

Medicinal Plant species of conservation concern identified for Uttarakhand (UT):

CAMP workshop was held during May 2003 at Shimla to assess the threat status of prioritized Medicinal plants of Uttarakhand. During this process 60 species were assigned the RL status of Near Threatened (NT) and above.

LEGEND	
EX	Extinct
CR	Critically Endangered
EN	Endangered
VU	Vulnerable
NT	Near Threatened
G	Global
H	Herb
S	Shrub
T	Tree
C	Climber
T	Recorded in Trade
H	High volume Traded(>100)

S.No	Genus	Species	Author	variety	Author	Synonyms	State	Habit	Status in UTT	RL status (Global)	Recorded in Trade	Trade 100 MT/yr (dry wt.)
1	<i>Aconitum</i>	<i>heterophyllum</i>	Wall. ex Royle			0	UT	H	CR	CR(G)	T	H
2	<i>Arnebia</i>	<i>benthami</i>	(Wall. ex G.Don) Johns			0	UT	H	CR	CR(G)	T	
3	<i>Dactylorhiza</i>	<i>hatagirea</i>	(D.Don) Soo			0	UT	H	CR	-	T	
4	<i>Gentiana</i>	<i>kurroo</i>	Royle			0	UT	H	CR	CR(G)	T	
5	<i>Lilium</i>	<i>polyphyllum</i>	D.Don ex Royle			0	UT	H	CR	-		
6	<i>Nardostachys</i>	<i>grandiflora</i>	DC.			0	UT	H	CR	-	T	H

7	<i>Picrorhiza</i>	<i>kurroa</i>	Royle ex Benth.	0	UT	H	CR	-	T	H
8	<i>Angelica</i>	<i>glauca</i>	Edgew.	0	UT	H	EN	EN(G)	T	
9	<i>Arnebia</i>	<i>euchroma</i>	(Royle) John.	0	UT	H	EN	-	T	
10	<i>Ceropegia</i>	<i>bulbosa</i>	Roxb.	0	UT	C	EN	-		
11	<i>Datisca</i>	<i>cannabina</i>	L.	0	UT	H	EN	-		
12	<i>Dioscorea</i>	<i>deltoidea</i>	Wall. ex Griseb.	0	UT	C	EN	EN(G)	T	
13	<i>Ephedra</i>	<i>gerardiana</i>	Wall. ex Stapf.	0	UT	S	EN	-	T	H
14	<i>Fritillaria</i>	<i>roylei</i>	Hook.	0	UT	H	EN	EN(G)	T	
15	<i>Habenaria</i>	<i>intermedia</i>	D. Don	0	UT	H	EN	EN(G)		
16	<i>Juniperus</i>	<i>polycarpos</i>	C. Koch.	0	UT	S	EN	-		
17	<i>Jurinea</i>	<i>dolomiaea</i>	Boiss.	0	UT	H	EN	-	T	H
18	<i>Malaxis</i>	<i>muscifera</i>	(Lindl.) Kuntze	0	UT	H	EN	-		
19	<i>Meconopsis</i>	<i>aculeata</i>	Royle	0	UT	H	EN	EN(G)		
20	<i>Paris</i>	<i>polyphylla</i>	Sm.	0	UT	H	EN	-	T	
21	<i>Podophyllum</i>	<i>hexandrum</i>	Royle	0	UT	H	EN	-	T	
22	<i>Rheum</i>	<i>emodi</i>	Wall. ex Meisn.	0	UT	H	EN	EN(G)	T	H
23	<i>Saussurea</i>	<i>obvallata</i>	(DC.) Edgew.	0	UT	H	EN	-		
24	<i>Swertia</i>	<i>chirayita</i>	(Roxb. ex Flem.) Karst.	0	UT	H	EN	-	T	H
25	<i>Taxus</i>	<i>wallichiana</i>	Zucc.	0	UT	T	EN	-	T	H

26	<i>Aconitum</i>	<i>balfourii</i>	Stapf	0	UT	H	VU	VU(G)	T	
27	<i>Aconitum</i>	<i>violaceum</i>	Jacq. ex Stapf	0	UT	H	VU	VU(G)	T	
28	<i>Allium</i>	<i>stracheyi</i>	Baker	0	UT	H	VU	VU(G)	T	
29	<i>Cinnamomum</i>	<i>tamala</i>	(Buch.-Ham.) Nees	0	UT	T	VU	-	T	H
30	<i>Didymocarpos</i>	<i>pedicillata</i>	R. Br.	0	UT	H	VU	-	T	
31	<i>Embelia</i>	<i>tsjeriam-cottam</i>	(Roem. & Schult.) A. DC.	0	UT	S	VU	-	T	H
32	<i>Eremostachys</i>	<i>superba</i>	Royle ex Benth.	0	UT	H	VU	VU(G)		
33	<i>Ferula</i>	<i>jaeschkeana</i>	Vatke	0	UT	H	VU	-	T	
34	<i>Gloriosa</i>	<i>superba</i>	L.	0	UT	C	VU	-	T	H
35	<i>Heracleum</i>	<i>lanatum</i>	Michx.	0	UT	H	VU	-	T	
36	<i>Hyoscyamus</i>	<i>niger</i>	L.	0	UT	H	VU	-	T	
37	<i>Hypericum</i>	<i>perforatum</i>	L.	0	UT	H	VU	-	T	
38	<i>Pleurospermum</i>	<i>angelicoides</i>	(DC.) Clarke	0	UT	H	VU	-		
39	<i>Polygonatum</i>	<i>cirrhiifolium</i>	(Wall.) Royle	0	UT	H	VU	-	T	
40	<i>Polygonatum</i>	<i>verticillatum</i>	(L.) All.	0	UT	H	VU	-	T	
41	<i>Rauvolfia</i>	<i>serpentina</i>	(L.) Benth. ex Kurz	0	UT	H	VU	-	T	H

42	<i>Rheum</i>	<i>webbianum</i>	Royle	0	UT	H	VU	VU(G)	T	H
43	<i>Rhodiola</i>	<i>heterodonta</i>	(Hook.f. & Thoms.) Boriss	0	UT	H	VU	VU(G)		
44	<i>Roylea</i>	<i>cinerea</i>	(D. Don) Baillon	0	UT	S	VU	VU(G)		
45	<i>Saussurea</i>	<i>gossypiphora</i>	D.Don	0	UT	H	VU	-		
46	<i>Symplocos</i>	<i>paniculata</i>	(Thunb.) Miq.	0	UT	T	VU	-	T	H
47	<i>Valeriana</i>	<i>jatamansi</i>	Jones	0	UT	H	VU	-	T	H
48	<i>Zanthoxylum</i>	<i>armatum</i>	DC.	0	UT	S	VU	-	T	
49	<i>Artemisia</i>	<i>maritima</i>	L.	0	UT	H	NT	-	T	
50	<i>Bergenia</i>	<i>stracheyi</i>	(Hook.f. & Thoms.) Engl.	0	UT	C	NT	-	T	
51	<i>Betula</i>	<i>utilis</i>	D.Don	0	UT	T	NT	-	T	
52	<i>Hippophae</i>	<i>rhamnoides</i>	L.	0	UT	S	NT	-	T	
53	<i>Hippophae</i>	<i>salicifolia</i>	D.Don	0	UT	T	NT	-	T	
54	<i>Hyssopus</i>	<i>officinalis</i>	L.	0	UT	H	NT	-	T	
55	<i>Litsea</i>	<i>glutinosa</i>	(Lour.) Robinson	0	UT	T	NT	-	T	H
56	<i>Physochlaena</i>	<i>praealta</i>	(Walp.) Miers.	0	UT	H	NT	-		
57	<i>Rheum</i>	<i>moorcroftianum</i>	Royle	0	UT	H	NT	-	T	H
58	<i>Rhododendron</i>	<i>anthopogon</i>	D.Don	0	UT	S	NT	-	T	H

59	<i>Rhododendron</i>	<i>campanulatum</i>	D.Don	0	UT	S	NT	-	T
60	<i>Rhododendron</i>	<i>lepidotum</i>	Wall. ex D.Don	0	UT	T	NT	-	

Of these 60 species, 16 species have a global RL status as these are endemic to the Himalayan region. 7 species have been assigned Critically Endangered (CR) status, 18 species are Endangered (EN), 23 species are Vulnerable (VU) and 12 species are Near Threatened (NT). 18 of these Red Listed medicinal plant species have been recorded in high volume trade, as per the national level trade study.

Aconitum heterophyllum, *Nardostachys grandiflora* and *Picrorhiza kurroa* have the highest priority for the state as these are in high volume trade in addition to their **Critically Endangered** status.

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