

Table No. I

Countries W. & N. of India

Countries S. & W. of India.

	No. of spp. in each genus	Countries W. & N. of India								Countries S. & W. of India.								Further distribution		
		Egypt	Arabia	Syria, Pales- tine, Asia- minor, etc.	Aralo-Turkis- tan	N. Asia	Persia	Afghanistan	Tibet	INDIA	Endemic in India	Ceylon	Malay penin- sula and is- lands	Indo-China & Siam	China	Japan	Formosa		Philippines	
<u>I Ocimoideae</u>																				
Ocimum	60	1	1	2				1	1		6	2	4	4	3	3		3	2	
Orthosiphon	100		1								13	11	2	1	8	4			1	
Mesona	8										1	1			2	2		1	2	
Acrocephalus	40										4	3		1	1	2			2	
Geniosporum	15										3		2		2	1				
Platystoma	4										1									
Moschosma	6										1		1	1	1	1		1	1	
Nosema	5										1				4	2				
Ceratanthus	8										1				6	1				
Plectranthus	110	1						4		1	2	32	22	7	1	10	32	5	1	1
Coleus	100											8	1	4	1	4	3		3	14
Anisochilus	18											14	11	3		3	2			
Hyptis	300											4		1	2	2			4	4
Lavandula	28	4	7	3								2	2							
<u>I Satureineae</u>																				
Pogostemon	45																			
Dysophylla	22																			
Colebrookia	1																			
Perilla	3																			
Mentha	30	2	2	4	2	6	5	2	2											

Further distribution

Tropics of Old world.

Trop. Africa

Trop. Africa

Africa

Trop. Africa

So.

One in Australia

Trop. Africa, Australia

One in Trop. Africa

All tropical American.

Europe

Australia

Europe, Africa

Europe, Abyssinia.

Table No. I (Contd.)

Countries W. & N. of India

Countries S. & ^EW of India

		No. of spp. in each genus	Egypt	Arabia	Syria, Palestine, Asia-Minor, etc.	Aralo-Turkistan	N. Asia	Persia	Afghanistan	Tibet	INDIA	Endemic in India	Ceylon	Malay peninsula and islands	Indo-China & Siam	China	Japan	Formosa	Philippines	Further distribution
<u>II Satureineae</u> (Contd.)	Elsholtzia	30									14	7				19	1	2		
	Zataria	2						1	1		2									
	Hyssopus	1					1	1	1		1							1		
	Origanum	30(?)	1	1	10	1	1	2	1		1					1		1		Europe, one American.
	Thymus	40	2	4	8	3	1	3		1	1					2				Europe, Africa, America
	Satureia	20			4		2	6	1		1					4	5	2		Europe N. Africa
	Micromeria	60	1	1	9		1	1	1	1	3	2								Cosmop., mostly European.
	Calamintha	60			9		1	7	1	1	5	1	1	1	2				1	N. Temp. zone. &
	Melissa	7	1	1	1	1		1			2	1			1	1		1		Europe.
	Mosla	12									1				5	3	6	2	1	
	Lycopus	12			1		6	6			1					2	4	1		N. temp. region.
<u>II Monardeae</u>	Perowskia	3				1		1	2	2	2									Europe.
	Meriandra	2		1							2	1								Tropical Africa, Abyssinia.
	Salvia	530	8	10	47	2	2	45	11	3	24	8	2	2	2	42	8	4	2	Europe mostly, cosmopolitan.
	Ziziphora	12		3	6	2	3	6	2		2									Europe.
<u>V Nepeteae</u>	Nepeta	150			20		7	40	19	14	41	14			1	11	4			Europe, N. Africa, Abyssinia
	Dracocephalum	50			1	8	4	5		6	9	3			1	10	1			N. temp. region, 2 or 3 in America.

Table No. I (Contd.)

Countries W. & N. of India

Countries S. & ^{E.}W. of India.

	No of spp. in each genus	Countries W. & N. of India													Countries S. & ^{E.} W. of India.					Further distribution
		Egypt	Arabia	Syria, Palestine, Asia minor, etc.	Aralo-Turkistan	N. Asia	Persia	Afghanistan	Tibet	INDIA	Endemic in India	Ceylon	Malay peninsula and islands	Indo-China & Siam	China	Japan	Formosa	Philippines		
<u>IV Nepeteae</u> (Contd.)																			Europe, Mediterranean region.	
<u>V Stachydeae</u>																				
Scutellaria	200		1	6	4	14	9	4		22	12	3	1	11	22	12	3	3	Cosmopolitan, mostly in N. Hemisphere.	
Brunella	4			3		1	2	1	1	1		1	#	1	1	1	1			
Marrubium	40	2	2	18		1	13	1	1	2					1				Europe, N. Africa, 1 in America	
Chamaesphacos	4				1			4		1									Europe.	
Craniotome	1									1		2		1	1					
Anisomeles	8									4	2	2	2	1	1		1	1	Australia	
Achyrospermum	12									1								1	Tropical Africa	
Colquhounia	3									2				2	3				Abyssinia	
Molucella	3			3						1	1									
Otostegia	10	1	1	3		2	3			2	1								Abyssinia	
Galeopsis	7			7	1	2		1	1	1					1		1			
Lagochilus	22			7	14	1	7	1		1					#					
Lamium	40	1	1	15	1	3	10	1	2	3					4	3	1			
Eriophyton	1								1	1					1					
Leucas	110	1	2	1				1		43	32	6	3	7	4		2	5		
Leonotis	20	1								1		1	1	1					Tropical + S. Africa.	
Microtoena	7									2	1			1	6					

Table No. I (Contd.)

Countries W. & N. of India

Countries S. & ^{E.} W. of India.

		No of spp. in each genus	Egypt	Arabia	Syria, Pales- tine, Asia minor, etc.	Aralo-Turki stan	N. Asia	Persia	Afghanistan	Tibet	INDIA	Endemic in India	Ceylon	Malay penin- sula and is- lands	Indo-China & Siam	China	Japan	Formosa	Philippines	Further distribution.
<u>V Stachydeae</u> (Contd.)	Stachys	210	1	3	38	1	3	23	4	2	10	1	1		2	6	1	2		
	Paralamium	1						2			1					1				
	Paraphlomis	4									1		1		2	2	1	2	1	
	Leonurus	8			1	1	4	#			2			1	1	2	2		1	
	Phlomis	70	1	3	20	2	4	18	5	2	11	6				12				
	Eremostachys	41	1		2	30		6	6	.	6	1								
	Roylea	1									1	1								
	Notochaete	1									1						1			
<u>VI Prasieae</u>	Gomphostemma	30									22	7		5	9	6			1	
<u>II Ajugoideae</u>	Leucosceptrum	2								1	1				1	2				
	Teucrium	100	3	5	22		4	10	3		17	9	1		5	8	5		1	Mostly Europe (Mediterranean).
	Rubiteucris	1	1								1					1				
	Ajuga	40		2	8			6	3		5	1			1	10	13	4	1	
	Eurysolen	1									1					1				
	Cymaria	3									2	1		1	1				1	

A DECADE OF NEW SPECIES OF

LABIATEAE.

From

INDIA, BURMA AND TIBET.

by

S. K. Mukerjee.

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1. Acrocephalus palmⁿensis Mukerjee Sp. nov. Species ex affinitate A. indica O. Kurz Benth, a qua foliis superioribus fere sessilibus basi multo latioribus textura crassioribus utrinque scaberrimis, spicis plerumque magis elongatis, bracteis medianis conspicuis recedit.

Herba erecta, 20-40 cm. alta, basi paulo lignosa, ramis quadrangularibus sulcatis puberulis. Folia breviter petiolata, 2-4.5 cm. longa, 5-12 cm. lata, anguste ovata vel obovata, apice acuta vel nunc obtuse, basi late cuneata, margine serrata, pilis scabridis utrinque conspersa, subtus ad venas densius; petiolus 1-3 mm. longus paulo alatus. Flores in spicas terminales cylindricas dense villosas 1-2 cm. longas, 6-10 mm. latas arcte aggregati; bractee ovatae mucronatae 6 mm. longae, 7 mm. latae, dense villosae atque glandulosae, 12-15-florae. Calyx campanulatus, glandulosus extra villosus 2 mm. longus; labium inferius superiore integro multo brevius. Dentibus quatuor erectis acuminatis ciliatis praeditum; in fructu calyx ad 4 mm. longus. Corollae tubus paulo exsertus 2.5 mm. longus. Stamina filamenta anteriora 1.5 mm. longa, posteriora 1 mm.; antherae reniformes. Stylus 2 mm. longus. Nuculae .7-.8 mm. longae, ovoideae, atrobrunneae, striatae, punctulatae.

Habitat:- Upper Palnis, Fischer 3001 & 3064, m. alt.

2. Acrocephalus verbenaefolius Watt Mss. Descript. Mukerjee. Species inter affines indicas valde distincta; proxima est A. spicatus C. B. Rob. ex insulis philippinensibus qui foliis glabris vel fere glabris inter alea differt.

Herba erecta, 50-70 cm. alta, internodiis praelongis,

ramis quadrangularibus sulcatis plus minusve scabridis.
Folia linearia vel anguste lanceolata, 3-8 cm. longa, 2-5 mm.
lata, sessilia vel subsessilis, basi sensim angustata, apice
acuta vel nunc acuminata, margine dentibus subremotis serrata,
utrinque plus minusve strigosa, glandulis bene notata, venis
in deutes excurrentibus infra conspicuis. Flores in spicas
terminales continuas dense villosas 1-3 cm, vel nunc 6-10 cm.
longas 6-12 mm. latas compositi; bracteae sessiles membranaceae
late ovatae mucronatae, 5 mm. longae, 7 mm. latae, pubescentes
atque glandulosae. Calyx campanulatus, 2 mm. longus, extra
dense villosus; labium superius margine serratum; labium
inferius dentibus 4 erectis acuminatis subaequalibus ciliatis
praeditum; in fructa calyx ad 5-6 mm. auctus. Corollae
albae vel pallido-flavae tubus gracilis paulo exsertus 2.5 mm.
longus, labium superius subaequaliter 4-lobatum, inferius in-
tegrum. Filamenta anteriora 1.5 mm. longa, posteriora 1 mm.
Stylus 2 mm. longus. Nuculae .7-.8 mm. longae, ovoideae,
atro-brunneae, minute tuberculata.

Habitat:- Manipur, Watt (Kongalthana) 6632, and Meebold 6100.
Burma, Shweli valley, A. Rodger 108, Durer Vka, Lt. Sidney
Toppin, R.A., 4197, Kachin Hills Shaik Mokim 45 and Meebold
7643; Cachar, Prazer; E. Bengal, Griffith.

3. Dysophylla kachinensis Mukerjee, sp. nov. Species valde
affinis D. Helferi Hook. f. a qua foliis 3-natis minoribus
lanceolatis margine paulo revolutis spicis gracilioribus,
calyce nuculisque minoribus divergit.

Herba erecta nana, circ. 20 cm. alta, caule ramisque
gracilibus strictis glabris. Folia 3-nata, sessilia, 8-13

mm. longa, lanceolata, acuta, margine remote serrulata atque paulo revoluta (saltem in sicco), utrinque glabra, infra dense glanduloso-punctata, spicae numerosae, ramulos terminantes, 1-2.5 cm. longae, circ. 3 mm. latae, bracteis lanceolatis dense pubescentibus circ. 1 mm. longis. Calyx campanulatus in fructu 1 mm. longus, pubescens, dentibus triangularibus tubum medium aequantibus. Corolla ex collectore rubida, vix 1 mm. longa, tubo campanulato paulo exserto, labiis brevissimis, superiore longiore. Nuculae 3 mm. longae, orbiculares, brunneae, leves, nitidae.

Habitat:- Kachin Hills, Upper Burma, at Nakkaran, near Water. Dec. 1899. Shaik Mokim No. 52. Types in Herb. Calc. Also Metkna, Kachin Hills, Shaik Mokim No. 34.

4. Salvia Lacei Mukerjee, sp. nov. Species valde affinis S. santolinaefoliae Boiss. a qua foliis deltoideo-ovatis subtus conspicue glandulosis facile distinguitur; inter alia signa calyce valde glanduloso, labii superioris dentibus strictis notata; in S. santolinaefolia dentes laterales ad medianum flectuntur.

Suffrutex nanus, ut videtur 20 cm. altus, ramulis numerosis strictis divaricatis gracilibus juventute dense albido-pubescentibus. Folia minima, petiolata, textura firma, rugosa; lamina deltoideo-ovata, obtusa, crenata 3-5 mm. longa, 2-4 mm. lata, utrinque minute hispida, subtus conspicue glandulosa; petiole inferiores laminam aequantes, superiores paulo breviores. Racemi terminales breves, nunc paniculati; bractee circ. 1.5 mm. longae, ovatae, ciliatae. Calyx tubuloso-campanulatus, 3.5 mm. longus, fructu ad 5-6 mm.

auctus, longe villosus, glandulis conspicuis sessilibus indutus; labium superius 3-dentatum, inferius 2-dentatum; dentes omnes triangulares, stricti, tubo multo breviores. Corolla 6-7 mm. longa, tubo exserto exannulato. Nuculae 1.75 mm. longae, elliptico-obovatae, nigrae, leves. Habitat:- Baluchistan, Chappar Rift, Lace 3967.

5. Scutellaria assamica Mukerjee sp. nov. Species affinis S. khasianae Clarke a qua habitu graciliore, caulibus simplicibus, foliis acuminatis margine serratis nec crenatis, bracteis lanceolatis integris ciliatis, corolla longiore recedit, a S. scandente Don ex Himalaya septentrionali caule graciliore eramoso obscure quadrangulari vel tereti, bracteis omnibus integris inter alia divergit.

Herba erecta gracilis, 30-45 cm. alta, sparse pilosa vel glabrescens. Folia petiolata; lamina 3-6 cm. longa, 1-3 cm. lata, anguste ovata, acuminata vel nunc acuta, basi rotundata margine serrata, utrinque sparse pilosa subtus ad nervos densius; petiolus gracilis, vulgo, .5-1 cm. longus, nunc 3 cm. Flores pauci, oppositi, secundi, in racemos laxos terminales dispositi; bracteis lanceolatis integris ciliatis inferioribus 5-7 mm. longis supra decrescentibus, pedicellis 2 mm. longis fructu ad 4 mm. auctis. Calyx 2.5 mm. longus, dense pubescens. Corolla circ. 2.5 cm. longa, minute pilosula vel glabrescens, albido-purpurea; tubus rectus infra gracilis supra scusim inflatus; labia brevissima. Filamenta glabra, Nuculae 1 mm. diametro, nigrae, tuberculatae.

Habitat:- Assam, - Kohima, Naga Hills King's collector, Typus in Herb. Cal. Konoma, Naga Hills Prain, (alt. 15-24 m.) Lushai Hills Mrs. Parry. Kapon, Manipur, Meebold No. 6464, (alt. 2132 m.).

6. Phlomis Younghusbandii Mukerjee. Species arcte affinis P. bracteosae Royle atque P. tibeticae Marquand et Shaw a quibus caule plus minusque teret; foliis carnosulis utrinque pilis stellatis conspersis facile cognoscitur; planta diu cum P. bracteosa confusa atque in herbariis sub eo nomine locata.

Herba erecta vel suberecta, 20-35 cm. alta, caule subtereti pilis stellatis atque simplicibus brunneo-tomentoso, basi lignosa. Folia petiolata; lamina 3-5 cm. longa, 2-3 cm. lata, elliptica vel oblonga, obtusa, basi rotundata vel truncata vel nunc cuneata vel etiam cordata, arcuata, carnosula, rugosa, supra dense pubescens, infra pilis stellatis bene conspersa; petiolus 3-5 cm. longus vel in foliis supremis multo brevior. Verticillastri 2-2.5 cm. lati; bracteae lineares, calycem aequantes, ciliatae. Calyx truncatus, 10-12 mm. longus, dense pubescens, dentibus 2 mm. longis triangularibus. Corolla 15 mm. longa, extra albo-villosa; tubus gracilis, calycem aequans, intus annulatus; galea pilis longis albidis dense barbata. Nuculae obovata, 2 mm. longa, nigra.

Habitat:- Thibet, Dr. King's collectors, 1882; Khamibajong, Younghusband No. 106; Kambajong, Major Prain; Gyantse Walton; Dochim Hills, Stewart; Hills above Lasha, Walton; Phari Gould, No. 21.

7. Phlomis burmanica Mukerjee sp. nov. Species habitu atque pubescentia P. tibeticae Marquand et Shaw similis a qua calycis dentibus haud spinosis, corolla exannulata, galea pilis albidis villosa, staminibus styloque brevibus corolla inclusis inter alia recedit; a P. bracteosa Royle habitu humiliore, calyce espinosa, corolla exannulata praeter alia

signa removitur.

Herba parva suberecta, 20-30 cm. alta, simplex vel caudice valido multiramosa, caulibus flexilibus haud rigidis obscure quadrangularibus sparse villosis vel pubescentibus. Folia longe petiolata; lamina 4-7 cm. longa et lata, late ovata, apice rotundata, basi late atque breviter cordata, crenata, utrinque pilis patentibus villosa; petiolus vulgo, 5-9 cm. longus, nunc paulo brevior, plus minusve villosus. Verticillastri circ. 2.5 cm. diametro; bracteae lineares calycem aequantes, villosae. Calyx 10 mm. longus, truncatus, pilis brunneis pubescens, dentibus 1.5 mm. longis triangularibus haud spinosis. Corolla 14-17 mm. longa, extra sparse pubescens, intus labio superiore dense albo-villosa, tube gracili exannulato, labio superiore 6-8 mm. lato margine serrulato. Filamenta tubo corollino inclusa, inferiora 2 mm. longa, superiore 1 mm. Stylus 6 mm. longus, rectus, apice breviter bifidus lobis aequalibus divergentibus.

Habitat:- Upper Burma:- "plants of 20-25 cm. Flowers exterior pale rose." Alpine meadows, 2750 m. Htawgaw Bum, worth of Htawgaw, Lat. 26° 10' N., Long. 78° 25' E., Forrest No. 24538; N. Maikha-Salwin divide, N. of Chinili 26° 35' N., 98° 48' E. Forrest No. 26812, alt. 3655 m.; Hpawsi Bum, R.A. 1061, alt. 3707 m.; Nawng Chawng, Nawai Divide, Ward 1800, alt. 3655-3900 m.

8. Gomphostemma Lacei Mukerjee, sp. nov. Species affinis G. parviflora Wall. a quo foliis apice late rotundatis facile cognoscitur; inter alia signa caule sulcato foliis latissimis saepe suborbicularibus subintegris vel obscure serratis,

petiolis longioribus, bracteis obovato-cuneatis serratis a socio separatur.

Herba erecta pilis stellatis cinereo-tomentosa. Caulis obtuse quadrangularis alte sulcatus. Folia longa petiolata, suborbicularia vel elliptico-ovata, apice late rotundata basi abrupte cuneata, margine subintegra vel obscure sinuato-serrata, supra pilis simplicibus bene praedita, subtus pilis stellatis parvis induta; lamina 15-28 cm. longa, 9-16 cm. lata; petiolus ad 9 cm. longus, robustus, stellato-tomentosus. Flores breviter pedicellati, in spicas axillares et terminales 3-4 cm. longas laxè dispositi; bractee 10-12 mm. longae, obovato-cuneatae, serratae nisi ad basim, supra glabrescentes, infra tomentosae; bracteolae lineares. Calyx 8-9 mm. longus, campanulatus, intra pubescens extra tomentosus, dentibus lanceolatis tubo paulo brevioribus. Corolla 20-24 mm. longa, extra sparsim puberula, tubo recto 12 mm. longo, limbo 4 mm. lato, labio superiore 5 mm. longo, inferiore 6 mm. longo 7 mm. lato, Stylus glaber. Nuculae desunt.

Habitat:- Burma, N. Shan States (near Masam Falls), Lace 1322.

9. Teucrium burmanicum Mukerjee sp. nov. Species ex affinitate T. quadrifarii Buch. Ham. a quo foliis membranaceis haud rugosis oblongis vel elliptico-oblongis, bracteis calycem aequantibus divergit; corollae tubo incluso, bracteis deltoideo-ovatis basi; cordatis cum ea specie congruit.

Planta erecta gracilis, ut videtur 30 cm. alta vel ultra, caule dense ferrugineo-tomentoso obtuse quadrangulati vel subterete. Folia petiolata, membranacea, anguste oblonga vel

elliptico-oblonga, acute vel obtusa, basi rotundata vel subcordata, serrata, utrinque minute hirsuta; lamina 3-7 cm. longa, 1.5-2.5 cm. lata; petiolus 1-2.5 cm. longus. Racemi laxiflori, terminales vel axillares, paniculas 10-16 cm. longas formantes, bracteis ovatis cordatis acuminatis, supra glabris infra villosis calyce minoribus vel nunc aequantibus. Calyx 5 mm. longus, tubuloso-campanulatus, extra villosus, intra paucibus sparsim setosus, dente superiore rotundato apiculato, lateralibus obtusis, inferioribus lanceolatis acuminatis. Corolla alba, 12 mm. longa, tubo incluso, lobis lateralibus atque superioribus acutis, inferiore multo longiore ovato apiculato. Filamenta glabra. Nuculae globosae, 1 mm. diametro, rugosae, glabrae.

Habitat:- Burma, Madoe hill, C. Mandul No. 103; Makhaye Hill, Dr. King's collectors.

10. Teucrium shanicum Mukerjee, sp. nov. Species affinis T. Wattii Prain a quo petiolo multo brevioribus floribus flavis differt; quoad bracteas cum ea specie congruit; T. quadrifarium Buch. Ham. habitu subsimile bracteas omnino diversus habet.

Herba erecta gracilis, probabiliter 35 cm. alta vel ultra, caule subtereti dense brunneo-tomentoso. Folia petiolata, ovata vel oblonga, acuta vel obtusa, basi rotundata, dentibus patentibus serrata, supra puberula, infra laxe hirsuta; lamina 6-9 cm. longa, 2-5 cm. lata; petiolus .7-1.5 cm. longus. Racemi laxiflori terminales et axillares, circ. 6-7 cm. longi, bracteis lanceolatis acutis basi cuneatis supra glabris infra pubescentibus inferioribus circ. 6 mm. longis; pedicelli

calyce breviores. Calyx 5 mm. longus, extra pilis simplicibus atque glanduloso-capitatis dense pubescens, faucibus sparsim setosus, dente superiore rotundato, lateralibus brevioribus triangularibus obtusis, inferioribus lanceolatis acutis superiore paulo longioribus. Corolla ex collectore flava, 12 mm. longa, tubo incluso, lobis quatuor acutis, infimo ovato apiculato. Filamenta puberula. Nuculae globosae, 1 mm. diametro, atrobrunneae.

Habitat:- Burma, Shan States, Abdul Huk.

TABLE. II.



DISTRIBUTION OF SPECIES

FAMILY:— GENUS:— <u>ANISOCHILUS (Wall)</u>	IN INDIA											OUTSIDE INDIA							ENDEMIC		REMARKS						
	DECCAN	MALABAR	INDUS PLAIN		GANGETIC PLAIN			ASSAM	EASTERN HIMALAYAS	CENTRAL HIMALAYAS	WESTERN HIMALAYAS	CEYLON	BURMA	MALAYA; JAVA; BORNEO; PHILIPPINES	SOUTH-WEST CHINA	TIBET	EAST CHINA, JAPAN	WESTERN ASIA	COSMOPOLITAN	AFRICA		CONTINENTAL INDIA	HIMALAYAS				
			Dry	Humid	Upper dry	Lower humid	Sundarbans																				
<i>A. argenteus</i> , Gamble.		X																									
<i>A. carnosus</i> , Wall.	X				X						X	X	X														
<i>A. dysophylloides</i> , Benth.	X																					X					
<i>A. ericephalus</i> , Benth.	X				X																	X					
<i>A. pallidus</i> , Wall.									X				X									X	X				
<i>A. paniculatus</i> , Benth.	X	X																									
<i>A. plantagineus</i> , Hook.f.	X										X											X					
<i>A. polystachyus</i> , Benth.								X	X	X												X	X				
<i>A. robustus</i> , Hook.f.		X																				X					
<i>A. scaber</i> , Benth.	X	X																				X					
<i>A. sericeus</i> , Benth.		X																				X					
<i>A. suffruticosus</i> , Wright.	X	X																				X					
<i>A. verticillatus</i> , Hook.f.	X																					X					
<i>A. Wrightii</i> , Hook.f.	X	X																				X					
<u>HYPTIS (Jacq)</u>																											
<i>H. brevipes</i> Poit																											
<i>H. capitata</i> , Jacq.					X									X													
<i>H. pectinata</i> , Poit.	X				X			X													X						
<i>H. suaveolens</i> , Poit.	X							X																			
<u>LAVENDULA (Linn)</u>																											
<i>L. Burmanni</i> , Benth.	X	X																				X					
<i>L. Gibsoni</i> , Grah.	X	X																				X					
<u>POGOSTEMON (Desf.)</u>																											
<i>P. amarantoides</i> , Benth.								X	X													X	X				
<i>P. atropurpureus</i> , Benth.	X	X																				X					
<i>P. brachystachyus</i> , Benth.								X				X										X					
<i>P. elsholtzioides</i> , Benth.								X	X						X							X					
<i>P. fraternus</i> , Miquel.								X	X				X	X													
<i>P. Gardneri</i> , Hooker.	X	X						X	X	X												X					
<i>P. glaber</i> , Benth.								X	X	X												X			X		
<i>P. Griffithii</i> , Prain.														X								X					
<i>P. Heyneanus</i> , Benth.		X												X	X												
<i>P. hispidus</i> , Prain.								X					X									X					

Andamans.
All American

DISTRIBUTION OF SPECIES

FAMILY:— GENUS:— <u>THYMUS. (Linn)</u>	IN INDIA										OUTSIDE INDIA							ENDEMIC		REMARKS						
	DECCAN	MALABAR	INDUS PLAIN		GANGETIC PLAIN			ASSAM	EASTERN HIMALAYAS	CENTRAL HIMALAYAS	WESTERN HIMALAYAS	CEYLON	BURMA	MALAYA; JAVA; BORNEO; PHILIPPINES	SOUTH-WEST CHINA	TIBET	EAST CHINA, JAPAN	WESTERN ASIA	COSMOPOLITAN		AFRICA	CONTINENTAL INDIA	HIMALAYAS			
			Dry	Humid	Upper dry	Lower humid	Sundarbans																			
<u>T. Serpyllum, Linn.</u>																									Europe	
<u>SATUREIA. (Linn.)</u>																										Europe + America
<u>S. hortensis, Linn.</u>																										
<u>MICROMERIA. (Benth)</u>																										
<u>M. biflora, Benth.</u>	x							x	x	x								x		x						
<u>M. capitellata Benth.</u>	x	x			x						x											x	x			
<u>M. hydaspidis, Yalc.</u>											x													x		
<u>M. Perottetii, Gandoger</u>																										? sp.
<u>CALAMINTHA (Moench)</u>																										
<u>C. clinopodium, Benth.</u>																			x		x					Europe + Canada
<u>C. longicaulis, Benth.</u>																								x		
<u>C. umbrosa, Benth.</u>	x							x	x	x	x	x						x	x							
<u>C. gracilis, Benth.</u>								x					x													
<u>MELISSA (Linn)</u>																										
<u>M. flava, Benth.</u>									x	x	x														x	
<u>M. parviflora Benth.</u>								x	x	x	x		x													
<u>MOSLA. (Buch. Ham)</u>																										
<u>M. dianthera, Maximov.</u>								x	x	x	x		x													
<u>LYCOPUS. (Linn)</u>																										
<u>L. europaeus, Linn.</u>																										
<u>PEROWSKIA. (Karel)</u>																										
<u>P. abrotanoides, Kiril.</u>																										
<u>P. atriplicifolia, Benth.</u>																										(Baluchistan).
<u>P. artemesiodes, Boiss.</u>																										= P. atriplicifolia.

DISTRIBUTION OF SPECIES

FAMILY:— GENUS:— <u>NEPETA</u> (Linn.)	IN INDIA											OUTSIDE INDIA							ENDEMIC		REMARKS				
	DECCAN	MALABAR	INDUS PLAIN		GANGETIC PLAIN			ASSAM	EASTERN HIMALAYAS	CENTRAL HIMALAYAS	WESTERN HIMALAYAS	CEYLON	BURMA	MALAYA; JAVA; BORNEO; PHILIPPINES	SOUTH-WEST CHINA	TIBET	EAST CHINA, JAPAN	WESTERN ASIA	COSMOPOLITAN	AFRICA		CONTINENTAL INDIA	HIMALAYAS		
			Dry	Humid	Upper dry	Lower humid	Sundarbans																		
<i>N. bombaiensis</i> , Dalz.		x																					x		
<i>N. bracteata</i> , Benth.			x																x						
<i>N. campestris</i> , Benth.				x							x													x	
<i>N. Cateria</i> , Linn.			x								x								x						
<i>N. ciliaris</i> , Benth.				x							x													x	
<i>N. Clarkei</i> Hook.f.											x													x	
<i>N. coerulea</i> , Maxim.									x							x									
<i>N. connata</i> , Royle & Benth.											x													x	
<i>N. discolor</i> , Benth. & Hook.f.											x													x	
<i>N. distans</i> , Benth.			x								x									x					
<i>N. erecta</i> , Benth.				x							x								x					x	
<i>N. eriostachya</i> , Benth.											x													x	
<i>N. elliptica</i> , Royle & Benth.											x													x	
<i>N. floccosa</i> , Benth.											x													x	
<i>N. glomerulosa</i> , Boiss & Hook.f.			x								x									x				x	
<i>N. glutinosa</i> , Benth.											x					x									
<i>N. Goraniana</i> , Benth.				x							x														
<i>N. graciliflora</i> , Benth.				x							x														
<i>N. grata</i>, Benth.																									
<i>N. lagopsis</i> , Benth.			x								x									x					
<i>N. lamiopsis</i> , Benth.									x							x									
<i>N. leucolaena</i> , Benth.											x					x									
<i>N. leucophylla</i> , Benth.											x														
<i>N. linearis</i> , Royle & Benth.											x														
<i>N. longibracteata</i> , Benth.											x														
<i>N. mollis</i> , Benth.			x								x									x					
<i>N. nervosa</i> , Royle & Benth.											x									x					
<i>N. nivalis</i> , Benth.											x									x					
<i>N. pharica</i> , Prain.									x							x									
<i>N. pinetorum</i> , Hitchison & Hem.											x									x					
<i>N. podostachys</i> , Benth.											x									x					
<i>N. Prainii</i> , Duthie.											x													x	
<i>N. pubescens</i> , Benth.																									
<i>N. raphanorrhiza</i> , Benth.											x									x					
<i>N. ruderalis</i> , Hamilt.		x	x		x	x					x									x					= <i>N. hindostana</i> (Pit.) Hance
<i>N. rugosa</i> , Benth.			x																	x					
<i>N. salviaefolia</i> , Rl. & Benth.											x					x				x					
<i>N. spathulifera</i> , Benth.			x								x									x					

DISTRIBUTION OF SPECIES

FAMILY:—

GENUS:— NEPETA, (Contd).

	IN INDIA										OUTSIDE INDIA										ENDEMIC		REMARKS	
	DECCAN	MALABAR	INDUS PLAIN		GANGETIC PLAIN			ASSAM	EASTERN HIMALAYAS	CENTRAL HIMALAYAS	WESTERN HIMALAYAS	CEYLON	BURMA	MALAYA; JAVA; BORNEO; PHILIPPINES	SOUTH-WEST CHINA	TIBET	EAST CHINA, JAPAN	WESTERN ASIA	COSMOPOLITAN	AFRICA	CONTINENTAL INDIA	HIMALAYAS		
			Dry	Humid	Upper dry	Lower humid	Sundarbans																	
<i>N. spicata</i> , Benth.											x							x						
<i>N. supina</i> , Stev.											x					x		x						
<i>N. thibetica</i> , Benth.											x					x								
<i>N. suaveolens</i> Stapf.											x							x						
<i>N. chenopodiifolia</i> Stapf.		x									x							x						
<u>DRACOCEPHALUM (Lin.)</u>																								
<i>D. breviflorum</i> Turill.																								= <i>N. curulesans</i>
<i>D. glechonifolium</i> , Dunn.											x													
<i>D. Hemsleyanum</i> , Prain.									x							x						x		
<i>D. heterophyllum</i> , Benth.											x					x								Turkistan.
<i>D. moldavicum</i> , Lin.											x													
<i>D. nutans</i> , Lin.											x													Central Asia.
<i>D. Ruprechtii</i> , Regel.											x					x								
<i>D. speciosum</i> , Benth.									x	x	x					x								
<i>D. stamineum</i> , K. & K.											x					x								
<i>D. tanguticum</i> , Maxim.									x							x	x							
<u>LALLEMANTIA (Fischer & Mey)</u>																								
<i>L. Royleana</i> , Benth.			x	x							x							x		x				
<u>SCUTELLARIA (Lin.)</u>																								
<i>S. Colebrookiana</i> , Benth.	x	x																				x		
<i>S. discolor</i> , Coleb.	x	x					x	x	x	x		x	x											
<i>S. galericulata</i> , Linn.											x							x		x				
<i>S. glandulosa</i> , Hook. f.												x									x			
<i>S. grossa</i> , Wall.											x												x	
<i>S. Heydei</i> , Hook. f.											x							x						
<i>S. khasiana</i> , Clarke.								x														x		
<i>S. linearis</i> , Benth.											x							x						
<i>S. multicaulis</i> , Boiss.											x							x						
<i>S. petiolata</i> , Hemsl., Lacey, Prain.			x								x							x						
<i>S. prostrata</i> , Jacq. & Benth.											x												x	
<i>S. repens</i> , Ham & Don.									x	x	x		x									x	x	
<i>S. rivularis</i> , Wall.								x		x			x				x							

DISTRIBUTION OF SPECIES

FAMILY:— GENUS:— <u>MICROTOENA</u> (Prain)	IN INDIA										OUTSIDE INDIA								ENDEMIC		REMARKS				
	DECCAN	MALABAR	INDUS PLAIN		GANGETIC PLAIN			ASSAM	EASTERN HIMALAYAS	CENTRAL HIMALAYAS	WESTERN HIMALAYAS	CEYLON	BURMA	MALAYA; JAVA; BORNEO; PHILIPPINES	SOUTH-WEST CHINA	TIBET	EAST CHINA, JAPAN	WESTERN ASIA	COSMOPOLITAN	AFRICA		CONTINENTAL INDIA	HIMALAYAS		
			Dry	Humid	Upper dry	Lower humid	Sundarbans																		
<i>M. Griffithii</i> , Prain.								X															X		
<i>M. wisnawis</i> , Prain & Dunn.								X					X		X									X	
<u>STACHYS.</u> (Linn.)																									
<i>S. floccosa</i> , Benth.								X											X						X
<i>S. melissaeifolia</i> , Benth.									X	X									X					X	
<i>S. oblongifolia</i> , Benth.						X		X						X					X						
<i>S. palustris</i> , Linn.																			X						
<i>S. parviflora</i> , Benth.		X	X																X						
<i>S. scaberrima</i> , Vahl.								X											X					X	
<i>S. sericea</i> , Wall.										X	X								X						
<i>S. Sieboldii</i> , Miq.												X		X					X						
<i>S. sylvatica</i> , Linn.											X								X						
<i>S. tibetica</i> , Vahl.											X								X						
<u>PARALAMIVM.</u> (Dunn.)																									
<i>P. gracile</i> Dunn.													X	X			X								
<u>PARAPHLOMIS.</u> (Prain)																									
<i>P. rugosa</i> (Benth.), Prain.								X	X					X											
<u>LEONURUS</u> (Linn.)																									
<i>L. cardiaca</i> Linn.			X								X								X						Europe
<i>L. sibiricus</i> Linn.	X	X	X		X	X	X	X												X					Trop. America
<u>PHLOMIS.</u> (Linn.)																									
<i>P. bracteosa</i> , Royle & Benth.									X	X														X	
<i>P. breviflora</i> , Benth.																			X					X	
<i>P. cashmeriana</i> , Royle.								X	X	X													X		
<i>P. macrophylla</i> , Wall.								X						X											
<i>P. rotata</i> , Benth.							X	X					X												
<i>P. setigera</i> , Falc. & Benth.								X																	
<i>P. spectabilis</i> , Fl. & Bth.																			X						

DISTRIBUTION OF SPECIES

FAMILY:— GENUS:— <i>PHLOMIS.</i> (Contd).	IN INDIA										OUTSIDE INDIA							ENDEMIC		REMARKS			
	DECCAN	MALABAR	INDUS PLAIN		GANGETIC PLAIN			ASSAM	EASTERN HIMALAYAS	CENTRAL HIMALAYAS	WESTERN HIMALAYAS	CEYLON	BURMA	MALAYA; JAVA; BORNEO; PHILIPPINES	SOUTH-WEST CHINA	TIBET	EAST CHINA, JAPAN	WESTERN ASIA	COSMOPOLITAN		AFRICA	CONTINENTAL INDIA	HIMALAYAS
			Dry	Humid	Upper dry	Lower humid	Sundarbans																

P. Stewartii Hook. f.
P. Younghusbandii, Mukerjee
P. burmanica, Mukerjee.

EREMOSTACHYS. (Bunge)

E. acanthocalyx, Boiss. x
E. labiosa, Bunge. x
E. lasaeifolia, Benth. x
E. superba, Royle ex Benth. x
E. thyrsiflora, Benth. x
E. Vicaryi, Benth? x

ROYLEA (Wall)

R. calycina, Bong.

NOTOCHAETE. (Benth)

N. hamosa, Benth.

GOMPHOSTEMMA (Wall)

G. aborensis, Dunn. x
G. crinitum, Wall. x
G. eriocarpum, Benth. x
G. Hemslayanum, Prain, Coll. x x
G. Heyneanum, Wall. x x
G. hispinatum, Prain. x
G. Lacei, Mukerjee. x x
G. lucidum, Wall. x x
G. Mastersii Benth & Hook. f. x
G. melissaeifolium, Wall. x
G. niveum, Hook. f. x
G. nutans, Hook. f. x
G. oblongum, Wall. x
G. ovatum, Wall. x x x
G. pedunculatum Benth & Hook. f.
G. parviflorum Wall. x x

x x?
x
x
x
x
x
x
x
x
x
x
x

