November 20, 2019

VIA EMAIL AND CERTIFIED MAIL

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RE: Sixty-day Notice of Intent to Sue for of Violations of the Endangered Species Act

Dear Secretary Bernhardt:

The Center for Biological Diversity hereby notifies you that we intend to file a lawsuit against the U.S. Department of Interior and U.S. Fish and Wildlife Service ("the Service") for violating the Endangered Species Act ("ESA") and repeatedly failing to complete the Service's own National Listing Workplan and annual workloads. In 2016, the Service developed a seven-year workplan to partially address a backlog of more than 500 species awaiting 12-month determinations of whether they warrant listing as threatened or endangered. The Service has supplemented this workplan with an annual workload, including final listings and designation of critical habitat.

This workplan was informed by a scientific prioritization process and included input from stakeholders including the state fish and game agencies. Despite widespread support for the workplan, the Trump administration has consistently failed to make the findings required in the workplan. The Service failed to make findings for 30 species in fiscal year 2017, 78 species in fiscal year 2018 and 46 species in fiscal year 2019. Overall, the Trump administration has listed just 19 species for an average of only 7 species per year. By comparison, the Obama administration listed 360 species for a rate of 45 species per year and the Clinton administration listed 523 species for a rate of 65 species per year. Accordingly, it is necessary to compel the Service to follow its own workplan for 2020-2023 to prevent further delays in listing of species and the resulting increased risk of extinction.

Specifically, we are noticing the Service's failure to issue 12-month findings on petitions to list 250 species as threatened or endangered under the ESA, 16 U.S.C. § 1533(b)(3)(B), its failure to



finalize listing for eight species, its failure to propose or finalize designation of critical habitat for six species and the continued delay for protection for ten species currently considered warranted but precluded for listing ("candidate species") despite failing to make expeditious progress in listing of species. We provide this letter pursuant to the ESA's citizen suit provision, and we intend to seek a judicial order to compel the Service's action if the Service does not remedy these violations within the next 60 days. Id. § 1540(g)(2)(C).

Findings for the 274 species included in this notice are already past the deadlines established by the Endangered Species Act in most cases by more than five years. Further delay of protection for these species, which is likely under the Trump administration, will only heighten their risk of extinction and make recovery more difficult and expensive. Indeed, since passage of the Act in 1973, at least 47 species have gone extinct waiting for protection.¹

We file this notice in an effort to ensure these species receive timely consideration for protection needed for their very survival and to ensure that the Service's listing program continues to improve and move forward in its efforts to protect imperiled species in the United States. Lawsuits from conservation groups and other interested parties have played a key role in speeding protection for imperiled species. Indeed, a recent peer reviewed study found that lawsuits both targeted species that were stuck in the process and sped listing of those species.² A separate study in the prestigious journal Science found that species petitioned and litigated for listing faced a higher degree of biological threat than species solely identified by the Service, indicating that citizens also identified species truly in need of protection.³

The Endangered Species Act Α.

Congress enacted the ESA in 1973, responding to growing concern over the loss of biodiversity from "economic growth and development untempered by adequate concern and conservation." 16 U.S.C. § 1531(a). To that end, the ESA establishes a comprehensive statutory program to conserve imperiled species and their habitats. The ESA sets forth a process to identify species that are "endangered" or "threatened" with extinction. Id. § 1533(a), (b), and (c). The statute then generally bars the "take" of endangered species and further requires agencies to "utilize their authorities" to carry out "programs for the conservation" of listed species and ensure their actions do not jeopardize listed species' continued existence. Id. §§ 1538(a); 1536(a). Congress described the listing process as "[t]he cornerstone of effective implementation" of the ESA. S. Rep. No. 418, 97th Cong., 2d Sess. at 10; see also H. Rep. No. 567, 97th Cong., 2d Sess. at 10 (describing section 4 of the ESA, 16 U.S.C. § 1533).

"Any interested person" may submit a petition to list a species under the ESA, 50 C.F.R. § 424.14(a), which triggers a series of mandatory deadlines for the Service, pursuant to ESA Section 4(b). 16 U.S.C. § 1533(b); Friends of Animals v. Ashe, 808 F.3d 900, 903 (D.C. Cir. 2015). Within 90 days of receiving a petition, the Service must determine whether the petition "presents substantial scientific or commercial information indicating that the petitioned action

¹ http://www.biologicaldiversity.org/publications/papers/ExtinctAndESA.pdf

² Puckett et al., 2016.

³ Brosi, B.J., Biber, E.G.N., 2012. Citizen involvement in the U.S. Endangered Species Act. Science 337, 802–803.



may be warranted." 16 U.S.C. § 1533(b)(3)(A); 50 C.F.R. § 424.14(h)(1). If the Service makes a positive 90-day finding, the Service must conduct a full scientific review of the species' status. 16 U.S.C. § 1533(b)(3)(A). Then, within 12 months of the date it receives the petition, the Service "shall" make one of three findings: (1) listing is not warranted; (2) listing is warranted; or (3) listing is warranted but presently precluded by other pending listing proposals, provided other circumstances are met. *Id.* § 1533(b)(3)(B); 50 C.F.R. § 424.14(h)(2). This is a hard deadline; the Service has no discretion to delay its finding past 12 months. *Id.* If the Service finds listing is warranted, the Service must promptly publish a proposed rule to list the species, 16 U.S.C. § 1533(b)(3)(B), with a final rule due within one year of that publication. *Id.* § 1533(b)(6). With limited exceptions, the Service is further required to designate critical habitat concurrently with issuance of a final rule determining a species to warrant listing. 16 U.S.C. §§ 1533(a)(3)(A)(i), (b)(6)(A).

The ESA allows the Secretary to find that listing of a species is warranted but precluded only if certain criteria are met, including: (1) the immediate proposal and timely promulgation of a final regulation implementing the petitioned action...is precluded by pending proposals to determine whether any species is an endangered species or a threatened species; and (2) expeditious progress is being made to add qualified species to either of the lists published under subsection (c) and to remove from such lists species for which the protections of the Act are no longer necessary. *Id* § 1533(b)(3)(B).

B. The Service's Legal Violations

For the 250 species awaiting 12-month findings, the Center and other interested parties filed petitions seeking Endangered Species Act protections and the Service has subsequently issued 90-day findings determining listing may be warranted under the ESA (Table 1). The ESA offers no discretion to delay past the one-year mark, *Friends of Animals*, 808 F.3d at 903, yet the Service has failed to issue timely 12-month findings for all the species included in this notice awaiting determinations of whether listing is warranted.

The Service has similarly failed to issue required findings finalizing listing or designating critical habitat for 14 species, as well as make proposed listing determinations for all ten candidate species despite not making expeditious progress to add species to the endangered species list (Table 1). Accordingly, the Service is in violation of the law and has abrogated its duty to ensure that protection of threatened and endangered species occurs in a timely manner to avoid further decline and increased risk of extinction.

If the Service does not make the required 12-month findings for those species awaiting a listing determination, or make the required determinations for the ten candidate species, or contact us to develop a legally binding timeline for making these findings within the next sixty days, we intend to file suit. Please contact me if you have any questions or if you would like to discuss this matter.



Sincerely,

Noah Greenwald Endangered Species Director Center for Biological Diversity P.O. Box 11374 Portland, OR 97211 ngreenwald@biologicaldiversity.org

Table 1. 274 species awaiting decisions on their protection.

Species Name	Scientific	Action Type	Range
Alabama hickorynut	Obovaria unicolor	12M	AL, LA, MS, OK
Amargosa tryonia	Tryonia variegata	12M	CA, NV
		Final Listing	CA, CO, ID, MT, NV, NM, OR,
American wolverine	Gulo gulo	Determination	UT, WA, WY
Apalachicola wild indigo	Baptisia megacarpa	12M	AL, FL, GA
Arizona toad	Anaxyrus microscaphus	12M	AZ, CA, NM, NV, UT
Ash Meadows pebblesnail	Pyrgulopsis erythropoma	12M	NV
Astylis sp. 1 (unnamed moth)	Astylis sp. 1	12M	AZ
Atlantic pigtoe	Fusconaia masoni	FLFCH	GA, NC, SC, VA
	Pseudanophthalmus		
Avernus cave beetle	avernus	12M	VA
Big Bar hesperian	Vespericola pressleyi	12M	CA
big red sage	Salvia pentstemonoides	12M	TX
Big Thicket Texas emerald	Somatochlora margarita	12M	LA, TX
Bigcheek cave crayfish	Procambarus delicatus	12M	FL
Black Creek crayfish	Procambarus pictus	12M	FL
			AL, AR, FL, GA, LA, MS, NC, SC,
black rail	Laterallus jamaicensis	FL	TX, VA
black-capped petrel	Pterodroma hasitata	FL	FL, GA, SC, NC, PR, VA, VI
Blanco blind salamander	Eurycea robusta	12M	TX
			IA, IL, IN, MA, ME, MI, MN,
			MO, NE, NH, NY, OH, PA, SD,
Blanding's turtle	Emydoidea blandingii	12M	WI
Blueridge springfly	Remenus kirchneri	12M	VA
bluestone sculpin	Cottus sp.	12M	VA, WV
bluestripe darter	Percina cymatotaenia	12M	MO
bog spicebush	Lindera subcoriacea	12M	AL, FL, GA, LA, MS, NC, SC, VA
		Proposed	
		Listing	
bracted twistflower	Streptanthus bracteatus	Determination	TX
Brandagee's wild buckwheat	Eriogonum brandegeei	12M	CO



Brawley's Fork crayfish	Cambarus williami	12M	TN
Burrington jumping-slug	Hemphillia burringtoni	12M	OR, WA
bush pea	Genistidium dumosum	12M	TX, Mexico
bushy whitlow-wort	Paronychia congesta	12M	TX
Caddo madtom	Noturus taylori	12M	AR
candy darter	Etheostoma osburni	FCH	VA, WV
Cannulate Cave isopod	Caecidotea cannula	12M	WV
Cascade Caverns salamander	Eurycea latitans	12M	TX
Cascade torrent salamander	Rhyacotriton cascadae	12M	OR, WA
Cascades frog	Rana cascadae	12M	OR, WA
Cascades flog	Natia Cascadae	Proposed	OR, WA
		Listing	
Chapin Mesa milkvetch	Astragalus schmolliae	Determination	со
Chelan Mountain snail	Oreohelix n. sp	12M	WA
Chesapeake logperch	Percina bimaculata	12M	MD, PA, VA
Chihuahua catfish	Ictalurus sp.	12M	TX
Chisos coralroot	Hexalectris revoluta	12M	AZ, TX, Mexico
Chowanoke crayfish	Orconectes virginiensis	12M	NC, VA
ciliate-leaf tickseed	Coreopsis integrifolia	12M	FL, GA, SC
Cisco milkvetch	Astragalus sabulosus	12M	UT
Clear Lake hitch	Lavinia exilicauda chi	12M	CA
coal darter	Percina brevicauda	12M/PLPCH	AL
Coastal Lowland cave crayfish	Procambarus leitheuseri	12M	FL
colorless shiner	Notropis perpallidus	12M	AR, OK
Columbia Oregonian snail	Cryptomastix hendersoni	12M	OR, WA
Columbia torrent salamander	Rhyacotriton kezeri	12M	OR, WA
Comal blind salamander	Eurycea tridentifera	12M	TX
Comal Springs salamander	Eurycea sp.	12M	TX
Cooper's Cave amphipod	Stygobromus cooperi	12M	wv
Correll's false dragonhead	Physostegia correllii	12M	LA, TX
crested riverlet crayfish	Hobbseus cristatus	12M	MS
,	Pseudanophthalmus		
crossroads cave beetle	intersectus	12M	VA
Crystal springsnail	Pyrgulopsis crystalis	12M	NV
	Pseudanophthalmus		
Cumberland Gap Cave beetle	hirsutus	12M	TN, VA
Cumberland moccasinshell	Medionidus conradicus	12M	AL, GA, KY, NC, TN, VA
Dalles sideband snail	Monadenia fidelis minor	12M	OR, WA
Delaware County cave			
crayfish	Cambarus subterraneus	12M	OK
docort massassura	Sistrurus catenatus ssp.	1214	AZ NIM CO TV
desert massasauga	edwardsii	12M	AZ, NM, CO, TX



distal-gland springsnail	Pyrgulopsis nanus	12M	NV
Dixie Valley toad	Bufo williamsi	12M/PLPCH	NV
Doll's daisy	Boltonia montana	12M	NJ, PA, VA
domed ancylid	Rhodacme elatior	12M	
Donrichardsonia	Kilouacille elatioi	IZIVI	AL, KY, TN
macroneuron (unnamed	Donrichardsia		
moss)	macroneuron	12M	TX
	Pseudanophthalmus		
Dry Fork Valley cave beetle	montanus	12M	wv
Dukes' skipper	Euphyes dukesi calhouni	12M	FL
	Spilogale putorius		AR, CO, MN, MO, NE, OK, SD,
eastern spotted skunk	interrupta	12M	TX, WY
Edison's ascyrum	Hypericum edisonianum	12M	FL
Edwards Aquifer diving			
beetle	Haideoporus texanus	12M	TX
elongate-gland springsnail	Pyrgulopsis isolatus	12M	NV
evening fieldslug	Deroceras hesperium	12M	OR, WA
Fairbanks springsnail	Pyrgulopsis fairbanksensis	12M	NV
false spike	Fusconaia mitchelli	12M	TX
Ferris's copper	Lycaena ferrisi	12M	AZ
flat-topped steptoe pyrg	Pyrgulopsis planulata	12M	NV
	Pituophis melanoleucus		
Florida pine snake	mugitus	12M	AL, FL, GA, SC
Florida pondweed	Potamogeton floridanus	12M	FL
Georgia blind salamander	Haideotriton wallacei	12M	FL, GA
Georgia bully (swamp		/	
buckhorn)	Sideroxylon thornei	12M/PLPCH	FL, GA
glowing Indian paintbrush	Castilleja ornata	12M	NM, MX
Godfry's stitchwort	Minuartia godfreyi	12M	AL, FL, NC, SC, TN
			AL, AR, CO, CT, DC, DE, FL, GA,
			IA, IL, IN, KS, KY, LA, MA, MD,
			MI, MN, MO, MS, NC, ND, NE, NH, NJ, NY, OH, OK, PA, SC, SD,
golden-winged warbler	Vermivora chrysoptera	12M	TN, TX, VA, VT, WI, WV
Graham's beardtongue	Penstemon grahamii	FL	UT
Great Basin silverspot	Speyeria nokomis nokomis	12M	AZ, CO, NM, UT
c. cat basiii siivei spot	Speyeria nonomis nonomis		DC, MD, NC, NJ, NY, PA, TN,
green floater	Lasmigona subviridis	12M	VA, WV
hairy-peduncled beaked-rush	Rhynchospora crinipes	12M/PLPCH	AL, FL, MS, NC
			GA, IA, IL, IN, KS, KY, MA, MI,
Hall's bulrush	Schoenoplectus hallii	12M	MO, NE, OK, SC, TX, WI
Hamlin Valley pyrg	Pyrgulopsis hamlinensis	12M	NV, UT
Harper's fimbristylis	Fimbristylis perpusilla	12M	DE, GA, MD, NC, SC, TN, VA



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Sland marble butterfly Insulanus FLFCH WA	Inyo Mountains salamander	Batrachoseps campi	12M	CA
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Isley milkvetchAstragalus iselyi12MUTJackson prairie crayfishProcambarus barbiger12MMSkarst snowflyAllocapnia cunninghami12MKY, TNKentucky creekshellVillosa ortmanni12MKYKern Canyon slender salamanderBatrachoseps simatus12MCAKern Plateau salamanderBatrachoseps robustus12MCAKey ringneck snakeacricus12MFLKiamachi crayfishOrconectes saxatilis12MOKLandyes pyrgPyrgulopsis landyei12MNVLassics lupineLupinus constancei12M/PLPCHCAlesser slender salamanderBatrachoseps minor12MCAlimestone salamanderHydromantes brunus12MCALitodonta sp. 1 nr. AlpinaLitodonta sp. 1 nr. Alpina12MAZLittle Kennedy cave beetlecordicollis12MVAlobed roachflyTallaperla lobata12MVALogan's Agarodes caddisflyAgarodes logani12MVALogan's Agarodes caddisflyAgarodes logani12MNV, UTlongitudinal gland pyrgPyrgulopsis anguina12MNV, UTlongitudinal gland pyrgPyrgulopsis anguina12MAR, OK, MOLouisiana pigtoePleurobema riddellii12MLA, TXLouisiana pine snakePituophis ruthveniPCHLA, TXlowland loosestrifeLythrum flagellare12MVAMaiden Spring cave beetlevirginicus		Euchloe ausonides		
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Little Kennedy cave beetle cordicollis 12M VA lobed roachfly Tallaperla lobata 12M VA Logan's Agarodes caddisfly Agarodes logani 12M FL longitudinal gland pyrg Pyrgulopsis anguina 12M NV, UT longnose darter Percina nasuta 12M AR, OK, MO Louisiana pigtoe Pleurobema riddellii 12M LA, TX Louisiana pine snake Pituophis ruthveni PCH LA, TX lowland loosestrife Lythrum flagellare 12M FL Pseudanophthalmus virginicus 12M VA Mammoth Spring cave beetle virginicus 12M VA Mammoth Spring crayfish Orconectes marchandi 12M AR, MO	limestone salamander	Hydromantes brunus	12M	CA
Little Kennedy cave beetle cordicollis 12M VA lobed roachfly Tallaperla lobata 12M VA Logan's Agarodes caddisfly Agarodes logani 12M FL longitudinal gland pyrg Pyrgulopsis anguina 12M NV, UT longnose darter Percina nasuta 12M AR, OK, MO Louisiana pigtoe Pleurobema riddellii 12M LA, TX Louisiana pine snake Pituophis ruthveni PCH LA, TX lowland loosestrife Lythrum flagellare 12M FL Pseudanophthalmus Maiden Spring cave beetle virginicus 12M VA Mammoth Spring crayfish Orconectes marchandi 12M AR, MO	Litodonta sp. 1 nr. Alpina	Litodonta sp. 1 nr. Alpina	12M	AZ
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longitudinal gland pyrgPyrgulopsis anguina12MNV, UTlongnose darterPercina nasuta12MAR, OK, MOLouisiana pigtoePleurobema riddellii12MLA, TXLouisiana pine snakePituophis ruthveniPCHLA, TXlowland loosestrifeLythrum flagellare12MFLPseudanophthalmus Maiden Spring cave beetlevirginicus12MVAMammoth Spring crayfishOrconectes marchandi12MAR, MO	lobed roachfly	Tallaperla lobata	12M	VA
longnose darterPercina nasuta12MAR, OK, MOLouisiana pigtoePleurobema riddellii12MLA, TXLouisiana pine snakePituophis ruthveniPCHLA, TXlowland loosestrifeLythrum flagellare12MFLPseudanophthalmus virginicus12MVAMammoth Spring crayfishOrconectes marchandi12MAR, MO	Logan's Agarodes caddisfly	Agarodes logani	12M	FL
Louisiana pigtoe Pleurobema riddellii 12M LA, TX Louisiana pine snake Pituophis ruthveni PCH LA, TX lowland loosestrife Lythrum flagellare 12M FL Pseudanophthalmus Maiden Spring cave beetle virginicus 12M VA Mammoth Spring crayfish Orconectes marchandi 12M AR, MO	longitudinal gland pyrg	Pyrgulopsis anguina	12M	NV, UT
Louisiana pine snake Pituophis ruthveni PCH LA, TX lowland loosestrife Lythrum flagellare 12M FL Pseudanophthalmus Maiden Spring cave beetle virginicus 12M VA Mammoth Spring crayfish Orconectes marchandi 12M AR, MO	longnose darter	Percina nasuta	12M	AR, OK, MO
Louisiana pine snake Pituophis ruthveni PCH LA, TX lowland loosestrife Lythrum flagellare 12M FL Pseudanophthalmus Maiden Spring cave beetle virginicus 12M VA Mammoth Spring crayfish Orconectes marchandi 12M AR, MO	Louisiana pigtoe	Pleurobema riddellii	12M	LA, TX
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Pseudanophthalmus virginicus 12M VA Mammoth Spring crayfish Orconectes marchandi 12M AR, MO	•	•	1	 '
Maiden Spring cave beetlevirginicus12MVAMammoth Spring crayfishOrconectes marchandi12MAR, MO		· ·		
Mammoth Spring crayfish Orconectes marchandi 12M AR, MO	Maiden Spring cave beetle	•	12M	VA
		-	12M	AR, MO
meadow joint-vetch Aeschynomene pratensis 12M FL	meadow joint-vetch	Aeschynomene pratensis	12M	FL



median-gland Nevada pyrg	Pyrgulopsis pisteri	12M	NV
Mexican fawnsfoot		12M	TX
	Truncilla cognata Procambarus milleri		
Miami cave crayfish		12M	FL
mimic cavesnail	Phreatodrobia imitata	12M	TX
Minute Cave amphipod	Stygobromus parvus	12M	WV
minute tryonia	Tryonia ericae	12M	NV
Morrison's Cave amphipod	Stygobromus morrisoni	12M	VA, WV
Mt. Rainer white-tailed	Lagopus leucura	4014	
ptarmigan	rainierensis	12M	WA
Narrow Cave (New River	Pseudanophthalmus	4284	1,70
Valley Cave) beetle	egberti	12M	VA
narrow-foot hygrotus diving beetle Hygrotus diversipes	Hygrotus diversines	12M	WY
beetie Hygrotus diversipes	Hygrotus diversipes Nuphar lutea ssp.	IZIVI	VVT
yellow pond-lily	sagittifolia	12M	NC, SC, VA
yenow pond-my	Pseudanophthalmus	12101	NC, SC, VA
Natural Bridge cave beetle	pontis	12M	VA
Navasota false foxglove	Agalinis navasotensis	12M	TX
neritiform Steptoe Ranch	Agaims navasotensis	12101	17
pyrg	Pyrgulopsis neritella	12M	NV
North Park bugseed	Corispermum navicula	12M	CO
northern cavefish	Amblyopsis spelaea	12M	IN, KY
northern red-bellied cooter	74msiyopsis spelaca	12141	DC, DE, MA, MD, NC, NJ, PA,
(range-wide)	Pseudemys rubriventris	12M	VA, WV
northern spotted owl	Strix occidentalis caurina	12M/Uplisting	CA, OR, WA
northern Steptoe pyrg	Pyrgulopsis serrata	12M	NV
northwestern moose	Alces alces andersoni	12M	MI, MN, ND, WI
oblong rocksnail	Leptoxis compacta	12M/PLPCH	AL
Ocmulgee skullcap	Scutellaria ocmulgee	12M	GA, SC
Oklahoma cave crayfish	Cambarus tartarus	12M	OK OK
•			
orangefin madtom	Noturus gilberti Pooecetes gramineus ssp.	12M	NC, VA
Oregon vesper sparrow	affinis	12M/PLPCH	CA, OR, WA
Ouachita burrowing crayfish	Fallicambarus harpi	12M	AR
Odacinta burrowing craynsii	Pseudanophthalmus	IZIVI	Alt
overlooked cave beetle	praetermissus	12M	VA
Ozark chub	Erimystax harryi	12M	AR, MO
Ozark shiner	Notropis ozarcanus	12M	AR, MO
Palatka skipper sawgrass or	ινοιτορίο σεατεατίας	14141	AII, IVIO
Knot's skipper	Euphyes pilatka klotsi	12M	FL
paleback darter	Etheostoma pallididorsum	12M	AR
Panama City crayfish	Procambarus econfinae	PCH	FL
, ,			
Pecos pupfish	Cyprinodon pecosensis	12M	NM, TX

		Proposed	
	Neotamias minimus	Listing	
Penasco least chipmunk	atristriatus	Determination	NM
Peppered chub	Macrhybopsis tetranemus	12M	CO, KA, NM, OK, TX
piebald madtom	Noturus gladiator	12M	MS, TN
Pinaleno talussnail	Sonorella grahamensis	12M	AZ
	Oryzomys palustris		
Pine Island rice rat	planirostris	12M/PLPCH	FL
			AL, AR, KY, LA, MS, NE, OH, OK,
pink pigtoe	Pleurobema rubrum	12M	TN, VA
Point of Rocks tryonia	Tryonia elata	12M	NV
popeye shiner	Notropis ariommus	12M	KY
Pristine crayfish	Cambarus pristinus	12M	TN
prostrate milkweed	Asclepias prostrata	12M	TX, Mexico
Puget Oregonian snail	Cryptomastix devia	12M	OR, WA
purpledisk honeycombhead	Balduina atropurpurea	12M	GA, SC
Quitobaquito tryonia	Tryonia quitobaquitae	12M	AZ
		Proposed	
rattlesnake-master borer		Listing	
moth	Papaipema eryngii	Determination	AR, IA, IL, KY, MO, NC, OK
Raven's seedbox	Ludwigia ravenii	12M	FL, NC, SC, VA
rayed creekshell	Anodontoides radiatus	12M/PLPCH	AL, FL, GA, LA, MS
			AR, CO, CT, DE, IA, IL, IN, KS,
			KY, MA, MD, ME, MI, MN, MO,
			NC, ND, NE, NH, NJ, NY, OH, OK, PA, RI, SD, VA, VT, WI, WV,
regal fritillary	Speyeria idalia	12M	WY
relict dace	Relictus solitarius	12M	NV
relictual slender salamander	Batrachoseps relictus	12M	CA
Rim Rock crowned snake	Tantilla oolitica	12M	FL
Rio Grande cooter	Pseudemys gorzugi	12M	NM. TX
Rocky Mountain	1 Scaucinys gorzagi	12101	INVI, IX
monkeyflower	Mimulus gemmiparus	12M	со
	Symphyotrichum		
rough stemmed aster	puniceum var. scabricaule	12M	LA, MS, TX
			AL, AR, GA, IL, IN, KY, MI, MS,
round hickorynut	Obovaria subrotunda	12M	OH, PA, TN, WV, Canada
Rye Cove Cave isopod	Lirceus culveri	12M	VA
	Pseudanophthalmus		
Saint Paul cave beetle	sanctipauli	12M	VA
			AR, IL, IN, KY, MI, MN, MO, NY,
salamander mussel	Simpsonaias ambigua	12M	OH, PA, TN, WI, WV, Canada
Salina mucket	Potamilus metnecktayi	12M	TX
saltmarsh topminnow	Fundulus jenkinsi	12M	AL, FL, LA, MS, TX

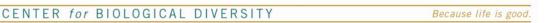


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San Xavier talussnail	Sonorella eremita	12M	AZ
sand verbena moth	Copablepharon fuscum	12M	WA
Sangre de Cristo peaclam	Pisidium sanguinichristi	12M	NM
Santa Fe cave crayfish	Procambarus erythrops	12M	FL
Sevier snowfly	Allocapnia brooksi	12M	TN
Shasta chaparral	Trilobopsis roperi	12M	CA
Shasta hesperian	Vespericola shasta	12M	CA
	Monadenia troglodytes		
Shasta sideband	troglodytes	12M/PLPCH	CA
Shenandoah (Madden's Cave)	Pseudanophthalmus		
beetle	limicola	12M	VA
short-tailed snake	Lampropeltis extenuata	12M	FL
sicklefin chub	Macrhybopsis meeki	12M/PLPCH	IL, IA, KS, KT, LA, MS, MO, MT, NE, ND, SD, TN
	Pseudanophthalmus	4014	
silken cave beetle	sericus	12M	VA
silvery phacelia	Phacelia argentea	12M	OR
		Proposed	
alviff mailly wat als	A student live weight a summer live	Listing	60
skiff milk-vetch	Astragalus microcymbus	Determination	CO
slenderclaw crayfish	Cambarus cracens	FLFCH	AL
slenderwrist burrowing crayfish	Fallicambarus notilicarnus	12M	AL
smallscale darter	Fallicambarus petilicarpus		
South Branch Valley cave	Etheostoma microlepidum Pseudanophthalmus	12M	KY, TN
beetle	potomaca	12M	VA, WV
Southeast Nevada pyrg	Pyrgulopsis turbatrix	12M	NV
southern elktoe	Alasmidonta triangulata	12M	
southern rubber boa	Charina umbratica	12M	AL, FL, GA
			CA
southern snaketail	Ophiogomphus australis	12M	FL, LA, MS
southern Steptoe pyrg	Pyrgulopsis sulcata	12M	NV
speckled burrowing crayfish	Fallicambarus danielae	12M	AL, MS
spider elimia (snail)	Elimia arachnoidea	12M	TN, VA
spiny scale crayfish	Cambarus jezerinaci	12M	KY, TN, VA
spinytail crayfish	Procambarus fitzpatricki	12M	MS
sportinggoods tryonia	Tryonia angulata	12M	NV
spot-tailed earless lizard	Holbrookia lacerata	12M	TX
			CT, DC, DE, FL, GA, IL, IN, MA, MD, ME, MI, NC, NH, NJ, NY, OH, PA, RI, SC, VA, VT, WV,
spotted turtle	Clemmys guttata	12M	Canada
Spring Mountains dark blue	e .1.9 90 - 0	4284	An.
butterfly	Euphilotes ancilla cryptica	12M	NV



Spring Mountains dark blue			
butterfly	Euphilotes ancilla purpura	12M	NV
Sterile Basin pyrg	Pyrgulopsis sterilis	12M	NV
streamside salamander	Ambystoma barbouri	12M	AL, KY, OH, TN, WV
	,		IL, IA, KS, KT, LA, MS, MO, MT,
sturgeon chub	Macrhybopsis gelida	12M/PLPCH	NE, ND, SD, TN, WY
sub-globose snake pyrg	Pyrgulopsis saxatilis	12M	UT
sub-globose Steptoe Ranch			
pyrg	Pyrgulopsis orbiculata	12M	NV
sun-facing coneflower	Rudbeckia heliopsidis	12M	AL, GA, NC, SC, VA
Sykora's Hydroptila caddisfly	Hydroptila sykorai	12M	FL
Tallapoosa orb	Quadrula asperata archeri	12M	AL
Tennessee Cave salamander	Gyrinophilus palleucus	12M	AL, GA, TN
Tennessee clubshell	Pleurobema oviforme	12M	AL, TN, KY, VA
Tennessee forestfly	Amphinemura mockfordi	12M	AL, TN
Tennessee heelsplitter	Lasmigona holstonia	12M	AL, GA, NC, VA, TN
Tennessee pigtoe	Fusconaia barnesiana	12M	AL, GA, MS, NC, TN, VA
		Proposed	
		Listing	
Texas fatmucket	Lampsilis bracteata	Determination	TX
		Proposed	
Towns forwards at	Turneille mee ave den	Listing	TV
Texas fawnsfoot	Truncilla macrodon	Determination	TX
Texas heelsplitter Texas hornshell	Potamilus amphichaenus	12M	TX
	Popenaias popeii	PCH 12M	TX
Texas kangaroo rat	Dipodomys elator	Proposed	TX
		Listing	
Texas pimpleback	Quadrula petrina	Determination	TX
Texas salamander	Eurycea neotenes	12M	TX
Texas screwstem	Bartonia texana	12M	TX
Texas troglobitic water slater	Lirceolus smithii	12M	TX
Tharp's bluestar	Amsonia tharpii	12M	NM, TX
thin-wall quillwort	Isoetes microvela	12M	NC NC
	Pseudanophthalmus		
Thomas' cave beetle	thomasi	12M	VA
three-toothed long-horned			
caddisfly (triaenodes)	Triaenodes tridontus	12M	AL, FL, OK
Tidewater amphipod	Stygobromus indentatus	12M	MD, NC, VA
Tombigbee Riverlet crayfish	Hobbseus petilus	12M	MS
toothless blindcat	Trogloglanis pattersoni	12M	TX
triangle pigtoe	Fusconaia lananensis	12M	TX

tricolored bat	Perimyotis subflavus	12M/PLPCH	AL, AR, CO, CT, DC, DE, FL, GA, IA, IL, IN, KS, KY, LA, MA, MD, ME, MI, MN, MO, MS, NC, NE, NH, NJ, NM, NY, OH, OK, PA, RI, SC, SD, TN, TX, VA, VT, WI, WV; Canada (New Brunswick, Nova Scotia, Ontario, Quebec), Mexico (Eastern and southern regions: Coahuil
Trispot darter	Etheostoma trisella	FCH, 4D	AL, TN, GA
tufted puffin		12M	CA, OR, WA
Venus flytrap	Dionaea muscipula	12M/PLPCH	NC, SC
Virginia stone	Acroneuria kosztarabi	12M	KY, OH, VA
water stitchwort	Stellaria fontinalis	12M	KY, TN
Weber whitlowgrass	Draba weberi	12M	CO
West Virginia spring			
salamander	Gyrinophilus subterraneus	12M	WV
western bumble bee	Bombus occidentalis	12M	AZ, CA, CO, ID, MT, ND, NE, NM, NV, OR, SD, UT, WA, WY
	Deirochelys reticularia		
western chicken turtle	miaria	12M	AR, LA, MO, MS, OK, TX
western fanshell	Cyprogenia aberti	12M	AR, KS, LA, MO, MS, OK
western pond turtle	Actinemys marmorata	12M	CA, OR, WA, Mexico
western spadefoot toad	Spea hammondii	12M	CA
Wet Canyon talussnail	Sonorella macrophallus	12M	AZ
White River beardtongue	Penstemon scariosus albifluvis	FL	UT
White Sands pupfish	Cyprinodon tularosa	12M	NM
whitebark pine	Pinus albicaulus	Proposed Listing Determination	CA, ID, MT, NV, OR, WA, WY
White-tailed ptarmigan	Lagopus leucura altipetens	12M	CA, CO, ID, MT, NM, UT, WA, WY
widemouth blindcat	Satan eurystomus	12M	TX
NA/indus aid also and	Monadenia troglodytes	12N4/DLDCLI	
Wintu sideband wood turtle	ssp. Wintu Glyptemys insculpta	12M/PLPCH	CA CT, DC, IA, MA, MD, ME, MI, MN, NH, NJ, NY, OH, PA, RI, VA, VT, WI, WV, Canada
Wright's marsh thistle	Cirsium wrightii	Proposed Listing Determination	NM
Yalobusha Riverlet crayfish	Hobbseus yalobushensis	12M	MS
Yazoo crayfish	Orconectes hartfieldi	12M	MS





Yellow lance	Elliptio lanceolata	PCH	MD, NC, SC, VA
yellow-sided clubtail	Stylurus potulentus	12M	FL, MS

Key

12M: 12-month finding determining if species warrants listing

Proposed listing determination: Applies to current candidate species.

FL: Final listing

PCH: Proposed critical habitat FCH: Final critical habitat