Table S1: Classification of forage species identified during vegetation sampling.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Functional group | Family | Species | Life form | References |
| Grass | Poaceae | *Poa annua* L. | Annual | GRIN; Sun (1992) |
|  |  | *Elymus dahuricus* Turcz. ex. Griseb. | Perennial | Tilley and St. John (2014) |
|  |  | *Festuca rubra* L. | Perennial | GRIN |
|  |  | *Koeleria cristata* auct. | Perennial | GRIN |
|  |  | *Elymus nutans* Griseb. | Perennial | Dou et al. (2017); Lu (1993) |
|  |  | *Deschampsia cespitosa* (L.) P. Beauv. | Perennial | GRIN |
|  | Cyperaceae (semi-grass) | *Blysmus compressus* L. Panz. Ex Link | Perennial | GRIN; Stroh and Walker (2015) |
| Legume | Fabaceae | *Gueldenstaedtia multiflora* Bunge | Perennial | NCBI Taxonomy; Zhu (2003) |
| Sedge | Cyperaceae | *Carex atrofusca* Schkuhr | Perennial | Bailey (1889); Zheng et al. (2005) |
|  |  | *Carex muliensis* Hand.-Mazz | Perennial | Gao et al. (2014); Zheng et al. (2005) |
|  |  | *Carex meyeriana Kunth* | Perennial | GRIN; Zheng et al. (2005) |
|  |  | *Kobresia Pygmaea* (C. B. Clarke) | Perennial | GRIN, Zhou et al. (2006) |
|  |  | *Kobresia setchwanenesis* Hand-Mazz | Perennial | Sun (1992) |
| Shrub | Asteracea | *Anaphalis lacteal* Maxim | Perennial | Ren et al. (2008) |
| Herb/Forb | Brassicaceae | *Thlaspi arvense* L. | Annual | GRIN |
|  |  | *Capsella bursa-pastoris L.* (Medik) | Annual | GRIN, Grosso et al. (2011) |
| Herb/Forb | Ranunculaceae | *Anemone cathayensis* Kitag ex. Tamura | Perennial | Plants of the world online |
|  |  | *Anemone trullifolia var. linearis* | Perennial | Ziman et al. (2007) |
|  |  | *Anemone rivularis* Buch. –Ham. ex DC. | Perennial | GRIN |
|  |  | *Ranunculus asiaticus* L. | Perennial | GRIN |
|  |  | *Ranunculus brotherusii* (Maxim.) | Perennial | Chen et al. (2015) |
|  |  | *Thalictrum alpinum* L. var. *elatum* | Perennial | GRIN |
|  |  |  |  |  |
| Herb/Forb | Asteraceae | *Aster alpinus* L. | Perennial | GRIN |
|  |  | *Cremanthodium reniforme* (DC.) Benth. | Perennial | GRIN; Plants of the world online |
|  |  | *Saussurea japonica* (Thunb.) DC. | Perennial | GRIN; NCBI taxonomy |
|  |  |  |  |  |
| Herb/Forb | Polygonaceae | *Polygonum aviculare* L. | Annual/Perennial | GRIN; Tilley and St. John (2014) |
|  |  | *Polygonum macrophyllum* D. Don. | Perennial | Flora of China |
|  |  | *Polygonum viviparum* L. | Perennial | GRIN; Penskar (2008) |
| Herb/Forb | Rosaceae | *Potentilla discolor* Bunge. | Perennial | Flora of China |
|  |  | *Potentilla bifurca* L. | Perennial | Godin (2009); Razanajatovo (2016) |
|  |  | *Sanguisorba tenuifolia var. parviflora* Maximowicz. | Perennial | Flora of China |
|  |  | *Potentilla anserina* L*.* | Perennial | ISTA (2014) |
| Herb/Forb | Apiaceae | *Carum carvi* L*.* | Biennial | ISTA (2014) |
|  | Alpiaceae | *Ligusticum* spp | Perennial | Materia Medica Monthly (n.d) |
| Herb/Forb | Plantaginaceae | *Plantago asiatica* L. | Perennial | GRIN |
| Herb/Forb | Mazaceae | *Lancea tibetica* Hook.f. & Thomson | Annual | Flora of China |
| Herb/Forb | Thymelaeaceae | *Stellerachamae jasme* L. | Perennial | Sun (1992); Xiao et al. (2015) |
| Herb/Forb | Compositae | *Taraxacum lugubre* Dahlst | Perennial | Flora of China |
| Herb/Forb | Geraniaceae | *Geranium pylzowianum* Maximowicz. | Perennial | Flora of China |
| Herb/Forb | Rubiaceae | *Galium verum* L. | Perennial | GRIN; ISTA (2014) |
| Herb/Forb | *Euphorbiaceae* | *Euphorbia esula* L. | Perennial | GRIN; ISTA (2014) |

GRIN: Germplasm Resources Information Network; NCBI: National Center for Biotechnology Information.

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