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Supplementary Table 1. List of Poaceae species found in Lahaul-Spiti

SUBFAMILY: PANICOIDEAE					
S.No.	SPECIES	Annual or perennial	OCCURANCE	LOCALITY	VOUCHER SPECIMEN NO.
Tribe- Andropogoneae					
1.	<i>Arthraxon prionodes</i> (Steud.) Dandy	Perennial	Common	Trilokinath	BSD 45386
2.	<i>Bothriochloa ischaemum</i> (L.) Keng	Perennial	Common	Keylong, Gondla, Kailing- ka-Jot	DD 85472
3.	<i>B. pertusa</i> (L.) A. Camus	Perennial	Common	Pin Valley	BSD100754
4.	<i>Chrysopogon gryllus</i> subsp. <i>echinulatus</i> (Nees) Cope	Perennial	Common	Madgram	DD 85320
5.	<i>Cymbopogon jwarancusa</i> subsp. <i>olivieri</i> (Boiss.) Soenarko	Perennial	Common	Kamri	BSD 45377
6.	<i>Phacelurus speciosus</i> (Steud.) C.E.Hubb.	Perennial	Common	Gondhla, Lahaul, Keylong	DD 99908
7.	<i>Saccharum ravennae</i> (L.) L.	Perennial	Common	Trilokinath	BSD 45958
Tribe- Paniceae					
1.	<i>Digitaria ciliaris</i> (Retz.) Koel	Annual	-	Pin Valley	C. Sekar (<i>loc. cit.</i>)
2.	<i>D. cruciata</i> (Nees) A.Camus	Annual	Common	Pattan Valley	DD 172693
3.	<i>Echinochloa crus-galli</i> (L.) P.Beauv.	Annual	Rare	Keylong	DD 85186
4.	<i>Pennisetum flaccidum</i> Griseb.	Perennial	Common	Sissoo, Sanao, Khote, Gojina, Gondla, Koksar	DD 85530
5.	<i>P. glaucum</i> (L.) R.Br.	Annual	Common	Lahaul	DD 85417
6.	<i>P. lanatum</i> Klotzsch	Perennial	Common	Sissu, Keylong, Khoksar	DD 99862
7.	<i>P. orientale</i> Rich.	Perennial	Common	Pin Valley	BSD 100775
8.	<i>Setaria pumila</i> (Poir.) Roem. & Schult.	Annual	Common	Pin valley	BSD 100763
9.	<i>S. viridis</i> (L.) P.Beauv.	Annual	Common	Kardang, Baralacha, Gondhla, Keylong	DD 85415
SUBFAMILY: POOIDEAE					
Tribe- Agrostideae					
1.	<i>Agrostis filipes</i> Hook.f.	Perennial	Common	Koksar	DD 85486
2.	<i>A. gigantea</i> Roth	Perennial	Common	Keylong	DD 101339
3.	<i>A. griffithiana</i> (Hook.f.) Bor	Perennial	Common	Sissu	DD 85487
4.	<i>A. munroana</i> Aitch. & Hemsl.	Annual	Common	Rohtang Pass, Lahaul	DD 85337
5.	<i>A. pilosula</i> Trin.	Annual	Common	Keylong	DD 101211
6.	<i>A. stolonifera</i> L.	Perennial	Common	Gondhla, Lardang, Keylong, Tandi,	DD 85488
7.	<i>A. vinealis</i> Schreb.	Perennial	Common	Billing Lumpa, Gondhla, Jispa, Kailing Ka Jot, Kardang, Sissoo, Patseo, Keylong	DD 101217

8.	<i>Alopecurus arundinaceus</i> Poir.	Perennial	Common	Udaipur	DD 85465
9.	<i>Calamagrostis emodensis</i> Griseb.	Perennial	Common	Kirting, Keylong	DD 99877
10.	<i>C. epigejos</i> Trin.	Perennial	Common	Pin Valley	BSD 101195
11.	<i>C. garhwalensis</i> C.E. Hubb. & Bor	Perennial	Rare	Keylong	DD 15480
12.	<i>C. holciformis</i> Jaub. & Spach.	Perennial	Common	Kenlung	DD 101206
13.	<i>C. lahulensis</i> G. singh	Perennial	Rare	Chotadara & Chatru, Keylong	DD 85325
14.	<i>C. pseudophragmites</i> (Haller f.) Koeler	Perennial	Common	Darcha, Gondhla, Jispa, Sissu, Kaza, Kibber, Gumber, Parsehu, Kardang	DD 85334
15.	<i>C. pseudophragmites</i> subsp. <i>tartarica</i> (Hook.f.) Tzvelev	Perennial	Common	Kaza-Pin Valley	DD 172691
16.	<i>C. scabrescens</i> Griseb.	Perennial	Common	Patseo, Kailing Ka Jot, Salpat	DD 85323
17.	<i>C. stolizkai</i> Hook.f.	Perennial	Common	Kaza-Pin Valley	BSD 102979
18.	<i>Muhlenbergia himalayensis</i> Hack. ex Hook.f.	Perennial	Common	Lahaul	DD 99926
19.	<i>Phleum alpinum</i> L.	Annual	Common	Sissu, Koksar, Kardang, Kailing ka Jot, Jispa	DD 99861
20.	<i>Polypogon monspeliensis</i> (L.) Desf.	Annual	Common	Keylong	BSD 45207
Tribe- Arundineae					
1.	<i>Arundo donax</i> L.	Perennial	-	Pin Valley	C. Sekar (<i>loc. cit.</i>)
2.	<i>Phragmites australis</i> (Cav.) Trin. ex Steud.	Perennial	Common	Trilokinath	BSD 45937
Tribe- Aveneae					
1.	<i>Anthoxanthum odoratum</i> L.	Perennial	Rare	Lahaul	DD 85489
2.	<i>Avena fatua</i> L.	Annual	Common	Keylong	BSD 45222
3.	<i>Deschampsia caespitosa</i> (L.) P.Beauv.	Perennial	Common	Khoksar	DD 99882
4.	<i>Duthiea bromoides</i> Hack.	Perennial	Rare	Hamse	DD 102642
5.	<i>Helictotrichon virescens</i> (Nees ex Steud.) Henrard	Perennial	Common	Lossar	DD 172696
6.	<i>Hierochloa laxa</i> Hook.f.	Perennial	Common	Billing Lumpa, Rangtse La, Rangchegalli, Pinkar, Machu, Bara-Lacha	DD 85187
7.	<i>Koeleria argentea</i> var. <i>nepalensis</i> Domin	Perennial	-	Lahaul	Bor (<i>loc. cit.</i>)
8.	<i>K. macrantha</i> (Ledeb.) Schult.	Perennial	Common	Kyelong, Khoksar, Gondhla, Jhala, Chhatru-Chhota Dara, Zingzingber, Sissu	DD 99871
9.	<i>Trisetum clarkei</i> (Hook.f.) R.R.Stewart	Perennial	Rare	Keylong, Khoksar	DD 85518
10.	<i>T. spicatum</i> (L.) K.Richt.	Perennial	Common	Baralacha, Rohtang pass, Sissu	DD 99923
Tribe-Brachypoideae					
1.	<i>Brachypodium sylvaticum</i> (Huds.) P.Beauv.	Perennial	Common	Keylong, Udaipur, Billing	DD 16591
2.	<i>B. pinnatum</i> (L.) P.Beauv.	Perennial	Rare	Pin valley	BSD 102968

Tribe-Bromeae					
1.	<i>Bromus confinis</i> Nees. ex Steud.	Perennial	Rare	Keylong	DD 14912
2.	<i>B. danthoniae</i> Trin.	Annual	-	Pin Valley	Chandra Sekar (<i>loc. cit.</i>)
3.	<i>B. gracillimus</i> Bunge	Annual	Common	Kenlung, Sarchu	DD 99914
4.	<i>B. inermis</i> Leyss.	Perennial	Common	Sissu, Patseo, Kyelong, Jispa, Gondla	DD 85435
5.	<i>B. japonicus</i> Thunb.	Annual	Common	Sissu, Gondla, Keylong, Khoksar, Kardang, Billimg lumpa	DD 85221
6.	<i>B. oxyodon</i> Schrenk	Annual	Common	Sissu, Gulling-Mikkim	DD 85426
7.	<i>B. pectinatus</i> Thunb.	Annual	Common	Sissu, Gondhla	DD 91476
8.	<i>B. ramosus</i> Huds.	Perennial	Common	Billimg-Lumpa, Koti	DD 91583
9.	<i>B. tectorum</i> L.	Annual	Common	Kailing Ka Jot, Keylong	DD 85431
Tribe-Chlorideae					
1.	<i>Cynodon dactylon</i> (L.) Pers.	Perennial	Common	Pin Valley	BSD 100752
Tribe-Danthonieae					
1.	<i>Danthonia cachemyriana</i> Jaub. & Spach	Perennial	Rare	Sissu, Khoksar, Yendra	DD 99922
2.	<i>D. schneideri</i> Pilg.	Perennial	Common	Sissu	DD 172692
Tribe-Eragrosteae					
1.	<i>Eragrostis amabilis</i> (L.) Wight & Arn.	Annual	Rare	Pin Valley	BSD 100792
2.	<i>E. minor</i> Host	Annual	Common	Khoksar	DD 68127
3.	<i>Tripogon filiformis</i> Nees ex Steud.	Perennial	Rare	Shansha	DD 85521
4.	<i>T. purpurascens</i> Duthie	Perennial	Common	Lahaul	DD 85520
Tribe-Festuceae					
1.	<i>Briza media</i> L.	Annual	Rare	Sissu	DD 99864
2.	<i>Colpodium himalaicum</i> (Hook.f.) Bor	Perennial	Common	Kunzum Pass	DD 85471
3.	<i>C. nutans</i> (Stapf) Bor	Perennial	Common	Kaumik	DD 101249
4.	<i>Dactylis glomerata</i> subsp. <i>himalayensis</i> Domin	Perennial	Common	Pattan Valley, Morang	DD 127405
5.	<i>Eremopoa persica</i> (Trin.) Roshev.	Annual	Common	Khoksar-Sissu, Serchu - keylong, keylong, Thiroat, Pattan valley, Kardang	DD 99910
6.	<i>E. altaica</i> (Trin.) Roshev.	Annual	Common	Khoksar - Sissu, Tokpo yongma	DD 99912
7.	<i>Festuca alaica</i> Drobow	Perennial	Rare	Pin Valley	BSD 103620
8.	<i>F. alata</i> (St.-Yves) Roshev.	Perennial	Common	Chotadara - Chatru, Spiti, Koksar -Sissu, Kyelong, Kailing Ka Jot, Shansha, Zingzangbar, Darcha, Gondla, Rohtang,	DD 127406
9.	<i>F. hartmannii</i> (Markgr.-Dann.) E.B.Alexeev	Perennial	Rare	Pin Valley	BSD 101169
10.	<i>F. kashmiriana</i> Stapf	Perennial	Common	Lumpa, Bara-Lacha La, Zingzingbur, Pricker, Sissu, Lingti, Keylong, Koksar, Kardang, Chhatru -Chhotadara,	DD 12662
11.	<i>F. olgae</i> (Regel) Krivot.	Perennial	Common	Keylong, Patseo, Rangtse La, Kibber, Zingzingbur, Kyoto, Khoksar, Baralacha La, Kardang	DD 85247
12.	<i>F. pamirica</i> Tzvelev	Perennial	Rare	Pin Valley	BSD 101189
13.	<i>F. rubra</i> L.	Perennial	Common	keylong, Jispa, Sissu-	DD 85226

				Ghondhla, Chhota Dara - Chhatru, Thumla, Darcha, Losar	
14.	<i>F. sanjappae</i> Chandra Sek. & S.K.Srivast.	Perennial	Rare	Pin Valley	BSD 103271
15.	<i>F. tibetica</i> (Stapf) E.B.Alexeev	Perennial	-	-	Rau (<i>loc. cit.</i>)
16.	<i>F. valesiaca</i> Schleich. ex. Gaudin	Perennial	Common	Khoksar	DD 85329
17.	<i>Poa alpina</i> L.	Perennial	Common	Rohtang, Rangtse La, Pinkar, Patseo, Sissu, Khoksar, Kenlung, Jispa, Gushai, Billing Lumpa	DD 99889
18.	<i>P. alpigena</i> Lindm.	Perennial	Common	Lahaul	DD 85371
19.	<i>P. annua</i> L.	Annual	Common	Udaipur	DD 99938
20.	<i>P. aitchisonii</i> Boiss.	Perennial	Common	Pin Valley	BSD 103221
21.	<i>P. attenuata</i> Trin.	Perennial	Common	Lahaul	DD 85339
22.	<i>P. jaunsarensis</i> Bor.	Perennial	Rare	Kardang	DD 99892
23.	<i>P. bactriana</i> Roshev.	Perennial	Rare	Gondla-Keylong,	DD 99940
24.	<i>P. bactriana</i> subsp. <i>glabriflora</i> (Roshev. ex Ovcz.) Tzvelev	Perennial	Rare	Serchu-Kyelong,	DD 15129
25.	<i>P. bulbosa</i> L.	Perennial	Common	Lahaul, Sissu-Gondhla	DD 85372
26.	<i>P. calliopsis</i> Litv. ex Ovcz.	Perennial	Rare	Khoksar- sissu	DD 127217
27.	<i>P. falconeri</i> Hook.f.	Perennial	Rare	Pin Valley	BSD 103297
28.	<i>P. glauca</i> subsp. <i>litvinoviana</i> (Ovcz.) Tzvelev	Perennial	Common	Baralacha La, Rangcha La Galli, Kardang	DD 99936
29.	<i>P. imperialis</i> Bor	Perennial	Rare	Pin Valley	BSD 102943
30.	<i>P. hylobates</i> Bor	Annual	Rare	Pin Valley	BSD 100569
31.	<i>P. koelzii</i> Bor	Perennial	Common (Endemic)	Spiti, keylong	DD 107400
32.	<i>P. lahulensis</i> Bor	Perennial	Common (Endemic)	Rangtse La, Sissu, Baralacha la, Kenlung, Kailing ka Jot, Chotadara, Billing Lumpa, Kibber	DD 99949
33.	<i>P. ludens</i> R.R.Stewart	Perennial		Pin Valley	BSD 103285
34.	<i>P. nemoralis</i> L.	Perennial	Common	Lahaul	DD 85458
35.	<i>P. nepalensis</i> (Wall. ex Griseb.) Duthie	Perennial		Pin Valley	BSD 102810
36.	<i>P. pagophila</i> Bor	Perennial	Rare	Kailing Ka Jot	DD 88209
37.	<i>P. pratensis</i> subsp. <i>pratensis</i>	Perennial	Common	Gojina, Shansha	DD 107860
38.	<i>P. pratensis</i> subsp. <i>angustifolia</i> (L.) H.Lindb.	Perennial	Common	Below Kyelang, Pattan valley, Spiti	DD 91323
39.	<i>P. sikkimensis</i> (Stapf) Bor	Perennial	Rare	Jispa	DD 106960
40.	<i>P. stapfiana</i> Bor	Perennial	Rare	Rohtang	DD 99891
41.	<i>P. sterilis</i> M.Bieb.	Perennial	Common	Kyelang, Lot, Gondla, Koksar-Sissu, Kardang, Kailing ka Jot, Jhala, Jispa, Gamur, Rohtang	DD 85348
42.	<i>P. stewartiana</i> Bor	Annual	Common	Thirot, Khoksar, Shansha, Pattan valley	DD 126808
43.	<i>P. supina</i> Schrad.	Perennial	Common	Sissu	DD 85396
44.	<i>P. tibetica</i> Munro ex Stapf	Perennial	Common	Kenlung, Jispa	DD 99893
45.	<i>P. trivialis</i> L.	Perennial	Rare	Lahaul	DD Bor, 13197
46.	<i>P. versicolor</i> subsp. <i>araratica</i> (Trautv.) Tzvelev	Perennial	Common	Keylong	DD 85341
47.	<i>Puccinellia himalaica</i> Tzvelev	Perennial	Rare	Kenlung	BSD 40881

48.	<i>P. kashmiriana</i> Bor	Perennial	Rare	Bara-Lacha La	DD Bor, 16360
Tribe-Meliceae					
1.	<i>Melica persica</i> Kunth	Perennial	Common	keylong, Kibber, Bara Lacha La, Jahlma - Thiro, Patseo	DD 85192
Tribe-Stipeae					
1.	<i>Piptatherum gracile</i> Mez	Perennial	Common	Sissu, Patseo, keylong, Kailing Ka Jot, Lot, Koksar, Kardang, Biling Lumpa, Spiti	DD 85419
2.	<i>P. hilariae</i> Pazij	Perennial	Rare	Jhala	DD 101260
3.	<i>P. munroi</i> (Stapf ex Hook.f.) Mez	Perennial	Common	Jispa	DD 101259
4.	<i>Stipa arabica</i> Trin. & Rupr.	Perennial		Pin Valley	BSD 103274
5.	<i>S. brandisii</i> Mez	Perennial	Common	Lahaul, Pangi	DD 85322
6.	<i>S. capillata</i> L.	Perennial	Common	Ghondhla, Khoksar, Spiti, Guling mikkim	DD 85412
7.	<i>S. caucasica</i> Schmalh.	Perennial	Rare	Pin Valley	BSD 100472
8.	<i>S. jacquemontii</i> Jaub. & Spach	Perennial	Common	keylong-Tandi, Spiti, Darcha	DD 102266
9.	<i>S. koelzii</i> R.R.Stewart	Perennial	-	Lahaul-Spiti	Freitag (<i>loc. cit.</i>)
10.	<i>S. kirghisorum</i> P.A.Smirn.	Perennial	Rare	Lossar	DD 172695
11.	<i>S. mongholica</i> Turcz. ex Trin.	Perennial	Rare	Rohtang (rare in meadows)	DD Bor, 9901
12.	<i>S. orientalis</i> Trin. ex Ledeb.	Perennial	Rare	Lossar, Kibber, kenlung	DD 84188
13.	<i>S. splendens</i> Trin.	Perennial	Common	Key (spiti)	BSD Bhattacharya, sn
Tribe- Triticeae					
1.	<i>Elymus dahuricus</i> Griseb.	Perennial	Rare	Baralacha, Yete	DD 85182
2.	<i>E. longiaristatus</i> subsp. <i>canaliculatus</i> (Nevski) Tzvelev	Perennial	Common	Lahaul	DD 85448
3.	<i>E. mutabilis</i> (Drobow) Tzvelev	Perennial	-	Pin Valley	C. Sekar (<i>loc. cit.</i>)
4.	<i>E. nodosus</i> (Nevski) Melderis	Perennial	-	Pin Valley	C. Sekar (<i>loc. cit.</i>)
5.	<i>E. nutans</i> Griseb.	Perennial	Common	Keylong, Khoksar, Gondla	DD 85241
6.	<i>E. russellii</i> (Melderis) Cope	Perennial	Rare	Pin Valley	BSD 103266
7.	<i>E. schrenkianus</i> (Fisch. & C.A.Mey.) Tzvelev	Perennial	Rare	Billing-Lumpa	DD 101117
8.	<i>E. schugnanicus</i> (Nevski) Tzvelev	Perennial	Rare	Langza, Kaumik	DD 15005
9.	<i>E. semicostatus</i> (Nees ex Steud.) Melderis	Perennial	Common	keylong; Ghondhla; Tandi; Billing-Lumpa	DD 85444
10.	<i>Hordeum vulgare</i> L.	Annual	Common	Jispa-Kailing	DD 99925
11.	<i>H. brevisubulatum</i> subsp. <i>nevskianum</i> (Bowden) Tzvelev	Perennial	Common	Pin valley	BSD 100689
12.	<i>Leymus secalinus</i> (Georgi) Tzvelev	Perennial	Common	Spiti, Ghondhla, Jispa	DD 85183
13.	<i>Secale cereale</i> L.	Annual	Common	Sanoa, keylong-Jispa, Ghondhla, Koksar, Trilokinath, Sissu, keylong, Kardang	DD 99879