**Table S1.** List of plant taxa, where PISG is alleged or suspected but further research is necessary to confirm it. Taxonomic information was standardized against The Plant List Database (<http://www.theplantlist.org/>). Reference(s): Numbers in alphabetical order within Table S1 are represented before each citation in a list after the table.

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| --- | --- | --- | --- | --- | --- |
| # | Order | Family | Taxon | Justification | Reference(s)\* |
| 1 | APIALES | Apiaceae | *Cryptotaenia canadensis* (L.) DC. | Deficient data | S-2 |
| 2 | ARECALES | Arecaceae | *Archontophoenix alexandrae* (F.Muell.) H.Wendl. & Drude | Deficient data | S-64 |
| 3 | ASPARAGALES | Amaryllidaceae | *Allium rotundum* L. | Deficient data | S-56 |
| 4 |  |  | *Narcissus hispanicus* Gouan | Deficient data | S-16 |
| 5 |  |  | *Tulbaghia simmleri* Beauverd | Deficient data | S-56 |
| 6 |  | Asparagaceae | *Arthropodium milleflorum* (DC.) J.F.Macbr. | Final dark germination <30% | S-14 |
| 7 |  |  | *Arthropodium minus* R.Br. | Final dark germination <30% | S-43 |
| 8 |  |  | *Dichelostemma ida-maia* (Alph.Wood) Greene | Original work not accessed | S-21 |
| 9 |  |  | *Drimia exuviata* (Jacq.) Jessop | Deficient data | S-18 |
| 10 |  |  | *Hyacinthoides non-scripta* (L.) Chouard ex Rothm. | Deficient data | S-56 |
| 11 |  |  | *Lomandra longifolia* Labill. | Final dark germination <30% | S-14 |
| 12 |  |  | *Maianthemum racemosum* (L.) Link | Final dark germination <30% | S-42 |
| 13 |  |  | *Yucca baccata* Torr. | Deficient data | S-38 |
| 14 |  |  | *Yucca brevifolia* Engelm. | Deficient data | S-38 |
| 15 |  |  | *Yucca elata* (Engelm.) Engelm. | Deficient data | S-38 |
| 16 |  | Asphodelaceae | *Trachyandra divaricata* (Jacq.) Kunth | Final dark germination <30% | S-4 |
| 17 |  | Iridaceae | *Crocus pulchellus* Herb. | Final dark germination <30% | S-65 |
| 18 |  | Orchidaceae | *Anacamptis pyramidalis* (L.) Rich. | Final dark germination <30% | S-73 |
| 19 |  |  | *Chlorosa gracilis* Blume | Deficient data | S-46 |
| 20 |  |  | *Cypripedium arietinum* R.Br. | Deficient data | S-69 |
| 21 |  |  | *Dactylorhiza maculata* (L.) Soó | Final dark germination <30% | S-73 |
| 22 |  |  | *Epipactis atrorubens* (Hoffm.) Besser | Final dark germination <30% | S-73 |
| 23 |  |  | *Epipactis helleborine* (L.) Crantz | Final dark germination <30% | S-73 |
| 24 |  |  | *Gymnadenia odoratissima* (L.) Rich. | Final dark germination <30% | S-73 |
| 25 |  |  | *Neottia ovata* (L.) Bluff & Fingerh. | Final dark germination <30% | S-73 |
| 26 |  |  | *Oncidium gloriosum* (Linden & Rchb.f.) M.W.Chase & N.H.Williams | Final dark germination <30% | S-47 |
| 27 |  |  | *Platanthera chlorantha* (Custer) Rchb. | Final dark germination <30% | S-73 |
| 28 |  |  | *Spiranthes odorata* (Nutt.) Lindl. | Original work not accessed | S-83 |
| 29 |  |  | *Spiranthes spiralis* (L.) Chevall. | Final dark germination <30% | S-73 |
| 30 |  |  | *Vanilla planifolia* Jacks. ex Andrews | Deficient data | S-31 |
| 31 | ASTERALES | Asteraceae | *Aster poliothamnus* Diels | Deficient data | S-77 |
| 32 |  |  | *Eremanthus elaeagnus* (Mart. ex DC.) Sch.Bip. | Final dark germination <30% | S-74 |
| 33 |  |  | *Eremanthus glomeratus* Less. | Final dark germination <30% | S-74 |
| 34 |  |  | *Helichrysum italicum* (Roth) G.Don | Deficient data | S-49 |
| 35 |  |  | *Homogyne alpina* (L.) Cass. | Deficient data; Original work not accessed | S-85; S-35 |
| 36 |  |  | *Launaea capitata* (Spreng.) Dandy | Original work not accessed | S-17 |
| 37 |  |  | *Leptorhynchos nitidulus* DC. | Original work not accessed | S-43 |
| 38 |  |  | *Pembertonia latisquaemea* (F.Muell.) P.S.Short | Deficient data | S-6 |
| 39 |  |  | *Pulicaria canariensis* Bolle | Final dark germination <30% | S-50 |
| 40 |  |  | *Rhodanthe polygalifolia* (A.Cunn. ex DC.) Paul G.Wilson | Final dark germination <30% | S-6 |
| 41 | BRASSICALES | Brassicaceae | *Pugionium cornutum* (L.) Gaertn. | Deficient data | S-67; S-84 |
| 42 |  | Limnanthaceae | *Limnanthes alba* Hartw. ex Benth. | Deficient data | S-15; S-12 |
| 43 | CARYOPHYLLALES | Aizoaceae | *Ruschia bolusiae* Schwantes | Final dark germination <30% | S-18 |
| 44 |  | Amaranthaceae | *Atriplex polycarpa* (Torr.) S. Watson | Final dark germination <30% | S-62 |
| 45 |  | Polygonaceae | *Calligonum mongolicum* Turcz. | Final dark germination <30% | S-55, S-70, S-75, S-76, S-77 |
| 46 |  |  | *Rheum moorcroftianum* Royle | Original work not accessed | S-63 |
| 47 |  |  | *Rumex pictus* Forssk. | Deficient data | S-2 |
| 48 | CORNALES | Cornaceae | *Cornus amomum* Mill. | Deficient data | S-1 |
| 49 |  | Hydrangeaceae | *Philadelphus sericanthus* Koehne | Deficient data | S-77 |
| 50 | CUCURBITALES | Cucurbitaceae | *Coccinia abyssinica* (Lam.) Cogn. | Original work not accessed | S-23 |
| 51 |  |  | *Echinocystis lobata* (Michx.) Torr. & A.Gray | Deficient data; Original work not accessed | S-2, S-13; S-61 |
| 52 | DIPSACALES | Caprifoliaceae | *Lonicera chrysantha* Turcz. ex Ledeb. | Deficient data | S-77 |
| 53 |  |  | *Lonicera rupicola* Hook. f. & Thomson | Deficient data | S-77 |
| 54 | FABALES | Fabaceae | *Acacia lasiocarpa* Benth. | Final dark germination <30% | S-5 |
| 55 |  |  | *Albizia saman* (Jacq.) Merr. | Deficient data; Original work not accessed | S-34, S-60; S-51,S-79 |
| 56 |  |  | *Caragana jubata* (Pall.) Poir. | Deficient data | S-33, S-77 |
| 57 |  |  | *Glycine tomentella* Hayata | Final dark germination <30% | S-14 |
| 58 |  |  | *Gompholobium marginatum* R.Br. | Final dark germination <30% | S-5 |
| 59 |  |  | *Hedysarum boreale* Nutt. | Deficient data | S-54 |
| 60 |  |  | *Lespedeza bicolor* Turcz. | Deficient data | S-77 |
| 61 |  |  | *Medicago doliata* Carmign. | Original work not accessed | S-58 |
| 62 |  |  | *Sophora alopecuroides* L. | Final dark germination <30% | S-76 |
| 63 |  |  | *Stylosanthes hamata* (L.) Taub. | Original work not accessed | S-39, S-40 |
| 64 |  |  | *Trifolium palaestinum* Boiss. | Deficient data | S-2 |
| 65 | GENTIANALES | Rubiaceae | *Galium aparine* L. | Deficient data; Original work not accessed | S-71, S-72; S-37 |
| 66 |  |  | *Plocama pendula* Aiton | Final dark germination <30% | S-50 |
| 67 | LAMIALES | Bignoniaceae | *Oroxylum indicum* (L.) Kurz | Deficient data; Original work not accessed | S-9, S-10, S-11, S-45; S-25, S-44 |
| 68 |  | Lamiaceae | *Ballota africana* (L.) Benth. | Final dark germination <30% | S-18 |
| 69 |  |  | *Leonotis nepetifolia* (L.) R.Br. | Final dark germination <30% | S-22 |
| 70 |  |  | *Rosmarinus officinalis* L. | Deficient data | S-49 |
| 71 |  | Oleaceae | *Syringa oblata* Lindl. | Deficient data | S-77 |
| 72 |  |  | *Syringa reticulata* (Blume) H.Hara | Deficient data | S-77 |
| 73 |  | Orobancaceae | *Orobanche aegyptiaca* Pers. | Original work not accessed | S-28 |
| 74 |  |  | *Orobanche crenata* Forssk. | Deficient data; Original work not accessed | S-48; S-26 |
| 75 |  |  | *Striga angustifolia* (D. Don) C.J. Saldanha | Original work not accessed | S-53 |
| 76 |  |  | *Striga densiflora* (Benth.) Benth. | Final dark germination <30% | S-32 |
| 77 |  | Scrophulariaceae | *Polycarena pumila* Levyns | Final dark germination <30% | S-18 |
| 78 | LAURALES | Lauraceae | *Umbellularia californica* (Hook. & Arn.) Nutt. | Deficient data | S-30 |
| 79 | LILIALES | Liliaceae | *Tulipa agenensis* DC. | Deficient data | S-56 |
| 80 |  |  | *Tulipa kaufmanniana* Regel | Deficient data | S-56 |
| 81 | MALPIGHIALES | Phyllanthaceae | *Phyllanthus urinaria* L. | Deficient data | S-8 |
| 82 |  | Violaceae | *Vicia hirsuta* (L.) Gray | Final dark germination <30% | S-41 |
| 83 | MALVALES | Dipterocarpaceae | *Hopea hainanensis* Merr. & Chun | Deficient data; Original work not accessed | S-80; S-78 |
| 84 |  |  | *Shorea trapezifolia* (Thwaites) P.S. Ashton | Deficient data | S-19 |
| 85 |  | Malvaceae | *Triumfetta rhomboidea* Jacq. | Deficient data; Original work not accessed | S-81, S-82; S-7 |
| 86 |  | Neuradaceae | *Grielum grandiflorum* (L.) Druce | Final dark germination <30% | S-18 |
| 87 | PINALES | Pinaceae | *Larix occidentalis* Nutt. | Deficient data | S-57 |
| 88 |  |  | *Picea purpurea* Mast. | Deficient data | S-76 |
| 89 | POALES | Poaceae | *Aegilops sharonensis* Eig | Deficient data | S-2 |
| 90 |  |  | *Ammochloa palaestina* Boiss. | Deficient data | S-2 |
| 91 |  |  | *Bromus danthoniae* Trin. | Original work not accessed | S-59 |
| 92 |  |  | *Bromus tectorum* L. | Deficient data; Original work not accessed | S-27; S-59 |
| 93 |  |  | *Cutandia dichotoma* (Forssk.) Trab. | Deficient data | S-2 |
| 94 |  |  | *Ehrharta calycina* Sm. | Final dark germination <30% | S-18 |
| 95 |  |  | *Hordeum murinum* subsp. *glaucum* (Steud.) Tzvelev | Original work not accessed | S-59 |
| 96 |  |  | *Poa cookii* (Hook.f.) Hook.f. | Original work not accessed | S-20 |
| 97 |  |  | *Zizania texana* Hitchc. | Deficient data | S-52 |
| 98 | RANUNCULALES | Papaveraceae | *Corydalis solida* (L.) Clairv. | Final dark germination <30% | S-29 |
| 99 |  | Ranuncolaceae | *Trollius europaeus* L. | Final dark germination <30% | S-36 |
| 100 | ROSALES | Rhamnaceae | *Rhamnus crocea* Nutt. | Deficient data | S-30 |
| 101 |  | Rosaceae | *Potentilla parvifolia* Fisch. ex Lehm. | Deficient data | S-77 |
| 102 |  |  | *Potentilla reptans* L. | Deficient data | S-77 |
| 103 |  |  | *Potentilla supina* L. | Deficient data | S-77 |
| 104 |  |  | *Spiraea bella* Sims | Deficient data | S-77 |
| 105 |  |  | *Spiraea rosthornii* E.Pritz. | Deficient data | S-77 |
| 106 |  | Urticaceae | *Urtica urens* L. | Final dark germination <30% | S-24 |
| 107 | SAPINDALES | Rutaceae | *Flindersia schottiana* F.Muell. | Deficient data | S-66 |
| 108 | SAXIFRAGALES | Saxifragaceae | *Parnassia affinis* Hook.f. & Thomson | Original work not accessed | S-63 |
| 109 | SOLANALES | Solanaceae | *Lycium chilense* Bertero | Original work not accessed | S-68 |
| 110 | ZYGOPHYLLALES | Zygophyllaceae | *Peganum harmala* L. | Final dark germination <30% | S-76, S-77 |
| 111 |  |  | *Peganum nigellastrum* Bunge | Final dark germination <30% | S-76 |
| 112 |  |  | *Zygophyllum mucronatum* Maxim. | Final dark germination <30% | S-76 |

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