carbofuran was detected from all the samples that were enalyzed at KEPHIS.

GOVERNMENT CHEMIST RESULTS

Sample 2D - Site at the edge of sukume shamba on the bank of river Mara next to which there was grass vegetation) tested positive for carbamate.

Sample 2E - Sukuma plants with soll roots uprooted from next to site 2A & 2B no vegetation cover i.e. sites located within the sukuma wiki shamba from which the researcher had drawn a study sample also tested positive for carbamete.

DISCUSSIONS;

No carbofuran was detected in all the samples analyzed at KEPHIS as all were below the limit of detection. This does not mean that they all tested negative as this was a quantitative analysis. However two samples (All from sukuma wiki shamba) had carbamate according to the qualitative results from the Government chemist.

The presence of carbamate in the sukuma wikl shamba seems to agree with the researcher who claims to have conducted a study following the death of the flons. However it is not clear which carbamate as there are many posticides with a carbamate group in their structure.

N/B: - Carbamate (furadan) is registered for use in kales at nursery level.

All the sites located within the fenced area had no carbamate contrary to the results contained in the study report. This included the site which had been referred as having carbofuran in the report.



CONCLUSION:

Contrary to other areas where there is human wildlife conflict, it is not possible to comprehend why anyone would intentionally poison wildlife in the Maasal Mara game reserve (Mara area) which is approximately 100km inside the park. Given that the two samples that tested positive were located within a sukuma wiki shamba indicates that the product had not been misused as this is authorized for use in the shamba according to the label instructions.

However, the amount of chemical was below level of detection (LOD) quantitatively. This means that the amounts were too small and the high popotamuses would require to consume tones and tones of the sukuma wiking order to get the right dosage to cause death.

Normally lions do not feed on dead animals. This can only happen incase of very old or sick lions that are unable to hunt for themselves.

From the report, no samples of the dead hippopotamuses were analyzed to cetermine the killer agent. It is not therefore correct to connect the death of lions to the carbofuran detected in the sukuma wiki shemba.

The report claims carbofuran was detected within the site where Serena Hotel is located and is linked to the fogging which is routinely done to control mosquitoes. Furaden is normally formulated in granular form and can therefore not be fogged. The report also indicates that lions were noted sickly on 2/4/08 while the fogging was done on 8/4/08. These animals were sick before the fogging was done and it is not correct to link the fogging with the sickness.

From the outcome of these investigations, it is concluded that more studies should have been done before concluding that furadan (carbofuran) was the cause of death of the lions. In order to avoid doubt, it is recommended that incase such an incidence is reported the study be conducted in an open scientific manner involving key stekeholders (i.e. PCPB, KWS and Conservancy).

Thank you.

F.N. Muchiri.



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SUSPECTED USE OF FURADAN (CARBOFURAN) IN POISONING WILDLIFE IN KENYA.

Carbofhrens belong to the chemical group of carbamates whose mode of action is systemic with predominantly contact and stomach action. Furadan is registered in Kenya for use as an insecticide/nematicide for use on —, bananas, dry beans, pyrethrom, vegetables, pincapples, maize and coffee by manual application. Registration of any pest control product in Kenya involves a rigorous process of submission of a full dossier, evaluation of information so submitted to ascertain safety of the product to users, animals and the environment, efficacy testing under local conditions and consideration of any other issues as prescribed under the Pest Control products Act cap 346. Products are only registered for uses they have been tested for in Kenya

It is important to note that all pesticides are toxic and can cause negative effects to users and the environment if they are not used according to label instructions. It is an offence under the Pest Control Products Act Cap 346 to use a product for a use other than the registered one. The toxicity of a pesticide depends on various factors including the formulation type. Various classes of pest control products are allowed for use in this country including those in WHO Class I that are highly toxic but are restricted for use. Carbofuran belongs to the relatively less toxic class of WHO class II and is only available to the general public in form of granular formulation whose hazards are less compared to liquid formulations.

A few cases of suspected misuse of carbofuran in poisoning wildlife have been reported in Kenya in the recent past. For example in 2004/2005, some incidences of suspected poisoning of lions in Laikipia area were reported to the Pest Control Products Board for investigations. On investigation, strychnine and not carbofuran was identified as the killer agent.

Another incident was reported in 2006 in Tsavo West and upon investigations, issues of human wildlife conflict featured. Analytical results of the stomach content of the dead lions revealed presence of a carbamate and an organochlorine. No Carbofuran was detected.

A more recent case of suspected poisoning of lions and hippopotamuses was reported in the Mara Triangle in May 2008. Contrary to a theory that was being advanced by an NGO, the Mara Conservancy group, there was no connection found between the dead animals and the suspected chemical. All the samples analyzed were negative for carbofuran and there is no likelihood of human/w idlife conflict in the Mara Triangle since it is deep within the Maasai Mara National Reserve.

General observations

There seems to be a spirited campaign from conservationists aimed at pushing for banning of Furadan. In Kenya. The process of listing a chemical under Annex III of the Rotterdam convention is very clear. Sheer ruls-use by itself does not qualify as a reason for the listing. There must be sufficient information on the toxic effects under conditions of normal use (Not intentional mis-use). It is punishable under the Pest Control Products Act for anyone to use a product contrary to the directions on the label.

It is not possible for even birds to come into contact with the Furadan granules if used properly. Similarly accidental poisoning as a result of feeding on plants is also minimal.

GLADYS N. MAINA

Managing Director/Secretary



SUMMARY

FMC Investigation of Recent Allegations of Carbofuran Wildlife Poisoning In the Maasai Mara Reserve in Kenya

In early April 2008, the Mara Conservancy, a conservation group, reported that carbofuran, specifically the Furadan brand of carbofuran made by FMC Corporation, was involved in the deaths of several lions in the Maasai Mara Reserve of Kenya in the area of the Mara Serena Lodge. According to the report, carbofuran was not the direct cause of the lion deaths, but did incapacitate them as a result of secondary poisoning by feeding on hippos which allegedly died from carbofuran toxicity.

The Kenya Pest Control Products Board (PCPB), the government agency that licenses pesticides, conducted an investigation in early May 2008 and concluded that there was no evidence to link carbofuran to the hippo and lion deaths. Subsequently, FMC Corporation conducted its own investigation of the incident and also concluded that the incident was highly unlikely to have involved carbofuran based on several lines of evidence.

The following lines of evidence lead one to conclude that the connection between carbofuran and the incident is implausible.

Physical Evidence of Furadan Presence

As part of any investigation, FMC first determines if there was any physical evidence pointing to the involvement of Furadan in an incident. In the case of the Maasai Mara incident, the Mara Conservancy report does not cite any direct physical evidence that Furadan was used in the area and subsequent investigations by the PCPB and FMC failed to turn up any evidence as well. There were no Furadan containers and no observations of blue granules in or on the animals involved, or around the Serena Lodge and staff garden. There was no record of Furadan ever having been used at Serena Lodge and the closest possible AgroVet shop appears to be 40 km away. In addition, there were no reports of blue staining of any organs and tissues of hippos or lions.

Symptomatology

According to the Mara Conservancy report, the first symptoms of intoxication in lions occurred three days after feeding on the hippos. Symptoms manifested as polyneuropathy or delayed neurotoxicity, a condition involving die-back of long neuronal axons and impairment of an animal's ability to walk.

Animal models show that carbamates cause acute toxicity with fast onset of symptoms, but do not cause delayed neurotoxicity. Carbofuran did not cause delayed neurotoxicity in a well-conducted GLP study required for registration. Unlike organophosphate pesticides, carbamates are not known to cause this effect. The collective information in humans indicates that exposure to relatively high doses of some carbamates may result in toxicity in humans that continues to exhibit after the initial severe acute toxic symptoms have been treated. In some cases, this longer-term toxicity has been reported as delayed neurotoxicity, but the diagnoses were based on non-invasive measurements and not direct

nerve biopsy, except only in one case. In all the reported cases of longer-term toxicity, however, severe acute toxicity preceded the later effects, and one report states that the longer-term symptoms result from the severe initial acute toxic effects.

No symptoms of acute toxicity were reported for any of the affected lions during the first days after consuming hippo meat. This is unusual because Furadan intoxication is associated with a quick onset of symptoms, just as with other carbamates. Symptoms of acute toxicity would have been observed if lions were eating poisoned hippos. Furthermore, Furadan intoxication is well-known to be reversible with a half-life of about 3-4 hours. Any inhibition by carbofuran following exposure in hippo meat would have completely reversed within about a day. Therefore, the weight of evidence from symptomatology does not support carbofuran intoxication of the lions.

Probability of Hippos Dying as a Direct Result from Ingesting Carbofuran Contaminated Plants.

It had been alleged that the hippos died as a direct result from ingesting carbofuran contaminated plants. Carbofuran has an extensive database of health and environmental tests that include information on persistence and mobility in soil, residue uptake in plants and transfer of residues from plants to animals. Using this information, FMC scientists calculated that if a small female hippo weighing 1300 kg had consumed vegetation containing the maximum estimated carbofuran residues in the vegetation, she would have had to consume 4000 kg of vegetation or 100 times her maximum daily food intake to reach an LD50 dose. This makes it improbable that the hippo died from ingestion of carbofuran residues in vegetation.

Probability of Secondary Poisoning of Lions

The Mara report stated that two different lion prides were observed feeding on two separate dead hippos. The Serena pride fed on hippo 1 closest to the Serena garden. The Kijana pride fed on hippo 2 about 3 km upstream. As pointed out previously neither hippo showed evidence of having been baited with Furadan granules, which left secondary poisoning as the only other alternative. Laboratory analysis of hippo 2 reported carbofuran present, but none of the lions in the Kijana pride that fed on hippo 2 showed any symptoms of poisoning. Only the Serena pride showed symptoms and this hippo was not checked for the presence of carbofuran. Although it was improbable that the hippos died from ingestion of carbofuran, we calculated how much hippo meat a lion would need to consume in order to reach a lethal dose from a hippo allegedly poisoned by carbofuran. FMC scientists calculated that a small female lion of 87 kg feeding on a hippo with the theoretical maximum concentration of carbofuran in its tissue would need to exceed its normal daily food consumption by 700 times to reach a lethal dose of carbofuran.

The evidence makes it unlikely that carbofuran was involved in the incident.

Laboratory Analysis

The allegation of carbofuran involvement in the incident was supported by an analysis of samples conducted by the Government Chemist Department for the Mara Conservancy using thin-layer

chromatography (TLC). The Government Chemist found trace levels of carbofuran in soil and plant samples and reported trace levels of carbofuran in the stomach contents of one lion and in the stomach contents of the one hippo analyzed. The second lion did not have detectable levels of carbofuran. No carbofuran residue was found in the river water.

The KEPHIS lab used high pressure liquid chromatography (HPLC) to analyze soil and vegetation samples as part of the PCPB investigation, but failed to find any carbofuran residues. FMC did not re-analyze any of the samples, but instead interviewed chemists from both laboratories and evaluated the reliability of the two analytical methods used. We consulted with Dr. Edward Kikta, a fellow of the American Institute of Chemists, former chairman of the American Society for Testing Materials committee on chromatography and FMC research fellow in analytical chemistry (statement attached). In summary, the Government Chemist used thin-layer chromatography or TLC, a very simple useful qualitative tool for the screening of relatively controlled well understood or limited systems. It is not however, a quantitative method for pesticide analysis nor a reliable tool, on its own, for the definitive identification of a substance. The reliability of the method is even less certain when control matrix blanks are not included in the analysis as was the case in the Government Chemist Dept. analysis. The KEPHIS lab used High Pressure Liquid Chromatography or HPLC, a more sophisticated tool that can reliably identify and quantify pesticide residue levels.

Therefore, the analytical results supporting the carbofuran as the causative agent in the incident in the Maasai Mara are unreliable.



ENVIRONMENTAL
SIEVARDSHIP

Meuradan 45



RESPONSIBLE PESTICIDE USE REDUCES RISKS TO THE ENVIRONMENT

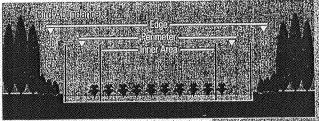
Frequently, farmland borders wildlife habitats which provide shelter and food for a variety of birds and other wildlife. Special attention is required when applying pesticides to maintain a balance between agricultural productivity and natural resources. Proper pesticide use allows farmers to continue farming efficiently and to continue using the products they need to maintain consistently favorable yields. Understanding and abiding by the product label is the most important step to product stewardship.

PROTECTING BIRDS AND WILDLIFE

Studies show that more birds are found at the perimeter and edge of the field than in the inner field area. These studies from praine and woodland habitats in lowe and Illinois found five times as many birds at the field perimeter and 20 times more birds at the edge in a prairie habitat and 150 times more birds at the edge in a woodland habitat.

Following are a few important tips to protect birds and wildlife from the effects of pesticide exposure:

- Avoid spraying of chemical drift outside of the treatment area.
- When maintaining or cleaning, sprayers of applying pesticides; avoid chemical puddling. If puddling occurs, decontaminate the rinsate with lime and chloring, rake it and bury it.
- Do not apply pesticides immediately before or duning irrigation on fields near, waterfowl nesting areas or in fields where waterfowl are known to repeatedly feed.
- Be sensitive to edge habitats, Turnoff the isprayering when turning on end rows, and spray end lows after the field is sprayed
- For rollar treatment of Furadan® 45 insectioned pematicule to fields where a prior mature crop failure or seed head shartening has resulted in excessive surface residues of crop seed, till the field to bury the seed prior to making application.



Data from Best, Whitmore & Booth, American Midland Naturalist. Average number of birds based on classis data from three farms each in lower and Illinois.

PROTECTING AQUATIC ORGANISMS

Drift and runoff from treated areas may be hazardous to fish. There are a number of simple steps to take to prevent runoff from entering streams, lakes rivers and ponds

• Do not apply Furadari "IF insecticide/ nematicide directly to water."

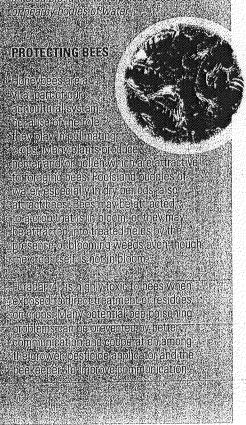
• Filly causate and this exhemical application equipment a said stance from water supplies

• Jeave no spray putter strips around surface water supplies wells of impation directly.

• Maintain grass water ways and crass of forage strops in fields as butters to help retard the runoff or so till taming them calls into water supplies.

Use contoutarming or no till farming on ecolibie lands to help keep runoff ou orangalby bodies of water in

PROTECTING BEES



and protect bees from the effects of pesticide exposure, consider:

- · Bees forage up to three miles or more from their hive under some conditions, and they begin foraging early in the day. Accordingly, if the beekeeper is to move or confine his bees, he must do so the night before any treatment. Notifying the beekeeper at least the evening before the insecticide is to be applied can help to avoid problems.
- · Since many decisions to use an insecticide are made only a few hours before the application is made, growers and applicators should be aware of the locations of hives within three miles of their crops. Local county Extension personnel may be of assistance in providing access to the names of beekeepers in your area, or the contact number for a State Apiary Inspector, or equivalent official.

If insecticides are to be used, the following steps can help reduce potential harm to bees:

- Do not apply pesticides or allow them to drift to blooming crops or weeds if bees are in the treatment area.
- Apply insecticides in the late evening, night or early morning when fewer bees will be foraging.
- Do not spray when winds favor drifting.

Additional protective information may be obtained from your Cooperative Agricultural Extension Service.



REDUCING SPRAY DRIFT

It is the applicator's responsibility to manage spray drift. Maintaining your equipment and choosing the proper application timing will help minimize drift and avoid adverse effects to nearby fields or wildlife. To reduce spray drift.

- Use high flow rate nozzles to apply the highest spray volume.
- Use the lower spray pressures recommended for the nozzle.
- Use a nozzle type that is designed for the intended application.
- Set the boom height at the lowest labeled height (if specified) that provides uniform coverage. With ground applications, the boom height should remain level with the crop and have minimal bounce.
- Apply when drift potential is lowest wind speeds between 2-10 mph.
- When applying in hot and dry conditions, set up equipment to produce larger droplets to reduce effects of evaporation.
- · Replace inappropriate or worn nozzles.

• **Do not** apply during temperature inversions.

 Avoid spraying when wind direction is toward sensitive and/or known habitats of endangered/ threatened species.

ANTI-BAITING MEASURES

Illegal use of pesticides for predator baiting is not only unlawful, it poses a risk to other non-target species, including birds and livestock, and it poses a threat to the continued availability of products. To continue providing the American farmer the best products possible, please help to combat the use of pesticides for baiting.

Signs of pesticide misuse for baiting include:

- Attempts by non-certified applicators to purchase federally registered restricted use pesticides.
- Unusual purchase amounts or purchases of pesticides at unusual times of the year.

The Federal Insecticide, Fungicide and Rodenticide Act (FIFRA) alone carries criminal penalties of up to one year in jail with a maximum fine of \$50,000. Recent convictions have upheld the maximum penalty. Plus, violators could also face losing certain rights, such as their right to grazing on public lands. If protected or threatened species are exposed to pesticides due to baiting, additional jail terms and penalties may be imposed.

Proper stewardship of the environment is everyone's responsibility. Always read and follow label directions.

FMC

FMG Corporation Agricultural Products Group 1735 Market Street

1735 Market Street
Philadelphia, PA 19103
1-888-59-FMC-AG * cropsolutions.fmc.com

ead and follow label directions. Furadan is a restricted use pesticide. HMC and Furadan are trademarks of FMC Corporation.
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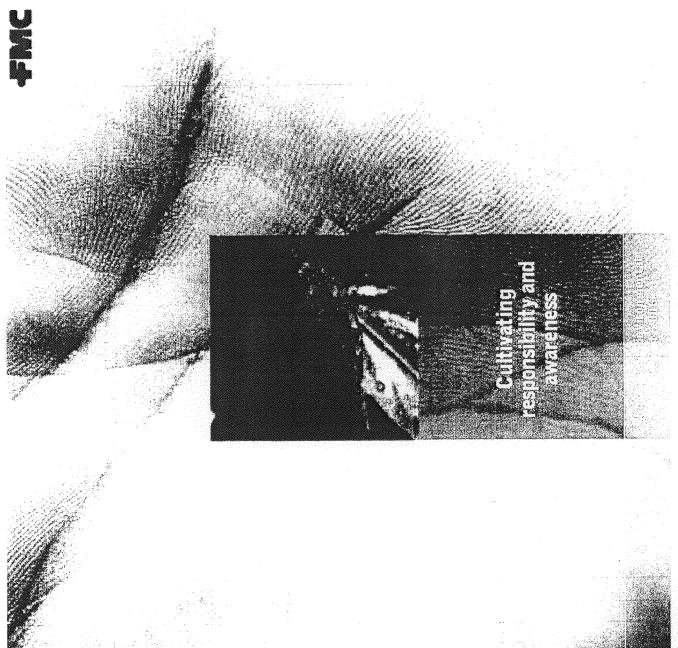


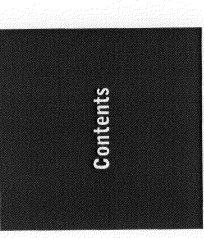
CONCLUSIONS

- Taken together data from incident reports and the available field studies do demonstrate that when carbofuran is used as currently registered, adverse effects in wildlife can and do occur under field conditions. Including:
 - Mortality
 - · Sublethal effects
 - Incapacitation
 - Reproductive effects

51

United States Environmental Protection Agency





Working with a commitment to innovation

A Message from the CEO

Working for a better world

Working with competitiveness

Working with solutions

Working with management

Working with transparency

Working with respect for the environment and rural families

Working in the communities

Working in the communities

Working in the communities

Working for the future

Balance Sheet

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build a better world in the rural areas with our "Working with Responsibility," Program, thanks to well-defined strategles 2006 was a year full of achievements for the FMC team. We attained encouraging results in business and helped and a team of motivated and committed professionals.

our own employees. Children, women, farmers, agribusiness We developed initiatives that involved all representatives of the production chain and relied on valuable assistance from These initiatives demonstrate the team spirit and attitude specialists, professors, clients, distributors and, especially, distributors and journalists received guidance and training on the importance of the "7 Habits of Responsible Care". technicians and managers, agronomy students, clients, that made FMC a benchmark for the development of

a commitment to Working with immovation

pioneering and innovative programs aimed at the safety and welfare of Brazilian rural families.

environmental responsibility and food safety. But, above all, improvement and achievement of goals that makes FMC, reach with our initiatives, achieve a prominent position as the sustainability of Brazilian agribusiness. We are proud the people that work with us, as well as all those we can responsible professionals and citizens, and contribute to everyone's efforts, ablities, commitment and desire for to making the world a better place. It is the union of all of our employees' commitment to occupational health, make a difference with initiatives that truly contribute We believe that with this attitude each one of us can we are proud of our contribution to a better world.



Antonio Carlos Zem Latin America General Manager

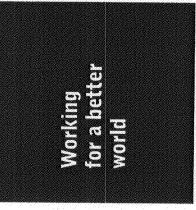


Our work is guided by the constant search for improvement in business and in the "cultivation" of products with the goal of attaining sustainable development. In this scenario, the people that make FMC Agricultural Products a solid and transparent company play a prominent role. They are like heroes of a story that every day brings new solutions, always supported by an ethical attitude when carrying out all activities at various levels, such as marketing practices, respect for the client, corporate citizenship or in dealings with employees, communities and the public in general.

In this manner, FMC strengthens its commitment to social environmental responsibility with initiatives that touch on everything from the production process to relations with various publics: employees, clients, shareholders or the community.

In order to guide these initiatives, FMC created in 2003 the social and environmental responsible care program entitled Working with Responsibility, which has been increasingly successful with new initiatives being added every year. As the program is further enhanced, more and more sectors of society are becoming involved through partnerships and the projects that involve universities, technical colleges, social committees, opinion leaders, among others. Since the program was created, it has reached 148,300 persons through educational training and activities, spreading the massage of good agricultural practices through the "7 Habits of Responsible Care" that summarize the correct and safe use of chemical

products in a clear and objective manner. In addition to Working with Responsibility, FMC is also a pioneer in the development of other innovative programs for reaching its publics, strengthening partnerships and involving its employees. These programs make the company a relationship



specialist, setting it apart and inspiring admiration from its employees, suppliers, clients and the communities where it operates.

Prominent among the client relationship channels, Prima Class is a pioneering effort in the agribusiness industry and is currently the most complete program of agricultural incentives and benefits.

A tool that creates a communication channel and

values preferred clients, allowing integration with the company's work teams to produce good results FMC is very proud of this program. Other programs, such as Sinfonia Club, Top Class and Top Class Consult, are part of this same special client service philosophy.

This philosophy is also present in the commitment made to communities where the company operates through its support of social activities carried by the wives of Prima Class preferred clients. This project is known as Women of Fiber. It is a project that promotes citizenship by creating a social responsibility network to provide social, educational and health assistance through building, restoring, improving and buying equipment and materials for the benefit of children, senior citizens and people with special needs.

These initiatives demonstrate that the company's relationship with its publics goes beyond only business. All these projects are a reflection of the internal environment of the company, which has civic duty in its "DNA" and a strong desire to make the world a better place. The company's Volunteer Program relies on the participation of employees who make a difference by building and improving the quality of life of communities where FMC is present.

This report is evidence of our belief that commitment, involvement, responsibility and attitude are the fuel for cultivation of a better world.



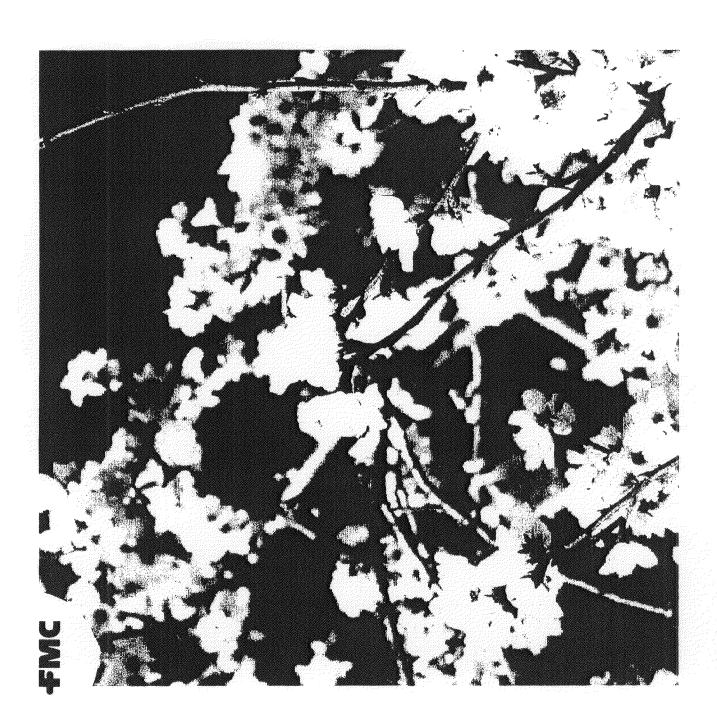












being attacked by various pests that might destroy the entire crop. In 1883, retired inventor John Bean introduced a more efficient insecticide spray pump. California, USA, 1883. The almond orchards were The invention saved the crop and so began the history of FMC Agricultural Products.

battenes, construction, glass, ceramics, plastics, as trademark of this multinational American company This creative and innovative spirit has been the industries, such as medications, food, textiles, since those early days. FMC operates in many well as in the agricultural sector.

herbicides, insecticides, nematicides and fungicides for crops such as impated and upland rice, cotton, Since 1978, FMC produces and markets in Brazil sugar cane, corn, soy, tobacco and potato.

relationship with clients, guided by a less commercial molecules, FMC also broke new ground in its in addition to innovative and more efficient and more caring outlook.

of nurturing not only prior to sales, but throughout It is a relationship that the company makes a point the year, and for many years to come.

(GO), Culabá (MT), Igarapava (SP), Cachoerinha (RS), In addition to the plant in Uberaba, FMC has offices in Campinas (SP) and Culabá (MT) as well as seven distribution centers strategically located in Goiânia Londrina (PR) and Luís Eduardo Magalhães (BA),

important agricultural production areas in Brazil.

FMC had a net income of R\$ 543 million in 2006 with employees (permanent, outsourced and temporary), and, above all, a motivated team willing to innovate main agricultural regions in Brazil in direct and close investments in research, new technologies, safety and exceed goals. There are approximately 400 most of them working directly in the field in the contact with farmers and distributors.

growing responsibly and profoundly committed to FMC's recipe for continuous growth. Especially for the community and the environment. A conscious and an excellent relationship with clients. This is Research, technology, human talent, motivation growth that promotes awareness.

> competitiveness Working with

96

1961

plant for manufacturing to produce citrus crop equipment. A chemical FoodTech is founded Plants are built; in Araraquara (SP), The 70s) FMC Corporation

partnerships are formed The 80s) CBV - Energy Division is acquired and new Specialties business.

2001

Machinery) are split into FMC business divisions (Chemicals and

Acquisition of Niagara Chemical Corporation Sprayer & Chemical Food Machinery & 1943) 1948) Company is incorporated. Merger of Bean Company with Anderson-Barngrover. The Bean Manufacturing The name is changed to Food Machinery Corporation. Company is created. Bean Spray Pump 1904 (626) 1928)

Division products for the food industry. The 60s) The first orange juicer is Operations start with the local production of The 50s) produced. sprayers.

Uberaba (MC). Start of distribution of BioPolymer agrochemicals is built in

two different companies: FMC Chemicals and FMC Technologies. FMC's performance is based on strong corporate principles that allow it to continue offering products that increase productivity in the field and consolidate its competitive position and strategic alliances.

Sustainability, increased profitability and return on investments for the company, shareholders and clients are not only financial figures, but also include values such as responsibility, relationship with different publics, occupational health, quality and safety of products and environmental protection.

Since it works with chemical products, FMC is fully aware of these responsibilities. The environment, health and safety of employees, family members

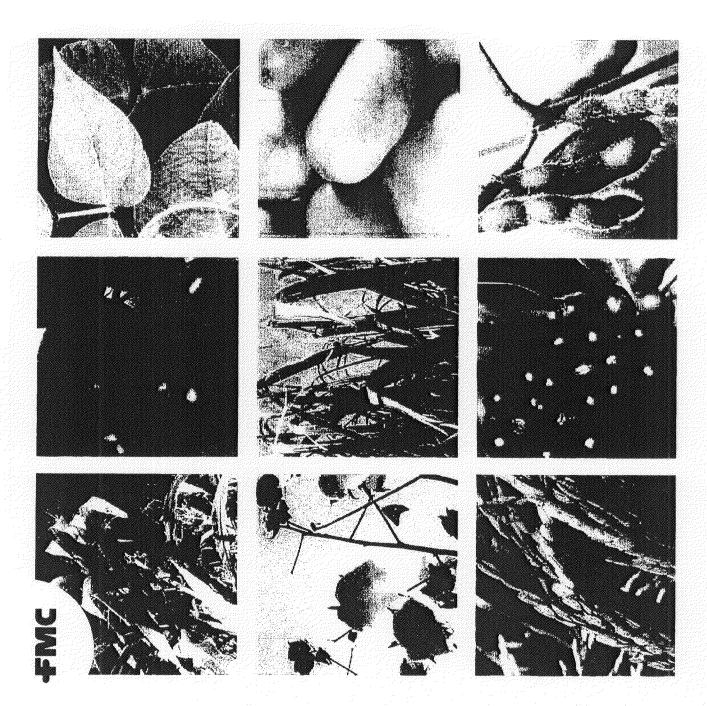
Working with values

Mission

"TO GROW IN A PROFITABLE AND SUSTAINABLE MAINNER WITH STRATEGIC FOCUS, THROUGH EXTRAORDINARY PEOPLE."

and society in general are included in the business management principles and are a part of its fundamental values.

At FMC, everyone is responsible for the development and continuous and measurable improvements related to these issues.



Inbines

MESTAR.

Nematicides

Chemical products have been used for more than 40 years because of their efficacy in controlling a great variety of pests, diseases and weeds that infest crops. Without these products, food production and quality would be seriously affected, causing prices for agricultural products to soar.

For this reason, the agricultural market is extremely competitive worldwide. In Brazil, the situation is not different: ten companies account for 85% of the market, which shows that the agrochemical business requires substantial financial investments, Only companies that have the ability to operate with responsibility and are committed to quality and can take on the inherent risks of this industry are able to participate in this market.

FMC excels in this scenario since it seeks to join research, technology, technical knowledge and professional competency in developing solutions that provide better crops, higher productivity and lower risks. FMC broke new ground by offering molecules with lower environmental impact, lower concentration of active ingredients per planted hectare and by reducing, and even eliminating, packaging.

FMC monitors and guides all the processes, from new product development to the correct use and disposal of containers, in order to ensure crop quality and protect farmers' health and the environment.

 SRIDAG - Sindicato Nacional da Indústria de Produces para Defesa Agricola (Brazilian Union of Agrochomical Producers)

O FENIX Pounce 384 EC FURAZIN' ATING T ada : © **G** 3 Marshai SANSON SOLARA Ganit DISC WER AUR. R.A. SINERGE Can Es

Insecticides

Herbicides

Furadan Furadan Furadan Furadan

with solutions

Fungicides

Emmen

TANANA WATER





People are the main asset for consolidating business continuous communication and following a policy of investing in the professional growth of every single of its main asset, employing assertive, sincere and aimed 100% at the development and recognition growth. FMC's Human Resources management is employee.

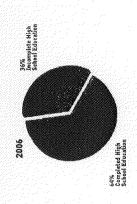
enhancing management skills related to the business, Development Program (PDG in Portuguese), carried out in partnership with the Dom Cabral Foundation, goal is to promote the development of new talents One of the main FMC initiatives is the Management and increase the quality of FMC management by one of the best business schools in Brazil. The key processes and people.

Entrepreneur" targeted at interns. The program encourages new opportunities and professional promotes the development of new talents and Another important program is "Young FMC development The improvement of employee education is another School Program was created to provide high school level education to plant workers in Uberaba (MG) in positions directly related to the production process one of FMC priorities. For this reason, the Back to in the Manufacturing area.

2006, 100% of the workers had finished elementary considerably once the initiative was implemented, in school, 36% were studying at the high school level satisfactory and effective. When the program was introduced in 2002, 35% of the plant workers had not completed high school and 64% had not even finished elementary school. The scenario changed The results of this initiative have been very and 64% had completed it (graphs).

36% Incomplete High School Education 2002 - start





that encourages new ways of learning and improving training, development and recognition of employees through courses, seminars, talks and other ways of These initiatives are part of a policy geared to the acquiring technical, administrative, managerial and sehavioral knowledge.

consolidate development initiatives and guide career increasingly improve the organization's performance standards based on competency models. In addition the level of contribution from each employee to the results, FMC relies on an incentive methodology to planning by encouraging personal and professional Education and training must reflect on the quality to assessing business results, this tool measures business and promotes achievement recognition. of work, in order to measure this program's As a result of this process, it is possible to growth.

Rounding off this people investment process, the company offers a package of benefits aimed at ensuring employee quality of life, security and welfare.

3enefits:

- Health Insurance · Life insurance
- Private pension plans
 - Discounts at stores
- Transportation Food
- Reimbursement for medications Dental Assistance
 - Medical Assistance



The best market practices are applied to FMC's business management – 6 Sigma, ISO 9000, "Cross Contamination" Program, Kaizen, continuous improvement methods, among others – are included in world class manufacturing process. These practices ensure competitive solutions for our clients, adding value to their business.

Additionally, the fulfillment of all legal requirements regarding the environment, employee health and safety ensure the transparency of operational management and the continuous supply of services. FMC won first place statewide and second place nationwide at the National Confederation of Industry in the category of production process quality and productivity.

Plant Quality Policy, Uberaba (MG)

FMC considers quality to be the strategic factor for increasing the reliability of its products and services in order to meet all client satisfaction requirements as well as those focused on people and the continuous improvement of processes, health, safety and environmental protection.

HSE - Health, Safety and Environment

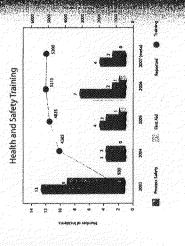
FMC is a signatory to Responsible Care program through the Brazilian Chemical Industry Association (Abiquim in Portuguese). This program was created by the Canadian Chemical Producers Association and was adopted by 50 countries. It is an efficient tool for environmental growth that includes safety of premises, processes and products, health conservation at the workplace, as well as environmental protection, not only on the part of FMC, but of the entire integrated production chain.

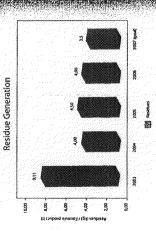


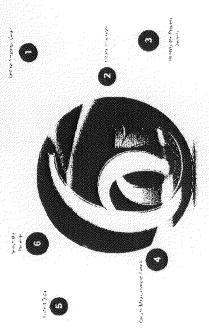
Health, Safety and Environment Policy

PMC Corporation is aware of its responsibility for protecting the environment as well as the health and safety of its employees and their families and society in general. The areas of Health, Safety and the Environment are fundamental values for the company and are included in the business management principles that aim to benefit employees, clients, neighbors and shareholders. All FMC employees are responsible for the continuous growth and measurable improvements related to these issues.

Optimizing the use of natural resources and implementing continuous improvements in residue control, recycling and disposal.









It is fundamental to build and establish an open dialogue with all publics related to the company. FMC Agricultural Products firmly believes in this concept and all its communication activities rely on the principle of transparency, which reflects on the company's institutional image.

FMC uses various tools for its in-house public, seeking to target and align its communication efforts within the company. The FMC Acontece quarterly newsletter aims to publicize information regarding the main company activities and achievements of employees and departments in Brazil and the LAN region, which includes Mexico, Central America and the Caribbean, as well as the Export Zone area composed of Argentina, Bolivia, Chile, Colombia, Peru and Venezuela. This newsletter is integrated to the projects conducted at the annual Business Convention and regular meetings as well as through other special activities and initiatives.

Working with transparency

Another channel that reinforces information synergy at the Campinas (SP) office and at the Uberaba (MG) plant is a breakfast held twice a year where employees have direct contact with the company's general director. Employees can ask questions and have an informal chat that creates a closer relationship between corporate levels.

Agricultural researchers, universities, government agencies and clients are also an important public for FMC. FMC Square was created for them.
It is a semi-annual bilingual magazine (Portuguese/English) that contains articles written by PhDs and agribusiness specialists. The magazine became a landmark in the market thanks to its special design and comprehensive content.

Working with Responsibility, the company's main social and environmental responsibility program is another specific communication channel. It is a bilingual newsletter with the same name as the program that reinforces the message and initiatives undertaken, reports on activities and results, spreading information to farmers, universities, employees and relationship agencies in Brazil and the Andean countries. Since 2003, 24,000 copies of the publication's eight issues were published.

In addition to the newsletter, the Working with Responsibility program was also publicized by the press and the media. There were 484 features (in the printed and electronic media – radio, internet and TV) reaching 79.8 million people since 2003. This reflects the program's credibility with the press.



Working with Responsibility Program

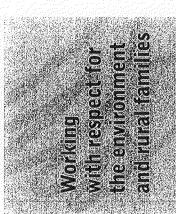
A Program that is as comprehensive as the responsibility it takes on and as encouraging as the results it has been achieving.

The Working with Responsibility Program was introduced in 2003 as a result of FMC's concern with the use of chemical products in the field and their impact on the environment and human health. The program was created by the Working with Responsibility Committee and has received unlimited support from global management.

Working with Responsibility reflects FMC's values and environmental policy. FMC considers education to be the best way to protect the environment and safety of employees and communities. From the start, the company was aware that only training and guiding famers was not enough. The company also needed to innovate in the way it raised awareness. The solution was to involve farmers in an environment where all parties are also aware of the importance of Working with Responsibility.

The first step was to simplify the message, transforming the working with responsibility procedures into "7 habits." When the challenge is seen this way, it becomes part of the daily routine and turns into a habit. It ceases to be a challenge.

The second step was to develop messages for each one of the publics with whom the farmer maintains professional or personal contact. And so began the dissemination and awareness campaigns of the "7 Habits of Responsible Care" for FMC field staff, agronomists, professors at schools of agriculture, specialized journalists, university students and also the spouses of farmers and their children, who can positively influence their parents.





environment that encouraged change, so we needed to involve all those around them, in other words, their family and We needed to involve them in an "The great merit of our program was the perception that in order to transform. Working with Responsibility into 7 daily habits, we needed to do more than just increase the awareness of farmers. professional contacts." Maria de Lourdes Fustaino

Director of Registration and Product Stewardship Head of the implementation of the Working with Responsibility Program at FMC

An Attitude Takes Root

FMC's first step in the implementation of the program was to create a Responsible Care Committee.

A fundamental tool was created during the first campaign, which achieved the objectives of the program: The FMC CD

Portfolio 1 that introduced the "7 Habits of Responsible Care" message, a summary of the seven safety steps to be followed by the farmer until they become a daily habit. This message summarized in a clear and objective manner everything that the farmer must do before, during and after using chemical products.

The first project under Working with Responsibility was aimed at Seed Treatment for upland rice, com and cotton, focusing on enhancing the final product quality, reducing losses from pests immediately after seeding and protecting the farmer during the product application process.

(1) Responsible Care Committee

The program is developed by the Product Stewardship Committee whose contributing members are employees from different company departments who are directly involved in coordinating activities. RTCs (Commercial Technical Representatives in Portuguese) and regional managers provide support and are indirectly involved. The objective is to implement and disseminate techniques aimed at minimizing existing risks in the entire product process, starting with the research and development stage and including its manufacture, transportation, use and disposal.

The Committee strengthens its objectives by developing new initiatives with creative and innovative ideas, motivating and involving and increasing number of professionals in the field. The number of developed regional projects increases every year in terms of quantity and quality. The projects represent the company's commitment to farmers by seeking the lowest risk of contamination and raising the awareness of rural families.

(2) CD Portfolio

In 2003, CDs were created to educate and train farmers. They were distributed to employees, clients and university students. Starting in 2004, the CD Portfolio is updated annually with the changes in FMC products (doses, formulators), new registrations and new manuals. Its content, focused on best practices for responsible care in the field, includes a wealth of material on the main pests, legislation and agricultural products available today on the market, as well as the "7 Habits" message. Additionally, an online version was created, making it easier for more people to access and obtain updated information on the program.



CONTENT

- The 7 Habits of Responsible Care;
 - 1) Safe Transportation;
- 2) Product purchased with a Prescription from an
 - Agronomist;
- Storage;
 Spray Mix Preparation;
 - 5) Use of PPE;
- 6) Disposal of Leftovers and Empty Containers,
 - 7) Application Technology
- Updates
 Integrated Pest Manac
- 1) Integrated Pest Management
 - 2) Legislation



Growth comes with success

In 2004, the campaign started to focus on education.

The program was divided into projects aimed at the public that interacts with farmers – rural school students, university students and empkeyees – who can influence them and spread responsible care information in the field.

The 2005 campaign kept the focus on university students and children, but extended its reach to include women. This was one of the main changes that year. Successful projects introduced in the previous years were continued.

In 2006, the Working with Responsibility Program targeted initiatives related to Seed Treatment education, training and technical support, as well as reducing exposure during product application. Special mention also goes to projects involving FMC employees, journalists, women and academia that disseminated information on the "7 Habits of Responsible Care."

Since its creation, the official launchings of the annual campaigns of the Working with Responsibility Program have been made in Brasilia (DF) so that FMC's message and proposals reach authorities at the Ministries of

58.096

PERSONS REACHED IN 2005

PERSONS REACHED IN 2004

17.958

Agriculture, Environment, Anvisa, Embrapa and the heads of various universities in Brazil.

Another of the program's traits is the development of projects that use a specific language for each public that interacts with farmers, providing information through special initiatives targeted at these publics.

Between 2003 and 2006, this project reached 148,300 people through trainings and education to disseminate knowledge and awareness, spreading the message of the "7 Habits of Responsible Care."

72.246

PERSONS REACHED IN 2006

N 2005

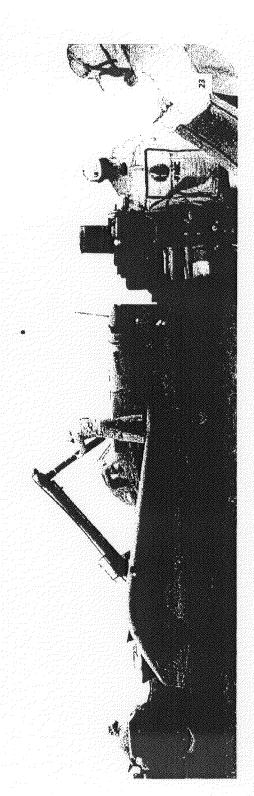
Seed Treatment

FMC is developing since 2003 a projected aimed at Seed Treatment, which greatly contributes to productivity and protection of human health and the environment. Targeted at upland rice, corn and cotton crops, Seed Treatment seeks at the same time to enhance the quality of the final product and reduce the loss from pest attacks right after seeding. It also ensures safety during application and protects the environment. The result is what we call seed protection technology.

Through this service, FMC provides mechanized seed treatment in areas known as Seed Treatment Centers (STC in Portuguese). The service is carried out by company specialists, at no additional cost, and the farmer avoids contact with the product, eliminating the risk of contamination of the environment and property animals. It also promotes the correct amount and use of chemical products.

All treated seeds have their own treatment chart, which enhances control. Personal protection equipment (PPE) is used during application and, in the case of mobile units, the PPEs are distributed to all technicians, as well as those who apply the product in the field, ensuring the program's efficiency.

There are ten CTSs strategically located throughout Brazil to provide this service: Campo Novo dos Parecis, Campo Verde, Primavera do Leste, Rondonopolis, Serra da Petrovina, Sinop e Sorriso, in the state of Mato Grosso, Luis Eduardo Magalhães, Bahia; Ro Verde, Goiás; and Chapadão do Sul in Mato Grosso do Sul. There are also mobile units with a specialized technical team coordinated by FMC who treats seeds directly at the farms and applies the necessary products.



Planting the 7

FMC knows that caring for seeds is a great.
Investment in the future. To this end, it also
developed the Planting the 7 project, a theater show
created in 2004 that aims to "plant" the seven
habits of safety and "sow" among children the
importance of raising their parents' awareness.

In 2005 a new version of the play was created called Planting the 7 Traveling Show that performed in various Brazilian states. The show was also performed at important industry events such as Coopavel, Agirfam and Cotrijal in 2005, as well as partnering up with Grupo Dedini Agro for shows in 2006.

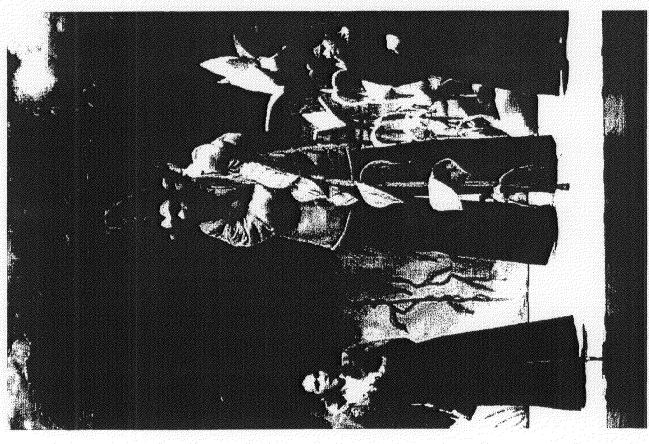
Children who watched the plays also received didactic material with various games that reinforce the principles of the 7 Habits of Responsible Care. Between 2004 and 2006, this project sponsored 189 performances in 26 towns, attracting the participation of 55,192 persons.

Eight theater workshops were also held for 248 teachers who received information on using theater as a pedagogic tool in 2004 and 2005.

After the performances, children took a test that showed high retention levels of the knowledge transmitted,



Using accessible language, the interactive play is based on fairy tales such as Snow White, Little Red Hiding Hood, Hansel and Gretel and Jack and the Beanstalk it uses the popularity of these staries to approach the problems caused in Jood and human health by the incorrect use of chemical products.



Employee Responsibility

awarded to the best dissemination efforts of the "7 Employee in-house award in 2004 to encourage its employees to develop projects together with the distribution and production channels. The prize is Habits" principles and the correct and safe use of its products. In 2004, four projects were entered use of its products, FMC created the Responsible play in the dissemination of the correct and safe Representative) Jerônimo Salazar who created a and the winner was RTC (Commercial Technical Conscious of the important role its employees

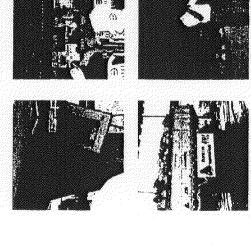
radio program called "FMC MINUTE" in 16 towns in the state of Santa Catarina that reached a large number of farmers.

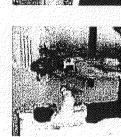
Canato. His project entails raising awareness in farms was "A Day at the Farm" developed by RTC Gustavo Eight projects were entered in 2005 and the winner and public schools in towns in the state of Mato

improvement in quality and amount of projects entered. In 2006, 17 projects were entered, The growth of this initiative has led to the

increasing awareness and changing behavior related FMC's commitment to sustainability in agriculture. demonstrating that this award is truly motivating to chemical product use and thus contribute to employees to perform their social duties by

composed of representatives from organizations, consultants and researchers connected to the The projects are evaluated by a commission agribusiness industry.

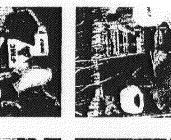












Special Attention to Dissemination

were also developed - with useful telephone numbers Habits" were printed on the containers, such as the cardboard boxes and product lids. Emergency labels in case of accidents with the product during its use The program's logo and information on the "7

developed and distributed free of charge to farmers. topics related to safety, on accident prevention and (contracted doctors) or transportation (companies With the slogan "Think Safety, You and Your Family Uberaba (MG) plant, a practical pocket manual was specialized in chemical product accidents). At the Deserve It", the booklet provides tips on various

on how to enhance the quality of life at work and at home.

Responsibility Program received wide media coverage in all towns it visited, further spreading the 7 Habits. Thanks to its innovations, the Working with





Another new point of the campaign was the extension of the program to other Latin American countries. Working with Responsibility was launched in Colombia, Peru and Chile, countries where FMC has business units. The program took its advice on safety to the field staff in these countries, always respectful of cultural and economic differences.

The training program reached more than 2,000 small and medium-sized farmers in 2005. In 2006, the program reached 9,612 persons.

PLANTANDO LOS 7

100

The Working with Responsibility Program received a Spanish language version of its play, which was performed under the title "Plantando Los 7" in Peru, Colombia and Ecuador. The performances were a hit from the point of view of participation by school students and children, rural community involvement and the results obtained. In all, there were 26 performances of the play in 16 towns which took the "7 Habits of Responsible Care" to 6,837 children in 143 rural schools.



In 2004, FMC invested in the Education for Life: University Students project that trains students from agronomy colleges and rural technical schools, supplementing the curriculum with information on the "7 Habits of Responsible Care." The program of seminars was presented to undergraduate and graduate students as well as faculty at 12 of the most important agronomy universities in Brazil. In all, 1,195 future professionals were trained at the seminars, as well as distribution and demonstrations of the CD Portfolio.



REFLECTIONS FOR LIFE. UNIVERSITY STUDENTS

Also targeted at university students, the 2005 campaign of the University Student Program changed its name to Reflections for Life, working with Mauricio Lina, the twice Olympic champion of the Brazilian Volleyball Team. As the spokesman for this program, Mauricio gave the talk "7 Habits to Boost Your Life" at important agronomy universities. The talk provides teachings that will help students in their professional and personal lives. Mauricio is an admired sports personality and many students will take his teachings to heart in light of his brilliant carrier on the volleyball courts.

Approximately 2,000 students attended this program of talks in 2005 at agronomy universities in tuverava (SP), Rondonópolis (MT), Jaboticabal (SP), Goiánia (GO), Brasilia (DF), Londrina (PR) and Rio Verde (GO).



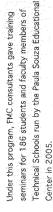
Another pioneering project in Brazii was launched in 2005 as a partnership with FAFRAM - Dr. Francisco Maeda University of Ituverava; the program "Women: Innovating for the Future", designed exclusively for rural women; the wives, mothers and daughters of farmers.

The project is based on environmental education and social inclusion and provides a new life opportunity and perspective for the future for wives of workers who apply chemical products and live in rural settings.

In addition to FAFRAM, this initiative also relies on partnerships with city halls in the Ituverava region. Its activities include talks on women's rights and counseling on the transmission of various diseases; short courses in Culinary, Computers, Zoonosis, Gardening, Women's Rights, Home Vegetable Gardens and the 7 Habits of Responsible Care. A total of 150 women were reached by the program in 2005.

In 2006, five meetings were held with women.
of 15 towns in the ituverava and Jales regions of the
state of São Paulo, reaching 373 rural women.
An assessment of the knowledge and learning
of the participants is done at the start and end of
the course.





MASTER IN RESPONSIBLE CARE

(Cil

The development of scientific projects and seminars was also promoted in 2006 by the Master of Responsible Care project as a way of spreading knowledge in the scientific field and disseminating the important of responsible care at universities.



WORKING WITH RESPONSIBILITY JOURNALISM AWARD

in 2006, the program also reached out to journalists in an initiative to encourage and recognize Brazilian press professionals who, by means of articles published in the media, promote, recognize and contribute to education and training projects on the correct and safe use of chemical products from the time of purchase to the disposal of empty containers, based on the principles of the 7 Habits.



CITZEN UNIVERSITY - FIELD TRIPS FOR WORKING WITH RESPONSIBILITY

This project takes university students on field trips to the countryside and places them in direct contact with the "7 Habits of Responsible Care." The Citizen University project was created in 2006 as a partnership with the Rio Verde University (Fesury) that organized the field trips for more than 1,000 students from four universities in Golás: Fesury; Federal University of Golás/Jatal campus, Mineiros integrated Colleges (FMES); and Lutheran University of Brazil (Ulbra)/flumbiara campus, Students in agronomy, veterinarian and animal science schools participated.

The universities hosted for a day an initiative that transformed each one of the 7 Habits into a stand, with the purpose of increasing awareness of the correct use of agrochemicals and generating knowledge multipliers. The students in the stands provided information and also participated in demonstrations with entities such as the fire brigade.

OTHER INITIATIVES

Special mention to the creation and distribution of 5,000 Emergency Manuals, the distribution of 3,650 PPE kits, participation in the Recicap project - Recycling of caps, and the printings of the "7 Habits of Working with Responsibility" message on 4,231,650 caps (aluminum) and logo on 725,868 boxes in 2005 and 2006.

EDUCATION AND TRAINING MATERIAL

Development of a training kit composed of flip charts and FMC CD Portfolio containing information on legislation and ethics at companies and a manual on IPM (integrated Pest Management). Also distributed were CD portfolios for students and employees who sent their requests by e-mail or the 0800 number. In addition, the content was made available on the company web site.

Since the start of this project, a total number of 148,300 information multipliers were reached through trainings, field trips, performances of Planting the 7 and Plantando Los 7 in Peru, Ecuador and Colombia and talks given by teams of RTC and consultants.





Women of Fiber

Partners joining together with the common desire to make dreams come true by promoting changes in the community that can change the lives of not only of the beneficiaries, but also of all those involved. Based on this ideal, a social responsibility network was formed to promote social work initiatives for organizations located in cotton producing regions. This network became the FMC project Women of Fiber whose goal is to sponsor community infrastructure improvement projects in the Cerado region of Brazil, focusing on the areas of social work, education and health.

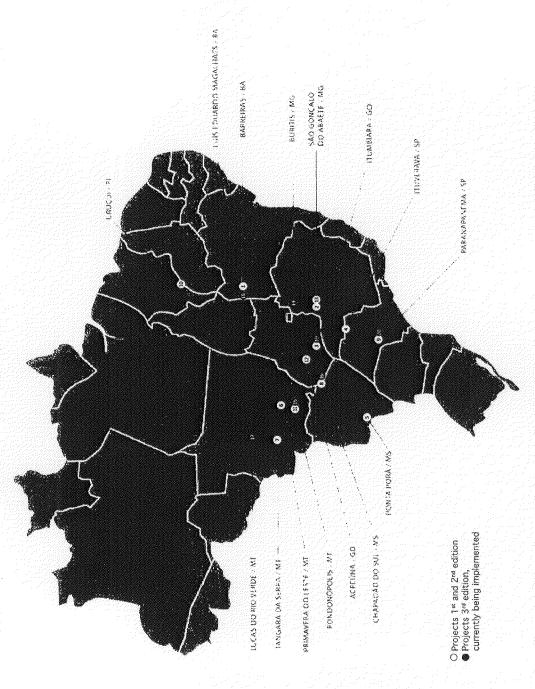
The women of fiber, for whom the project is named, head the initiatives. They are spouses of FMC Prima Class preferred clients, connected to the cotton industry in all Brazilian states that grow the crop. The project entailed the creation of seven committees in these states. The women form the committees, assess the institutions that need improvements, present the projects and, once approved, coordinate the entire implementation of the project, which could be a playroom, a dining hall, dormitories, leisure areas or any other specific need of the institution. In this manner, they bring hope and strength to the communities they live in.

FMC provides financial resources to the institutions whose projects were selected, as well as the transfer of knowledge, management know-how and volunteer work groups through its regional field staff, FMC also provides support and consulting to the committees.

Introduced in 2004, the Women of Fiber committees presented 11 projects in its first year. Six projects were selected and implemented in 2005. In 2006, 19 projects were entered, of which 7 were approved. For 2007, seven projects were chosen out of 33. This project is one of the benefits of the Prima Classe relationship program, which offers support to social responsibility initiatives as an incentive to the cotton producer.

Working in the communities





1" edition 1. APAE BARRERAS - Remodeling, construction and expansion for security

and welfare

2. AM - ASSSTANCE FOR MARTET - Building of 3 classrooms

3. AM - ASSSTANCE FOR MARDONS IN TUNKBARA - Building of 1

classroom, playroom and disprovement of the pair and getter areas

4. INV - Remodeling of dining hall, bethrooms and kidden

5. ARAE POWIA PORA - improvement and roof for sports court

6. ARAE PRIMAMERA DO LESTE. Building of a chidnen's pair with adapted

93.

2º edition

7. AAE TANCARA DA SERNA - Creation of a playnoom

8. NOVA ESPERANCA THERAPEUTIC COMMUNITY - improvement of facilities and party equipment

9. SOOLAL CENTER ASSOCIATION SÃO JOSÉ DE PARANAPARIMA

10. APAE URICIA - Building of a faik art room and store.

11. LIR CRISTÃO FOUNDSTON - Purbase of equipment and furniture for deminencia and furniture of a demonstration of a playnoom.

12. AMANA ANGELA DE AZENDO ASSUNÇÃO CHIDCARE CENTER

12. AMANA ANGELA DE AZENDO ASSUNÇÃO CHIDCARE CENTER

13. CONSCETAO PARTICIARA VERDINGO - Remodering of charaping rooms, bathrooms and drinke half.

15- FRE IPO BARS ASSOCIATION - Creation of playnoom
15- LAK CRSTAG, FOUNDATION - Exercision of launch room and
15- LAK CRSTAG, FOUNDATION - Exercision of launch room and
15- MAR CLARACIAGO SM. - Poot. roof and purchase of heaters
15- APR CLARACIAGO DSM. - Poot. roof and purchase of heaters
18- APR CLARACIAGO DSM. - Proceeding interprating sind
18- APR CLARACIAGO MACALHAES - Purchase of predegic and
19- AM - ASSSTANCE FOR MINORS OF ITUMBRIAN - Remodeling nursery
20- HOLAMERA II SENIOR CITIZENS - Building of headquarters

FMC Volunteers

FMC recognizes of the dynamism of its employees and communities where it operates. FMC develops initiatives that encourage social work that are carried out by employees of the company, spreading its principles and values as well as a helping develop personal attitudes that turn the world into a better place to live.

FMC VOLUNTEER PROGRAM



By uniting all employee initiatives, the FMC Volunteer Program not only boosted the volunteering spirit, but also began to make better use of the potential of employees and their families. In 2006, employees from the Campinas (SP) office submitted three local institution projects to voting by an Evaluation Committee. The Abamac (Madre Cândida Care Assistance Association) was chosen and FMC will fund the building and organization of a playroom. The playroom will benefit the 90 children and teenagers between the ages of 7 and 14 that are cared for by Abamac. The approval took into consideration the total number of points for the legal framework of each project with items such as impact on the community, number of users served and overall scope.

In the same volunteer spirit, the employees in Uberaba (MG) created a work group that involves clients and suppliers in raising non-perishable food items for donations to needy families. The field staff, agronomists who live in various regions of Brazil, also participate in volunteeing programs by donating their knowledge and time to underprivileged communities.

FMC Mission:

Be engaged in community aspects, aiming to encourage employees to exercise their civic duties.

Employee Mission:

Encourage people to help themselves by teaching them how to fish and not by handing out fish. Identify opportunities and develop programs and initiatives to improve the community's quality of life.

FMC Volunteers:

The heart inspires The brain thinks The hands accomplish



Focus on continuity for improving the life of rural communities. With this purpose, FMC firmly believes that initiatives such as the ones presented in this report contribute to the recognition of rural work and assist in the social inclusion of these citizens.

The success of Working with Responsibility and the growing positive results added another dimension to the program, which consolidated a structure that involves the participation of specialists, schools, universities and creates a solid chain of awareness and the multiplication of health prevention and environmental protection initiatives. Initiatives that were carried out point to the growth and development of new projects, consolidating more and more the close and caring relationship with rural producers.

All efforts are aligned with the personal and professional growth policy for people who make up FMC, such as its employees, clients, suppliers and community: a network of professionalism and community outreach.

Investment in people is a principle that ensures development of citizens and prominence in society in a way greater than mere business development.

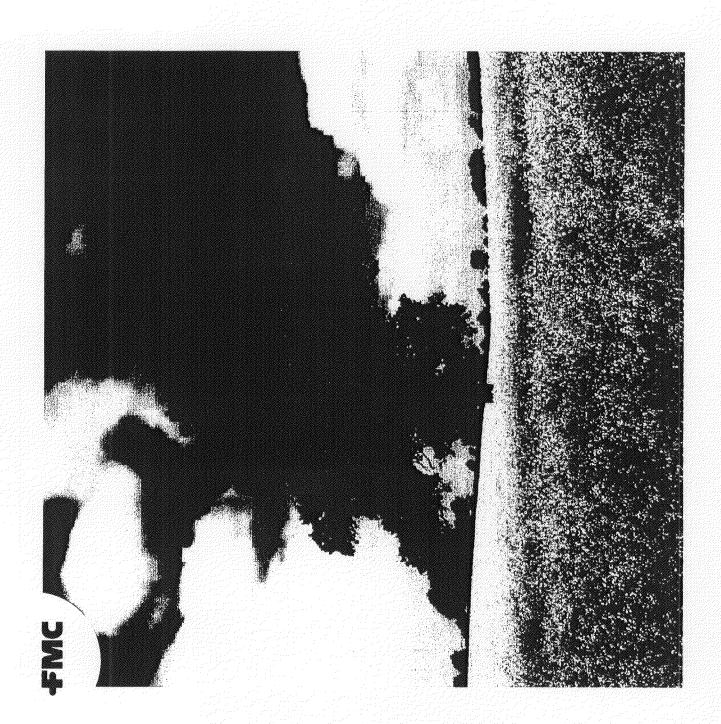
FMC Agricultural Products continues working for the future and believing more and more that people are the motor that transforms the world into an increasingly better place to live.



"The Chaos Theory states that the simple flapping of a butterfly's wings in Beijing may set off a storm on the other side of the world"

Everything is cause and consequence. May each one's contribution to the Working with Responsibility Program be the flapping of wings that will cause a great awareness and commitment to responsible care and the sustainable use of our planet Earth.





For five consecutive years, from 2001 to 2005, FMC was elected by Exame magazine as one of the Best Companies to work for in Brazil. Best Companies to work for









- Working with Responsibility - Phytosanitary Merit Award

(National Plant Protection Association), the The program had its success confirmed by winning, for three consecutive years, the Phytosanitary Merit Award from ANDEF most important award in the segment.

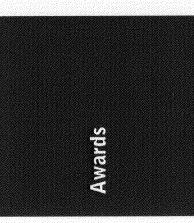


2003 Campaign: first place in the "Innovation treatment in the Cerrado region of Brazil and and objective tool for training farmers and Category" for project developed for seed the creation of the CD Portfolio, a simple agricultural technicians,

Category" recognized as the company with the 2004 Campaign: first place in the "Industry

"Innovation Category" with the Education for Also, the company came in third place in the best farmer education and training program, the Working with Responsibility Program. Life Program.

Education and Training Program" category and second place in the "Employee of the Year" 2005 Campaign: first place in the "Best category.



The 2004 campaign was also recognized by the Exhibition for Rural Marketing and Agribusiness. most important awards in the industry: GOLD prize at the XIV ABMR&A Communications - Working with Responsibility - ABMR&A

Rouanet Law for support of cultural projects. - Working with Responsibility - Rouanet Law its cultural and educational importance and In 2005, the program was recognized for became an approved program under the

demonstrating the recognition of the project by ABMR&A Communications Exhibition of Rural "Community Promotion Campaign" category, The Women of Fiber project won the XIV Marketing and Agribusiness 2005 in the the agricultural market. - Women of Fiber

The Uberaba plant placed second nationwide for the CNI Award 2005 in the "Quality and Productivity" category. - CNI Award

 FEAC (Federation of Assistance Entities of In 2004, FMC was granted the title "Private Campinas)

Program (PQE) in the period from May 1999 to joining and contribution to the School Quality Social Investor" from FEAC in light of its December 2003.

The company was recognized - ABRING Foundation

rights of children and adolescents in Brazil. Title in 2004 for its commitment to defending the was bestowed by the ABRINQ Foundation.

Social and Environmental Balance Sheet

2006 R\$ 543,134,306.00	2006 (in thousands of R\$) 589,566.43 4763,529.19 481,228.29 426,896.00 3.008,778.00 9,269,997.91	2006 189 13 24 (**) . 55 (**) 10 women out of 37 managers, equal to 27% (**)	2006 0
2005 R\$ 597,264.765.00	2005 (in thousands of R\$) 624,656.50 4,579,588,08 554,538,73 559,234,00 3,053,764,00 5,138,822.08	2005 180 14 20 (**) 50 (**) 10 women out of 34 managers, equal to 29% (**)	2005 0
Net income (RS) – FMC Agricultural Products	In-house social indicators Food Mandatory social charges Private pension Workplace safety, health and medicine Profit or gain sharing plans	Staff Indicators Number of employees at end of fiscal year Number of interns Number of employees over 45 years of age Number of women employees Number of women in management positions	Relevant information related to corporate citizenship Total number of work-related accidents

Number of people reached by the Social Environmental Responsibility Program - FMC Working with Responsibility - from 2004 to 2006

Number of people reached	55,502	50,666	6,837	523	80	. 2,000	1.381	11,612	150	300	624	18,625		148.300			79.81 milhões		3,631,709	275
Project	Planting the 7	Responsible Employee	Plantando los 7 (Peru, Ecuador, Colombia)	Women Innovating for the Future	Responsible Distributor	Reflections for Life	Education for Life	Working with Responsibility	Master of Responsible Care	Responsible Journalist	Citizen University	Other projects (Environment Week, Clean Fields	Day, Reading Rooms, Safe Application, etc.)	Total	Media features on the program between 2003 and 2006	Features	Audience	Seed Treatment from 2003 to 2006	Bags of treated seeds	Purchased seed treatment machines

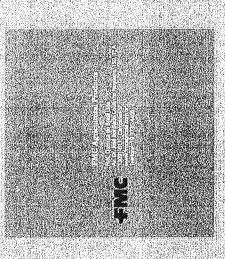
Other information:

- A) The company annually holds various training programs for its employees on ethical issues and good business conduct.
- B) FMC does not use child labor or forced labor and is not involved with prostitution or sexual exploitation of children or adolescents.
- C) This report is distributed to all FMC employees and partners (suppliers, visitors and the community).
- D) The work carried out with the FMC Program Working with Responsibility is an important part of the company's strategy for increasing awareness of the rural worker in relation to the correct application of chemical products. It is an educational process that involves the entire family



of the farmer with initiatives targeted at children and spouses that offer a new chance in life and future perspectives for this community.

E) This publication reports activities in the social responsibility area that were sponsored and carried out by FMC since the introduction of the Working with Responsibility Program in 2003 and up to the 2006 initiatives.



WARNING

PROTECTION OF HUMAN AND ANIMAL, HEALTH AND THE ENMISONMENT

• Do not wash out equipment in lakes, springs. The strong in the strong ordinate in the strong dut the strong in the strong garage min must be singed out the strong in the strong dut the strong in th

* Do not unalog nazdes, orfices or valves with

Always consult an aagronomist. Agricultural use product. Sale under prescription by agronomist.

Storage Instructions Keep product in its original container.

The storage seas must be used only for boad products. Do not store appeter with food, drinks or other materials.

Place wearing size with the following statement: WARHNO; POISON.

Look up seat to prevent entering of other unauthorized persons appearing of the following statement: For combine deposits, the prevent settlement.

legislation. Pead carefully the label, Insert and agronomle prescription, or have it read to you if you are not able to read.

your mouth.

• For first aid and other information, see label, most tand prescription.

• Avoid contaminating the environment, preserve Do not use leaking application equipment.

•

FMC Training in 7 Habits to Act Responsibly

Urbano Segura

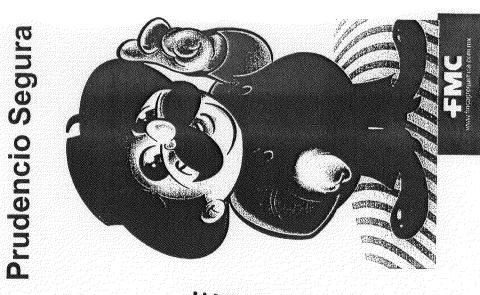






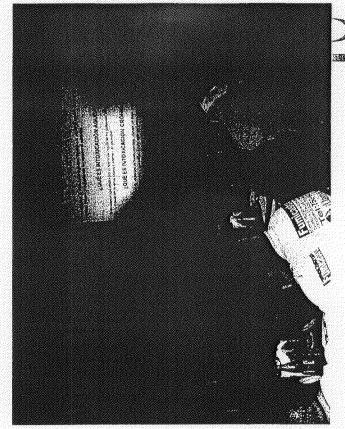


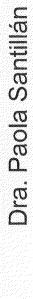


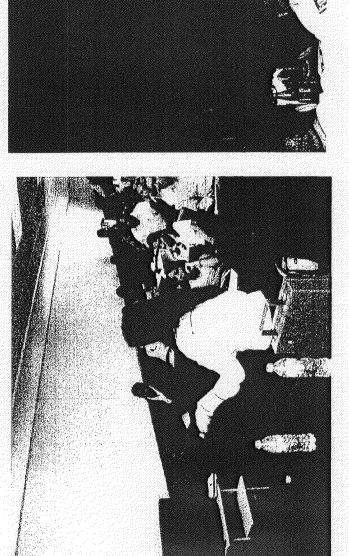




Procedures Training in First Aid Agrochemical Poisoning.

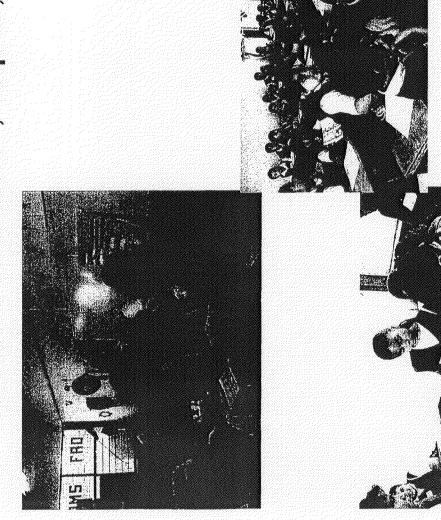








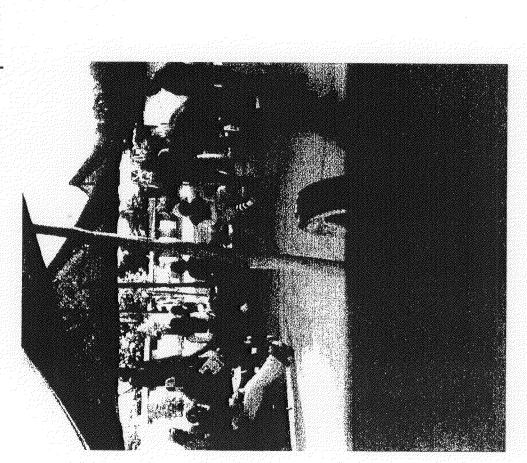
Training kids in the Rural School "María Carmen Sauza Mora", Tequila, Jal.



70 Students

Training: 7 Habits to Act Responsibly

Our Commercial Techinal Representatives training growers.

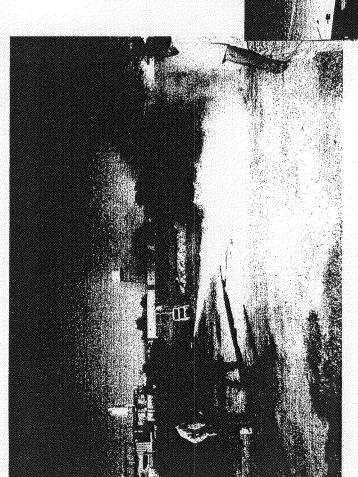






Training in FMC Storage

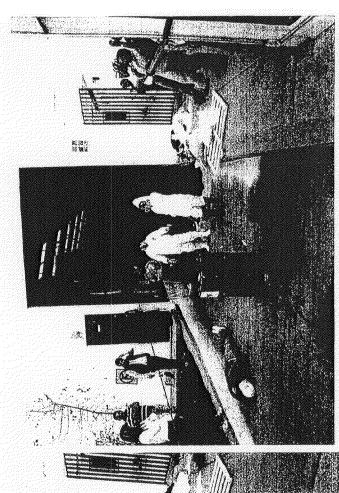
February 19 2010.

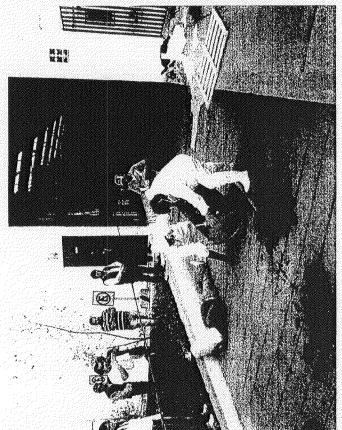




Training in FMC Storage

February 19 2010.









Product Stewardship

Chemical (Thailand) Ltd.

Product Stewardship Already

- Safety kid (Mask, Rubber glove)
- Rubber boot (Rice field)
- Support printing treatment booklet
- Picture cartoon design and wording safe use
- Safe use message in Leaf let, PVC Stand, Banner, Paper poster, PVC porter
- Grand opening FMC, presentation stewardship plan
- Farmer meeting start implement safe use presentation and give safety kid

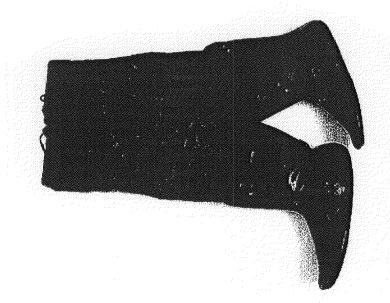
Product Stewardship Shorter term

- Distributors/dealers training/certification
- Farmer training/certification (play role)
- Get applicators to use motorized knapsack blower instead of hand application
- Doctor/health care personnel training on CMs Poisoning and efficacy treatment (by rotating to each region)
- Children training in school

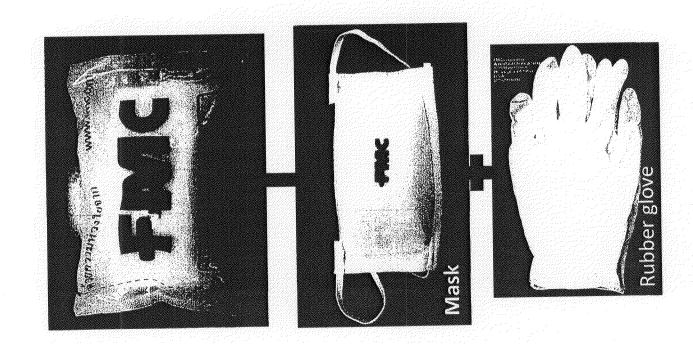
Product Stewardship Longer term

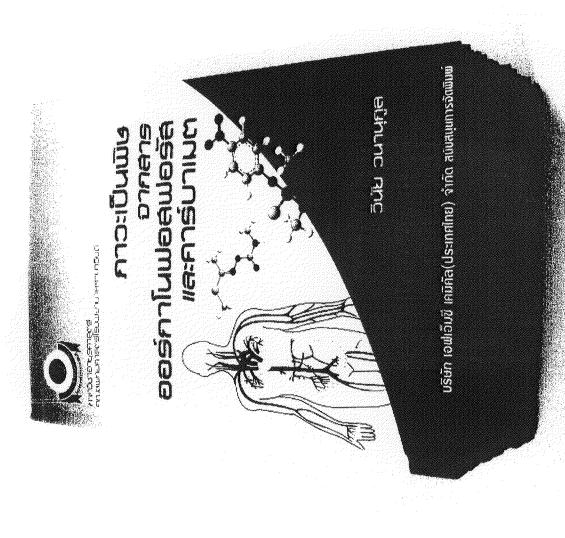
- New formulation development/modifications i.e. reduce% ai content cs-formulation, premix for.
- Carbofuran poisoning case monitoring by region and intensive usage; provide blood test
- Antidotes vs. CMs supply to the district hospitals throughout the country
- Resistance monitoring vs. key insecticide, i.e. rice stem borer, leaf folder, or BPH
- Other environment impact studies i.e. on contamination, residue in the river, canals; fish toxicity
- Monitoring on the residue in food crops
- Carbofuran traceability projects in food crops

Safety kid



Rubber boot for rice field

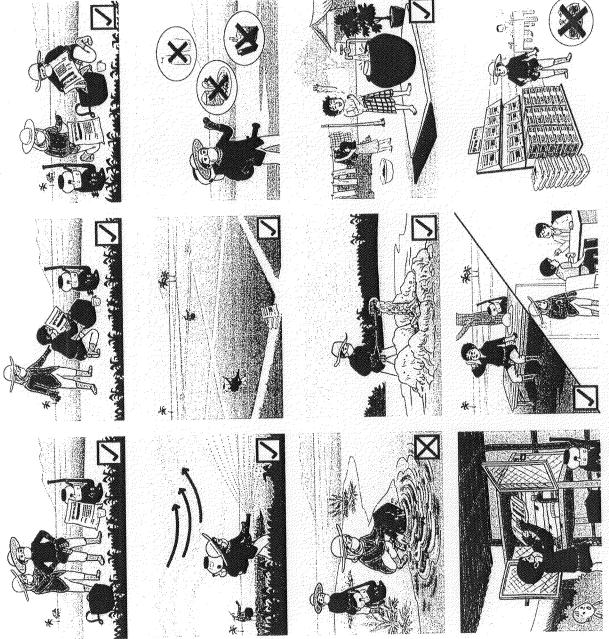




Toxicity from Organophosphorus and Carbamate Book (170 p., CVD)

AGRICULTRUE PRODUCT

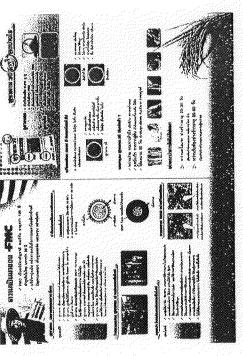




Cartoon safe use for Furadan 3G

Safe use message on product leaflet





(Stop smoking and eating during application. Follow guide line recommendation. with complementary from FMC)

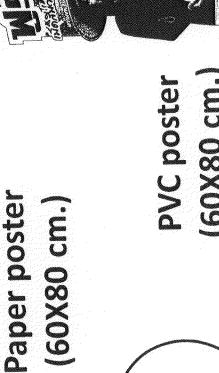


PVC Stand (120X180 cm.)

(We care Thai farmer use pesticide safety with complementary from FMC)



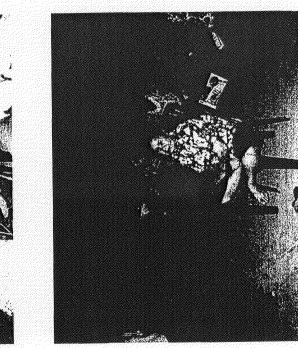
(100x200 cm.) Banner

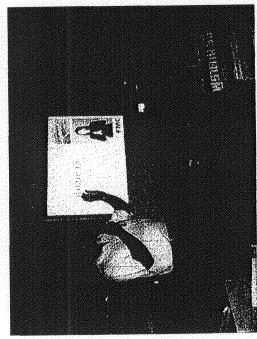














LAN Carbamates defense

Darío Isauro Jeronimo Development Manager





- Product stewardship efforts
- □ An extensive program with our distributors in Central America to avoid intoxications and have an excelent product peformance.
- □ Supporting application equipment in CA and México.
- □ Promote the use of Liquid formulation in drip irrigation system in vegetables.





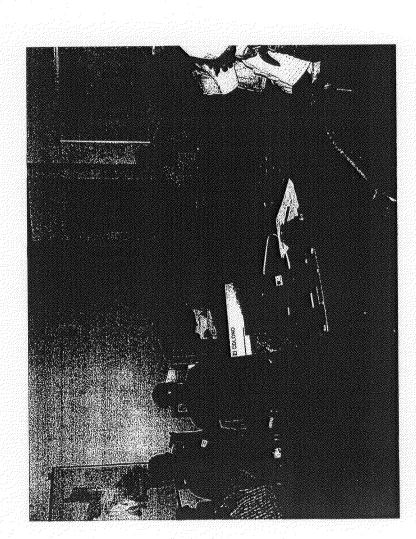
Product stewardship for Furadan 10 G

- Training sessions
- Protective equipments
- Application equipment providing
- Application supervision to assure that there are not intoxications as well as a good product distribution for have better performance
- Colecting and elimination bags and bottles
- Colinesterasa exams





1.- Training sessions



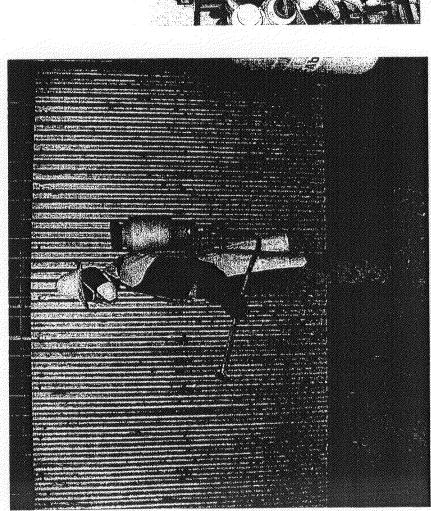
Who is participating

- Farm manager
- Administrative personel
- / Bodegueros
- ✓ Workers supervisors
- V Nematicides manager
- Aplications supervisor
- Workers





3.- Aplication equipment we provide

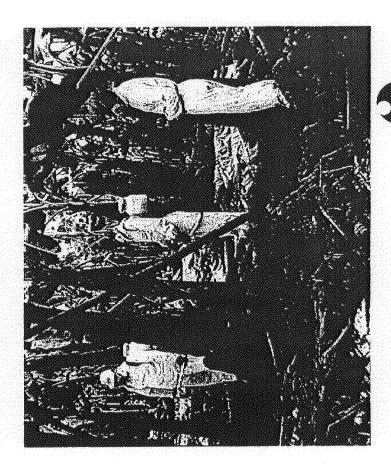






Application supervision

Workers safety
Application quality
Contingency managment







✓ Formulación

- / Hifg technology Formulación
- ✓ Double pass
- Dust free
- Silica as carrier
- Safety to the workers





Furadan liquid product stewardship

Acomplishment with the law in each country

Articles 59, 60, 61 and 62 of decree . 24337-MAG-S.

"Minimum Stock" with retailers in CA

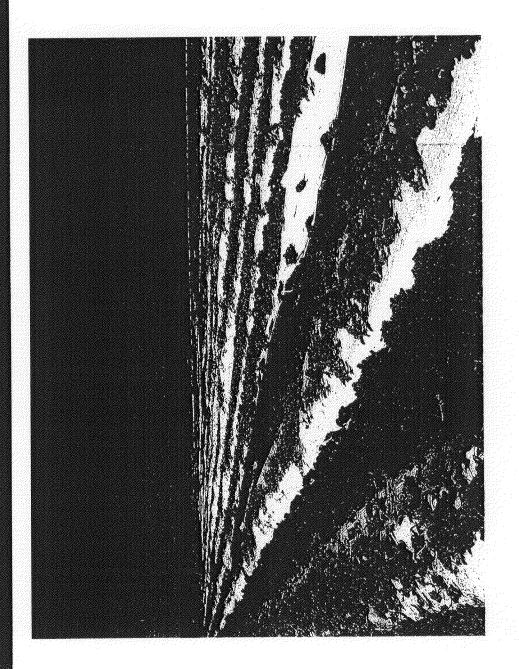
Recommendation to be sprayed to the soil (not foliar)

In drip irrigation spray at Post-trasplant

Colecting empty containers

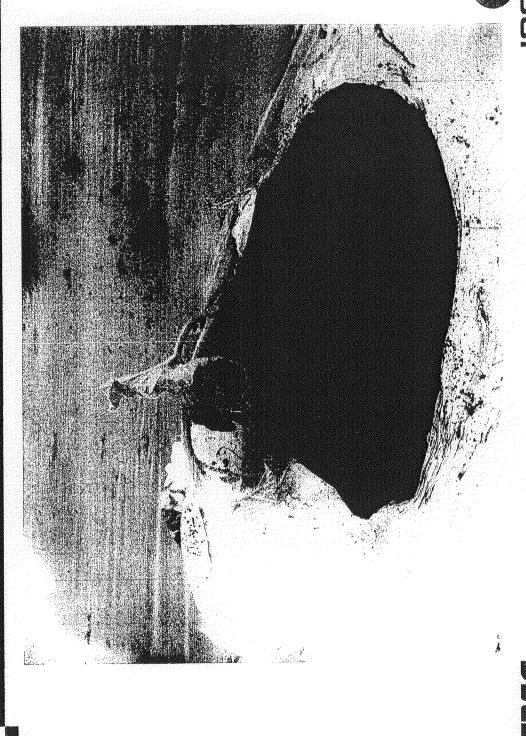




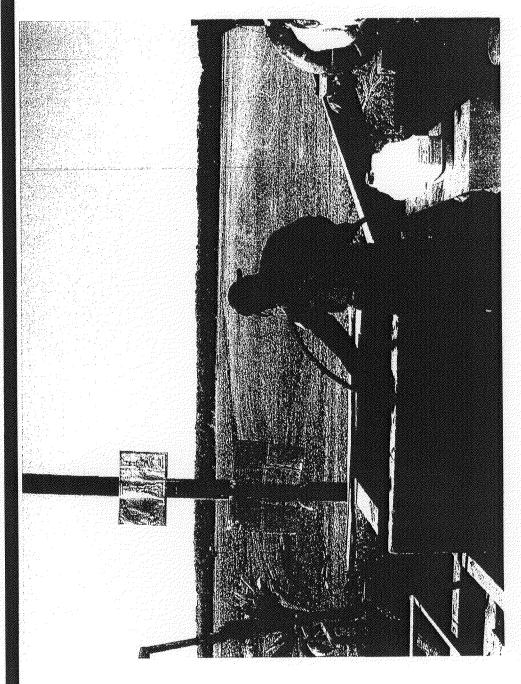
















5.- Collecting empty containers

Tiple Layado

Recolection

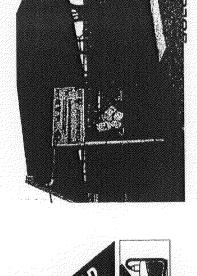
(1100 of Teleton)

FMC-Agro Pro Central America

- ✓ Collecting with each end user
- Triple rinse
- Put the containers at the collection centers
- Destroy







- Replacement strategies
- □ Development of Bifenthrin family to contro roots and foliar pest, stand alone and in combination with others active ingredients Brigadier 30 TS, Brigadier 20 SD, Brigadier 200 TS Talstar 100 WP, Talstar 100 CE, Talstar xtracontrol Brigadier 0.3 G, Talstar 0.2 G, Brigadier 100 TF,
- Nematicide, Identify and develop new segments.
- Develop new premixes.





- Replacement strategies
- □ Carbosulfan development in key markets
- □ granular formulation at planting
- □ liquid formulation in recharge
- EPA tolerances are needed for use in vegetables.





#



Overview of the Field Data and Incident Reports

Melissa Panger, Ph.D. **Biologist** Environmental Fate and Effects Division February 5, 2008



One Line of Evidence Used in the Carbofuran Risk Assessment

- Field Data
 - Reported ecological incidents
 - Field studies



Incident Reports and Field Studies

- DO NOT allow for a quantification of the level of wildlife mortality associated with carbofuran use
- DO demonstrate that when carbofuran is used as currently registered, wildlife mortality can and does occur

United States Environmental Protection Agency

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Ecological Incident Reports

- Ecological Incident Information System (EIIS)
- · Contains reports submitted primarily from:
 - State agencies (voluntary)
 - · Toxicology laboratories (voluntary)
 - Registrants (reporting requirements)



Ecological Incident Reports

- There is no national-level systematic program for the monitoring of pesticide ecological incidents
- Reported incidents likely represent a small fraction of actual incidents that occur...

WHY?

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Carcasses May Often Go Unseen

- Carcasses can be very difficult to see
 - · Animals often hide when they are sick/dying
 - Carcass efficiency rates (even for trained individuals) are often <100%
- Incidents involving agricultural pesticides typically occur in rural settings
- · Carcasses can be removed
 - · Scavengers
 - Decay

6



Incidents May Not Get Reported

- The incident observer...
 - May not realize the importance of reporting the incident
 - May not know who to report the incident to

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An Incident May Not Be Linked to a Cause

- · Affected animals may move off-site
- · Tissues and residues may deteriorate
- The incident may not be investigated due to limited resources



Changes in State Monitoring Efforts?

"The reason for the decrease in incident reporting is largely due to lack of resources to conduct the work needed to identify, investigate and track incidental poisonings. We have been unable to fund the analytical costs associated with these investigations and thus there have been few incidents reported."

New York State Department of Environmental Conservation
Bureau of Habitat

9

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Incident Reports May Not Be Submitted to the Agency

 Reporting by non-registrants is completely voluntary

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Ecological Incident Reports

- · Carcasses may often go unseen
- · Incidents may not get reported
- · An incident may not be linked to a cause
- Incident reports may not be submitted to the Agency
- Only acute toxic effects are reported in incidents

United States Environmental Protection Agency

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Carbofuran Grape Monitoring - CA

- · Grape use
- In 1992 and 1993, CA conducted a grape monitoring program
 - Pre-1992 = 1 grape incident (1986)
 - 1992-1993 = 27 grape incidents
 - Post-1993 = 0 grape incidents

12



Ecological Incident Reports

- CANNOT DO...
- An absence of evidence cannot be used as evidence of absence
- Information in the database cannot be used to quantify the level of risk

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Ecological Incident Reports • CAN DO...

- Incident reports can be used to demonstrate effects associated with specific pesticides (and their uses/use patterns)
- · Demonstrate that under field conditions:
 - · One or more exposure pathways are complete
 - Exposure levels are sufficient to result in fieldobservable effects

14



Carbofuran Incidents (from EIIS – 1972-2007)

- 399 reported incidents
 - 84 = REGISTERED USE
 - 129 = MISUSE (intentional or unintentional)
 - 186 = UNDETERIMINED

15

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Carbofuran Incidents - Registered Uses (from EIIS)

- Effects reported Primarily mortality in birds, but also reported:
 - · Mortality in mammals
 - · Mortality in fish
 - Invertebrate mortality (terrestrial and aquatic)
 - · Incapacitation in birds
- Number of individuals/incident range from1 to ~2,500 (birds)

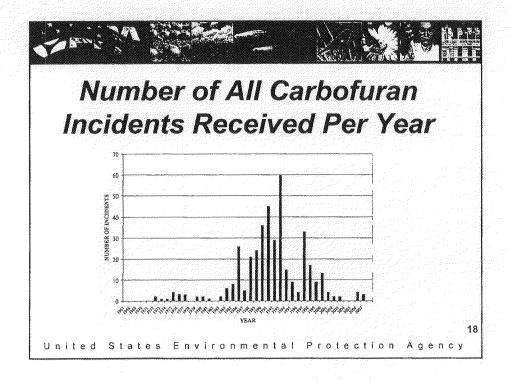
16



Carbofuran Incidents - Registered Uses (from EIIS)

- Associated with the following use sites:
 - · Agricultural area
 - Alfalfa
 - Corn
 - Soybean
 - Spinach

17





Decrease in Reported Carbofuran Incidents... WHY?

- · May be due to:
 - · Actual decrease in carbofuran incidents
 - · Changes in state monitoring efforts
 - · Changes in registrant reporting requirements

9

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Actual Decrease in Carbofuran Incidents?

- Grape use
- In 1992 and 1993, CA conducted a grape monitoring program
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 - Post-1993 = 0 grape incidents

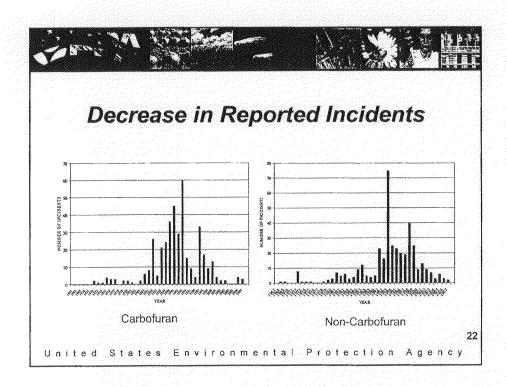
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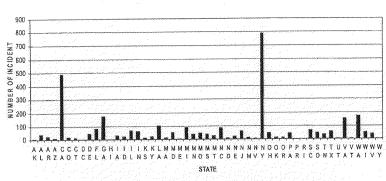
Decrease in Reported Carbofuran Incidents... WHY?

- · May be due to:
 - · Actual decrease in carbofuran incidents
 - · Changes in state monitoring efforts
 - · Changes in registrant reporting requirements

21



Changes in State Monitoring Efforts? REPORTED ANIMAL INCIDENTS PER STATE



~ 40% of all terrestrial animal incidents (registered uses) in the EIIS come from CA and NY

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Changes in State Monitoring Efforts?

"The reason for the decrease in incident reporting is largely due to lack of resources to conduct the work needed to identify, investigate and track incidental poisonings. We have been unable to fund the analytical costs associated with these investigations and thus there have been few incidents reported."

New York State Department of Environmental Conservation Bureau of Habitat

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23



Decrease in Reported Carbofuran Incidents... WHY?

- · May be due to:
 - · Actual decrease in carbofuran incidents
 - Changes in state monitoring efforts
 - · Changes in registrant reporting requirements

25

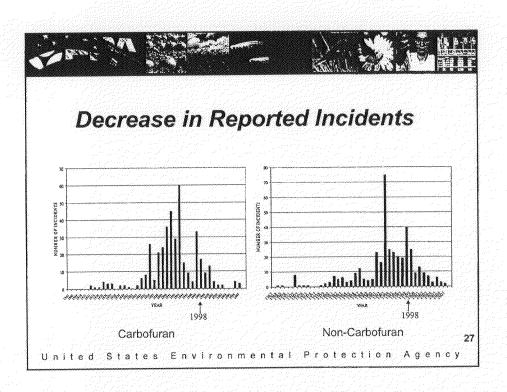
United States Environmental Protection Agency

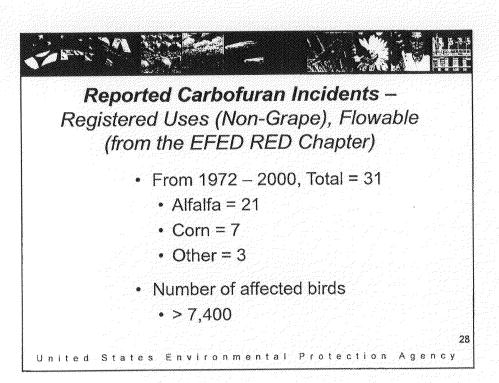


Changes in Registrant Reporting Requirements?

- In 1998 there was a change in the incident reporting requirements for registrants
- Registrants are now only required to submit detailed information on 'major' incidents to the Agency
 - Fish: ≥1,000 of a schooling species or ≥50 of a nonschooling species
 - Birds: ≥200 of a flocking species, or ≥50 of a songbird species, or ≥5 of a predatory species
 - Mammals, reptiles, amphibians: ≥50 of a relatively common or herding species or ≥5 of a rare or solitary species
- 'Minor' incidents are generally reported aggregately and are not included in the EIIS

26







Reported Carbofuran Incidents – 2000 to 2007

- TOTAL = 37 reported incidents
 - 24 from the EIIS
 - 8 aggregated from FMC and NWHC
 - 5 not yet in the EIIS

29

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Reported Carbofuran Incidents – 2000 to 2007

- 19 likely intentional misuse
- · 2 registered use:
 - 2000 alfalfa, NM, 1200 birds
 - · 2000 alfalfa, CA, 4 bee hives
- 16 undetermined:
 - 2006 sunflowers, CO, 2200 birds

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Ecological Incident Reports: CONCLUSIONS

- When carbofuran is used as currently registered, wildlife mortality can and does occur
- Not enough information available to conclude that a decrease in reported incidents is due to label mitigation and/or stewardship programs
- Incident reports can demonstrate that for registered uses under field conditions:
 - · One or more exposure pathways are complete
 - Exposure levels are sufficient to result in field-observable effects
- Incident reports cannot be used quantitatively

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CARBOFURAN FIELD STUDIES

32



Field Studies

- Field studies discussed in EFED's RED science chapter primarily involve studies conducted:
 - In Canada, using flowable carbofuran for grasshopper control
 - By FMC, using flowable carbofuran in the U.S.

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Flowable Carbofuran Studies

- Grasshopper Control in Canada
- · Small sample size
 - Hortsman (1985)
 - · Hortsman and Code (1987)
 - · Irvine (1987, 1990)
 - Forsythe et al. (1989)
- Sampling may be biased toward underestimating exposure (live trapping)
 - Irvine (1987, 1990)
 - Forsythe et al. (1989)
- Did not involve birds
 - · Brusnyk and Westworth (1987)

34

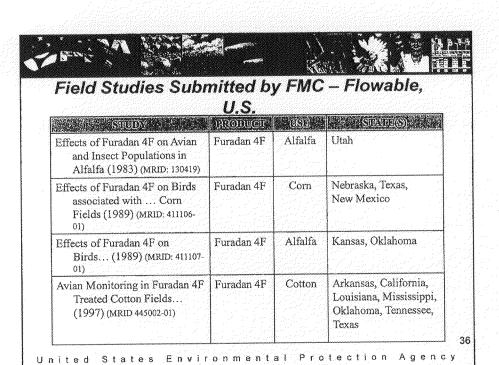


Flowable Carbofuran Studies

- Grasshopper Control in Canada
 0.12 lb a.i./acre
- Fox et al. (1989):
 - Carbofuran impacted the survival and reproduction success of burrowing owls
 - Direct overspray resulted in an 83% reduction in brood size and an 82% reduction in nest success (1986)
 - Of the 12 pairs of birds directly exposed to a carbofuran overspray in 1986 and 1987, 8 failed completely

35

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18



1983 FMC Utah, Alfalfa Study

STUDY	TRORMUUATION	PHUSE/APPEARAGE AS	(Stratte(s)
Effects of Furadan 4F	Furadan 4F	Alfalfa	Utah
on Avian and Insect		1 lb a.i./acre (1 appl.)	
Populations in Alfalfa			
(1983) (MRID: 130419)			

Relied primarily on bird surveys to determine if carbofuran had an effect on bird densities

37

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FMC 1995 and 1996 Cotton Monitoring Studies

SRUDY	INODEWICKLASHIONE	USE ARDL RATE	A(SDATIF(S))
Avian Monitoring in Furadan 4F Treated	Furadan 4F	Cotton 0.25 lb a.i./acre (2 appl.)	Arkansas California
Cotton Fields (1997) (MRID 445002-01)			Louisiana Mississippi
			Oklahoma Tennessee Texas

Insufficient methodology

38

FMC 1995 and 1996 Cotton Monitoring Studies

- Significant deficiencies included (but were not limited to):
 - Not conducting carcass searches (i.e., LA 1996 and TN 1996)
 - Conducting carcass searches on ATVs (i.e., MS 1995 and 1996)
 - Not conducting (or reporting results from) carcass search efficiency tests (e.g., TX 1995, CA 1995, and OK 1995)
 - Conducting carcass searches >2-days postapplication (e.g., TX 1995, MS 1995 and 1996)
 - Conducting carcass searches on less than the Agency-recommended search area (i.e., all studies)

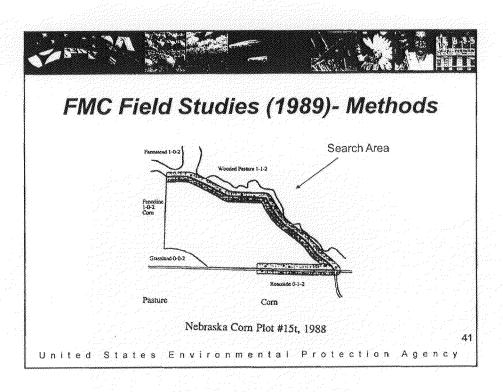
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FMC Field Studies (1989) - Methods

TISE SEED	STATIL	S(6) (S)5 (E)5,0395 (E)55883,6006, de (O3(6)425,6006)	CHEMINANCASAL GEORGIA (CA CONCILIO (CA LOL(O) (ES	S)EQUATORIESS	elovikeja Kinci čislotev
Com (1 lb	Nebraska	15 (7 controls, 8 treatment)	Pydrin (pyrethroid)	5 human searchers spaced 5 – 10	Ranged from <50% recovery to 100%
a.i./acre; 2 appls)	Texas/New Mexico	16 (8 controls, 8 treatment)	Pounce (pyrethroid)	ft apart (also some dog searches)	Ranged from 0% recovery to 100%
Alfalfa (1.0 and	Kansas	16 (8 controls, 8 treatment)	Lorsban 4E (chlorpyrifos)	- Pre-treatment searches - within 10 days	Ranged from 44% recovery to 100%
0.5 lb a.i./acre; 2 appls)	Oklahoma	16 (8 controls, 8 treatment)		of treatment - Post- treatment searches within 7 days of treatment	Ranged from 25% recovery to 100%

40





FMC Field Studies (1989) - Results

Number of Bird Carcasses/Feather Spots

		NE Com	TX/NM Com	CORN TOTALS	KS Alfalfa	OK Alfalfa	AMBAILEA Troit als	TOTALS
Pre- treatment	Total	10	5	15	5	4	9	24
Post- treatment	Control Plot	5	2	7	7*	17*		31
	Treated Plot	14	17	31	15	7	2/2	53

^{*} These controls were treated with chlorpyrifos

In addition to bird mortality, there was evidence of 18 non-bird pre-treatment mortalities and 110 non-bird post-treatment mortalities (57 in control plots and 53 in treated plots)

42



FMC Field Studies (1989)

- Comparisons between pre-treatment/posttreatment and control/treated fields in the 1989 studies are meaningless:
 - Other chemicals were used on or near some of the control and treated fields (including chlorpyrifos, dimethoate, and methomyl)
 - Some of the control fields were adjacent to fields treated with carbofuran

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FMC Field Studies (1989)

- The studies provide some useful information:
 - The pre-treatment searches removed evidence of wildlife mortality prior to the post-treatment searches
 - Most of the bird carcasses tested from treated fields were positive for carbofuran

44



FMC Field Studies (1989)

- The mortality is likely biased toward the low-end:
 - Searchers likely did not locate all potential carcasses
 - Search efficiency rates <100%
 - Scavengers likely removed some carcasses
 - · Limited search area

45

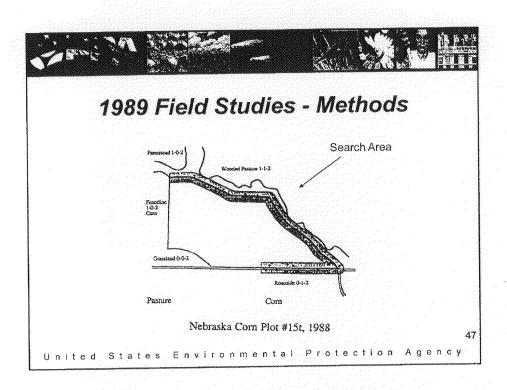
United States Environmental Protection Agency



Carcass Location

- Stinson et al. (1994)
 - Corn, granular carbofuran, VA
 - Recovered 114 bird carcasses associated with carbofuran
 - 74% of the bird carcasses recovered were in the corn fields

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FMC Field Studies (1989) - Results

Number of Bird Carcasses/Feather Spots

		NE Com	TX/NM Com	CORN TOTALS	KS Alfalfa	OK Alfalfa	ATHEATHEA TOTEARS	TOTALS
Pre- treatment	Total	10	5	15	5	4	9	24
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In addition to bird mortality, there was evidence of 18 non-bird pre-treatment mortalities and 110 non-bird post-treatment mortalities (57 in control plots and 53 in treated plots)

48



Field Studies

- · Conclusion:
 - Carbofuran use at current application rates can adversely impact wildlife

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united States Environmental Protection Agency



CONCLUSIONS

 Due to shortcomings of the data from incident reports and the available field studies, they cannot be used to quantify the level of risk associated with carbofuran use

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ABC DEATH INFORMATION WITH OLD ENVIRONMENTAL PROTECTION AGENCY

Notes	2.5 miles from national wildlife refuge; possible charges against the against the square, issuing the permit, the grower, advisor, and applicator allegedly were being considered	Roadway	
Granular or	Solution	4	
Site/Land Use	Crop - Alfafa	Crop - Atfaifs Crop - Atfaifs Crop - Com Unknown Crop - Rice Unknown Crop - Rice Crop - Com and Peanut Ranch Unknown Crop - Com and Peanut Ranch Crop - Affaifs Unknown	Forest
Mis/Ab/Use	Abuse	Unknown Legal (Label) Legal (L	Unknown
Pesticide(s	Carbofuran	Carbofuran	Carbofuran
State Source		CADFG: P-157 Baumbarger: Baumbarger: 1989-A Lyon: Lyon: Lyon: Lyon: Bo-B NYDEC: 68-27 GA: 17-80 FWSLE7: MEMO/D- 10933 NYDEC: 68-27 GA: N38-64;N4784 CADFG: L-97-85 CADFG: L-97-85 CADFG: L-97-85 CADFG: P-944 Littrell: 1986-8, 1986-1988 CADFG: P-947 CADFG: P-975 CADFG: P-975 CADFG: P-977 CADFG: P-977 CADFG: P-977 CADFG: P-977 CADFG: P-987 CADFG: P-985 VA: PR-3292 VWA: PR-3292	FWS: 7634 HE VA: 4-86
Federal Source	EPA FOIA request	EIIS: 1004685-001 EIIS: 1005589-001 EIIS: 1005589-001 EIIS: 1005703-001 EIIS: 1005680-001 EIIS: 1005680-003 EIIS: 1006680-003 EIIS: 1004680-003 EIIS: 1004680-003 EIIS: 1004680-003 EIIS: 1004680-003 EIIS: 1004680-003 EIIS: 1005680-003	EIIS: 1004169-013 EIIS: 1005659-001
*	10	thousands 1	
Species	Widgeon duck	American Wigeon American Wigeon American Robin Egyat American Robin Egyat Black-belled Whistling- Duck Duck Malard Malard Duck Malard Malard Malard Materiowi Duck Martinen Harrier Northern Harrier Northern Harrier Northern Harrier Duck Malard Malard Malard Waterfowi Duck Malard	Turkey Vulture Red-tailed Hawk
State	¥	339 ≥39× 333 353 35 553 8 333 5 333333 333	\$
County		Glenn Unknown Unknown Unknown Secramento Colusa Colusa Colusa Colusa Colusa Colusa Colusa Unknown Richmond City Prirce George Colusa Unknown Lancaster Unknown Glenn	Henrico
End Date	٠	3729/1977 57/1981 472/1984 472/1984 472/1986 67/1/986 67/1/986 67/1/986 67/1/986 67/1/986 67/1/986 67/1/986 67/1/986 67/1/986	5/29/1986
Start Date	3/20/1977	3229/1977 1/1/1978 5/21/1984 4/10/1980 6/70/1984 4/20/1984 4/20/1984 4/22/1984 5/11/1984 4/22/1984 5/11/1984 5/11/1985 10/11/1985 10/11/1985 2/10/1986 2/10/1986 3/11/1986	5/25/1986
Event		68 229 887 2294 182 183 184 185 186 187 188 188 188 188 188 183 228 228 228 228 228 228 228 2	257

Notes																				Roadway				Roadway											
ŏ	Liowanie																																		
Site/Land Use	Agricultural Area	Crop - Potato Agricultural Area	Crop - Rice	Crop - Rice	Unknown		Unknown	Crop - Rice	Tallon I	Unknown		Unknown Cros - Com		Crop - Corn	Unknown	Field	,	Crop - Rice	Onknown Crop - Rice	Non-Agricultural		Orchard Stream/River	Unknown	Non-Agricultural		Crop - Milo		Crop - Farm	Wildlife Refuge Apricultural Area	Field		Crop - Alfalfa	Unknown Crop - Com Crop - Alfalfa	Crop - Alfalfa Haknown	
Mis/Ab/Use	Unknown	Unknown Legal (Label)	Unknown	Unknown	Unknown		Unknown	Legal (Label)	CINKHOWIN	Unknown		Unknown	!	Misuse	Unknown	Abuse		Legal (Label)	Unknown	Unknown		Unknown	Unknown	Unknown						Legai (Label)		Misuse	Unknown Misuse Legal (Label)	Misuse	
Pesticide(s) Carbofuran	Carbofuran Carbofuran	Carbofuran	Carbofuran	Carbofuran		Carbofuran	carbofuran	Carporuran	Carbofuran		Carbofuran		Carbofuran	Carbofuran	Carbofuran		Carbofuran	Carbofuran	Carbofuran	DDT Diazinon	Carbofuran	Carbofuran	Carbofuran	Diazinon Mirex	carbofuran		carbofuran	carbofuran	Carbofuran		Carbofuran	Carbofuran Carbofuran Carbofuran	Disuffoton Carbofuran Carbofuran	
State Source										7.0005		MD: CN-5270 FWSW: 7014-001	FWSW: 7014-002	CAUTG: P-103/	VA: 2-87	GA: 189-87		1	CADFG1: P-1105 CADFG: P- 1105/1107			GA: 29-88 DE: 8432	i i	VDGIF: 2-88		FWSW; 7876-001 FWSW; 7877-001			FWSW: 7907-001 FWSW: 7918-001	FWSW: 8066-001-	900		MD: 30000/47A FWSLE: INV	0566A1	
Federal Source	Elis: B0000-400-79	EIIS: 1005524-005 EIIS: 1005702-001	EIIS: 1005524-007a	EllS: 1005524-0076 Fils: 1005524-007c	EIIS: 1004631-009		EIIS: 1004631-010	CWS: CWS86-14	Ells: I005531-001	EIIS: 1005532-001		EIIS: 1005860-001		EIIS: 1005302-001	EIIS: 1004169-015	EIIS: 1005561-001		EliS: 1003930-001	EIIS: 1003948-001 EIIS: 1005565-001	EIIS: 1003177-002		EIIS: 1000103-012	EIIS: 1000916-001	EIIS: 1003177-001		CWS: CWS88-2 CWS: CWS88-12		CWS: CWS88-13	CWS: CWS88-14	EIIS: 1005557-001		EIIS: 1005751-001	EIIS: 1000916-002 EIIS: 1005863-001 EIIS: 80000-300-9	EIIS: 1005572-003	EIIC. 10009 10-000
*	Impacted 45	8 8	6	8 4	ကြို	<u>5</u> ~	ეგ თ	4 į	2 7	28	ପ୍ର	· – 4	, ,	იო	 \$	2 ←	7 -	- ;	2 2	-		7 7	- φ -				8	· -		- - -		hundreds	- 8 8°	150	-
Species	California Gulf	Passerine Herring Gull	Duck	Duck Duck	American Wigeon	Maliard Red-tailed Hawk	Mallard Northern Pintail	red-tailed hawk	Duck Red-tailed Hawk	Duck	Cooper's Hawk	Bald Eagle		Maliard American Robin	Great Homed Owl	Northern Cardinal	Song Sparrow White-throated Sparrow	Waterfow	Duck Duck	Shrike		Red-tailed Hawk	Baid Eagle	Shrike		bald eagle American Crow	Mallard bald eagle red-tailed hawk	Baid Eagle	baid eagle	Brown-headed Cowbird	Least Sandpiper Semipalmated Plover	Canada Goose	Bald Eagle Bald Eagle Goose	Canada Goose	
State	×	ŽΑ̈́	5	88	55		ర	გ:	క	88	5	Q Q	2	ŠŻ	\$	ð		ð	క క	*		S G	8 €	\$		Ø Ø		Q	<u>8</u> §	₽		0	M M O O R	₽ €	<u> </u>
County	N/A	Unknown N/A	Glenn	Colusa	Glenn		Colusa	glenn	Glenn	Colusa		Unknown		Glenn Ontario	Unknown	Newton		Unknown	Colusa	Unknown		Wilkinson	Dorchester	Montgomery		dorchester		Dorchester	dorchester	Dorchester		Unknown	Worcester Worcester Malheur	Unknown	
End Date							12/1/1986		11/29/1986	11/26/1986					10/12/1987				1/7/1988 4/1/1988			9/39/108B	5/17/1892												
Start Date	6/1/1986	6/2/1986 7/29/1988	8/5/1986	8/5/1986	9/1/1986		9/1/1986	10/1/1986	10/23/1986	11/11/1986	006100171	3/1/1987	000	8/23/1987	9/29/1987	12/1/1987		1/1/1988	1/7/1988 1/7/1988	1/29/1988		2/23/1988	3/8/1988	3/16/1988		3/22/1988		4/15/1988	4/22/1988	5/1/1988		5/1/1988	5/16/1988 5/17/1988 5/21/1988	5/22/1988	9961/97/0
Event	259	260 264	566	1768	269		270	2312	275	279	8	292	6767	303	354	362		365	366 367	369		373	383	384		2331		2342	2343	394		395	398 399 400	104	704

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Notes				Airstrip / Airport					deeus	gheeds							Turf/Golf Turf/Golf		
Granular or Flowable																			
Site/Land Use	Crop - Rapeseed	Crop - Rapeseed	Crop - Wheat	Flooded Field Non-Agricultural Unknown	Crop - Rice Apple Orchard	Ranch	Crop - Corn	Agricultural Area	Ranch	Ranch	Crop - Com	Crop - Corn	Crop - Com	Swamp Crop - Turnip Non-Agricultural	Ranch	Flooded Field Field	Unknown Non-Agricultural Non-Agricultural	Unknown Crop - Corn	Grap - Corn Unknown
Mis/Ab/Use	Misuse	Legai (Label)		Unknown Unknown Unknown	Unknown Abuse	Abuse	Abuse	Abuse	Abuse	Abuse Abuse	Legal (Label)	Legai (Labei) Legai (Labei)	Legal (Label)	Unknown Unknown Unknown	Abuse	Unknown Legal (Label)	Unknown Abuse Abuse	Unknown Misuse	Misuse Abuse
Pesticide(s	Carbofuran	Carbofuran	carbofuran	Carbofuran Carbofuran Carbofuran	Carbofuran Carbofuran	carbofuran carbofuran carbofuran Carbofuran	Carbofuran	Carbofuran	Carbofuran	Carbofuran	Carbofuran	Carbofuran Carbofuran Paraquat dichloride	Carbofuran	Carbofuran Carbofuran Carbofuran Parathion	Carbofuran	Carbofuran Carbofuran Chlorovrifo	Carbofuran	Carbofuran	Carbofuran
State Source	ON: PC00624		FWSW: 8305-001	CA: P-1192 CA: 82-COL-88 CADFG1: P-1192-	CA: D-9976 FWS: 1310	FWSW: 8466-002 FWSW: 8609-001 DEDFG: INV	9184A		SD: CR80-50053-0			VDGIF: 83-89 VA: 2-89 VA: 82-89	NE: 061389186802	SD: 89P19	USFWSLE6: 4506AO	CADFG: P-1266 CADFG: P-1257	CADFG: P-1269 CA: P-1270	SD: D11853 CA: 041990	
Federal Source	EIIS: B0000000038	EIIS: 1005507-001	CWS: CWS8B-10	EIIS: B0000-520-16 EIIS: 1005423-001 EIIS: 1003948-009	EIIS: 1005558-001 EIIS: 1005704-001	CWS: CWS88-3 CWS: CWS88-4 CWS: CWS8-1 EIIS: 1005749-001	EIIS: B0000-300-10	EIIS: 1000116-008	EIIS: 1000923-001	EIIS: 1005503-001 EIIS: 1000805-001	EIIS: 1001599-001	EIIS: B0000-500-57 EIIS: 1000097-015 EIIS: 1004169-026 EIIS: 1005750-001	EIIS: 1005556-001	EIIS: 1005664-001 EIIS: 1005205-005 EIIS: 1000805-008	EIIS: 1001606-007	EIIS: 1005417-007 EIIS: 1005417-009	EIIS: 1005417-006 EIIS: 1005417-008 EIIS: 1005417-004	EIIS: 1005504-001 EIIS: 1005419-001	EIIS: 1004865-001 EIIS: 1005505-001
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Species	Blackbird	Blackbird	Sparrow baid eagle	Duck Duck Duck	Duck Dark-eyed Junco European Starling Hawk	Red-tailed Hawk bald eagle bald eagle turkey vulture Red-tailed Hawk	Rock Pigeon Crow Goose	Hawk Dw Rock Pigeon Grow Ow Red-tailed Hawk	Vulture Femginous Hawk	Golden Eagle Bald Eagle Bald Eagle	Common Grackle	Chipping Sparrow American Robin Chipping Sparrow European Starling	Unknown Bird American Robin Blackbird Killdeer	Bade Eagle Canada Goose Canada Goose	Black-billed Magpie Golden Eagle Raptor	Duck	Duck Duck	Baid Eagle Northern Harrier	Red-tailed Hawk Waterfowl Duck Eagle Hawk
State	ŏ	Š	WD	វវវ	5 ₹ ,	8 F 8 9	껆	핌	8	88	ä	* *	¥	S B M	TW.	క క	555 23		\$8
County	Essex	Unknown	kent	Colusa Colusa Colusa	Colusa Marquette	dorchester fergus unknown New Castle	Unknown	New Castle	Pennington	Unknown Meade	New Castle	Albemarle Albemarle	Adams	Dorchester N/A Deuei	Garfield	Colusa Solano	Colusa San Bernardi	Charles Mix Sacramento	Sacremento Haakon
End Date				11/14/1988 1/26/1989		3/15/1990			4/5/1990	4/20/1989	5/18/1989	5/28/1989 5/20/1989		6/19/1989	3/24/1893	10/22/1989			
Start Date	9/1/1988	9/5/1988	10/14/1988	10/24/1988 10/24/1988 10/25/1988	10/30/1988 11/16/1988	12/15/1988 12/23/1988 1/1/1989 1/20/1989	1/27/1989	1/27/1989	3/1/1989	4/11/1989	5/7/1989	5/20/1989 5/20/1989	6/6/1989	6/19/1989 8/14/1989 8/26/1989	10/1/1989	10/11/1989	11/9/1989	11/20/1969	1/23/1990
Event	419	420	2339	423 424 426	427 430	2332 2333 2344 434	435	438	044	452 453	455	459	472	473 478 480	481	482 485	486 488	4 4 4 4 9 0 0 4 4 9 0 0 4 4 9 0 0 4 4 9 0 0 4 9 0 0 4 9 0 0 4 9 0 0 4 9 0 0 4 9 0 0 4 9 0 0 4 9 0 0 0 0	492 493

or Notes										sheep																										
Granular or Flowable																																				
Site/Land Use	Unknown	Ranch	Grazing Land Crop - Com	Crop - Potato	Crop - Potato	Unknown	Crop - Com	!	Unknown	Ranch		Agricultural Area	Grazing Land	Vineyard		Crop - Com			Near Raccon/Balt	Orchard	Crop - Com	Crop - Corn			Unknown	Crop - Com	Unknown Aggregational Aggregation	Agricultural Area				Unknown		Flooded Field	Inknown	
Mis/Ab/Use	Abuse	Abuse	Legai (Labei)	Misuse	Legal (Label)	Abuse	Misuse	:	Unknown	Abuse		Abuse	444	Legal (Label) Misuse		Legal (Label)			regal (repai		Legal (Label)	Unknown			Unknown		Unknown	Legal (Label)				Unknown		Legal (Label)	rwoada! I	
Pesticide(s	Carbofuran	Carbofuran	carbofuran Carbofuran	Carbofuran	Carbofuran	Carbofuran	Carboluran		Carbofuran	Carbofuran		Carbofuran	carbofuran	Carbofuran		Carbofuran			carbofuran	carbofuran	Carbofuran	Carbofuran		carbofuran	Carbofuran	carbofuran	Carbofuran	Carboturan				Carbofuran	carbofuran	Carbofuran	Contother	Chlordane
State Source	FWS: 5543AK		FWSW: 9456 SCWDS: 98-90		VDGIF: 1-90			;	VDGIF: 2-90a VA: D-11746	SD: 90-051 M		ND: 90-104	FWSW: 9509	CAUFGT: P-1288 CA: 042790A					FWSW: 9497-001						VDGIF: 4-90	1000	VDGIF: 5-90	VDGIF: 2-90							0	VA: 8 - 90
Federal Source	EIIS: 1001606-006	EIIS: 1005419-002	CWS; CWS90-12 EIIS: 1005752-001	EIIS: 1005627-001	EIIS: 1004169-032	EIIS: 1005419-003	EIIS: B00000000039		EIIS: 1005481-001	EIIS: 1000923-002		EIIS: 1000915-001	CWS: CWS80-1	EIIS: 1004865-004 EIIS: 1005527-003		EIIS: 1003637-001			EllS: 1003637-002 CWS: CWS90-13	CWS: CWS90-9		EIIS: 1000116-005			EIIS: 1005510-003	CWS: CWS90-3	EIIS: 1005510-004	EIIS: 1004169-033				EIIS: 1005666-001	CWS: CWS90-2	Elis: 80000-501-93	Tion constant	EII3: 1004 168-03/
	2 - E			4 t5 k		_	N 1	- - -	200	₽ ←	0 0	⊷ ⊷	-	1000 hundreds	hundreds	hundreds 1	- 3	6	n -		- 4	- -	- ¥ ¢	, m	{	₹ -	2	hundreds 1	~ ξ	2 2		- 2 -	4 -	. E 2	, m	-
Species	Baid Eagle Black-billed Magpie	Golden Eagle Bald Eagle	Golden eagle Goll	Snow Goose	European Starling	Grackie Baid Eagle	Golden Eagle Bald Eagle	Blue Jay Common Grackle Red-winged Blackbird	Red-winged Blackbird Grackie	Red-winged Blackbird Ferruginous Hawk	Golden Eagle Hawk	Unknown Bird Bald Eagle	golden eagle	Finch Furnean Stading	House Finch	Sparrow Laughing Gull	Mallard Spow Goose	Teal	Mallard bald sagle	American Kestrel	Snow Goose	Laughing Guil	Snow Goose Teal	Golden Eagle	Red-tailed Hawk	great homed owl	Red-tailed Hawk	Blackbird Blue Jav	Eastern Bluebird	European Starting Grackie	Northern Cardinal	Sparrow Baid Eagle	Red-tailed Hawk	American Wigeon	Northern Pintail	Bald Eagle
State	¥.	ž	SB	5	₹ ₹	¥	₹		\$ \$	S		Ž	8	გ გ	ś	ä			범 운	2	핌	범		₩	\$	§ ≤	\$	\$				ပ္ထ	S	88		≰
County	Union	Bernalillo	pennington Kent	1	Accomack	Musselshell	Essex		Essex Essex	Bennett		Burleigh	rio blanco	San Joaquin		Kent			Kent mc kenzie	unknown	Kent	Kent		Johnson	Wythe	Sutter	Essex	Essex				N/A	view and and	Colusa		Westmoreland
End Date			4/1/1991		3/26/1990				4/17/1990																											
Start Date	1/30/1990	1/30/1990	3/1/1990 3/15/1990		3/22/1990	3/30/1990	4/9/1990		4/9/1990	4/11/1990		4/19/1990	4/26/1990	4/27/1890	0661117/4	4/28/1890			4/28/1990	4/30/1990	4/30/1990	5/4/1990		5/14/1990	5/19/1990	5/26/1990	7/21/1980	9/9/1990				9/19/1990	0000000	10/26/1990		11/29/1990
Event	494	495	2370 1695	ì	503 502	503	504		202 208	808		200	2359	510	<u>-</u>	512	!		513	2367	514	516		2368	517	519	229	531				532	0	534		535

ar or Notes	ı																	
Granular or Flowable																		
Site/Land Use	Vineyard	Vineyard	Vineyard	Crop - Rice Vineyard		Vineyard	Vineyard Vineyard	Grazing Land		Unknown Crop - Com		Crop - Corn	Crap - Com	Crop - Corn	Unknown	Crop - Com	Crop - Corn	Unknown
Mis/Ab/Use	Misuse	Unknown	Misuse	Legai (Label) Legai (Label)	Misuse	Legai (Label)	Legal (Label)	Misuse		Unknown		Unknown	Unknown	Unknown	Abuse	Unknown	Unknown	Unknown
Pesticide(s	Carbofuran	Carbofuran	Carbofuran	Carbofuran	famphur	carbofuran	carbofuran Carbofuran	carbofuran	carbofuran	Carbofuran Carbofuran		Carbofuran	Carbofuran	Carbofuran DDT Dieldrin Phorate	Carbofuran	Carbofuran	Carbofuran	Carbofuran
State Source					FWSW: 9961-001		CADFG1: P-1347	FWSW: 10021-001		KS: 91-6-6214 AM SCWDS: 76-91		SCWDS: 77-91 SCWDS: 92-91	SCWDS: 98-81	SCWDS: 69-91 SCWDS: 70-91 SCWDS: 71-91 SCWDS: 72-91	USFWSLE6:	SCWDS: 91-91	VDGIF: 27-91	VDGIF: 28-91
Federal Source	EIIS: 1005416-006	EllS: 1005418-003	EIIS: 1005418-004	EIIS: 1005418-002 EIIS: 1005418-005	CWS: CWS91-15	CWS: CWS91-18	CWS: CWS91-19 EIIS: 1004885-005	CWS: CWS91-1	CWS: CWS91-1	EIIS: 1000012-001 EIIS: 1000504-030		EJIS: 1000504-031 EJIS: 1000504-034	EIIS: 1000504-035	EIIS: 1000504-026 EIIS: 1000504-027 EIIS: 1000504-028 EIIS: 1000504-029	Elis: 1001606-001	EIIS: 1000504-032	EIIS: 1004169-051	EIIS: 1004169-052
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Species	American Robin European Starting	American Robin European Starling	American Robin European Starling	Finch Duck American Robin European Starling	Finch Bald Eagle Great Homed Owl Northern Harrier Prairie Falcon	Red-tailed Hawk American Kestrel American Robin European Starling Northem Harrier	Red-tailed Hawk Red-tailed Hawk European Starling	baid eagle	Vulture golden eagle	Batd Eagle American Pioit	Brown-headed Cowbird House Sparrow Rusty Blackbird Sevenant Sparrow	Common Grackle Savannah Sparrow White throsted Sparrow	American Kestrel Cedar Waxwing Chipping Sparrow	Swallip Spanow American Robin Eastern Bluebird	Golden Eagle	Brown-headed Cowbird Chipping Sparrow Eastern Meadowlark Northern Cardinal Sevannah Sparrow	American Pipit Brown-headed Cowbird House Sparrow Rusty Blackbird Common American	Brown-headed Cowbird Chipping Sparrow Eastern Meadowlark Northern Cardinal Savannah Sparrow White-throated Sparrow
State	ð	5	ర	8 8	5	ర	5 5	ş	×8	& &		\$	*	*	M	\$	\$	\$
County	Napa	Napa	Unknown	Colusa Unknown	Weber	Napa	Neps Bos Bos Bos	new madrid	Medina	Logan King George		Isle of Wight	Caroline	Isle of Wight	Sheridan	Sury	King George	Sumy
End Date										4/7/1991			5/1/1991	4/6/1991		4/14/1991	4/10/1991	4/13/1991
Start Date	11/30/1990	12/10/1990	12/10/1990	12/11/1990 12/20/1990	1/6/1991	177/1991	1/9/1991	1/26/1991	3/15/1991	4/1/1991		4/1/1991	4/1/1991	4/5/1991	4/8/1991	4/9/1991	4/9/1991	4/9/1991
Event	537	538	538	540 544	2386	2387	2390	2372	2382	560	3	299	585	999	999	570	57.1	572

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																						Stream/River		Airstrip/Airport
Notes																						d.	;	Alrs
Granular or																								
Site/Land Use	Crop - Com	Crop - Com	Crop - Com	Crop - Cora		Crop - Com	Unknown	Crop - Com		Crop - Corn		Crop - Corn	Crop - Con	Agricultural Area					Crop - Com	Non-Agricultural	Vineyard Crop - Rice	Vinevard		Crop - Rice
Mis/Ab/Use	Unknown	Unknown	Unknown	Unknown		Unknown	Unknown	Unknown		Unknown		Unknown	Unknown	Unknown					Unknown	Unknown	Unknown	Incharge	Oliniowi	Legal (Label)
Pesticide(s	Carbofuran	Carbofuran	Carbofuran	Carboturan		Carbofuran	Carbofuran	Carbofuran		Carbofuran		Carbofuran	Carbofuran	Carbofuran					Carbofuran	Carbofuran Diazinon Heotachlor	Carbofuran	Carbofican	S S S S S S S S S S S S S S S S S S S	Carbofuran
State Source	VDGIF: 30-91	NYDEC: 8-91 SCWDS: 97-91	VDGIF: 29-91	VDGIF: 7-86 VDGIF: 7-91		LE6: 3887AM	VDGIF; 31-91	VDGIF: 32-91		VDGIF: 33-91		VA: 100-91	VDGIF: 35-91	VA: 117-91					SCWDS: 136-91	VDGIF: 16-91	CA: P-1418	0.40504.0	1429/1431	CADFG: P-1436
Federal Source	EIIS: 1004169-054	EIIS: 1000504-033	EIIS: 1004169-053	EliS: 1004169-010 EliS: 1004169-043		Eils: 1001601-001	EIIS: 1004169-055	EIIS: 1004169-056		EilS: 1004169-057		EIIS: 1000504-038	EIIS: 1004169-059	EIIS; 1000504-037					EIIS: 1000504-038	EIIS: 1003176-005 EIIS: 1004169-048	EllS: 1005525-004	Elle, longton non	EIS: Journam-voo	EIIS: 1001602-001
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Species	Common Grackle Savannah Sparrow White-throated Sparrow	Eastern Phoebe	Chipping Sparrow	Eagle Baid Eagle	Red-tailed Hawk	Baid Eagle Red-tailed Hawk	Boat-tailed Grackle	American Kestrel	American Robin Cedar Waxwing Chipping Sparrow European Starting	Eastern Bluebird European Starling Grasshopper Sparrow	Mourning Dove	Eastern Bluebird	American Robin Boat-tailed Grackle Grosbeak Mourning Dove Northern Cardinal Summer Tanager	American Crow American Kestrel	Blue Grosbeak	Carolina Wren	Chipping Sparrow European Starling	Grasshopper Sparrow Mourning Dove	Northern Bobwhite Summer Tanager	Mattard	Songbird	Cuck Cuck	European Starling Great Egret Great Heron Unknown Bird	Duck Red-tailed Hewk
State	*	*	\$	\$\$		*	*	¥		\$		\$	\$	\$						\$	88			ర
County	Isle of Wight	Isle of Wight	Surry	Essex Madison		Madison	New Kent	Caroline		Ametia		Amelia	King George	Amelia					King George	Virginia Beach	San Joaquin	Consta	San Joaquin	Colusa
End Date	4/18/1991	4/12/1991	4/16/1991	4/17/1991			4/26/1991	5/1/1991		5/24/1981			5/29/1991						6/7/1991	7/11/1991				
Start Date	4/10/1991	4/11/1991	4/16/1991	4/17/1991		4/18/1991	4/18/1991	4/19/1991		4/29/1991		5/1/1991	5/13/1991	5/15/1991					6/1/1991	7/11/1991	9/20/1991	10/25/1991	1861/1/11	11/1/1991
Event	573	574	576	677 578		629	280	581		583		586	587	588					290	594	597	980	98 98	900

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Notes																				Residential Turf								Airstrip / Airport							94	Lake
Granular or Flowable																																				
Site/Land Use		Vineyard	Vineyard		Vineyard	Vineyard	Vineyard		Vineyard	Unknown	Unknown	Unknown	Field	Field		Crop - Alfalfa		Crop - Com		Non-Agricultural	1	Tield	Agricultural Area		Unknown	Unknown		Non-Agricultural	goo.					Unknown Unknown	Vineyard	Non-Agricultural
Mis/Ab/Use	Unknown	Unknown	Unknown		Unknown	Unknown	Unknown	Unknown	Unknown	Legal (Label)	Legal (Label)	Abuse	Unknown	Unknown		Unknown		Legal (Label)		Misuse	Unknown	Onknown	Misuse		Misuse	Abuse		Abuse	. opide					Unknown	Legai (Label)	Unknown
Pesticide(s	carbofuran	Carbofuran	Carboturan	carbofuran	Carbofuran	Carbofuran	Carbofuran	carbofuran	Carbofuran	Carbofuran	Carbofuran	Carbofuran	Carbofuran	Carbofuran		Carbofuran		Carbofuran		Carbofuran	carboluran	Carboturan	Carbofuran		Carbofuran	Carbofuran	-	Carbofuran	achofinen	8				Carbofuran	Carbofuran	Carbofuran
State Source		CA: P-1429	CA: P-1430	FWSW: 10486-001	CA: P-1441	CA: P-1442	CA: P-1444	FWSW: 10485-001	CA: P-1445	CA: P-144	CA: P-1450	LEB: 3890AN	CA: D9200385	CEETV: 190956	CEETV: 19095/ TX: 05-92-0005	CADFG1: P-1455		FWSLE: 10684/92-	2.5	TN: 503656		SCWDS: 60-92	VA: 4-92		LE6: 5927AN	LE6: 6189AN		NMLE: 6696AN	PIC: 1800 72	NO. INSE-12				SCWDS: 100-92 VA: 9-92		
Federal Source		EIIS: 1005525-005	EIIS: 1005525-007	CWS: CWS91-3	EIIS: 1005525-009	EllS: 1005525-010	EIIS: 1005525-012	CWS: CWS91-4	EIIS: 1005525-013	EIIS: 1005525-014	FIIS: 1000599-009	EllS: 1001806-002	EIIS: 1002682-001	EIIS: 1000917-002		EIIS: 1000599-007		EIIS: 1000924-001		EIIS: 1000124-002	FWSLE: 3890AN	EIIS: 1000137-002	EIIS: 1004189-065		EllS: 1001608-004	FIIS: 1001606-005		CWS: CWS92-16 EIIS: 1001598-001	FOO OUTCOOL CHILL	Elia: 1000/99-00/				EliS: 1000504-017 FIIS: 1004169-086	EIIS: 1000444-022	EIIS: 1000504-021
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Species	Great Egret Black-crowned night-heron great blue heron	Songbird	European Starting	Finon bald eagle	American Robin	Songbird	Songoird American Robin	baid eagle	Red-tailed Hawk	Red-tailed Hawk	Hawk	Golden Facie	Eagle	Cattle Egret		Northern Hamier	Songbird	Eastern Bluebird	Finch	Unknown Bird	Golden Eagle	Common Grackle Mouming Dove	American Crow	Common Grackle Eastern Bluebird	Mouming Dove Bald Eagle	Golden Eagle	Golden Eagle	Golden Eagle Mouming Dove	Sparrow	Blue Jay	Crow European Starling	Great-tailed Grackle Mourning Dove	Northern Cardinal Red-tailed Hawk	American Crow	Unknown Bird	Canada Goose Canada Goose
State	Y	క	გ:	5 ⊋	ర	₹	5 8	ē	ð	გ მ	5 8	3 5	ð	¥		ð		Š		ž	×	*	\$		M	٤	3	AZ A	! !	2				* *	88	≩≩
County	San joaquin	Mendocino	Sonoma	Napa talbot	Napa	Napa	is de N	dueen annes	Napa	ede V	Sonoma	Sonoma	, and A	Hidalgo		Stanislaus		Brunswick		Knox	judith basin	Caroline	Caroline		Sheridan	,	2	Unknown Yuma		Yadkin				Hanover	Monterey	Pocahontas Pocahontas
End Date	11/11/1991																				3/3/1992		4/21/1992					6/21/1992	1001						11/6/1992	
Start Date	11/11/1981	11/11/1991	11/12/1991	11/21/1991	12/3/1991	12/3/1991	12/3/1991	12/5/1991	12/11/1991	12/30/1991	1/1/1992	1/8/1892	2/4/1992	2/15/1992		3/1/1992		3/1/1992		3/3/1992	3/3/1992	4/1/1992	4/16/1992		5/5/1992	000	7881/01/0	5/20/1992	300	5/30/1992				6/7/1992	9/15/1992	10/12/1992 10/19/1992
Event	2488	601	802	9374	607	808	908	2375	811	613	418	615	673 103	626		627	İ	828		630	2256	632	634		636	9	0.46	2406	ţ	646				649	066 988	668 670

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Granular or																											
Site/Land Use	Vineyard Vineyard	Vineyard	Vineyard	Ranch	Unknown	Agricultural Area	Unknown Non-Aoricultural		Unknown Groo - Alfalfa		Unknown	Vineyard	Waterway		Unknown		Unknown	Vineyard		Crop - Com	Crop - Corn		Crop - Alfalfa	Vineyard	Vineyard	Crop - Rice	Vineyard Vineyard
Mis/Ab/Use	Legai (Label) Legai (Label)	Legal (Label)	Legal (Label)	Abuse	Abuse	Abuse	Unknown		Abuse		Unknown	Legal (Label)	Abuse	a a a a a a a a a a a a a a a a a a a	Unknown		Unknown	Legal (Label)		Legal (Label)	Unknown		Legal (Label)	Unknown	Legal (Label)	Legal (Label)	Legai (Label) Legai (Label)
Pesticide(s	Carbofuran Carbofuran	Carbofuran	Carbofuran	Carbofuran	Carbofuran	Carbofuran	Carbofuran		Carbofuran	5	Carbofuran	Carbofuran	Carbofuran		Carbofuran		Carbofuran	Carbofuran		Carbofuran	Carbofuran	carbofuran	Carbofuran Dimethoate	Carbofuran	Carboturan	Carbofuran	Carbofuran
State Source	CADFG1; P-1515 CADFG1; P-1517	CADFG1: P-1514	CADFG1: P-1513	KSAPHD:	LE6: 11228	NMLE: 6461AP	VDGIF: 4-93	2000	LE6: 7817AP				0	LES: / 100-AO	CADFG1: P-1555-1	ത		CADFG1: P-1565			DE: 7886AO		ID: 93056	CA: P-1599			
Federal Source	EIIS: 1000599-004 EIIS: 1000599-002	EIIS: 1000589-005	EIIS: 1000599-006	EIIS; 10004632-001	EIIS: 1001600-001	EIIS: 1001598-002	EIIS: 1004169-080	File: 1000504-007	EIIS: 1001606-014	Ello, icocoss-cos	EIIS: 1001605-002 EIIS: 1004632-002	EllS: 1000599-001	EIIS: 1000912-001	EIIS: 1007-808-008	EIIS: 1004632-004		FIIS: 1004632-003	EIIS: 1000599-011		EIIS: 1001599-002	EIIS: 1002047-001	CWS; CWS93-14	EIIS: 1000920-001	EIIS: 1000589-013	EIIS: 1000599-014	EIIS: 1003930-002	EIIS: 1000599-016
*	Impacted 1 1			- 4 -	- 01		6 ,	7 – 0	n (2 -	. ლ	- ო	-	4 0	- 2	v - 5	N 60	0 m ← ;	2 7 7		10 - -	- w -	- 6	₽.	v 4 co ←	- 5	! ∞
Species	Lawrence's Goldfinch American Robin	Yellow-rumped Warbler Dark-eyed Junco House Finch	Mourning Dove Yellow-rumped Warbler House Finch Savannah Sparrow	Songbird Bald Eagle	Common Crow Northern Harrier	Red-tailed Hawk	Cedar Waxwing	Dark-eyed Junco Red-shouldered Hawk	Songbird	House Princh House Sparrow	Baid Eagle House Finch	House Sparrow House Finch	™	Black-billed Magpie Golden Eagle	Owl American Robin	Brower's Blackbird Bronzed Cowbird House Finch	Oregon Junco	American Robin Brewer's Blackbird Brown-headed Cowbird	House Finch Oregon Junco	Sparrow Common Grackle European Starling Red-winged Blackbird Rock Pigeon	Blue Jay Red-winged Blackbird	Rock Pigeon Bald Eagle	Downy Woodpecker Canada Goose	Red-winged Blackbird	Red-winged Blackbird Flycatcher House Finch House Sparrow	Yellow-rumped Warbler Mallard	House Finch Lark Sparrow
State	క క	ర	క	š	핌	ž	*	₹	SS	5	≨გ	ď	AR.	Σ	ర		ć	ថ		DE	D H	SD	Θ	8	ర్టర్	Š	555
County	Monterey Kern	Monterey	Monterey	Republic	New Castle	Croehy	Charles City	Screven	Hutchinson	San Joaquin	Burnelt San Joaquin	Ķ.	Prairie	Rosebud	Monterey		900	Monterey		Kent	Kent	Butte	Canyon	Monterey	Monterey	coele	Monterey
End Date				1/4/1993	1/7/1993	11111001	2/19/1993								4/27/1993					5/18/1993							
Start Date	10/23/1992	11/1/1982	11/1/1992	12/26/1992	12/29/1992	14/4003	2/2/1993	2/13/1993	2/27/1993	3/1/1993	3/1/1993 3/22/1993	4/4/4003	4/1/1993	4/15/1993	4/23/1993		100,400	5/1/1993		5/7/1993	5/27/1993	5/31/1993	6/10/1993	8/16/1993	8/16/1993 9/1/1993	004/4003	9/15/1993 9/15/1993 9/15/1993
Event	671 673	674	675	679	980	ç	8 69	695	697	889	699 703	£02	2 <u>8</u>	712	713	2	7	715		716	717	2420	718	725	726 727	9	732

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Notes																																	
Granular or																																	
Site/Land Use	Vineyard	Unknown	Unknown	Vineyard	Unknown	Unknown	Vineyard	Unknown	Vineyard		Unknown		Vineyard	Vineyard		Vineyard		Unknown	Unknown	Unknown		Vineyard	:	Unknown	, Grandell	Unknown	Unknown	Vineyard		Unknown			
Mis/Ab/Use	Legal (Label)	Unknown	Unknown	Unknown	Unknown	Unknown	Legal (Label)	Unknown	Legai (Label)		Unknown		Legal (Label)	Legal (Label)		Legal (Label)		Unknown	Unknown	Unknown		Legal (Label)		Unknown	0040	Unknown	Unknown	Legal (Label)		Unknown			
Pesticide(s	Carbofuran	Carbofuran	Carbofuran	Carbofuran	Carbofuran	Carbofuran	Carbofuran	Carbofuran	Carbofuran		Carbofuran		Carbofuran	Carbofuran		Carbofuran		Carbofuran	Carbofuran	Carbofuran		Carbofuran		Carbofuran	1	Carbofuran	Carbofuran	Carbofuran		Carbofuran			
State Source				CA: P-1598	CADFG1: P-1598		CA: P-1603	CADFG1: P-1603	CADFG1: P-1805		CADFG1: P-1695					CA: P-1627						CA: P-1626		CADFG1: P-1626	7007	CAC P-1624 CADFG1: P-1624	CA: P-1625	CA: P-1818 ET AL		CADFG1: P-1616			
Federal Source	EIIS: 1000598-015	EIIS: 1004632-010	EIIS: 1004632-009	EliS: 1000599-012	EIIS: 1004632-007	EIIS: 1004632-011	EliS: 1000599-017	ENS: 1004632-012	EIIS: 1000599-019		EllS: 1004632-014		EIIS: 1000599-020	EIIS: 1000599-025		EIIS: 1000599-027		EIIS: 1004632-013	EIIS: 1004632-015	EHS: 1004632-024		EIIS: 1000599-026		EIIS: 1004632-023	200000000000000000000000000000000000000	EIIS: 1004632-021	E11S: 1004632-022	EIIS: 1000599-021		EIIS: 1004632-017			
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Species	Lark Sparrow Purple Finch	Savannah Sparrow Lark Sparrow Purple Finch	Savannah Sparrow House Finch House Sparrow	Yellow-rumped Warbler Northern Filcker	Yellow-rumped vyarbier Northern Flicker	Yellow-rumped Warbler House Finch	Yellow-rumped Warbler	Yellow-rumped Warbler	Balo Eagle House Finch	Western Meadowlark	House Finch	Western Meadowlark Yellow-rumped Warbler	House Finch	Yellow-rumped vyarbler Brewer's Blackbird	nouse rings Lawrence's Goldfinch	Yellow-rumped Warbler Brewer's Blackbird	House Finch	Lark Sparrow	House Finch	Brewer's Blackbird	Lawrence's Goldfinch	Brewer's Blackbird	Finch Yellow-rumped Warbler	Brewer's Blackbird House Finch	Yellow-rumped Warbler	Mourning Dove	Mourning Dove	Blackbird	Finch Mourning Dove Northern Flicker Sharp-shinned Hawk Western Bluebird	Horned Lark House Finch	Lark Sparrow Lawrence's Goldfinch Mouming Dove	Northern Flicker Sparrow Weetern Bistebird	Yellow-rumped Warbler
State	5	გ	5	క	გ	Ą	ð	8	3 5		8		5	8		Š	;	క	క	క		ర		ð	į	5 5	క	రే		ర			
County	Monterey	Monterey	Monterey	Monterey	Monterey	Montanav	Monterey	Monterey	Butte		Monterey		Monterey	Monterey		Monterey		Monterey	Monterey	Monterey		Monterey		Monterey	:	Monterey	Monterey	Monterey		Monterey			
End Date																												11/3/1993					
Start Date	9/22/1993	9/22/1993	10/1/1993	10/11/1993	10/11/1993	40/11/1993	10/12/1993	10/12/1993	10/18/1993		10/20/1993		10/21/1993	10/21/1993		10/21/1993		10/21/1993	10/21/1993	10/21/1993		10/25/1993		10/25/1993		10/26/1993	10/27/1993	10/28/1993		10/28/1993			
Event	733	735	738	739	740	244	742	743	744	2	746		747	748		749	2	750	751	752		753		754	,	755 756	757	758		759			

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or Notes																					
Granular or	Flowable																				
Site/Land Use	Unknown	Unknown	Unknown	Vineyard Unknown	Vineyard Unknown Unknown	Unknown	Vinevard	Unknown	Crop - Rice Unknown	Crop - Rice Vinevard	Vineyard	Unknown	Vineyard	Unknown	Unknown Garnavillo		Unknown	Unknown	Unknown	Crop - Com	Lake
Mis/Ab/Use	Unknown	Unknown	Unknown	Unknown	Legal (Label) Unknown Unknown	Unknown	Mede Diece	Unknown	Unknown Unknown	Legal (Label) Legal (Label)	Legal (Label) Unknown	Unknown	Legal (Label)	Unknown	Abuse	Abuse	Misuse	Abuse	Abuse	Abuse	Unknown
, Pesticide(s) Carbofuran	Carbofuran	Carbofuran	carbofuran Carbofuran	Carbofuran Carbofuran Carbofuran	Carbofuran	oeningen een een een een een een een een een	Carbofuran	Carbofuran	Carbofuran	Carbofuran	Carbofuran	Carbofuran	Carbofuran carbofuran	Carbofuran	Carbofuran	Carbofuran	Carbofuran	Carbofuran	Carbofuran	Carbofuran
State Source	CADFG1: P-1617	CADFG1: P-1832	CADFG1: P-1618	CADFG1: P-1619	CADFG1: P-1630	CADFG1: P-1635	7.4. D. 4637	CADFG1: P-1837		CA: P-1629	CA: P-1631 CADFG1: P-1629	CADEG1: P.1831	CA: P-1633	CADFG1: P-1633	FWSLE6: 8285AP		VA: 12617-001-	LE6: 6081AP	LE6: 7900AP		
Federal Source	EIIS: 1004632-018	EIIS: 1004632-028	EIIS: 1004632-019	CWS: CWS93-2 EIIS: 1004632-020	EIIS: 1000599-034 EIIS: 1004632-031 EIIS: 1004632-026	EIIS: 1004632-030	EIIC MARGO A34	EIIS: 1004632-032	EIIS: 1001598-001 EIIS: 1004632-016	EIIS: 1004665-007 EIIS: 1000599-029	EIIS: 1000599-031 EIIS: 1004632-025	FIIS: 1004832-027	EIIS: 1000599-032	EIIS: f004632-029 CWS: CWS93-10	EIIS: 1001606-012 FWSI F: 6483AP	FWSLE: 6481AP	EIIS: 1001604-001	EIIS: 1001607-001	EIIS: 1001606-011	EIIS: 1001603-001	EIIS: 1001605-001
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Species	House Finch Mourning Dove Northern Flicker Oregon Junco Vestern Bluebird	Tellow-unpeu wanter California Quai Hermit Thrush House Finch Lark Sparrow Mourning Dove Song Sparrow Western Bluebird	Yellow-rumped Warbter Lawrence's Goldfinch Mourning Dove	Yellow-rumped Warbler Hawk Mourning Dove Northern Flicker	Sharp-shinned Hawk Western Bluebird Yellow-rumped Warbler Yellow-rumped Warbier Brewer's Blackbird	Mourning Dove Yellow-rumped Warbler California Quail	House Finch Lawrence's Goldfinch Mourning Dove Northern Flicker Song Sparrow Western Meadowlark Yellow-tunpoed Walther	Yellow-rumped Warbler	Mallard	Maltard House Finch	Yellow-rumped Warbler Song Sparrow House Finch	Yellow-rumped Warbler	Yellow-rumped Warbler	Yellow-rumped Warbler Common Raven Golden Eagle	Magpie Baid Eagle Baid Facia	Great Horned Owl	Golden Eagle Red-tailed Hawk	Great Homed Owl	Bald Eagle	Golden Eagle Bald Eagle	Common Raven Bald Eagle
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County	Monterey	Monterey	Monterey	Monterey Monterey	Monterey Monterey Monterey	Monterey		Monterey	Glenn Glenn	Glenn	Monterey	Montaray	Monterey	Monterey Unknown	Wheatland	Crosby	Tazewell	Unknown	Pondera	Burnett	Burnett
End Date															1/28/1994	1/30/1994	2/23/1994			4/24/1994	
Start Date	10/29/1993	10/29/1993	10/30/1993	10/31/1993 10/31/1993	11/1/1993 11/1/1893 11/2/1993	11/3/1993	2002	11/5/1993	11/7/1983	11/7/1993	11/8/1983	11/8/1003	11/13/1993	11/13/1993 12/31/1993	1/21/1994	1/30/1994	2/21/1994	2/23/1994	3/23/1994	4/1/1984	4/6/1994
Event 1	760	761	762	2408 763	764 765 766	797	o se	88	2 E	22	45.	9 4	777	778 2416	792	1746	812	813	817	818	820

Shell and Use Granular or Notes Flowable	Ε			cultural Residential Turf	ulturai ai Area ai Area ai Area nach
	Unkrown Crop - Com	Unknown Unknown Unknown Unknown Vineyard	Unknown	Notregification of the Crop - Rice Agricultural Area Unknown	
Unknown		Unknown Unknown Unknown Abuse Unknown	Abuse Abuse		
Carbofuran	Carbofuran	Carbofuran Carbofuran Carbofuran Carbofuran Carbofuran	Carbofuran	Carbofuran Carbofuran Carbofuran Carbofuran Carbofuran Carbofuran	
	LE6: 8896AP	LEB: 830529 CADFG1: P-1768A		TN: 13436 TN: 13473,001 CADFG1: L-192-39	TN: 13435 TN: 13473.001 CADFG1: L-192-39 CA: 501707 NYDEC: 97-55-23 NYDEC: 97-55-23 KYDW: LTR 03/18/97 KY: 520807 WADA: 7V-1997
Federal Source ad EliS: 1001605-003		EIIS: 1003908-013 EIIS: 1003361-025 EIIS: 1004666-009 EIIS: 1003361-032 EIIS: 1004666-010	FWSLE: 7072AQ EIIS: 1003908-025	EIIS: 1003966-002 EIIS: 1003966-002 EIIS: 1003966-003 EIIS: 1003960-003 EIIS: 1003901-001	
Impacted 4					- 0 \$ - 1 8 0 1 + 1 4 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Baid Eagle Common Raven	Crow American Goldinch Ballinner Grole Brown-headed Cowbird House Firch House Sparow Mourning Dove Red-tailed Hawk Red-wingad Blackbird Rock Pigeon Sparrow	Crow Juli Ring-billed Gulf Citt Swallow Crow Crow Crow Coden Eagle Rec'taled Hank Brewer's Blackbird Finch	Yellow-rumped Warbler Red-tailed Hawk Blue Jay Dark-eyed Junco European Starling White-firroated Sparrow Blue Ley	Oute Jane Dark-eyed Junco European Starling Eagle Eagle Malland Baid Eagle Canada Gose	Bark-ayed Junoo European Starling Eagle Maltard Barling Eagle Caracia Goose Overtaen Cardinal Birewer's Blackbird Red-bland Hawk Caracia Goose Hawk Hawk Hawk Marchan Robin Bald Eagle Durlin Montham Harrier
State		≿ 555 55	N K	M CAN	
County	Moody Genesee	Chautauqua Imperial Imperial Sheridan Monterey	Bollinger Orange Orange	Pickett Hawkins Unknown Prince Georgei	Pickett Hawkins Unknown Prince Georg Unknown Dickenson Modoc Modoc New York Unknown Simpson Unknown Simpson
End Date 4/14/1994			1/25/1995	8/23/1995	
Start Date 4/8/1994	8/12/1994	8/17/1994 9/2/1994 9/13/1994 10/11/1994 11/3/1994	1/25/1895 1/30/1995 2/6/1995	2/22/1995 3/11/1995 5/26/1995 8/17/1995 8/18/1995	2722/1995 5722/1995 5724/1995 8/18/1995 8/18/1995 1/23/1996 1/23/1996 1/23/1997 1/23/1997 1/23/1997
Event I	837	838 841 843 851 854	1744 869 871	910018	878 882 990 990 922 929 929 1174 1174 1024 11029 11040

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Notes																	-	182													Lake																
Granular or	Flowable																																														
Site/Land Use	Non-Apricultural	Crop - Rice	Unknown	Unknown	Non-Agricultural	Non-Agricultural	Non-Apricultural	Non-Apricultural	Non-Apricultural	Unknown	Non-Agricultural	Unknown	Unknown	Non-Agricultural	Agricultural Area	E 60.0	100-del	Non-Agricultural	Non-Agricultural	Commercial	Man Ameliandania	Non-Agricultural	Non-Agricultural		Non-Agricultural	Non-Agricultural		Non-Apricultural	Non-Agricultural	National Park	Non-Agricultural	Forest	Local y rain	Poultry Farm	Crop - Wheat			4 1000	Agricultural Area		Unknown	Unknown	Ranch		Crop - Alfalfa	2000	100
Mis/Ab/Use	Abuse	Legal (Label)	Abuse	Abuse	Abuse	Abuse	Abuse	Abuse	Abuse	Abuse	Abuse	Unknown	Aprise	Abuse	Unknown	Legal (Label)	Logal (Lacel)	Abuse	Unknown	Abuse	I laboration	Ahiise	Abuse	:	Abuse	Abuse		Abuse	Abuse	Abuse	Unknown	Abuse	De no	Abuse	Abuse			1	You's		Abuse	Unknown	Abuse		Legal (Label)	Abrica	
Pestioide(s) Carbofuran	Carbofuran	Carbofuran	Carbofuran	Carbofuran	Carbofuran	Carbofuran	Carbofuran	Carbofuran	Carbofuran	Carbofuran	Carbofuran	Carbofuran	Carbofuran	Carboturan	Carbofuran	Carbofiran	Carbofuran	Carbofuran	Carbofuran	and the Co	Carbofuran	Carboturan		Carbofuran	Carboturan		Carbofuran	Carbofuran	Carbofuran	Carbofuran	Carbofuran	800	Carbofuran	Carbofuran				Carboruran		Carbofuran	Carbofuran	Carbofuran		Carbofuran	Carbofican	
State Source	CEETV: 60582	NYDEC: 97-52-11 CADFG: LAB # P.	1192 NYDEC: 97-56-20	NYDEC: 97-56-24	ASPCA: 97-60-18 CFFTV: 40811	NYDEC: 97-53-33	NYDEC: 97-56-18	NYDEC: 97-58-17	NYDEC: 97-56-27	NYDEC: 97-60-19	NYDEC: 97-60-22	NYDEC: 97-62-21	NYDEC: 97-62-22	NYDEC: 7-57-02	DA. 00 1 0HD		MN 521059	NYDEC: 98-32-25	NYDEC: 98-32-26	NYDEC: 98-37-26A.	NVDEC: DO 30 30	NYDEC: 98-36-29	NYDEC: 98-37-	25ABC	OC 04 00 00	NYDEC: 98-40-30		NYDEC: 98-40-24			CA: L-116-99	00/00% GT 1 - 13		GA: LTR 3/20/00	IL: LTR 3/20/00						TN: 14-00	WAHL: 789469	WIDNK: 2000-99 DE: LTR 03/21/00		NMDA: 00-9	MS: LTR 03/21/00	
Federal Source	EIIS: 1006670-001	EIIS: (005568-001	EIIS: 1008654-001	EIIS: 1006676-001	EIIS: 1006797-001	EllS: 1006651-001	EIIS: 1006697-001	EIIS: 1006706-001	EIIS: 1006667-001	EIIS: 1006888-001	EIIS: 1006696-001	EIIS: 1006689-001	EIIS: 1008689-001	EIIS: 1008647-001	EIIS: 1007372-005	FIIS: 1009141-001	EIIS: 1007545-034	EIIS: 1007820-001	EIIS: 1008136-001	EIIS: 1007801-002	FIIS- IOO7824-OOR	EIIS: 1007821-006	EIIS: 1007801-003		EIIS: 1006144-002	EIIS: IUO/801-001		EIIS: 1008144-001	EIIS: 1008144-002	EIIS: 1011320-001	EIIS: 1010884-001	FILS: 1009Z17-001		EIIS: 1009970-002				ZU,UUU Dougsode EliC: 101089E.001	FII.3. 10 10083-001			EIIS: 1010387-002	EIIS: 1009971-002		EIIS: 1010162-001	800 hundreds EllS: 1009971-004	
**	1	88	-	-	-	9	-	9	11	œ	-	က	en I	٠,	, ,	• 5	28 5	\$	-	œ			4	,	- •		hundreds	-	-	ഹ :	ę,		-	-	Unknown	Unknown	Unknown	ZU,UUU	hundreds	hundreds	4	-	-	40	. m &	ous undreds	46
Species	Red-tailed Hawk	Duck	Rock Pigeon	Rock Pigeon	Rock Pigeon	Rock Pigeon	Rock Pigeon	Rock Pigeon	Rock Pigeon	Rock Pigeon	Rock Pigeon	Rock Pigeon	Rock Pigeon	Rock Pigeon	Geracke	Grackle	Goose	Sparrow	Rock Pigeon	Rock Pigeon	Rock Dioson	Rock Pigeon	Rock Pigeon		Deserting Feloco	Red-tailed Hawk		Rock Pigeon	House Sparrow	Common Raven	American Wigeon	Sold Facia	Hawk		Brown-headed Cowbird Furonean Starting			Reckhind	aded Cowbird	Grackle Horned Lark	_	Red-tailed Hawk	Baid Eagle	Hawk Unknown Bird	Duck		Red-tailed Hawk Wild Turkey
State	ž	ð	ž	È	ž	ž	ž	ž	¥	¥	ž	ż	ž	<u>></u> [9 6	. ₹	Z	ž	ž	ž	Š	ż	ķ	2	2 2	Ž		ķ	ž			۲ تر	1	ő	4			=	ī		¥	₹	ם		Σ	SM	
County	New York	Colusa	New York	New York	New York	New York	New York	New York	New York	New York	New York	New York	New York	New YOR	Northermoton	Northamoton	Unknown	New York	Mans Varia	New York	200		New York	New York	Gallatin	San Bernardin	Unknown		Unknown	St Clair			St Clair	5		Масоп	Columbia	Unknown		Chaves	Lawrence						
End Date		11/14/1997		10/24/1997	9661/61/7	10/26/1997				11/3/1997			11/23/1997			5/18/1998		7/15/1998																								2/28/2000					
Start Date	10/14/1997	10/24/1997	10/24/1997	10/24/1997	1024/1897	10/25/1997	10/31/1997	10/31/1997	11/1/1997	11/3/1997	11/6/1997	11/20/1997	7861/27/11	3/28/1008	5/15/1998	5/15/1998	6/3/1998	7/14/1998	7/14/1998	8/1/1998	8/1/1998	8/2/1998	8/3/1998	8/18/1008	8/16/1998			8/16/1998	8/16/1998	12/30/1998	5/ 14/ 1998 0/1/1000	9/2/1999		9/21/1899	REST/17/01			10/21/1999			1/15/2000	2/1/2000	3/9/2000		3/12/2000	3/13/2000	
Event	1120	1123	1124	1125	971	7	1130	1131	1132	1133	2	1135	1136	157	1469	172	1177	1193	1184	1208	1207	1209	1210	1212	1214	:	:	1215	1216	1257	1324	1325		1326	555			1334	į		1351	1357	1371		1372	1373	

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Ir or Notes				Landfill	Landfill		
Granular or	Flowable						
Site/Land Use	Unknown	Unknown	Poulty Farm Unknown	Non-Agricultural	Non-Agricultural	Unknown Unknown Esopous	Unknown Unknown
Mis/Ab/Use	Unknown	Abuse	Abuse Unknown	Abuse	Abuse	Abuse Abuse Abuse	Unknown Unknown
Pesticide(s	Brodifacou m Carbofuran	Carboluran	Carbofuran Carbofuran Diazinon	Carboturan	Carbofuran	Carboluran Carboluran Carboluran	Carbofuran Carbofuran
State Source	ILDADL: 2000/1282 2000/1282 2000/1283 ILDADL: 2000/1283 ILDADL: 2000/1286 ILDADL: 2000/1286 ILDADL: 2000/1286 ILDADL: 2000/1286 ILDADL: 2000/1286	LIDADL: 2000012739 ILDADL: 2000012730 ILDADL: 2000012731 LIDADL: 2000012732 NYDEC: 00-22-26	ILDADL: 2001000720 ILDADL: 2001007405 NYDEC: COLO00088	LDADI: 2001002881 LDADI: 2001002882 LDADI: 2001002885 LDADI: 2001002886 LDADI: 2001002886 LDADI: 2001002887	NYDEC: 00-43-14 LDADL: 2001007406 LDADL: 2001007407 NYDEC: CODOMAGE:	LDADL: 2002003810 LDADL: 2002003811 RDADL: 2002003812 RDADL: RDAD	VA: CC132-02
Federal Source	Ells: 1010327-001	EIIS: 1010141-001	EIIS: 1010439-002 EIIS: 1011519-001	E!IS: 1011010-001	EIIS: 1011 565- 001	EIIS: 1012549-005 EIIS: 1011865-001 EIIS: 1012437-001 CEETV: 81058	EIIS: 1013244-001 EIIS: 1013498-011
*	mpaded 2	N		8	-	νν ο	
Species	Roctailed Hawk	European Starking	Vulture American Grow	Ring-billed Guil	Ring-billed Gutt	Grackle Hawk American Grow	Wild Turkey Eagle
State	ž	ž	M ×	È	ż	4 5 5	¥ Q
County	New York	Queens	Hancock Columbia	Cortiand	Cortland	Bergen Washington Ulster	Powhatan Talbot
End Date	3/22/2000	4/6/2000	7/6/2000		9/1/2000	8/18/2001	
Start Date	37272000	4/8/2000	7/6/2000	8442000	9/1/2000	3/19/2001 8/17/2001 8/17/2001	6/14/2002 9/16/2002
Event	1379	1384	1407	1437	1449	1512 1536 1582	1650 1656

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		not mentioned Pestiticide applied to field and specifically gesse were seen feeding in the area w/n 24 hrs of anolicisticn.	In an agricultural incident carbotran was suspected factor in an undescribed bird kill. No conclusions about pesticide involvement were drawn from the investigation. One owl was suspected of containing residures; is about	Pac	Geese were found to be feeding in the same affaits field within 24 hours of application. Two dead birds were retained for analysis of a chemical company, results were not reported.						
Flowable		not mentior specifically		not mention specifically							
Site/Land Use	Ranch	Crop - Alfaifa		Pine Seedlings	Crop - Affalfa	Stream/River Unknown Crop - Rice Crop - Marjuena Vineyard	Unknown Ranch Unknown Crop - Rapeseed	Crop - Rice	Unknown Agricultural Area	Crop - Corn	Crop - Alfalfa
MIS/AD/Use						Unknown Unknown Legal (Label) Abuse Misuse	Unknown Unknown Unknown Unknown	Abuse	Unknown Legal (Label)	Misuse	Legal (Label)
	carbofuran	Carbofuran	Carbofuran	Carbofuran	Carbofuran	carbofuran Carbofuran Carbofuran Carbofuran Carbofuran	Carbofuran Carbofuran Carbofuran	Carbofuran	Carbofuran	Carbofuran	Carbofuran
201000 21210							CA: P-949 CA: P-950 NA: LTR 01/18/89	V 00:1:0	NA: D-6661	NC: 30000/47A	CA: 1734
rederal Source	EIIS: 1014119	EPA FOIA request	EPA FOIA request	EPA FOIA request	EPA FOIA request	CWS: CWS93-11 EIIS: 1003605-001 EIIS: 1004031-001 EIIS: 1005205-001 EIIS: 1005416-007	EIIS: 1005421-002 EIIS: 1005421-003 EIIS: 1005506-002 EIIS: 1005507-002	EliS: 1005524-001	EIIS: 1005559-002 FIIS: 1005573-001	EIIS: 1005631-001	EIIS: 1005754-001
* unauf		19 afftected; 15 dead	-		18-19 Affected; 12-15 Dead	888	· - 8 & - ;	mundieds 67	• •	· v-	5
Species	brewer's blackbird brown-headed cowbird european starling house sparrow red-tailed hawk red-tailed hawk	9809	Bird Kill	Birds	95999 9	Baid Eagle Canada Goose Canada Goose Waterfowl Red-tailed Hewk American Robin European Staffing	Malard Malard Waterrowl Egret Goose	Ned-talled nawk	Red-tailed Hawk Severnah Sparrow	Red-tailed Hawk	1698 Canada Goose
State	5	5	₹	ž	5	ል ዩየየ ን ጵያ	5 5655	\$ 5	ž	S	გ.
county	utah					Unknown Unknown Imperial Colusa Unknown Unknown	Colusa Unknown Unknown	Unknown	Rensselaer	Gladen	Lassen
						6/19/1997			4/14/1984		
Start Date	5/21/2003	0/00/1972	00/00/71	00/00/75	77/00/00						
EVBUI	2464					2417 1676 1677 1681 1683	1685 1686 1689 1690	1692	185	1694	1696

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ABC DEATH INFORMATION

Notes	Lake	Commercial		
Granular or Flowable		C		
Site/Land Use	Agricultural Area Crop - Com Crop - Com Crop - Com Non-Agricultural Non-Agricultural	Non-Agricultural Non-Agricultural Non-Agricultural Non-Agricultural Non-Agricultural	Non-Agricultural National Park Lake Forest Poultry Farm Crop - Wheat	Unknown Grazing Land Grop - Affalfa Crop - Corn
Mis/Ab/Use	Unknown Legal Legal Unknown Abuse Unknown	Abuse Unknown Abuse Abuse Abuse	Abuse Abuse Unknown Abuse Abuse Abuse	Abuse Legal (Legal Abuse
Pesticide(s)	Carbofuran Carbofuran Carbofuran Carbofuran Carbofuran	Carbofuran Carbofuran Carbofuran Carbofuran Carbofuran	Carboturan Carboturan Carboturan Carboturan Carboturan Carboturan	Carbofuran Carbofuran Carbofuran Carbofuran
State Source	PA: 98-7-STD-I MN: 521059 NYDEC: 98-32-25 NYDEC: 98-32-26	NYDEC: 98-37-26A- H NYDEC: 98-36-28 NYDEC: 98-37- 25ABC NYDEC: 98-40-30	CA: L-116-99 FE: LTR 3/20/00 GA: LTR 3/20/00 IL: LTR 3/20/00	TN: 17800 WAHL: 769469 WIDNR: 2000-99 DE: LTR 03/21/00 NMDA: 00-9 MS: LTR 03/21/00
Federal Source	EIIS: 1007372- EIIS: 1007963- EIIS: 1009141- EIIS: 1007545- EIIS: 1007830- EIIS: 1007830-	EIIS: 1007801- 002 EIIS: 1007821- EIIS: 1007801- 003 EIIS: 1007801- EIIS: 1007801-	EIIS: 1008144- EIIS: 1008144- EIIS: 1010884- 001 EIIS: 1009970- 003 EIIS: 1009970- 001 EIIS: 1010885- 001	EIIS: (009840. EIIS: (010387- 002 EIIS: (1008971- 002 EIIS: (010162- 001 EIIS: (009971-
# Impacte	- 48 8 2 2 3 8 1	8 7 7 7 7 1 8 1 1 1 1 1 1 1 1 1 1 1 1 1	5 5 40 Unknow n Unknow thousand s s hundred s hundred	4 t t 4 8 8 8 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9
Species	Grackle Grackle Grackle Goose Sparrow Rock Pineon	Rock Pigeon Rock Pigeon Rock Pigeon Rock Pigeon House Sparrow Peregine Falcon Red-lailed Hawk	Rock Yigeon House Sparrow Common Raven American Wigeon Quail Baid Eagle Hawk Hawk Hown-headed Cowbird European Starling Grackle Homed Lark Rectwinged Blackbird Blackbird Brown-headed Cowbird Grackle Grackle Horned Lark	Black Vulture Red-tailed Hawk Red-tailed Hawk Hawk Unknown Bird Duck Snow Goose Mourning Dove Red-tailed Hawk Wild Turkey
Sta te	# 4 4 Z × 5	Ž ŽŽŽ ŽŽ	R C P F C CA T Y Y	MS M W
County	Kent Northampton Northampton Unknown New York	New York New York New York New York New York	New York New York Gailatin San Bernardino Unkrown Unkrown St Ciair St Ciair	Macon Columbia Unknown Chaves Lawrence
End Date	5/18/1998 7/15/1998			2/28/2000
Start Date End Date	3/26/1998 5/15/1998 5/15/1998 6/3/1998 7/14/1998	8/1/1998 8/1/1998 8/2/1998 8/3/1998 8/16/1998	8/16/1988 8/16/1988 3/14/1989 8/1/1999 9/2/1999 10/2/1/1999	1/15/2000 2/1/2000 3/9/2000 3/12/2000 3/13/2000
Event ID	1157 1168 1170 1177 1183	1194 1206 1209 1210 1213 1214	1216 1216 1251 1289 1324 1325 1338 1333	1351 1357 1371 1372

Page 2 of 3

r Notes						
Granular or Flowable						
Site/Land Use	Unknown	Unknown	Poulty Farm Unknown	Landfill	Landfill	Uriknown Unknown Esopous
Mis/Ab/Use	Unknown	Abuse	Abuse Unknown	Abuse	Abuse	Abuse Abuse Abuse
Pesticide(s)	Brodifacou m Carbofuran	Carbofuran	Carbofuran Carbofuran Diazinon	Carbofuran	Carbofuran	Carbofuran Carbofuran Carbofuran
State Source	ILDADL: 2000012282 ILDADL: 1LDADL: 2000012283 ILDADL: 2000012284 ILDADL: 2000012286 ILDADL: 2000012286 2000012286	NVICE: 04-20-11 LLDADI: 2000012730 ILDADI: 2000012730 ILDADI: 2000012731 2000012731	NTDEC: 00-26-60 ILDADL: 2001000720 ILDADL: 2001007405 O'NYDEC:	COCCOMMENT OF THE PARTY OF THE	NYDEC: 00-43-14 LDADL: 2001007406 LDADL:	2002003910 LDADL: 2002003910 LDADL: 2002003911 ILDADL: 100303912 NYDEC: ULS010031
Federal Source	EilS: 1010327- 001	EIIS: 1010141- 001	EIIS: 1010439- EIIS: 1011519- 001	EIIS: 1011010-	EIIS: 1011565- 001	EIIS: 1012549- EIIS: 1011865- EIIS: 1012437- 001 CEETV: 61058
# Impacte	5 0	N		90	-	ωων
Species	Red-tailed Hawk	European Starling	Vulkure American Crow	Ring-billed Gull	Ring-billed Guil	Grackle Hawk American Crow
Sta	Z	È	ΣΣ	ž	ž	z 4 z
County	New ≺ork	Queens	Hancock Columbia	Contland	Cortland	Bergen Washington Uister
End Date	3/22/2000	4/6/2000	7/6/2000		9/1/2000	8/18/2001
Start Date End Date	3/22/2000	4/6/2000	7/1/2000 7/6/2000	8/4/2000	9/1/2000	3/19/2001 6/7/2001 8/17/2001
Event ID	1379	1384	1407 1413	1437	1449	1512 1536 1582

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r Notes								
Granular or Flowable								
Site/Land Use	Unknown	Unknown	Livestock					
Mis/Ab/Use	Unknown	Unknown						
Pesticide(s	Carbofuran	Carbofuran	carbofuran					
State Source	VA: CC132-02							
Federal Source	EIIS: 1013244-	EIIS: 1013498-	EIIS: 1014119					
# Impacte d	-	-	238	\$	81	12	2	580
Species	Wild Turkey	Eagle	brewer's blackbird	brown-headed cowbird	european starling	house sparrow	red-tailed hawk	red-winged blackbird
Sta te	\$	æ	5					
County	Powhatan	Talbot	utah					
Start Date End Date	6/14/2002	9/16/2002	5/21/2003					
Event ID	1650	1656	2464					

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FOIA RESPONSE

Formula Notes	Application in field within one mile of pond resulted in geese kills within 24 hours; probably lilegal in later years	bbe 4F applied in vicinity of nesting sites, ducks killed day after application; led to CADFS screening future use of Furadan		Waterfowl loss in San Jacinto Resevoir area, birds consumed treated atfalfa (not sure of label terms at this time)	able 4F sprayed adjacent to lake where ducks would feed, farmer spoke with officials before application and thought ducks had feft. 78 cools kiled in similar circumstances previous year	3/21/89 GA-DNR letter in support of canceling CF registration mentions that incident took place some time in 1977	able Birds dying within one hour of application, must be misuse if that many birds were around	22/189 GA-DNR letter in support of canceling CF registration mentions that incident took place some time in 1980	able Intentional poisoning; farmer was unable to remove ducks from rice field using normals means, resorted to		Scientific analysis, eagle had eaten closen possible secondary polsoning	Birds found at Knowles Ranch with CF intoxication, no further detail	Birds found at Cota Ranch with CF intoxication, no further detail	Birds found at Southam Ranch with CF intoxication, no further detail	"illegal use suspected"; appears to be same location as 1005421-001	Granular Chart for 1986, details not provided;	Birds found along treeline separating harvested com fields from a nursery.	had likely ingested poisoned birds
Form		Flowable	Flowable		Flowable		Fiowable	_	Flowable	Flowable						Gran		
Site/Land Use	Crop - Alfalfa	Crop - Alfalfa	Crop - Alfalfa	Crop - Alfalfa	Crop - Alfalfa	Agricultural Area	Crop - Alfalfa	Agricultural Area	Crop - Rice	Crop - Affalfa	Non-Agricultura	Ranch	Ranch	Ranch	Crop - Rice		Crop - Com	
Mis/Ab/Use	Use	Use	Use	O Se	Misuse	Use	Misuse	Use	Abuse	Misuse	Abuse		٠		Abuse			
Pesticide(s)	Carbofuran	Carbofuran	Carbofuran	Carbofuran	Carbofuran	Carbofuran	Carbofuran	Carbofuran	Carbofuran	Carbofuran	Carbofuran	Carbofuran	Carbofuran	Carbofuran	Carbofuran	Carbofuran	Carbofuran	
State Source	CADFG: 1734	CADFA: D-10911, D-10912	OK: D-10073	CADFG1: P-74	D-12452	GDNR: D-10601	CADFG: P-157	GDNR: D-10601	FWSLE?: MEMO/D-10933	OKDA: D-10925, D. 10926, D-10927, D-10928, D-10929	VA: 5592-001	CADFA: D-9673	CADFA: D-9673	CADFA: D-9673			NYDEC: 86-72-23	NYDEC: 86-72-24
# Impacted Federal Source	EIIS: 1005754-001		EIIS: 1005570-001	EIIS: 1005569-001		EIIS: 1005506-001	EIIS: 1004665-001	EIIS: 1005506-002	EIIS: 1005703-001		EIIS: 1005650-001	EIIS: 1005421-001	EIIS: 1005421-002	EIIS: 1005421-003	EllS: 1005524-001	EIIS: 1004631-001	EIIS: 1005671-001	
mpacted	ಕ	2500	500	ιο	750		1000+	0	200+	154-159	5 -	67	35-50	40-50	1 67	38	-	7
Species #1	Canada Goose	Widgeon ducks	Canada Goose	American Wigeon	Baliplate ducks	Widgeon ducks Chipping Sparrow	American Wigeon	Egret	Black-bellied Whistling- duck	Widgeon ducks	Geese Bald Eagle	Waterfowl	Vaterfowl: Varietican widgeon duck Mallard duck	Green-winged teal Waterfowl: Shoveler duck Mallard duck Pintail duck	Snow goose Duck	Canada Goose	Crow	European Starling
State	క	రే	ĕ	ర్	δ	8	8	Q	¥	ğ	*	8	S	5	ð	8	Ą	
Start Date End Date County	Lassen	Modoc, Lassen		Riverside	4/11/1976 Harvey	171,11977 12,131,11977	3/29/1977 Glenn	12/31/1980	Austin	5/17/1985 Stevens	Richmond City	9/23/1985 12/21/1985 Colusa	9/23/1985 12/21/1985 Colusa	9/23/1985 12/21/1985 Colusa	10/1/1985 11/30/1995 Colusa	1/5/1987 Imperial	Lancaster	
Start Date	5/15/1972	3/14/1974	2/27/1976	3/11/1976	4/5/1976	11/1977	3/29/1977	1/1/1980	6/30/1983	4/2/1985	5/15/1985	9/23/1985	9/23/1985	9/23/1985		1/1/1986	2/9/1986	
Event ID		FOIA-0002	FOIA-0003	FOIA-0004 3/11/1976	FOIA-0005	FOIA-0006	FOIA-0007	FOIA-0008	FOIA-0009	FOIA-0010	FOIA-0011	FOIA-0012	FOIA-0013	FOIA-0014	FOIA-0015	FOIA-0016	FOIA-0017	
		FUA01	FUA02		FMA01		FMA02		FMR01	FMA03								

									:				Attorney Work
	Event ID	Start Date	Start Date End Date County	State	Species	# Impacted	#Impacted Federal Source	State Source	Pesticide(s)	Mis/Ab/Use	Site/Land Use	Formula Notes	Notes
	FOIA-0018	2/10/1986	Imperial	క	Red-tailed Hawk Geese	- 75	EIIS: 1004665-002	CADFG	Carbofuran	Use	Crop - Alfalfa	Flowable	Birds found foaming and dying in field
FUA03					Calladian rookers	Ş			Dimethoate			-	one day arter treatment
FUA04	FOIA-0019	2/10/1986	Imperial	5	Canada Goose	52	EIIS: 1005524-004		Carbofuran	Use	Crop - Alfalfa	Flowable	Label violation - PCA allegedly didn't scout the field property and the pilot allegedly applied the mix even after he
	FOIA-0020	FOIA-0020 7 2/16/1986	Lancaster	₫	Red-tailed Hawk	-	EIIS: 1005671-002	PA: LETR10/20/86	Dimethoate Carbofuran		Crop - Com		saw geese on the field Similar to -001, bird found with fluid in mouth; both rehabilitated, falconer says it was the first winter he'd witnessed anoarent obisconings
	FOIA-0021	2/23/1986	Colusa	క	Duck	35	EIIS: 1005524-002		Carbofuran		Ranch		apparent percentings "illegal use suspected", appears to be same location as 1005421-002
	FOIA-0022	2/23/1986	Colusa	ర	Duck	4	EIIS: 1005524-003		Carbofuran		Ranch		"illegal use suspected"; appears to be same location as 1005421-003
	FOIA-0023		6/1/1986 Glenn 6/1/1986 Glenn	გ გ	D C		EIIS: 1004631-002	CADFG: P-975	Carbofuran			Granutar	Chart, details not provided
	FOIA-0025	3/1/1986	6/1/1986 Glann	క	Cinnamon Teal Mallard		EIIS: 1004631-004	CADFG: P-1025	Carbofuran				Chart, details not provided
	FOIA-0026		6/1/1986 Sutter	ð	Waterfowl Duck	8 4	EIIS: 1004631-005	CADFG: P-977	Carbofuran			Granular	Chart defails not provided
	FOIA-0027	3/1/1986		ే రే రే	Mallard	· {	EIIS: 1004631-006	CADFG: P-1031	Carbofuran				Chart, details not provided
	FUIA-0028		04/1980 Colusa	5	Duck Mallard Shorebird Teal	80	EIIS: 1004631-007	CADFG: P-985	Carboturan			Granular	Jhart, details not provided
	FOIA-0029	4/23/1986	4/23/1986 4/23/1986 Hanover	\$	American Goldfinch	- &	EIIS: 1004169-011	VDGIF: 2-86	Carbofuran		Crop - Corn		Com and tomatoes grown; 50-100 birds killed, undocumented source says 80; further details not provided
	FOIA-0030	4/23/1986	4/23/1986 Essex	\$	Bald Eagle	-	EIIS: 1005653-001	VA: PR-3292	Carbofuran		Crop - Corn		Bird found dead near raccoon carcass in recently treated corn field
	FOIA-0031	5/26/1988	City of Richmond	*	Red-tailed Hawk	-	EliS; 1005659-001	VA: D-11958	Carbofuran		Non-Agricultural		Poisoned bird found dying in tree area, had been roosting on ground for several days.
	FOIA-0032	6/2/1986	Ene	ž	Passerine	23	EIIS: 1005524-005		Carbofuran		Crop - Potato	Granular	Birds found after planting potato field- endrows and using 15G
FU?01	FOIA-0033	-		SASK	California gulls	9	EIIS; 1005303-001	Univ. of Saskatoon, D- 1619A	Carbofuran	Use	Field	Flowable	Birds found with grasshoppers in mouths
	FOIA-0034 FOIA-0035	7/29/1986 8/5/1986	Glenn Colusa Sutter	SASK	Herring Gull Ducks (a) Ducks (b) Ducks (c)	5 v 8 v	EIIS: 1005524-007	CWS: D-6599A	Carbofuran Carbofuran	Use	Agricultural Area Crop - Rice	Granular B	Sudden death of gulls, all had ingested Birds found following application of 5G during spring of 1986
	FOIA-0036	9/1/1986	Glenn	క	American Wigeon Mallard Red-tailed Hawk	ε ξ 2	EIIS: 1004631-009		Carbofuran			Granular (Chart, details not provided
	FOIA-0037	9/1/1986	12/1/1986 Colusa	క	Mallard Northem Pintail	S &	EIIS: 1004631-010		Carbofuran			Granular (Chart, details not provided
	FOIA-0038	10/23/1986	10/23/1986 11/29/1986 Glenn	క	Duck Red-tailed Hawk	2	EIIS: 1005531-001	CADFG: D-9676	Carbofuran	Abuse	Ranch		Reported by duck club members on randh; "probable recent, non-registered use".
	FOIA-0039	FOIA-0039 12/18/1986	Lake	ర	American Robin	ю	EIIS: 1005526-001	CADFG: D-9925	Carbofuran	Use	Vineyard	W _ 0, C	Furadan tiled in and firigated at Sutter Home vineyards to control fungus in soll; several birds, two hawks and raccoon found in fields, inon-dataled
					Cooper's Hawk European Starling	0.69							incident in prior year attributed to Furadan

Notes	First year of 10G since withdrawal 1976; granules found in soll - "Savannah Sparrow" kiil	*OP* allegedly involved but birds still killed		Bird found dead under nest, scientific analysis shows CF; no further details	Birds found in rice field after application	CF-Intoxicated birds found in rice field, details unknown		Suspected poisoning, no further info	Birds found convulsing in private field; small bag of wheat submitted by GANDR, smelled of chemical	Document surveys local history with regards to implementation of stewardship program; legal use secured	Chart, detail not provided	Eagle found floating in creak, List of incidents, no details	Bird hit by car on roadway, source unknown	Snake river region between ID and OR; criminal investigation for misuse on	island (in Idaho) for which geese frequent is defendent appealed and case was overturned; FWS appeals unsuccessful	Applied into seed trench as seed treatment, not licensed soil treatment	Eagle and raccoons found at farm, grenular CF found at end of some turnows; field planted with No Till corn; registered growers expressed sorrow		occs suggested 5 gesse, Dor Wo does contain FMC Call Center report of 150+ Chart, detail not provided	Duck hunting site, field used for rice Bait poisoning to kill wildlife eating grower's apples
Formula	Granular		Flowable		Flowable	Flowable	Flowable			Granular				Flowable		Flowable	Granular	Flowable		Flowable
Site/Land Use	Agricultural Area	Agricultural Area	Crop - Rice		Crop - Rice	Crop - Rice	Crop - Rice Non-Agricultural		Field	Crop - Rice	:	Non-Agricultural		Crop - Alfalfa		Сгор - Сот	Crop - Com	Crop - Alfalfa		Crop - Rice Apple Orchard
Mis/Ab/Use	Ose	Use						Abuse	Abuse	Use				Misuse		Misuse	Use	Misuse		Abuse
Pesticide(s)	Carbofuran	Carbofuran	Carbofuran	Carbofuran	Carbofuran	Carbofuran	Carbofuran Carbofuran	Carbofuran	Carbofuran	Carbofuran	Carbofuran	Carbofuran Carbofuran	Carbofuran DDT Diazinon	Carbofuran		Carbofuran	Carbofuran	Carbofuran	Disyston Cygon Carbofuran	Carbofuran
State Source	D-6861	D-6661	FMC: D-7745	MD: CN-5270	FMC: D-7745	CADFG: D-8013	FMC: D-7745 VA: 2-87	D-12460, D-12461, D-12462	GA: 189-87		CADFG: P-1105	DE: 6432 MONR	VDGIF: 2-88	letter		LADWF: D-9350, D-9948	MD: 30000/47A	FWC	CADFG; P-1192-	94 FMC: D-9976 FWS: 1310
# Impacted Federal Source	EIIS: 1005573-001	EIIS: 1005573-002	EIIS: 1005524-010	EIIS: 1005660-001	EIIS: 1005524-008	EIIS: 1005298-001	EIIS: 1005524-009 EIIS: 1004169-015		EIIS: 1005561-001	EIS: 1003930-001	EIIS: 1003948-001	EIIS: 1005662-001 EIIS: 1000916-001	EIIS: 1003177-001	EIIS: 1005751-001			EIIS: 1005663-001	EIIS: 1005572-003	EIIS; 1003948-009	EIIS: 1005558-001
f Impacted	-	-	5	-	-	4	7 - 5	2	- 0 -		20	- 0 4	· 	200+		200	ω	150	8	2 7 7 7 7 8
Species	Irrow	Bull	Owls	Bald Eagle	bird	Mallard duck	Ducks Great Horned Owl	Canadian Geese	Northern Cardinal Song Sparrow White-throated Sparrow	Waterfow	Raptors Duck	Baid Eagle Baid Eagle Golden Facia	Shrike	Canada Goose		Cattle egrets	Bald Eagle	Canada Goose	Duck	Duck Darkeyed Junco European Starling Hawk Red-talled Hawk
State	CAN	OAN	ర	M	ర	5	క క	g	8	క	ర	₩ ₩	\$	₽		5	∑	ID/OI	ర	\$ ₹
Start Date End Date County	British Columbia	British Columbia	2/28/1987 Glenn		Glenn	Glenn	Glenn 10/12/1987	Malheur	Newton		1/7/1988 Colusa	2/28/1988 Kent 5/17/1992 Dorchaster	Montgomery			Avoyelle Parish	Worcester	Westake Island	Colusa	Colusa Marquette
Start Date	12/23/1986	12/23/1986	2/1/1987	3/1/1987	4/20/1987	4/23/1987	4/27/1987 9/29/1987	11/10/1987	12/1/1987	1/1/1988	177/1988	2/28/1988 3/8/1988	3/16/1988	5/1/1988		5/17/1988	5/17/1988	5/22/1988	10/25/1988	10/30/1988 11/16/1988
Event ID	0	FOIA-0041 1	FOIA-0042	FOIA-0043	FOIA-0044	FOIA-0045	FOIA-0046 FOIA-0047	FOIA-0048 1	FOIA-0049	FOIA-0050		FOIA-0052 FOIA-0053	FOIA-0054	FOIA-0055		FOIA-0056	FOIA-0057	FOIA-0058	FOIA-0059	FOIA-0060 FOIA-0061
			F7R01		F?R02	F2R03	F?R04								FMA04	FMC01		FMA05		FM701

								Seemed by 1 On S	reanha				Attorney Work
	Event ID	Start Date	Start Date End Date County	State	Species #	Impacted	# Impacted Federal Source	State Source	Pesticide(s)	Mis/Ab/Use	Site/Land Use	Formula Notes	
FM702	FOIA-0062	1/20/1989	3/15/1990 New Castle	범	Red-tailed Hawk Rock Pigeon	€	EIIS: 1005749-001	DEDFG: INV 9184AI	Carbofuran	Abuse	Ranch	Flowable Intentional poisonings; full criminal investination defendants consisted	criminal
	FO!A-0063	1/27/1989	New Castle	빰	Crow		EIIS: 1000116-008	Š	Carbofuran	Abuse	Agricultural Area	Flowable Illegal baiting	O Miciel
FM703					Red-tailed Hawk								
	FO!A-0064	3/1/1989	4/5/1990 Pennington	SD.	Femuginous Hawk Golden Eagle	0	EIIS: 1000923-001	SD: CR90-50053-0	Carbofuran	Abuse	Ranch	Formal Investigation, balt poisoning	oisoning
FM?04 FM?05	FOIA-0065 FOIA-0066	4/11/1989 4/20/1989	4/20/1989 Meade	S S	Bald Eagle Bald Eagle	100	EIIS: 1005503-001 EIIS: 1000805-001		Carbofuran Carbofuran	Abuse Abuse	Ranch Ranch	Flowable Bait poisoning of calf and sheep Flowable Bait poisoning	sheep
	FOIA-0067	5/7/1989	5/18/1989 New Castle	품	Common Grackle	- m +	EiiS: 1001599-001		Carbofuran	Legal (Labet)	Crop - Com	Scientific analysis, details unknown	unknown
	FOIA-0068	5/26/1989	Sutter	ð	American goldfinches	- 8	EIIS: 1005417-002	CADFG: D12448	Carbofuran		Non-Agricultural	Birds reported dead and dying by fisherman near pumping plant	ying by
FU?02	FOIA-0069 FOIA-0070	6/19/1989 8/26/1989	6/19/1989 Dorchester Deuel	SOS	Bald Eagle Canada Goose Gull	- 6 -	EIIS; 1005664-001 EIIS; 1000805-008	USFWS: D-11983 SD: 89P18	Carbofuran Carbofuran Parathion	Use	Swamp Non-Agricultural	Bird (which lived) found in area where Flowable Birds found at airport, cause unknown	area where se unknown
FM?06	FOIA-0071		10/1/1989 3/24/1993 Garfield	Σ	Black-billed Magpie Golden Eagle Raptor	2	EIIS: 1001606-007	USFWSLE6: 4506AO	Carbofuran	Abuse	Ranch	Flowable Bait poisoning	
	FOIA-0072	10/11/1989 10/22/1989	10/22/1989	ర	Ducks	1700	EIIS: 1005417-007	CADFG	Carbofuran		Duck club	Three duck dubs flooded for hunting, sample analysis shows CF poisoning	or hunting, poisoning
	FOIA-0073	11/9/1989		ర	Ducks	11	EIIS: 1005417-006	CADFG	Carbofuran	Use	Crop - Rice	Field was harvested and then flooded for hunting	nen flooded
	FOIA-0074	11/15/1989	San Bernadino	5	Ducks	5	EIIS: 1005417-008	CADFG	Carbofuran	Abuse	Golf course	Large amount of bread found near ducks at country club, possible infertional poisoning, relates to 1006419 004	ind near slble es to 1005419
	FOIA-0075		San Bernadino	ర	Pintall ducks	ဖ	EIIS; 1005417-009	CADFG	Carbofuran Chlorpyrifos		Duck club	Duck club near marsh flooded, recently treated with chlorpyrifos but birds also contained CF	ded, recently it birds also
	FOIA-0076	11/15/1989	San Bernadino	ర్	Ducks	72	EIIS: 1005419-004	FMC: D-11655	Carbofuran	Misuse	Golf course	Apparent Intentional poisoning, relates to 1005417-008 (p-1070)	ning, relates
	FOIA-0077		Charles Mix	S	Bald Eagle	-	EIIS: 1005504-001	SD: D11853	Carbofuran	Abuse		Possible balt poisoning, coyote also found poisoned; adjacent landowners deny use of CF	yote also andowners
FM207	FOIA-0078 FOIA-0079	1/19/1990 1/25/1990	Sacramento Haakon	\$ B	Waterfowl Eagle Howk	150-158 2 2	EIIS: 1005419-001 EIIS: 1005505-001	FMC: D-11655	Carbofuran Carbofuran	Misuse Abuse	Ranch Non-Agricultural	Granular Flooded for duck hunting, 10G was Flowable Balt poisoning with deer meat	10G was eat
FM708	FOIA-0080	1/30/1990	Union	X Z	Bald Eagle Black-billed Magpie	ı ← m (EIIS: 1001606-006	FWS: 5543AK	Carbofuran	Abuse	ğ	Flowable Bait polsoning	
FM?09	FOIA-0081	1/30/1990	Albuquerque	¥	Golden eagle	ο φ -	EIIS: 1005419-002	FMC: D-11655	Carbofuran	Abuse	Field	Flowable Bait poisoning, repackaged 4F injected	14F injected
	FOIA-0082	3/15/1990	4/1/1991 Kent	핌	Gull Gull Mallard	2 4	EIIS; 1005752-001	lab	Carbofuran	Use	Crop - Com	Scientific analysis, no details provided	ils provided
	FOIA-0083	3/30/1990	Wellstone	™	Golden eagle Bald eagle	2 04	EIIS: 1005419-003	FMC: D-11655	Carbofuran	Abuse	Field	CF used to bait and kill foxes	sə
	FOIA-0084	4/11/1990	Bernett	SO	Ferruginous Hawk Golden Eagle Hawk	0 0 -	EIIS: 1000923-002	SD: 90-051 M	Carbofuran	Abuse	Ranch	Formal investigation, balt poisoning	oisoning
FUV01	FOIA-0085	4/27/1990	San Joaquin	క	Finch	1000	EIIS: 1004665-004	CADFG: P-1288	Carbofuran Dimethoate	Use	Vineyard	Flowable Birds died in vineyard, 4F applied through drip irrigation system	applied
	FOIA-0086		Wythe	\$	Red-tailed Hawk	-	EIIS: 1005510-003	VDGIF: 4-90	Carbofuran		Agricultural Area	Dying bird found in hay field, adjacent to com field and dairy farm	d, adjacent
F7S01	FOIA-0087	7/21/1990	Fiscox	\$	Red-tailed Hawk	8	EIIS: 1005510-004	VDGIF: 5-90	Carbofuran		Crop - Soybeans	Flowable Dying bird spotted in landowner yard for a week "crying out"; landowner reported that a nearby solveen field had been account with a lieuth.	wner yard for vner reported I had been
												סוחאוו ש וחוש חשלה ולפ	

iula Notes	ular Richmond-Ladner area in kower mainland of BC has experienced kills from granular in the past, addic soil in area means granular has long half-life, pattern of bird loss	ular Flooded for hunting use 6 months after able. AF puddle observed with birds and squirrels around it	Flowable Legal application except one hose left uncapped birds found in this area	Scientific analysis, details not provided but noted that lead and CF detected	Granular 15G applied but not fully incorporated, left at the end of rows	Granular 15G applied property 5 days prior	Granular Narrative suggests spillage on roadways	Granular 5G applied in December for Spring rice crop; no mortalities at adjacent field that was also treated	Granular 15G applied 15 days prior, raptors Granular 15G applied in buried bags	Granular Birds found in vineyard, 15G applied Birds found in treated field		Scientific analysis, details unknown	Flowable Bait potsoning Birds found adjacent to treated corn	Found in corn field, details not provided	Birds found arranged in a triangle	Scientific analysis, details unknown Scientific analysis, details unknown	
Site/Land Use Formula	Crop - Turnips Granular	Grop - Rice Granular Vineyard Flowable	Vineyard Flow		Vineyard Gran	Vineyard Gran	Vineyard Gran	Crop - Rice Gran	Vineyard Grar Vineyard Grar	Vineyard Grar Crop - Com		Crap - Com	Flow Crop - Corn	Crop - Com	Crop - Corn	Crop - Com Agricultural Area	
Site/La	Crop	Crop	Vin		Vin	Ň	Š	Cro	è è	Crop		O G	Ş	Crop	Crop	Crop	
Mis/Ab/Use	Use	Misuse Misuse	Misuse		Misuse	Use	Misuse	Use	Use Misuse	nse			Abuse		Abuse		
Pesticide(s)	Carbofuran	Carbofuran	Carbofuran	Carbofuran	lead Čarbofuran	Carbofuran	Carbofuran	Carbofuran	Carbofuran Carbofuran	Carbofuran Carbofuran		Carbofuran DDT Dieldrin Phorate	Carbofuran	Carbofuran	Carbofuran	Carbofuran	
State Source	CWS: D-12162	FWC ON	FMC	VA: 8 - 90	FMC	FMC	FMC	FMC	FWC	CADFG: P-1347 SCWDS: 98-91		SCWDS: 69-91 SCWDS: 70-91 SCWDS: 71-91	USFWSLE6: NYDEC: 8-91	VDGIF: 7-91	ORDFWS	VA: 117-91	
# Impacted Federal Source	EJIS: 1005666-001	EIIS: 1005416-001	EIIS: 1005416-009	EIIS: 1004169-037	EIIS: 1005416-006	EIIS: 1005416-003	EIIS: 1005416-004	EIIS: 1005416-002	EIIS: 1005416-005 EIIS: 1005416-007	EIIS: 1004665-005 EIIS: 1000504-035		EIIS: 1000504-026 EIIS: 1000504-027 EIIS: 1000504-028	EIIS: 1001606-001 EIIS: 1000604-033	EIIS: 1004169-043	EIIS: 1001601-001	EIIS: 1000504-036 EIIS: 1000504-037	
mpacted	, ² -	24.00 L 00 K 00 4 00 L L L L L L L L L L L L L L L L	9	-	20-Oct	1 5	25	12	8 9	1 1	- 77 -	w 4-	φ	0 0	4	0 -	
Species #	Bald Eagle	Ducks Ducks Ducks Ducks House sparrows Lesser goldfinches Hernit finush House finches White-breasted Robin Acom woodpecker Western bluebird Cedar waxwing White-crowned sparrow Chipping sparrow Chipping sparrow	Lesser goldfish, flicker,	Bald Eagle	Robins, startings, finches, cedar waxwing.	Robins, startings,	Robins, starlings, finches	Ducks	Robins, starlings, Songbirds, starlings	European Starling American Kestrel	Cedar Waxwing Chipping Sparrow Swamp Sparrow	American Robin Eastern Bluebird	Golden Eagle Eastern Phoebe	Overbic Baid Eagle Red-talled Hawk	Baid Eagle Red-tailed Hawk	Eastern Bluebird American Crow American Kestrel American Robin Blue Grosbeak	Carolina Wren Chipping Sparrow European Starling
State	8	33	క	\$	ర	ď	క	ర	క క	క క		\$	M A	\$	\$	\$ \$	
Start Date End Date County		Colusa	Napa	Westmoreland	Napa	Napa	Napa	Colusa	Nара Nврв	Napa 5/1/1991 Caroline		4/6/1991 Isle of Wight	Sheridan 4/12/1991 King George	Madison	Madison	Amelia Amelia	
Start Date E	9/19/1990	10/26/1990 10/26/1990	11/2/1990	11/29/1990	11/30/1990	12/10/1990	12/10/1990	12/11/1990	12/20/1990 1/7/1991	1/9/1991		4/5/1991	4/8/1991	4/17/1991	4/18/1991	5/15/1991 5/15/1991	
Event 1D	_	FOIA-0080	FOIA-0091	FOIA-0092	FOIA-0093	FOIA-0094	FOIA-0095	FOIA-0096	FOIA-0097 FOIA-0098	FOIA-0099 FOIA-0100		FOIA-0101	FOIA-0102 FOIA-0103	FOIA-0104	FOIA-0105	FOIA-0106 FOIA-0107	
		FMV01	FMV02								F7C01	F7C02	FM710	F7C04	FMC02	F?C05	F7701

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Auomey Work	Formula Notes			Flowable Chart, no detail provided Flowable Birds deaths in creek are in addition to			Seasonally-treated field flooded for bunting	Flowable Chart, no detail provided				Flowable Chart, no detail provided					Secondary CF poisoning	Flowable (handwritten chart) "misuse"	Birds are poisoned rodent follows			odenific analysis, delatis Lriknown	Flowable Found in mud puddle in dirt road	adjačeni to anana nero	"Gorain" (harty cotticesty) sirings	DWADIE (HAINWINGH CHAIL) HISUSA	Bait poisoning	Flowable Bait poisoning to control pigeons at	airport Gounda Comel investigation bait existention						Found alive in vicinity of com pile, dead one hour later		Flowable FMC summary of results on application	Support in social in	Scientific analysis, details unknown Birds found pear nood proximate to	numerous com fields	Flowable Birds found in chemigated vineyard, no Flowable Birds found in chemigated vineyard, no		Flowable Birds found in chemigated vineyard, 20% survey taken, no slons of physical	trauma	Flowable Birds found in chemigated vineyard, no since of physical frames	מינים
	Site/Land Use Fo		_	Vineyard Flo			Crop - Rice					Vineyard Fig						_	Crop - Rice		1	T.	Agricultural Area Fic		Ď	Ĕ		Non-Agricultural Fic	מיט מיני						Agricultural Area	ם	Vineyard Flo		Non-Agricultural		Vineyard Fit		Vineyard Flv		Vineyard Fl	
	Mis/Ab/Use			Misuse			Ose									Use	Use	Misuse	8 5 5	980			Misuse		9	Misuse	Abuse	Abuse	Abrino	Sport							Ose				Use		Use		Use	
	Pesticide(s)		Carbofuran	Carboturan			Carbofuran	Carbofuran	Carbofuran	Carbofuran	Carbofuran	Carbofuran	Carbolulan	Carbolican	Carbofuran	Carbofuran	Carbofuran	Carbofuran	Carbofuran	Caroordian		Carboturan	Carbofuran		100	Carboruran	Carbofuran	Carbofuran	400						Carbofuran	Carbofuran	Carbofuran		Carbofuran	200	Carbofuran		Carbofuran		Carbofuran	
•	State Source		SCWDS: 136-91	CADFG1: P-	1429/1431		CADFG: P-1436	CA: D-13524	CA: D-13524	CA: D-13524	CA: D-13524	CA: D-13524	CA: D-13524	CA: D-13524	CA: D-13524	CA: P-1449	CA: P-1450	LE6: 3890AN	CA: D9200385	CAUCAL: 7-1433		SCWDS: 60-92	VA: 4-92		144	LEG: 5927AN	LE6: 6189AN	NMLE: 6696AN	1000	NC. IR82-12					SCWDS: 100-92	VA: 9-92					CADFG1: P-1515 CADFG1: P-1517		CADFG1: P-1514		CADFG1: P-1513	
	#Impacted Federal Source		EIIS: 1000504-038	EllS: 1005525-004 EllS: 1000599-008			EIIS: 1001602-001	EIIS: 1005525-005	EIIS: 1005525-007	EIIS: 1005525-008	EIIS: 1005525-009	EIIS: 1005525-010	EIIS: 1005525-011	EIIS: 1005625-012	FIIS: 1005525-014	EIIS: 1000599-009	EIIS: 1000599-010	EIIS: 1001606-002	EIIS: 1002682-001	Ello, luggos-uu/		EllS: 1000137-002	EIIS: 1004169-065		100 000000	EIIS: 1001606-004	EIIS: 1001606-005	EIIS: 1001596-001	F00 00F0001 0117	Ells: 10007.88-007					EIIS: 1000504-017	EIIS: 1004169-066	EIIS: 1000444-022		EIIS: 1000446-001	EII3. 1000304-021	EIIS: 1000599-004 FIIS: 1000599-002		EIIS: 1000589-005		EIIS: 1000599-006	
	! Impacted		-	8 4	· 01 +	- 80	육 -	- 4	9	99	o	4 5	₹ 6	7 -			-	က			-	0 4	6	0 N	KO L	o 6	eo -	- თ :	₽,		0.60	ო	- -	-	8	8	12		o (3		-	٠.	• • •	· •	
	Species #	Grasshopper Sparrow Mourning Dove Northern Bobwhite	Summer Tanager	Songbird Furnean Starling	Great Egret	Bird	Duck	Ked-tailed mawk	European Starling	Finch	American Robin	Songbird	Songbird	American Room	Redtailed Hawk	Hawk	Hawk	Golden Eagle	Eagle	Normern Harrier Songbird	White-tailed Kite	Common Grackle Mouming Dove	American Crow	Common Grackle Eastern Bluebird	Mourning Dove	Bald Eagle Golden Eagle	Common Raven	Mourning Dove	Sparrow	Blue Jay	Crow Furnosan Starling	Great-tailed Grackle	Mourning Dove	Red-tailed Hawk	American Crow	American Crow	Bird		Canada Goose	Canada Goose	Lawrence's Goldfinch American Robin	Yellow-rumped Warbler	Dark-eyed Junco	Mourning Dove	House Finch	Savannan sparrow Songbird
	State		*	5 5	ŝ		S	8	క	క	రే	გ:	5 8	3 8	5 8	ნ გ	8	M	8 i	3		≸	*		!	Σ	8	¥Z	;	Ş					*	\$	8		} }	\$	55	ś	S		ర	
	Start Date End Date County		6/7/1991 King George	San Joaquin			Colusa	Mendocino	Sonoma	Napa	Napa	Napa	edeN	B COCK	Napa	Sonoma	Sonoma	Fergus	Yuba	Stanislaus		Caroline	4/21/1992 Caroline		;	Sheridan	Grand	6/21/1992 Yuma	:	Yadkin					Hanover	6/7/1992 Hanover	~.		Pocahontas	10/20/1992 Pocenonias	Monterey		Monterey		Monterey	
	Start Date		6/1/1991	9/20/1991			11/1/1991	11/11/1991	11/12/1991	11/21/1991	12/3/1991	12/3/1991	12/3/1991	1881/8/21	12/11/1991	4/1/1982	1/9/1992	2/1/1992	2/4/1992	3/1/1892		4/1/1992	4/16/1992			6/5/1992	5/15/1992	5/28/1992		5/30/1992					6/7/1992	6/7/1992	9/15/1992		10/12/1992	10/19/1992	10/23/1992		11/1/1992		11/1/1992	
	Event ID §		FOIA-0108				FOIA-0111		FOIA-0113 1				FOIA-0117		FOR OTHER		FOIA-0122	FOIA-0123	FOIA-0124	FOIA-0125		FOIA-0126	FOIA-0127		:	FOIA-0128	FOIA-0129	FOIA-0130	;	FOIA-0131					FOIA-0132		FOIA-0134		FOIA-0135		FOIA-0137	200	FOIA-0139		FOIA-0140	
			F7C06	F?V01	FMV03		FUR01	E2V02	F2V03	F?V04	F7V05	F7V06	F2V07	F.708	3 60	202	FU204	FM?11	FUR02	FUA05		F?702		FM?12		FM?13	FM714	EM215				FMC03			F7703	F7204		FUV02	F7205	F??06	FUV03	FUV04		FUV05	i	FUV08

	per		5 E			2																			
Notes	Bait poisoning Found in crop field, details not provided Found in residential backyard	Flowable Bait polsoning	Witdlife found at residence adjacent to sprayed affalfa field, no sign of trauma	Ocientific enalysis details unknown:	Chart, details not provided	Birds found in chemigated vineyard, no obviscal trauma		Bait poisoning	Chart, details not provided		Chart, details not provided Scientific analysis, details unknown		Scientific analysis, details unknown	Chart, details not provided Document surveys local history with	Chart, details not provided		Chart, details not provided	Chart, details not provided	Chart, details not provided Chart, details not provided	Bait poisoning Chart, details not provided		Chart, details not provided Chart, details not provided	Chart, details not provided	Chart, details not provided	Chart, details not provided Chart, details not provided
Formula	Flowable	Flowable	Flowable				Flowable	Flowable					Flowable	- ran ran	5					Flowable					
Site/Land Use	Agricultural Area Agricultural Area Non-Agricultural		Crop - Alfalfa	e de	Lake	Vineyard	Non-Agricultural				Crop - Com		Crop - Alfalfa	avid - nor	300										
Mis/Ab/Use	Abuse	Abuse	Use	4	esnav	Use	Abuse	Abuse			Legal (Label)			-	200					Abuse					
Pesticide(s)	Carbofuran Carbofuran Carbofuran	Carbofuran	Carbofuran	400	Carbofuran	Carbofuran	Carbofuran	Carbofuran	Carbofuran		Carbofuran Carbofuran		Carbofuran Dimethoate	Carbofuran	Carbofuran		Carbofuran	Carbofuran	Carbofuran Carbofuran	Carbofuran Carbofuran		Carbofuran Carbofuran	Carbofuran	Carbofuran	Carbofuran Carbofuran
State Source	NMLE: 6461AP VDGIF: 4-93 SCWDS: 26-93	LE6: 7817AP						LE6: 7180-AO	CADFG1: P-1555- 1-9				IDFG: 93056					CADFG1: P-1598	CADFG1: P-1603	LE6: 2281AP CADFG1: P-1695	,			CADFG1: P-1626	CADFG1: P-1624 CA: P-1625
Federal Source	EIIS: 1001596-002 EIIS: 1004169-080 EIIS: 1000504-007	EIIS: 1001606-014	EliS: 1000589-003		EIIS: 1004632-002	EIIS: 1000599-001	EIIS: 1000912-001	EIIS: 1001606-008	EIIS: 1004632-004		EIIS: 1004632-003 EIIS: 1001599-002		EIIS: 1000920-001	EIIS: 1004632-008	EIIS: 1003930-002 EIIS: 1004632-010		EIIS: 1004632-009	EIIS: 1004632-007	EIIS: 1004632-011 EIIS: 1004632-012	EIIS: 1001606-010 EIIS: 1004632-014		EIIS: 1004632-013 EIIS: 1004632-015	EIIS: 1004632-024	EIIS: 1004632-023	E11S: 1004632-021 E11S: 1004632-022
# Impacted	- 8 2 -	ю	5	-	. t	- ო	-	40,-	- 0 4	o	m ~	0	· 6	ω ;	3 2		o ← 4	0 - 10		- 4	- 2	60 61 61	N 00 N	- 6 9	
Species	Great Horned Owl Ceder Waxwing Dark-eyed Junco Red-shouldered Hawk	Songbird	House Finch	House Sparrow	Baid Eagle House Finch	House Finch	8	Black-billed Magpie Golden Eagle	American Robin	Bronzed Cowbird House Finch	House Finch Common Grackle	European Starling Red-winged Blackbird Rock Pigeon Tree Swellow	Canada Goose	Red-winged Blackbird	Mallard Lark Sparrow	Purple Finch Savannah Sparrow	House Finch House Sparrow	reliow-rumped warbler Northern Flicker Yellow-rumped Warbler	House Finch Yellow-rumped Warbler	Bald Eagle House Finch	Western Meadowlark Yellow-rumped Warbler	Lark Sparrow House Finch	rellow-fumped vvarblel Brewer's Blackbird House Finch	Lawrence's Goldfinch Yellow-rumped Warbler Brewer's Blackbird House Finch Yellow-rumped Warbler	Mourning Dove Mourning Dove Yellow-rumped Warbler
State	¥ \$ 8	SO	ð		≅ გ	ర	AR	¥	ర		성법		Ω	્ર ક	გ გ	•	ర	ઇ	55	88		క క	ర	3	55
End Date County	994 Crosby 1993 Charles City Screven	Hutchinson	San Joaquin		Burnett San Joaquin	Kem	Prairie	Rosebud	4/23/1993 4/27/1993 Monterey		Kem 5/18/1993 Kent		Canyon	Monterey	Glenn Monterey		Monterey	Monterey	Monteray Monteray	Butte Monterey		Monterey Monterey	Monterey	Monterey	Monterey Monterey
		83	83		93	83	63	883	17214 866				983	893	933	}	993	1993	1993	1993		1993	1993	1993	1993
Start Date		2/27/1993	3/1/1993		3/1/1993	4/1/1993	4/1/1993				4/26/1993 5/7/1993		6/10/1993	-	8/1/1993		10/1/1993	10/11/1993	10/11/1993	10/18/1993		10/21/1993	10/21/1993	7 10/25/1993	8 10/26/1993 9 10/27/1993
Event (D	FOIA-0141 FOIA-0142 FOIA-0143	FOIA-0144	FOIA-0145		FOIA-0146 FOIA-0147	FOIA-0148	FOIA-0149	FOIA-0150	FOIA-0151		FOIA-0152 FOIA-0153		FOIA-0154	FOIA-0155	FOIA-0156		FOIA-0158	FOIA-0159	FOIA-0160 FOIA-0161	FOIA-0162 FOIA-0163		FOIA-0164 FOIA-0165	FOIA-0166	FOIA-0167	FOIA-0168 FOIA-0169
	FM?16 F??07 F??08	71CM2	9	r UAU	FM?18	FI WO7	FM219	FM?20		F??10	F??11	FUC01	F?A01	F??12		F??13	F7714	F7715	F??16	FM721	F??18	F??19		F7722	F7723 F7724

e Formula Notes	Chart, details not provided	Chan, details not provided	Chart, details not provided	Chart, details not provided	Chart, details not provided	Chart, details not provided Chart, details not provided	Chart, details not provided	Chart, details not provided	Chart, details not provided	Newly-flooded rice field was being used by a duck club; birds probably located a spill on field; Knowles Ranch again	Chart, details not provided	Chart, details not provided	Chart, details not provided	Bait poisoning Scientific analysis, details unknown	Flowable Bait poisoning
Site/Land Use										Crop - Rice					
Mis/Ab/Use										Use				Abuse Misuse	Abuse
Pesticide(s) Mis/Ab/Use	Carbofuran	Carbofuran	Carbofuran	Carbofuran	Carbofuran	Carbofuran Carbofuran	Carbofuran	Carbofuran	Carbofuran	Carbofuran	Carbofuran	Carbofuran	Carbofuran	Carbofuran Carbofuran	Carbofuran
State Source	CADFG1: P-1616	CADFG1: P-1617	CADFG1: P-1632	CADFG1; P-1618	CADFG1: P-1619	CADFG1: P-1630	CADFG1: P-1835	CADFG1: P-1637			CADFG1: P-1629	CADFG1; P-1631	CADFG1; P-1833	FWSLE6: 8285AP VA: 12617-001-	LE6: 7900AP
#Impacted Federal Source	EIIS: 1004632-017	EIIS: 1004632-018	EIIS: 1004632-028	EIIS: 1004632-019	EIIS: 1004632-020	EIIS: 1004632-031 EIIS: 1004632-026	EIIS; 1004632-030	EIIS: 1004632-032	EIIS: 1004632-016	EIIS: 1004665-007	EIIS: 1004632-025	EIIS: 1004632-027	EIIS: 1004632-029	EIIS: 1001806-012 EIIS: 1001804-001	EIIS: 1001606-011
# Impacted	400000-646		B + + 8 + + 8 8 8	1 th cu to	08	40	4	7	5	12	- ‡	-	-	86	4
Species	Horned Lark House Finch Lark Sparrow Lawrero's Godffrich Mourning Dove Northern Flicker Sparrow Wastern Blucker Vallow-n mned Warther	Mourning Dove Mourning Dove Northern Flicker Oregon Junco Western Bluebird	Yellow-rumped Warbler California Quali Hermit Thrush House Finch Lark Sparrow Mourning Dove Song Sparrow Western Bluebird	Lawrence's Goldfinch Mourning Dove Yellow-rumped Warbler	Mourning Dove Northern Flicker Sharp-shinned Hawk Western Bluebird	Yellow-rumped Warbler Brewer's Blackbird Mourning Dove	Caffornia Qual House Finch House Finch Mourning Dove Northern Filcker Song Sparrow Wastern Meadowfark Yellow-rumped Warbler	Yellow-rumped Warbler	Mallard	Mallard	House Finch Yellow-rumped Warbler	Song Sparrow	Yellow-rumped Warbler	Bald Eagle Golden Eagle Red-tailed Hawk	Baid Eagle
State	5	8	క	క	ð	55	5	ర	ర	5	రే	ర	ర	M A	Ψ
Start Date End Date County	Montarey	Monterey	Monterey	Monterey	Monterey	Monterey	Monterey	Monterey	, Glenn	Glenn	Monterey	Monterey	Monterey	1/21/1994 Wheatland 2/21/1994 2/23/1994 Teswell	Pondera
Starf Date	10/28/1993	10/29/1993	10/29/1993	10/30/1993	10/31/1993	11/1/1983	11/3/1983	11/5/1993	11/7/1993	11/7/1993	11/8/1993	11/8/1993	11/13/1993	1/21/1994 2/21/1994	3/23/1994
Event ID		FOIA-0171 10/29/1993	FOIA-0172 10/29/1993	FOIA-0173 10/30/1993	FOIA-0174 10/31/1993	FOIA-0175 FOIA-0176	FOIA-0177	FOIA-0178	FOIA-0179	FOIA-0180 11/7/1993	FOIA-0181	FOIA-0182	FOIA-0183	FOIA-0184 FOIA-0185	FOIA-0188
	F7725	F7726	F??27	F?728	F??29	F7730 F??31	F7732	F7733	F??34	FUR03	F??35	F2236	F??37	FM722 FM723	

Formula Notes		Partially-legible article discusses possibility of balt poisoning or normal use; both granular and flowable banned	at this time? Poisoning suspected; scientific Scientific analysis, detaits unknown	Flowable Bait poisoning Chart - details not legible	Chart - details not legible			Flowable Balt polsoning	Birds found in post-application mortality survey, Sleepy Hollow Vineyard	Resident found several birds in yard, opposite beef cattle farm; Intentional poisoning suspected	Bird found washed up on the shore of lake	Granular Document surveys local history with regards to implementation of stewardship program; legal use assumen	Birds found in post-application mortality survey. Fall 1994	Flowable Applicator treated wrong field near national wildlife refuge; fined by CA authorities	NYC case, intentional polsoning likely	Birds found at landfill Flowable Bait polsoning	Flowable 4F applied adjacent to water reservoir, crower fined for misuse	Birds found dead adjacent to town water supply; scientific analysis reports CF toxicosis, no further details	Flowable Bee kill, \$10,000 damage		Flowable Birds fed on treated plants, applicator certified
Site/Land Use Forn		Crop - Corn	Lake Lake	Flow Crop - Corn			Flow Non-Agricultural		Vineyard	Non-Agricultural		Crop - Rice Grai		Field Flow	Non-Agricultural	Non-Agricultural Agricultural Area Flov	Crop - Affaifa Flow	Non-Agricultural	Crop - Potato Flow		Crop - Corn Flov
is/Ab/Use		Abuse	Abuse	Abuse				Abuse	Use	Abuse		Use	Use	Misuse	Abuse	Abuse Abuse	Misuse		Use		Use
Pesticide(s) Mis/Ab/Use		Carbofuran	Carbofuran Carbofuran	Carbofuran	Carbofuran		Carbofuran	Carbonuran	Carbofuran	Carbofuran	Carbofuran	Carbofuran	Carbofuran	Carbofuran	Carbofuran	Carbofuran Carbofuran	Carbofuran	Carbofuran	Carbofuran	Methamtophos	Carbofuran
State Source				LE6: 8896AP			6	E2028	CADFG: P-1768A		TN: 13435	TN: 13473,001 CADFG1: L-192- 39		FMC: 501707	NYDEC: 97-55-23	NYDEC: 96-36-13 KY: 520907	VA: 94-97	SCWDS: 94-97	WADH 1998		PA: 28
#Impacted Federal Source		EIIS: 1001603-001	EIIS: 1001605-001 EIIS: 1001605-(103	EIIS: 1001608-013	EIIS: 1003908-013		EIIS: 1003351-025 EIIS: 1004665-009	EIIS: IOO IBOO-008	EIIS: 1004665-010	EIIS: 1003076-001	EIIS: 1003966-002	EIIS: 1003966-003	EIIS: 1004665-008	EIIS: 1004852-026	EIIS: 1006702-001	EIIS; 1004874-001 EIIS; 1005543-021	EIIS: 1006641-001	EIIS: 1005566-001	EliS: 1013883-018		EIIS: 1007371-023
Impacted	2	1	-64-		~~~	- 2	230 230	- m	w	- 2 2	; -	- n	-	7	က	2 -	9	7			8
Species #	Golden Eagle	Bald Eagle	Common Raven Bald Eagle Bald Eagle Common Raven	Crow Hawk American Goldlinch Baltmore Orlole Brown-heeded Cowbird House Froth House Sparrow Mourning Dove Red-salied Hawk Red-winged Blackbird	Rock Pigeon Sparrow Crow	Gull Ring-billed Gull	Cliff Swallow Cliff Swallow	Colden Eagle Red-tailed Hawk	Finch Mourning Dove Yellow-rumped Warbler	Blue Jay Dark-eyed Junco	Eagle	Eagle Mallard	Brewer's Blackbird	Canada Goose	Rock Pigeon	Herring Gull Hawk Several other birds	Canada Goose	Canada Goose	Bees		Canada Goose
State		₹	₹₹	OS Ž	ż		కర!	Σ	క	ž	Ę	¥ S	ర	క	ž	ξŞ	*	\$	WA		ď.
Start Date End Date County		4/24/1994 Burnett	Burnett 4/14/1994 Burnett	Moody Genesee	Chautauqua		Imperial Imperial	Cheridan	Monterey	Orange	Pickett	Hawkins		Modoc	New York	New York	6/12/1997 Loudoun	Loudoun	7/15/1997 7/21/1997 Grant		Berks
Start Date		4/1/1994	4/6/1994 4/8/1994	4/10/1994 8/12/1994	8/17/1994		9/2/1994	913/1984	11/3/1994	2/6/1995	2/22/1995	3/11/1895 5/26/1995	9/19/1995	6/6/1996	10/25/1996	11/16/1996 1/30/1997	6/5/1997	6/12/1997	7/15/1997		7/24/1997
Event ID 9		FOIA-0187	FOIA-0188 FOIA-0189	FOIA-0190 6	FOIA-0192		FOIA-0193 FOIA-0194		FOIA-0196	FOIA-0197	FOIA-0198	FOIA-0199 FOIA-0200	FOIA-0201	FOIA-0202	FOIA-0203 1	FOIA-0204 1	FOIA-0206	FOIA-0207	FOIA-0208		FOIA-0209 7/24/1997
	FM?24	FMC04	FM725 F7738	FM726 F?C07		F??39	F7740 F7741	FM227	FMV04	FM?28	F??42	F7743	FU?05	FM?29	FM?30	FM?31 FM?32	FMAGE	F??44		FUP?	FUC02

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ource State Source Pesticide(s)		impacted Federal Source State Source 2 EIIS: 1008848-001 NYDEC: 97-50-28	# Impacted Federal Source State Source 2 EIIS: 1008646-001 NYDEC: 97-50-28	State Species # impacted Federal Source State Source go NY European Starting 2 EIIS: 1008546-001 NYOEC: 97-50-28	State Species # Impacted Federal Source State Source NY European Starting 2 EIIS: 1008646-001 NYDEC: 97-50-28
701-001 NYDEC: 97-52-15	1 EIIS: 1006701-001 NYDEC: 97-5	1 EliS: 1006701-001	Rock Pigeon 1 EliS: 1006701-001	NY Rock Pigeon 1 EllS: 1006701-001	GHOLTING NO. 1 EIIS. 1006701-001
		2 EIIS: 1006652-001	Rock Pigeon 2 EIIS: 1006652-001	NY Rock Pigeon 2 EllS: 1006652-001	NY Rock Pigeon 2 EllS: 1006652-001
893-001 NYDEC: 97-52-	4 EIIS: 1006693-001 NYDEC:	w 4 EIIS: 1006693-001	House Sparrow 4 EllS: 1006693-001	NY House Sparrow 4 EllS: 1006893-001	New York NY House Sparrow 4 EilS: 1006893-001
NYO	1 EIIS: 1006670-001 NYDEC: (EIIS: 1006670-001	t EIIS: 1006670-001	NY Red-tailed Hawk 1 EllS: 1006670-001	7 New York NY Red-failed Hawk 1 EIIS: 1008670-001
568-001 CADFG; P-1192		EIIS: 1005568-001	58 EIIS: 1005568-001	CA Duck 58 EIIS: 1005568-001	Duck 58 EIIS: 1005568-001
		1 EIIS: 1006654-001	Rock Pigeon 1 EIIS: 1006654-001	Rock Pigeon 1 EIIS: 1006654-001	NY Rock Pigeon 1 EIIS: 1006654-001
676-001 N.DEC. 37-30-24	T EIIS: IUUGO/6-001 INIDEC:	T EIIS: 10080/8-001	Rock Pigeon 1 Elis: Judgo/ o-uvi	NY Rock Pigeon 1 Ello: Iuucov e-uu 1	10/24/1997 10/24/1997 New York NY Rock Pigeon 1 Ells: Nuceyro-uvi
-	-	-	100 is 200 is 20	NY KOCK PIGGOT	Kock Pigeon
651-001 NYDEC: 97-53-33	6 EIIS: 1006651-001 NYDEC:	EIIS: 1006651-001	6 EIIS: 1006651-001	NY Rock Pigeon 6 EIIS: 1009651-001	Rock Pigeon 6 EIIS: 1006651-001
x697-001 NYDEC: 97-56-18	1 EIIS: 1006697-001 NYDEC		1 EIIS: 1006697-001	NY Rock Pigeon 1 EIIS: 1006697-001	10/31/1997 New York NY Rock Pigeon 1 EIIS: 1006697-001
3706-001 NYDEC: 97-56-17	6 EIIS: 1006708-001 NYDEC	6 EIIS: 1006706-001	Rock Pigeon 6 EllS: 1006708-001	New York NY Rock Pigeon 6 EllS: 1006708-001	1031/1997 New York NY Rock Pigeon 6 EllS: 1006708-001
3688-001 NYDEC: 97-60-19	8 EIIS: 1006888-001 NYDE(EIIS: 1006688-001	8 EIIS: 1006688-001	11/3/1997 New York NY Rock Pigeon 8 EIIS: 1006688-001	11/3/1997 11/3/1997 New York NY Rock Pigeon 8 EllS: 1006888-001
3696-001 NYDEC: 97-60-22	1 EIIS: 1006696-001 NYDE		1 EliS: 1006696-001	NY Rock Pigean 1 EIIS: 1006696-001	11/6/1997 New York NY Rock Pigeon 1 EllS: (006696-001
3689-001 NYDEC: 97-62-21	3 EIIS: 1008689-001 NYDE	EIIS: 1008689-001	3 EIIS: 1008689-001	New York NY Rock Pigeon 3 EllS.: 1006899-001	11/20/1997 New York NY Rock Pigeon 3 EllS: (008889-001
6669-001 NYDEC: 97-62-22	3 EIIS: 1006669-001 NYD	EIIS: 1006669-001	3 EIIS: 1006669-001	11/23/1997 New York NY Rock Pigeon 3 EllS: 1006669-001	1123/1997 1123/1997 New York NY Rock Pigeon 3 EllS: 1006669-001
6647-001 NYDEC: 7-57-02	7 EIIS: 1006647-001 NYI	EIIS: 1006647-001	Rock Pigeon 7 EIIS: 1006647-001	NY Rock Pigeon 7 EIIS: I006647-001	11/25/1987 New York NY Rock Pigeon 7 EIIS: I006647-001
6667-001 NYDEC: 97-58-27	17 EIIS: 1006667-001 NYI	EIIS: 1006667-001	17 EIIS: 1006667-001	New York NY Rock doves 17 EIIS: I006667-001	NY Rock doves 17 EllS: I006667-001
7372-005	3 EIIS: 1007372-005		ო	Kent DE Grackle 3	326/1998 Kent DE Grackle 3
7963-001 PA: 98-7-STD-I	2 EIIS: 1007963-001 P	EIIS: 1007963-001	PA Grackle 2 EIIS: 1007963-001	\$/18/1998 Northampton PA Grackle 2 EllS: 1007963-001	5/15/1998 5/18/1998 Northampton PA Grackle 2 EllS: 1007963-001
7545-034 MN: 521059	28 EIIS: 1007545-034 N	EIIS: 1007545-034	28 EIIS: 1007545-034	MN Goose 28 EllS: 1007545-034	6/3/1998 MN Goose 28 EIIS: 1007545-034
77820-001 NYDEC: 98-32-25	46 EUS: 1007820-001 NY	EIIS: 1007820-001	46 ENS: 1007820-001	NY Sparrow 46 EllS: 1007820-001	Sparrow 46 EllS: 1007820-001
38136-001 NYDEC: 98-32-26	1 EIIS: 1008136-001 NY	in 1 EIIS: 1008136-001	Rock Pigeon 1 EIIS: 1008136-001	NY Rock Pigeon 1 EIIS: 1008136-001	7/14/1998 New York NY Rock Pigeon 1 EIIS: 1008135-001
37801-002 NYDEC: 98-37-	8 EIIS: 1007801-002 N	EIIS: 1007801-002	8 EIIS: 1007801-002	N Book Pineon 8 EllS: 1007801-002	N Rock Pineon 8 EllS: 1007801-002
2	EUS: 1007824-005	4 Ellis: mozga21-005	NOCK PINE DE LE CONTROL DE LE CONTROL DE LA	New York NI Nock Pigeui	84/1/998 New York NY ROCK Pugeon C Ellic Inches 1005
_	_	_	1 EIIS: 100/821-005	New York NY Rock Pigeon 1 EllS: NO/ 821-003	NY Rock Pigeon 1 Ells: N0/821-003
07821-006 NYDEC: 98-36-29	1 EIIS: 1007821-006 NY		1 EIIS: 1007821-006	New York NY Rock Pigeon 1 EIIS: 1007821-006	NY Rock Pigeon 1 EIIS: 1007821-006
07801-003 NYDEC: 98-37- 25ABC	4 EIIS: 1007801-003 N	EIIS: 1007801-003	4 EIIS: 1007801-003	New York NY Rock Pigeon 4 EIIS: 1007801-003	NY Rock Pigeon 4 EIIS: 1007801-003
07801-001 NYDEC: 98-40-30	1 EIIS: 1007801-001		1 EIIS: 1007801-001	New York NY Peregrine Falcon 1 EllS: 1007801-001	NY Peregrine Falcon 1 EIIS: 1007801-001
	* 1 200+	Red-tailed Hawk 1 Rock Pigeon 200+			

	al poisoning likely	al polsoning likely	then illegal	est/woods area	Balt poisoning Intentional and illegal baiting of a wheat field (see IO10885-001)		Massive Intentional poisoning to kill "nuisance" birds; Also see 1009388-001		Liver contains brodifacoum and CF, no further details		led, birds were	oning 0	al poisoning likely	al poisoning likely		n nearest roadl o detail provided	g suspected near	Landfill: "someone does not like the gulls that frequent the Cortland County Dump"	vided	vd bled to		Dead eagle found near poisoned foxes, details unknown but foxes suggests bait poisoning; (submission date assigned as start at a for centing)	with CF to	ract skunks	freated cracked
Notes	NYC case, intentional poisoning likely	NYC case, intentional polsoning likely	Intentional polsoning, then illegal dumped	Bait poisoning in forest/woods area Bait poisoning	Balt poisoning ntentional and illegield (see 1010885-0		Massive Intentional Inuisance" birds; Al		Liver contains brodi further details	Bait poisoning	No violation suspected, birds were	Com grain bait poisoning	NYC case, intentional poisoning likely	NYC case, intentional poisoning likely	Bait poisoning	Bird found 300ft from nearest roadl scientific analysis, no detail provided	Intentional poisoning suspected near landfill	Landfill, "someone gulls that frequent t Dump"	Chart, detail not provided	ean poisoning Bait poisoning Intoxicated furkey f	private citizen	Dead eagle found near poisoned foxe: details unknown but foxes suggests bs poisoning: [submission date assigned as start ais for scriin)	Barley seed treated with CF intentionally kill pigeons	Balt poisoning to attract skunks	Bair poisoning with treated cracked com
Formula		-	Flowable 1	Flowable 8	Flowable B Flowable		Flowable			Flowable	Flowable	Flowable		_	Granular					and work		Flowable	Granular	Flowable	Flowable
Ske/Land Use	Non-Agricultural	Non-Agricultural	National Park	Forest Poultry Farm	Poultry Farm Crop - Wheat		Crop - Wheat			Ranch	Crop - Alfalfa	Crop - Com	Non-Agricultural	Non-Agricultural	Poultry Farm	Non-Agricultural	Non-Agricultural	Non-Agricultural	A cold	Non-Agricultural			Non-Agricultural	Non-Agricultural	Crop - Com
Mis/Ab/Use	Abuse	Abuse	Abuse	Abuse Abuse	Abuse Abuse		Abuse			Abuse	Legal (Label)	Abuse	Abuse	Abuse	Abuse		Abuse	Abuse	Abuse	Abuse		Abuse	Abuse	Abuse	Abuse
Pesticide(s) MIs/Ab/Use			Carbofuran	Carbofuran Carbofuran	Carbofuran Carbofuran		Carbofuran		Carbofuran Brodicificum	Carbofuran	Carbofuran	Carbofuran	Brodifacoum	Carbofuran Carbofuran	Carbofuran Aldicarb	Carbofuran Diazinon	Carbofuran	Carbofuran	Carbofuran	Carbofuran		Carbofuran	Carbofuran	Carbofuran	Carbofuran
State Source	NYDEC: 98-40-24	NYDEC: 98-40- 26A	i	FL: LTR 3/20/00	GA: LTR 3/20/00 FMC:		FMC:		WIDNR: 2000-99	DE: LTR 03/21/00	NMDA: 00-9	MS: LTR 03/21/00	NYDEC: 00-20-11	NYDEC: 00-22-26		NYDEC	NYDEC: 00-43-14	NYDEC: COR000126		NYDEC:		FMC	EPA: 279-2876 NDFWS	NDFWS	FMC: CF035211 EPA: 279-2876
#Impacted Federal Source	EllS: 1008144-001	EIIS: 1008144-002	EIIS: 1011320-001	EIIS: 1009211-001 EIIS: 1009970-003	EIIS: 1009970-002 EIIS: 1009211-001		EIIS: 1010885-001		EIIS: 1010387-002	EIIS: 1009971-003	Elis: 1010162-001	EIIS; 1009971-004	EIIS: 1010327-001	EIIS: 1010141-001	EIIS: 1010439-002	EIIS: 1011519-001	EIIS: 1011010-001	EIIS: 1011565-001	EIIS: 1012549-005	EIIS: 1012437-001		EIIS: 1013498-011	EIIS: 1016059-002	EIIS: 1016059-001	EIIS: 1014119-005
# Impacted	. -	-	ĸĢ		27,000		27,000		-	- 4	ကက်	200.4	e 6	8	-	₹-	6	-	80 4	p 64 +	-	-	82 9	50 - 6	,88,88 8,88 1,00 1,00 1,00 1,00 1,00 1,0
Species	Rack dove	House sparrow	Common Raven	Quail Bald Eagle Hawk	Hawk Total: Blackbird	Brown-headed Cowbird Grackle Homed Lark	Total: Blackbird	Brown-headed Cowbird Grackle Homed Lark	Red-tailed Hawk	Bald Eagle Hawk	Bird	Mourning Dove Red-tailed Hawk	Wild Turkey Red-tailed Hawk	European Starling	Vulture	American Crow	Ring-billed Guli	Ring-billed Gull	Grackle	American Crow		Eagle	Foxes Horned larks Snow bunnings Hungarian partridges	Total: migratory birds Baid eagle	Redwing blackbird Brewers blackbird Cowbird Starlings English sparrows
State	ż	ž	Ā	교교	& ∺		=		₹	DE.	N Z	WS	ž	Ż	WS	È	È	È	3:	ł ž \$	<u> </u>	QW	N O	2	5
Start Date End Date County	New York	New York	Gallatin		St Clair		St Clair		2/28/2000 Columbia		Chaves	Lawrence	3/22/2000 New York	4/6/2000 New York		7/6/2000 Columbia	Cortland	9/1/2000 Cortland	Bergen	Washington 8/18/2001 Uister Downster		Queene Алпе	Stutsman	4/30/2003 Golden	Utan County
Start Date	8/16/1998	8/16/1998	12/30/1998	9/1/1999 9/2/1999	9/21/1999 10/21/1999		10/21/1999		2/1/2000	3/9/2000	3/12/2000	3/13/2000	3/22/2000	4/6/2000	7/1/2000	7/6/2000	8/4/2000	9/1/2000	3/18/2001	8/17/2001	7021-0	9/16/2002	2/27/2003	4/23/2003	5/21/2003
Event ID	ω,	FOIA-0239	FOIA-0240	FOIA-0241 FOIA-0242	FOIA-0243 FOIA-0244		FOIA-0245 10/21/1999		FOIA-0246	FOIA-0247	FOIA-0248	FOIA-0249	FOIA-0250	FOIA-0251	FOIA-0252	FOIA-0253	FOIA-0254	FOIA-0255		FOIA-0258		FOIA-0260	FOIA-0281	FOIA-0262	FOIA-0263
	FM?57	FM758	FM?59	FM?60 FM?61	FM762	FMW01		FMW02	F??46	FM?63	FUA07	FMC06	FM764	FM?65		FM766	FM767	FM768	FM769	FM271	F7747	FM?72		FM?73	FMC07

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AV SUM

Flowable	Type	Crop	# Events	# Impacted	
All Flowable			200		
Flowable	Use		27		
Flowable	Misuse/Abuse		103		
Flowable	Not Categorized		70		
Flowable	Use	٤	5	55	
					*This includes the NYC events regardless of whether those events were categorized as misuse/abuse.
Flowable	Misuse/Abuse	Ċ	79	405	
					I think you want some of this in the vineyard category based on location (Monterey). Am I correct? If yes, then let me know and I'll be happy to re-categorize.
Flowable	Not Categorized	۵۰	47	559	
Flowable	Use	Alfa-alfa	7	3046	
Flowable	Misuse/Abuse	Alfa-alfa	ဖ	2260-2265+	
Flowable	Not Categorized	Alfa-alfa	-	40	
Flowable	Use	Vineyard	7	1019	
Flowable	Misuse/Abuse	Vineyard	4	26	
Flowable	Not Categorized	Vineyard	10	189	
Flowable	Use	Rice	4	111	
Flowable	Misuse/Abuse	Rice		200+	
Flowable	Not Categorized	Rice	2	+6	
Flowable	Use	Corn	3	33	
Flowable	Misuse/Abuse	Corn	ω	930+	
Flowable	Not Categorized	Corn	7	21	
=lowable	Use	Sovbeans			
Flowable	Misuse/Abuse	Sovbeans			

				to the section	The state of the s
Elowehle	Type	Crop	# Events	# Events # Illipacted	
Oldono!	Not Categorized	Sovbeans	-	2	
LIOMADIA	DOLLOGO TON			,	
		Cumflowere			
Flowable	eso	CONTINUES		7700 0400	
Flowable	Misuse/Abuse	Sumflowers	-	1/00-2100	
Flowable	Not Categorized	Sumflowers			
2000	8				
Flowable	Use	Kale			
Flowable	Misuse/Abuse	Kale	-	2	
Flower	Not Categorized	Kale			
2000					
Flowable	Use	Kale			
aldemota	Misuse/Abuse	Kale & Squash	-	11	and the state of t
2000	Potingoodo tola	Kale			
Flowable	ואסו המובאסוודהם	200			
Flowable	Use	Wheat			
Flowable	Misuse/Abuse	Wheat	2	54,000	
Flowable	Not Categorized	Wheat			
	,				

OTHER KILLERS

Source http://www.santacruzsertlinel.com/archiver/2002/Mev/22/local/stories/04/local.htm http://howgritics.org/archives/2006/05/15/183357.php http://hologcritics.org/archives/2006/05/15/183357.php http://hologcritics.org/archives/2006/05/15/183357.php http://hologcritics.org/archives/2006/05/15/183357.php http://hologcritics.org/archives/2006/05/15/183357.php http://hologcritics.org/archives/2006/05/15/183357.php http://hologcritics.org/archives/2006/05/15/183357.php http://hologcritics.org/archives/2006/05/15/183357.php http://www.ewg.org/reports/xox/clef/org/15/183357.php http://www.ewg.org/reports/xox/clef/org/15/183357.php http://www.ewg.org/reports/xox/clef/org/15/183357.php As per USFWS 4-5 mit; but could be as high as 40 million http://www.abcbirds.org/policy/towerkillweb.pdf	USFWS USFWS USFWS USFWS USFWS USFWS USFWS	http://www.awea.org/faq/sagnilo/swbirds.html#1.
Date on Site 5/16/2006 5/16/2006 5/16/2006 5/16/2006 5/16/2006 1997	according to a	2003 2003 2003 2003 2003 2003 2003 2003
Amount/year thousands 150,000,000 300,000,000 200,000,000 70,000,000 60,000,000 60,000,000 60,000,00	~ 65 ml	130 to 174 million 60 and 80 million 100 million and a staggering 1 billion 40 to 50 million 67 million 39 million (in Wisconsin atone)
Power Lines Power Lines Transmission and Distribution lines Buildings Free Ronting Cats Trucks and Autos Pesticides Communication Towers Wind Turbines? Wind Turbines? Communication Towers Communication Towers	Pesticides Cats Communication Towers Power lines / High voltage wires Lighted Structures and Windows Open oil pits, industrial pits, or chemical spills Anuaric Trash	Transmission and Distribution lines Trucks and Autos Windows Lighted communication towers Agricultural pesticides Cats, both feral and housecats Jet Engines Simck Stacks Bridges Wind Turbines

USFWS says they do not chart this info statistically and that we should

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STATEMENT

Of

EDWARD KIKTA, Ph.D.

Fellow of the American Institute of Chemists

Former Chairman of the American Society of Testing Materials Committee on

Chromatography

FMC Research Fellow

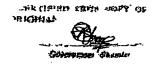
Thin layer chromatography (TLC) can be a very simple useful tool for the screening of relatively controlled well understood or limited systems. The utility TLC has been recognized in a number of areas, as an example, the screening of synthetic reaction mixtures. It has also effectively been used as a preparative chromatographic technique to isolate a substance or for the collection of substances for further analysis by more resolved techniques or for spectroscopic identification.

What thin layer chromatography is not is a reliable tool, on its own, for the definitive identification of a substance based on retention characteristics. The inherent low resolution of thin layer chromatography lends itself to interferences and false positives in all but the most controlled and well understood systems. This certainly would be the case for most pesticide analyses. This is quite evident when one reviews the CIPAC Handbooks. The overwhelming vast majority of methods for quantitative analysis are either High Performance Liquid Chromatography (HPLC) or Gas Chromatography (GC). These methods provide the resolution required for the quantitative analysis and preliminary identification of a pesticide in a formulation or its technical form. For definitive identity determinations a spectroscopic procedure or procedures are often specified. These are often used in conjunction with a higher resolution chromatographic technique to ensure that the quantitative results and qualitative identification made using either HPLC or GC are truly related to the compound of interest. This holds true for analyses ranging from technical analysis, to formulations analysis, and residue analysis.

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REPUBLIC OF KENYA

GOVERNMENT CHEMIST'S DEPARTMENT

P.O. Box 20753-00202 Telephone: 2725806/07: Fax: 2717567, NAIROBI

CERTIFICATE OF ANALYSIS

Report Reference No: P/Vet/ Vol. 1/(10)

Sender:

Lab. Sample No:

VT 8/08

Mara Conservancy P.O. Box 70739

NAIROBI

Sender's Reference:

Description of Sample: Liver, Spleen, heart and stomach

contents of a lion.

Date Received:

10/4/08 (APRIL 10, 2008)

Examination Required: Toxicology

Analytical Report:

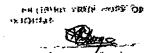
Carbofuran (furadan), carbamate pesticide was detected in the stomach contents of the lion. Carbamate pesticides are poisonous to animals when ingested.

Date: 11th April 2008

EWN/twg

FOR: GOVERNMENT CHEMIST





REPUBLIC OF KENYA

GOVERNMENT CHEMIST'S DEPARTMENT

P.O. Box 20753-00202 Telephone: 2725806/07: Fax: 2717567, NAIROBI

CERTIFICATE OF ANALYSIS

Report Reference No: P/Vet/Vol. I/08/(19)

Sender:

Lab. Sample No:

VT 9/08

Mara Conservancy P.O. Box 70739-00400

NAIROBI

Sender's Reference:

Description of Sample: Water at river 1

Water at river 2 Water at river 3 Soil from staff village

Soil from spraying point Soil near car wash

Date Received:

10/4/08

Examination Required: Toxicology

Analytical Report:

Carbofuran (furadan), a carbamate pesticide was in the soil samples from the staff village and spraying point. Carbamate pesticides are poisonous and may be harmful to animals when

No other chemically toxic substances were detected in the soil and water samples.

Date: 11th April 2008

FOR: GOVERNMENT CHEMIST

EWN/twg

MINISTRY OF HEALTH





REPUBLIC OF KENYA

GOVERNMENT CHEMIST'S DEPARTMENT

P.O. Box 20753-00202 Telephone: 2725806/07: Fax: 2717567, NAIROBI

CERTIFICATE OF ANALYSIS

Report Reference No: P/Vet/ Vol. I/08/(11)

Sender:

Lab. Sample No:

VT 10/08

Mara Conservancy P.O. Box 70739-00400

NATROBI

Sender's Reference: -

Description of Sample: Stomach content, liver, intestines

and its content of a lion

Date Received: 15/4/2008

Examination Required: Toxicology

Analytical Report:

The specimens of the lion were examined for chemically toxic substances with negative results.

Date: 18th April 2008

s. G. NJOROGE

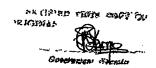
FOR: GOVERNMENT CHEMIST

5.5.

SGN/twg

MINISTRY OF HEALTH





REPUBLIC OF KENYA

GOVERNMENT CHEMIST'S DEPARTMENT

P.O. Box 20753-00202 Telephone: 2725806/07: Fax: 2717567, NAIROBI

CERTIFICATE OF ANALYSIS

Report Reference No: P/Vet/ Vol. I/08/(12)

Sender:

Lab. Sample No:

VT 11/08

Mara Conservancy P.O. Box 70739-00400

Sender's Reference:

NAIROBI

Description of Sample: Soil and glass from eight different

sites and the ninth sample of stomach content of hippo all in Date Received: 16/4/2008

plastic containers.

Examination Required: Toxicology

Analytical Report:

Carbofuran (furadan), a carbamate pesticide was detected in the stomach content of the hippo. Carbamate pesticides are poisonous to animals when ingested. No other chemically toxic substances were detected in the specimens.

Date: 18th April 2008

FOR: GOVERNMENT CHEMIST

SGN/twg

30Jul08													
				Samples Analyzed for	yzed for	Carbofura	Carbofuran in Maasai Mara Reserve / Kenya	Mara Rese	erve / Ker	ıya			
	Sample			Date of		de de	Nate Samples	Date of	Method of	Report	Report		
Sample	ð	Location	Sampler	Sampling	Analyst		Analysis		Analysis	No.	Date	Results	Comments
MARA CONSERVANCY SAMPLES:	Y SAMPLES:												
Euthanized Lion's	ΑN	Mara Reserve?	KWS Vet	04Apr08	Govt	VT 8/08	10Apr08	10-11Apr08]2	P/Vet/Vol.1(10)	11Apr08	Trace in	TLC method did
Liver, Spleen & Stomach Contents					Chemist				3				not use matrix blanks
Water	NA	Mara River	Mara	Between	Govt	VT 9/08	10Apr08	10-11Apr08	TLC	P/Vet/Vol.I/08(19)	11Apr08	No CF detected	
			Conservancy	31Mar08 and 10Apr08	Chemist								
Water	AN	•	Mara Conservancy	Between 31Mar08 and 10Apr08	Govt Chemist	VT 9/08	10Apr08	10-11Apr08	TLC	P/Vet/Vol.I/08(19)	11Apr08	No CF detected	=
Water	NA	ž	Mara Conservancy	Between 31Mar08 and 10Apr08	Govt	VT 9/08	10Apr08	10-11Apr08	TLC	P/Vet/Vol.1/08(19)	11Apr08	No CF detected	E
Soil	AN	Staff village	Mara Conservancy	Between 31Mar08 and 10Apr08	Govt	VT 9/08	10Apr08	10-11Apr08	TLC	P/Vet/Vol.I/08(19)	11Apr08	Trace	=
Soil	AA	Staff garden	Mara Conservancy	Between 31Mar08 and 10Apr08	Govt	VT 9/08	10Apr08	10-11Apr08	TLC	P/Vet/Vol.I/08(19)	11Apr08	Trace	E .
Soil	NA	Near car wash on bank of Mara River	Mara Conservancy	Between 31Mar08 and 10Apr08	Govt Chemist	VT 9/08	10Apr08	10-11Apr08	5	P/Vet/Vol.I/08(19)	11Apr08	No CF detected	Ξ
Killed Llon's Liver, Intestines & Stomach Contents	NA A	Mara Reserve?	KWS Vet or Mara Conservancy	mid Apr08	Govt	VT 10/08	15Apr08	15-18Apr08	TLC	P/Vet/Vol. I/08(11)	18Apr08	No CF detected	TLC method did not use matrix blanks
Soil & Grass - 8 sites; hippo stomach contents	¥	Mara Reserve?	KWS Vet or Mara Conservancy	mid Apr08	Govt	VT 11/08	16Apr08	16-18Apr08	πc	P/Vet/Vol. I/08(12)	18Apr08	Trace in hippo stomach contents; other samples negative	•
PEST CONTROL PRODUCT BOARD SAMPLES:	DUCT BOARD	SAMPLES											
Soil	A13/08 (1A)	Behind Mara staff residence within lodge	PCP8/Dr Njiru	08May08	KEPHIS	AE0835	13May08	22May08	HPLC	PESD/AE075	12Jun08	QO1>	LOD = 0.356 ppm
Soil	A14/08 (1B)	perimeter	PCPB/Dr Njiru	08May08	KEPHIS	AE0836	13May08	22May08	HPLC	PESD/AE075	12Jun08	4(OD	LOD = 0.356 ppm
	A15/08 (1C)	=	PCPB/Dr Nilru	08May08	KEPHIS	AE0837	13May08	22May08	HPLC	PESD/AE075	12Jun08	410D	LOD = 0.356 ppm
	A16/08 (1D)	•	PCPB/Dr Njiru	08May08	KEPHIS	AE0837	13May08	22May08	HPLC	PESD/AE075	12Jun08	ao₁>	LOD = 0.356 ppm
Soil	A08/08 (2A)	Staff sukuma garden by Mara River	PCPB/Dr Njiru	08Мау08	KEPHIS	AE0838	13May08	22May08	ньгс	PESD/AE075	12Jun08	410D	LOD = 0.356 ppm

								֡				
1												
			Samples And	alyzed for	Carboft	mples Analyzed for Carbofuran in Massai Mara Bosonio / Vonina	Mara Do	07/0/20	27.0			
ı	1							מו אנו / שנ	1190			
						Parks Carried						
						Date samples		_				
			Date of		del	Received for	Date of	Methodof	Bonort	10000		
Location	tion	Sampler	Samoline	Analyst	رموه	Anaharie	1		nepol i) Dalay		
ľ	ľ					Sie Giberry	Cickrain	ASMIYSIS	NO.	Uate	Results	Comments
	-	rcre/or Njiru	08May08	KEPHIS	AE0840	13Mav08	22 May 08	HPIC	PESD /AE075	12 hande	5	220
E	ď	PCP8/Dr Niiru	ORManos	VEDUIC	AE0044	136.5		2	COOLUCTION OF	OOI IN TO	3	LOU = 0.356 ppm
	1		School	Ner all	14000	TOWAYOR	22Mayus	HPLC	PESD/AE075	12Jun08	수 당	LOD = 0.356 ppm
AVEL DATE	IK HEXT	THE TOTAL PART DAILY NEXT PLYBY UT NITE	OSMayOS	KEPHIS	AE0842	13May08	22Mav08	HPIC	PESD/AF075	10 fra 08	00.7	200 - 00
to garden	den .							}		3	100	mdd acc.o = cool
Culturas	olant D	A12/08 (25) Subuma plant DC00 /0- Mil.	00									
	1	מולא ות/פגים	USINIANUS	KEPHIS	AE0839	13May08	22May08	HPLC	PESD/AE075	12 lan08	GOIN	100 = 0 356 nnm

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ode number	Groups and examples of individual products to which the MRLs apply (a)	Carbofuran (sum of carbofuran and 3-hydroxy carbofuran expressed as carbofuran)
100000	1. FRUIT FRESH OR FROZEN; NUTS	
110000	(i) Citrus fruit	0,3
110010	Grapefruit (Shaddocks, pomelos, sweeties, tangelo (except mineola), ugli and other hybrids) Oranges (Bergamot, bitter orange, chinotto	0,3
110020	and other hybrids)	0,3
110020	_	0,3
110030		0,3
110040	Mandarins (Clementine, tangerine, mineola	,
110050	and other hybrids)	0,3
110990		0,3
120000		0,02*
120010		0,02*
120020		` 0,02*
120030		0,02*
120040		0,02*
120050		0,02*
120060		0,02*
120070		0,02*
120070		0,02*
120090		0,02*
120100		0,02*
120110		0,02*
120990		0,02*
130000		0,02*
130010		0,02*
130010		0,02*
130020	<u> </u>	0,02*
130030	<u>'</u>	0,02*
130050	Į.	0,02*
130990	1	0,02*
140000		0,02*
140010		0,02*
140020		0,02*
140030	Peaches (Nectarines and similar hybrids)	0,02*

	140040	Plums (Damson, greengage, mirabelle, sloe)	0,02*
	140990	Others	0,02*
Ì	150000	(v) Berries & small fruit	0,02*
	151000	(a) Table and wine grapes	0,02*
ļ	151010	Table grapes	0,02*
]	151020	Wine grapes	0,02*
f	152000	(b) Strawberries	0,02*
Ì	153000	(c) Cane fruit	0,02*
ľ	153010	Blackberries	0,02*
1		Dewberries (Loganberries, boysenberries,	
[153020	and cloudberries)	0,02*
j		Raspberries (Wineberries, arctic	
l		bramble/raspberry, (Rubus arcticus), nectar	
[153030	raspberries (Rubus arcticus x idaeus))	0,02*
ŀ	153990	Others	0,02*
ſ	154000	(d) Other small fruit & berries	0,02*
Ī	154010	Blueberries (Bilberries)	0,02*
	154020	Cranberries (Cowberries (red bilberries))	0,02*
	154030	Currants (red, black and white)	0,02*
İ		Gooseberries (Including hybrids with other	
	154040	ribes species)	0,02*
	154050	Rose hips	0,02*
	154060	Mulberries (arbutus berry)	0,02*
		Azarole (mediteranean medlar) (Kiwiberry	
	154070	(Actinidia arguta))	0,02*
		Elderberries (Black chokeberry	
		(appleberry), mountain ash, buckthorn (sea	
1		sallowthorn), hawthorn, service berries, and	
	154080	other treeberries)	0,02*
	154990	Others	0,02*
	160000	(vi) Miscellaneous fruit	0,02*
	161000	(a) Edible peel	0,02*
	161010	Dates	0,02*
	161020	Figs	0,02*
	161030	Table olives	0,02*
		Kumquats (Marumi kumquats, nagami	
		kumquats, limequats (Citrus aurantifolia x	
	161040	Fortunella spp .))	0,02*
	161050	Carambola (Bilimbi)	0,02*
	161060	Persimmon	0,02*

1	1	1
	Jambolan (java plum) (Java apple (water	
	apple), pomerac, rose apple, Brazilean cherry	
	161070 Surinam cherry (grumichama Eugenia uniflora),	0,02*
	161990 Others	0,02*
ŀ	162000 (b) Inedible peel, small	0,02*
ŀ	162010 Kiwi	0,02*
	Lychee (Litchi) (Pulasan, rambutan (hairy	
	162020 litchi), mangosteen)	0,02*
	162030 Passion fruit	0,02*
	162040 Prickly pear (cactus fruit)	0,02*
	162050 Star apple	0,02*
	102030 Star apple	ŕ
	American persimmon (Virginia kaki) (Black	
	sapote, white sapote, green sapote, canistel	
	162060 (yellow sapote), and mammey sapote)	0,02*
	162990 Others	0,02*
ŀ	163000 (c) Inedible peel, large	0,02*
	163010 Avocados	0,02*
	Bananas (Dwarf banana, plantain, apple	, and the second
	163020 banana)	0,02*
	163030 Mangoes	0,02*
	163040 Papaya	0,02*
	163050 Pomegranate	0,02*
	Cherimoya (Custard apple, sugar apple	, in the second
	(sweetsop), llama and other medium sized	İ
	163060 Annonaceae)	0,02*
	Guava (Red pitaya or dragon fruit	
	163070 (Hylocereus undatus))	0,02*
	163080 Pineapples	0,02*
	163090 Bread fruit (Jackfruit)	0,02*
	163100 Durian	0,02*
	163110 Soursop (guanabana)	0,02*
	163990 Others	0,02*
	200000 2. VEGETABLES FRESH OR FROZEN	0,02*
	210000 (i) Root and tuber vegetables	0,02*
	211000 (a) Potatoes	0,02*
	212000 (a) Foliatoes 212000 (b) Tropical root and tuber vegetables	0,02*
	Cassava (Dasheen, eddoe (Japanese taro),	
	212010 tannia)	0,02*
	212020 Sweet potatoes	0,02*
	Yams (Potato bean (yam bean), Mexican	-/-
	212030 yam bean)	0,02*
		0,02*
	1	0,02*
	212990 Others	,,,,

	(c) Other root and tuber vegetables except	0,02*
213000 sug	ar beet	0,02*
213010	Beetroot	
213020	Carrots	0,02*
213030	Celeriac	0,02*
	Horseradish (Angelica roots, lovage roots,	
213040 gen	tiana roots,)	0,02*
213050	Jerusalem artichokes	0,02*
213060	Parsnips	0,02*
213070	Parsley root	0,02*
	Radishes (Black radish, Japanese radish,	
sm	all radish and similar varieties, tiger nut	
	perus esculentus))	0,02*
	Salsify (Scorzonera, Spanish salsify (Spanish	
213090 oys	sterplant))	0,02*
213100	Swedes	0,02*
213110	Turnips	0,02*
213990	Others	0,02*
	(ii) Bulb vegetables	0,02*
220010	Garlic	0,02*
220020	Onions (Silverskin onions)	0,02*
220030	Shallots	0,02*
220030	Spring onions (Welsh onion and similar	
220040 va	•	0,02*
220990	Others	0,02*
230000	(iii) Fruiting vegetables	0,02*
231000	(a) Solanacea	0,02*
231000	Tomatoes (Cherry tomatoes, tree tomato,	
\ ₀ ,	pysalis , gojiberry, wolfberry (Lycium barbarum	
	nd L. chinense))	0,02*
231020	Peppers (Chilli peppers)	0,02*
231030	Aubergines (egg plants) (Pepino)	0,02*
231030	Okra, lady's fingers	0,02*
231040	Others	0,02*
	(b) Cucurbits - edible peel	0,02*
232000	Cucumbers	0,02*
232010		0,02*
232020	Gherkins	ŕ
	Courgettes (Summer squash, marrow	0,02*
232030 (p		0,02*
232990	Others	0,02*
233000	(c) Cucurbits-inedible peel	0,02*
233010	Melons (Kiwano)	0,02*
233020	Pumpkins (Winter squash)	
233030	Watermelons	0,02*
233990	Others	0,02*

234000	(d) Sweet corn	0,02*
239000	(e) Other fruiting vegetables	0,02*
240000	(iv) Brassica vegetables	0,02*
241000	(a) Flowering brassica	0,02*
	Broccoli (Calabrese, Chinese broccoli,	
241010	broccoli raab)	0,02*
241020	Cauliflower	0,02*
241990	Others	0,02*
242000	(b) Head brassica	0,02*
242000	Brussels sprouts	0,02*
242010	Head cabbage (Pointed head cabbage, red	
242020	cabbage, savoy cabbage, white cabbage)	0,02*
242020		0,02*
		0,02*
243000	(C) Leary Drassica	
,	Chinese cabbage (Indian (Chinese) mustard,	
,	pak choi, Chinese flat cabbage (tai goo choi), choi	
	sum, peking cabbage (pe-tsai),)	0,02*
243010	Kale (Borecole (curly kale), collards,	
, ,	Portuguese Kale, Portuguese cabbage, cow	
·	cabbage)	0,02*
	₹ I	0,02*
243990		0,02*
244000		0,02*
250000		
351005	(a) Lettuce and other salad plants including	0,02*
	Brassicacea	0,02*
251010	Lamb´s lettuce (Italian cornsalad)	-,
1	tu the ware fello resso (sutting	
1	Lettuce (Head lettuce, Iolio rosso (cutting	0,02*
251020	lettuce), iceberg lettuce, romaine (cos) lettuce)	3,3=
	Scarole (broad-leaf endive) (Wild chicory,	
	red-leaved chicory, radicchio, curld leave endive,	0,02*
1	sugar loaf)	0,02*
251040	1	0,02*
251050		0,02*
251060	Rocket, Rucola (Wild rocket)	
251070		0,02*
	Leaves and sprouts of Brassica spp (Mizuna,	
	leaves of peas and radish and other babyleaf	
	brassica crops (crops harvested up to 8 true leaf	
25108/	0 stage))	0,02*
251990	1	0,02*
252000		0,02*
	Spinach (New Zealand spinach,	
	Sp	0,02*

	Purslane (Winter purslane (miner's lettuce), garden purslane, common purslane, sorrel,	
252020	glassworth, Agretti (Salsola soda))	0,02*
252030	Beet leaves (chard) (Leaves of beetroot)	0,02*
252990	Others	0,02*
253000	(c) Vine leaves (grape leaves)	0,02*
254000	(d) Water cress	0,02*
255000	(e) Witloof	0,02*
256000	(f) Herbs	0,02*
256010	Chervil	0,02*
256020	Chives	0,02*
	Celery leaves (Fennel leaves, Coriander	
	leaves, dill leaves, Caraway leaves, lovage,	0,02*
	angelica, sweet cisely and other Apiacea leaves)	0,02*
256040		0,02*
256050		0,02*
256060	l	0,02*
256070	i -	0,02*
256080	1 · · · · · · · · · · · · · · · · · · ·	0,02*
256090	1	0,02*
256100	1	0,02*
256990		0,02*
260000		0,02
	Beans (with pods) (Green bean (french	
20040	beans, snap beans), scarlet runner bean, slicing	0,02*
260010	bean, yardlong beans) Beans (without pods) (Broad beans,	- ,
260020	Flageolets, jack bean, lima bean, cowpea)	0,02*
200020	Peas (with pods) (Mangetout (sugar peas,	·
260030	snow peas))	0,02*
20000	Peas (without pods) (Garden pea, green	
260040	(pea, chickpea)	0,02*
260050	1	0,02*
260990	l l	0,02*
270000		0,02*
270010		0,02*
270020	· -	0,02*
270030	1	0,02*
270040	1	0,02*
270050	!	0,02*
270060) Leek	0,02*
270070	ļ	0,02*
270080		0,02*

270090	Palm hearts	0,02*
270990	Others	0,02*
280000	(viii) Fungi	0,02*
	Cultivated (Common mushroom, Oyster	
280010	mushroom, Shi-take)	0,02*
280020	Wild (Chanterelle, Truffle, Morel, Cep)	0,02*
280990	Others	0,02*
290000	(ix) Sea weeds	0,02*
300000	3. PULSES, DRY	0,02*
	Beans (Broad beans, navy beans, flageolets,	
300010	jack beans, lima beans, field beans, cowpeas)	0,02*
300020	Lentils	0,02*
300030		0,02*
300040	Lupins	0,02*
300990	Others	0,02*
400000	4. OILSEEDS AND OILFRUITS	
401000	(i) Oilseeds	0,1
401010	Linseed	0,1
401020	Peanuts	0,1
401030	Poppy seed	0,1
401040	Sesame seed	0,1
401050	Sunflower seed	0,1
401060	Rape seed (Bird rapeseed, turnip rape)	0,1
401070	Soya bean	0,1
401080	Mustard seed	0,1
401090	Cotton seed	0,1
	Pumpkin seeds (Other seeds of	
401100	cucurbitacea)	0,1
401110	Safflower	0,1
401120	Borage	0,1
401130	Gold of pleasure	0,1
401140	Hempseed	0,1
401150	Castor bean	0,1
401990	l t	0,1
402000	(ii) Oilfruits	
402010		0,02*
402020	l I	0,05*
402030	i	0,05*
402040	i i	0,05*
402990	I	0,05*
500000		0,02*
500010		0,02*

500020	Buckwheat (Amaranthus, quinoa)	0,02*
500030	Maize	0,02*
500040	Millet (Foxtail millet, teff)	0,02*
500050	Oats	0,02*
500060	Rice	0,02*
500070	Rye	0,02*
500080	Sorghum	0,02*
500090	Wheat (Spelt, triticale)	0,02*
500990	Others	0,02*
600000	6. TEA, COFFEE, HERBAL INFUSIONS AND COCOA	0,05*
8000001	(i) Tea (dried leaves and stalks, fermented or	
610000	otherwise of Camellia sinensis)	0,05*
620000	(ii) Coffee beans	0,05*
630000	(iii) Herbal infusions (dried)	0,05*
631000	(a) Flowers	0,05*
631010	Camomille flowers	0,05*
631020	Hybiscus flowers	0,05*
631020	Rose petals	0,05*
631030	Jasmine flowers (Elderflowers (Sambucus	
631040	· · · · · · · · · · · · · · · · · · ·	0,05*
631050		0,05*
631990		0,05*
632000		0,05*
632010		0,05*
632020		0,05*
632030		0,05*
632990		0,05*
633000		0,05*
633010		0,05*
633020		0,05*
633990	_	0,05*
639000		0,05*
640000		0,05*
650000		0,05*
	7. HOPS (dried), including hop pellets and	
700000	unconcentrated powder	0,05*
800000		0,05*
810000		0,05*
810010		0,05*
810020	i I	0,05*
810030		0,05*
810030		0,05*
810050		0,05*

1	810060	Dill seed	0,05*
	810070	Fennel seed	0,05*
	810080	Fenugreek	0,05*
	810090	Nutmeg	0,05*
	810990	Others	0,05*
-	820000	(ii) Fruits and berries	0,05*
<u> </u>	820010	Allspice	0,05*
	820020	Anise pepper (Japan pepper)	0,05*
	820030	Caraway	0,05*
	820040	Cardamom	0,05*
	820050	Juniper berries	0,05*
		Pepper, black and white (Long pepper, pink	
;	820060	• •	0,05*
	820070	Vanilla pods	0,05*
ľ	820080	Tamarind	0,05*
	820990	Others	0,05*
ľ	830000	(iii) Bark	0,05*
	830010	Cinnamon (Cassia)	0,05*
	830990	Others	0,05*
İ	840000	(iv) Roots or rhizome	0,05*
ļ	840010	Liquorice	0,05*
	840020	Ginger	0,05*
	840030	Turmeric (Curcuma)	0,05*
	840040	Horseradish	0,05*
	840990	Others	0,05*
Ī	850000	(v) Buds	0,05*
Ī	850010	Cloves	0,05*
	850020	Capers	0,05*
	850990	Others	0,05*
Ī	860000	(vi) Flower stigma	0,05*
ſ	860010	Saffron	0,05*
	860990	Others	0,05*
,	870000	(vii) Aril	0,05*
	870010	Mace	0,05*
	870990	Others	0,05*
	900000	9. SUGAR PLANTS	
	900010	Sugar beet (root)	0,2
	900020	Sugar cane	0,1
	900030	Chicory roots	0,02*
	900990	Others	0,02*
		10. PRODUCTS OF ANIMAL ORIGIN-TERRESTRIAL	
	1000000	ANIMALS	

an br me	(i) Meat, preparations of meat, offals, blood, imal fats fresh chilled or frozen, salted, in ine, dried or smoked or processed as flours or eals other processed products such as sausages	
1010000 an	d food preparations based on these	0,1*
1011000	(a) Swine	0,1*
1011010	Meat	0,1*
1011020	Fat free of lean meat	0,1*
1011030	Liver	0,1*
1011040	Kidney	0,1*
1011050	Edible offal	0,1*
1011990	Others	0,1*
1012000	(b) Bovine	0,1*
1012010	Meat	0,1*
1012020	Fat	0,1*
1012030	Liver	0,1*
1012040	Kidney	0,1*
1012050	Edible offal	0,1*
1012990	Others	0,1*
1013000	(c) Sheep	0,1*
1013010	Meat	0,1*
1013020	Fat	0,1*
1013030	Liver	0,1*
1013040	Kidney	0,1*
1013050	Edible offal	0,1*
1013990	Others	0,1*
1014000	(d) Goat	0,1*
1014010	Meat	0,1*
1014020	Fat	0,1*
1014030	Liver	0,1*
1014040	Kidney	0,1*
1014050	Edible offal	0,1*
1014990	Others	0,1*
1015000	(e) Horses, asses, mules or hinnies	0,1*
1015010	Meat	0,1*
1015020	Fat	0,1*
1015030	Liver	0,1*
1015040	Kidney	0,1*
1015050	Edible offal	0,1*
1015990	Others	0,1*
	(f) Poultry -chicken, geese, duck, turkey and	
1016000	iuinea fowl-, ostrich, pigeon	0,1*
1016010	Meat	0,1*

1016020	Fat	0,1*
1016030	Liver	0,1*
1016040	Kidney	0,1*
1016050	Edible offal	0,1*
1016990	Others	0,1*
1017000	(g) Other farm animals (Rabbit, Kangaroo)	0,1*
1017010	Meat	0,1*
1017020	Fat	0,1*
1017030	Liver	0,1*
1017040	Kidney	0,1*
1017050	Edible offal	0,1*
1017990	Others	0,1*
	(ii) Milk and cream, not concentrated, nor	
·	containing added sugar or sweetening matter,	•
	butter and other fats derived from milk, cheese	
1020000	and curd	0,1*
1020010	Cattle	0,1*
1020020	Sheep	0,1*
1020030	Goat	0,1*
1020040	Horse	0,1*
1020990	Others	0,1*
	(iii) Birds' eggs, fresh preserved or cooked	
	Shelled eggs and egg yolks fresh, dried, cooked by	
	steaming or boiling in water, moulded, frozen or	
	otherwise preserved whether or not containing	
1030000	added sugar or sweetening matter	0,1*
1030010	Chicken	0,1*
1030020	Duck	0,1*
1030030	Goose	0,1*
1030040	Quail	0,1*
1030990	Others	0,1*
1040000		
	(v) Amphibians and reptiles (Frog legs,	
1050000	crocodiles)	
1060000	(vi) Snails	
1070000	(vii) Other terrestrial animal products	

Substance	Legislation	Entry in to force	
Carbofuran (sum o	f carbofuran and 3-hydroxy-carbofuran expressed as ca	rbofuran)	
	Reg.(EC) N°149/2008	1/9/2008	