

Penczykowski, R. M. and R. D. Sieg. 2021. *Plantago* spp. as models for studying the ecology and evolution of species interactions across environmental gradients. *American Naturalist* .

Table S1. Native range and total number of Web of Science records returned for each of the 247 *Plantago* species names included in the literature search.

<i>Plantago</i> species ¹	Native range ²	Web of Science records ³	Notes
<i>Plantago afra</i> L.	Mediterranean, North Africa, western Asia	9	
<i>Plantago africana</i> Verdc.	Eastern Africa	0	
<i>Plantago akkensis</i> Coss. & Murb.	Morocco	0	
<i>Plantago albicans</i> L.	Mediterranean	26	
<i>Plantago algarbiensis</i> Samp.	Southern Portugal to southwestern Spain	14	
<i>Plantago alismatifolia</i> Pilg.	Mexico	0	
<i>Plantago alopecurus</i> Decne.	Venezuela	0	
<i>Plantago alpestris</i> B.G.Briggs, Carolin & Pulley	Australia (New South Wales and Victoria)	0	
<i>Plantago alpina</i> L.	Mountains of central and southwest Europe	8	
<i>Plantago altissima</i> L.	East-central and southeastern Europe, western Asia, North Africa	11	
<i>Plantago amplexicaulis</i> Cav.	Mediterranean, North Africa, western Asia	8	
<i>Plantago anatolica</i> Tutel & R.R.Mill	Eastern Turkey	1	
<i>Plantago annua</i> Ryding	Ethiopia	1	Search returned 6 records, but 5 were actually about <i>Poa annua</i> and a different <i>Plantago</i> species
<i>Plantago antarctica</i> Decne.	Australia (New South Wales to Tasmania)	0	
<i>Plantago arachnoidea</i> Schrenk	Central Asia to northwestern China	0	
<i>Plantago arborescens</i> (Mirb.) Poir.	Canary Islands	2	
<i>Plantago arenaria</i> Waldst. & Kit.	Europe, North Africa, Asia (see synonym: <i>Plantago psyllium</i> L.)	16	Not a currently accepted species name
<i>Plantago argentea</i> Chaix	Southern Europe and Turkey	7	
<i>Plantago argentina</i> Pilg.	Northwestern Argentina (to Córdoba)	0	
<i>Plantago argyrea</i> E.Morris	Southwestern USA (Arizona to New Mexico) and northern Mexico	0	

<i>Plantago aristata</i> Michx.	Central and eastern North America	10	
<i>Plantago asiatica</i> L.	Central, eastern, and southern Asia	255	
<i>Plantago asphodeloides</i> Svent.	Canary Islands (Tenerife, Gran Canaria)	0	
<i>Plantago atlantica</i> Batt.	Algeria	0	
<i>Plantago atrata</i> Hoppe	Central and southern Europe	12	
<i>Plantago aucklandica</i> Hook.f.	Auckland Islands	1	
<i>Plantago aundensis</i> P.Royen	New Guinea	0	
<i>Plantago australis</i> Lam.	South America	12	
<i>Plantago baltistanica</i> H.Hartmann	Western Himalaya	1	
<i>Plantago barbata</i> G.Forst.	South America	1	
<i>Plantago bellardii</i> All.	Mediterranean, North Africa, western Asia	4	
<i>Plantago bellidioides</i> Decne.	Tasmania	0	
<i>Plantago benisnassenii</i> Romo, Stübing & Peris	Morocco	2	
<i>Plantago berroi</i> Pilg.	Argentina (Buenos Aires) to Uruguay	0	
<i>Plantago bigelovii</i> A.Gray	Western North America	0	Currently accepted species name on ITIS but not on POWO ¹
<i>Plantago bismarckii</i> Niederl.	Argentina (Buenos Aires)	1	
<i>Plantago boissieri</i> Hausskn. & Bornm.	Western Asia (Iraq to Iran and Arabian Peninsula)	6	
<i>Plantago bradei</i> Pilg.	Brazil (Minas Gerais: Serra do Caparaó)	1	
<i>Plantago brasiliensis</i> Sims	Brazil (Rio Grande do Sul) to southern South America	1	
<i>Plantago buchtienii</i> Pilg.	Bolivia to northwestern Argentina	0	
<i>Plantago cafra</i> Decne.	Namibia to South Africa (Western Cape Province)	0	
<i>Plantago camtschatica</i> Cham. ex Link	Eastern Asia	3	
<i>Plantago canescens</i> Adams	Northern Asia, northwestern North America	2	
<i>Plantago caricina</i> Decne.	Colombia	0	
<i>Plantago carnososa</i> Lam.	South Africa (Cape Provinces)	2	
<i>Plantago catharinea</i> Decne.	Southeastern and southern Brazil	3	
<i>Plantago cavaleriei</i> H.Lév.	China (southern Sichuan, Guizhou, Yunnan)	0	
<i>Plantago ciliata</i> Desf.	North Africa and western Asia (Canary Islands to Pakistan)	6	

<i>Plantago cladarophylla</i> B.G.Briggs, Carolin & Pulley	Australia (New South Wales)	0	
<i>Plantago commersoniana</i> Decne. & Barnéoud	Central and eastern South America (southeastern Paraguay to Brazil and Uruguay)	5	
<i>Plantago cordata</i> Lam.	Eastern North America	4	
<i>Plantago cornuti</i> Gouan	Europe and central, western, and northern Asia	7	
<i>Plantago coronopus</i> L.	Europe, western Asia, North Africa	149	
<i>Plantago corvensis</i> Hassemer	Brazil (Santa Catarina)	2	
<i>Plantago crassifolia</i> Forssk.	Mediterranean	14	
<i>Plantago cretica</i> L.	Eastern Mediterranean and western Asia	0	
<i>Plantago crypsoides</i> Boiss.	Mediterranean (Malta, Kriti, and Libya to Jordan)	2	
<i>Plantago cunninghamii</i> Decne.	Eastern and southeastern Australia	2	
<i>Plantago cylindrica</i> Forssk.	North Africa and western Asia (Egypt to southwestern Pakistan)	0	
<i>Plantago cyrenaica</i> E.A.Durand & Barratte	Northeastern Libya	0	
<i>Plantago dardanae</i> Rexhepi & D.Dimitrov	Kosovo	0	
<i>Plantago debilis</i> R.Br.	Eastern and southeastern Australia	0	
<i>Plantago densa</i> (Pilg.) Rahn	Argentina (San Luis, Córdoba)	0	
<i>Plantago depauperata</i> Merr. & L.M.Perry	New Guinea	0	
<i>Plantago depressa</i> Willd.	Central and eastern Asia	28	
<i>Plantago dielsiana</i> Pilg.	Northeastern Argentina to Uruguay	0	
<i>Plantago drummondii</i> Decne.	Australia	3	
<i>Plantago elongata</i> Pursh	Central and western North America	0	
<i>Plantago erecta</i> E.Morris	Western North America	17	
<i>Plantago eriopoda</i> Torr.	Western North America	2	
<i>Plantago euana</i> Hürl.	Tonga ('Eua)	0	
<i>Plantago euphratica</i> Decne. ex Barnéoud	Eastern Turkey	0	
<i>Plantago euryphylla</i> B.G.Briggs, Carolin & Pulley	Southeastern Australia (New South Wales to Victoria)	4	
<i>Plantago evacina</i> Boiss.	Western Asia (Iran to Afghanistan)	0	

<i>Plantago exigua</i> Murray	Northeast Africa (Egypt), western and southern Asia (Iran to India)	0	
<i>Plantago exilis</i> Decne.	Western Australia	0	
<i>Plantago famarae</i> Svent.	Canary Islands	1	
<i>Plantago fengdouensis</i> (Z.E.Chao & Yong Wang) Yong Wang & Z.Yu Li	China (Chongqing)	3	
<i>Plantago fernandezia</i> Bertero ex Barnéoud	Juan Fernández Islands	0	
<i>Plantago firma</i> Kunze ex Walp.	Juan Fernández Islands and central and southern Chile	0	
<i>Plantago fischeri</i> Engl.	Northern Tanzania	0	
<i>Plantago floccosa</i> Decne.	Mexico	0	
<i>Plantago galapagensis</i> Rahn	Galápagos	0	
<i>Plantago gaudichaudii</i> Barnéoud	Australia (New South Wales)	1	
<i>Plantago gentianoides</i> Sm.	Southeastern Europe and Turkey	1	
<i>Plantago glabrata</i> Hook.f.	Tasmania	0	
<i>Plantago glacialis</i> B.G.Briggs, Carolin & Pulley	Southeastern Australia (New South Wales to Victoria)	1	
<i>Plantago goudotiana</i> Decne.	Colombia	0	
<i>Plantago grandiflora</i> Meyen	Central Chile to western Argentina	1	
<i>Plantago griffithii</i> Decne.	Western and central Asia	1	
<i>Plantago guilleminiana</i> Decne.	Southern and southeastern Brazil	2	
<i>Plantago gunnii</i> Hook.f.	Tasmania	0	
<i>Plantago hasskarlii</i> Decne.	Java	0	
<i>Plantago hatschbachiana</i> Hassemer	Brazil (Mato Grosso do Sul, Paraná)	1	
<i>Plantago hawaiiensis</i> (A.Gray) Pilg.	Hawaiian Islands	1	
<i>Plantago hedleyi</i> Maiden	Lord Howe Island	0	
<i>Plantago helleri</i> Small	South-central USA to northeastern Mexico	0	
<i>Plantago heterophylla</i> Nutt.	Central and eastern USA to Mexico (Baja California Norte, Sonora), and Paraguay to Uruguay	0	
<i>Plantago himalaica</i> Pilg.	Himalaya	2	
<i>Plantago hispida</i> R.Br.	Eastern and southeastern Australia	0	
<i>Plantago hispidula</i> Ruiz & Pav.	Northern and central Chile	2	
<i>Plantago holosteum</i> Scop.	See synonym: <i>Plantago subulata</i> L.	15	Not a currently accepted species name
<i>Plantago hookeriana</i> Fisch. & C.A.Mey.	Southern USA (Texas to Alabama) and northern Mexico	2	
<i>Plantago humboldtiana</i> Hassemer	Brazil (Santa Catarina)	1	

<i>Plantago incisa</i> Hassk.	Java	0	
<i>Plantago indica</i> L.	Europe to Siberia and Iran, and North Africa	7	
<i>Plantago intermedia</i>	See synonym: <i>Plantago major</i> L.	11	Not a currently accepted species name
<i>Plantago johnstonii</i> Pilg.	Chile (southwestern Antofagasta)	1	
<i>Plantago jujuyensis</i> Rahn	Argentina (Jujuy)	0	
<i>Plantago jurtzevii</i> (Tzvelev) Tzvelev	Northern Russian Far East	0	
<i>Plantago komarovii</i> Pavlov	Southwestern Siberia to northern China	0	
<i>Plantago krascheninnikovii</i> Serg.	Eastern Russia and western Siberia	0	
<i>Plantago lachnantha</i> Bunge	Central Asia to Afghanistan	0	
<i>Plantago lagocephala</i> Bunge	Central Asia	1	
<i>Plantago lagopus</i> L.	Mediterranean, North Africa, western Asia	39	
<i>Plantago lamprophylla</i> Pilg.	Peru and Bolivia	0	
<i>Plantago lanceolata</i> L.	Europe and western Asia	1454	
<i>Plantago lanigera</i> Hook.f.	New Zealand	4	
<i>Plantago laxiflora</i> Decne.	South Africa (Cape Provinces)	0	
<i>Plantago leucophylla</i> Decne.	Northwestern Venezuela	0	
<i>Plantago libyca</i> Bég. & A.Vacc.	Libya	0	
<i>Plantago limensis</i> Pers.	Peru to Chile (Tarapacá)	1	
<i>Plantago linearis</i> Kunth	Mexico to Guatemala, western South America to northwestern Venezuela	0	Search returned 1 record, but it was actually about <i>Phacelia linearis</i> and <i>Plantago lanceolata</i>
<i>Plantago litorea</i> Phil.	Chile	0	
<i>Plantago loeflingii</i> L.	Western Mediterranean	0	
<i>Plantago longissima</i> Decne.	South Africa	0	
<i>Plantago lundborgii</i> Sparre	Desvendurados Islands	0	
<i>Plantago macrocarpa</i> Cham. & Schldl.	Northwestern North America	1	
<i>Plantago maireana</i> Hassemer	Northeastern Libya	1	
<i>Plantago major</i> L.	Europe and western Asia	709	
<i>Plantago malato-belizii</i> Lawalrée	Madeira	1	
<i>Plantago maris-mortui</i> Eig	Israel to Arabian Peninsula	0	
<i>Plantago maritima</i> L.	Europe, northwest Africa, northern and central Asia, northern North America, southern South America	136	
<i>Plantago mauritanica</i> Boiss. & Reut.	North Africa	0	
<i>Plantago maxima</i> Juss. ex Jacq.	Eastern Europe and central Asia	6	
<i>Plantago media</i> L.	Europe	100	
<i>Plantago minuta</i> Pall.	Central Asia	7	

<i>Plantago × mixta</i> Domin	Europe (Czechoslovakia and France)	0	
<i>Plantago mohnikei</i> Miq.	Japan	0	
<i>Plantago monanthos</i> d'Urv.	Southern South America	0	
<i>Plantago monosperma</i> Pourr.	Western Europe	0	
<i>Plantago monticola</i> Decne.	Southern Peru to northwestern Argentina	0	
<i>Plantago montisdicksonii</i> P.Royen	Papua New Guinea	0	
<i>Plantago moorei</i> Rahn	Falkland Islands	2	
<i>Plantago muelleri</i> Pilg.	Southeastern Australia	0	
<i>Plantago multiscapa</i> B.G.Briggs	Australia (New South Wales, Northern Territory, South Australia)	0	
<i>Plantago myosuroides</i> Lam.	South America (Peru to southern Brazil and Argentina)	3	
<i>Plantago napiformis</i> (Rahn) Hassemer	South America (central and southern Brazil to northeastern Argentina)	2	
<i>Plantago nebularis</i> Hassemer	Chile (Antofagasta)	1	
<i>Plantago nivalis</i> Boiss.	Southern Spain (Sierra Nevada)	3	
<i>Plantago nivea</i> Kunth	Mexico to Guatemala	0	
<i>Plantago notata</i> Lag.	North Africa, Mediterranean, and western Asia	1	
<i>Plantago novae-zelandiae</i> L.B.Moore	New Zealand	5	
<i>Plantago nubicola</i> (Decne.) Rahn	South America (southern Peru to northwestern Argentina)	1	
<i>Plantago obconica</i> Sykes	New Zealand South Island	1	
<i>Plantago orbignyana</i> Steinh. ex Decne.	South America (Ecuador to northwestern Argentina)	2	
<i>Plantago orzuiensis</i> Mohsenz., Nazeri & Mirtadz.	Iran (Kerman)	1	
<i>Plantago ovata</i> Forssk.	Southeast Spain, North Africa to India and Somalia, southwest and south-central USA to northern Mexico	404	
<i>Plantago pachyneura</i> Steud.	South America (northern and central Chile to Argentina)	1	
<i>Plantago pachyphylla</i> A.Gray	Hawaiian Islands	2	
<i>Plantago palmata</i> Hook.f.	Central Africa	2	
<i>Plantago palustris</i> L.R.Fraser & Vickery	Australia (New South Wales)	0	
<i>Plantago papuana</i> P.Royen	New Guinea	0	
<i>Plantago paradoxa</i> Hook.f.	Tasmania	1	
<i>Plantago patagonica</i> Jacq.	North and South America	12	
<i>Plantago peloritana</i> Lojac.	Italy (Sicily)	0	

<i>Plantago penantha</i> Griseb.	Brazil (Rio Grande do Sul) to northeastern Argentina	0	
<i>Plantago pentasperma</i> Hemsl.	Amsterdam Island	0	
<i>Plantago perssonii</i> Pilg.	Southwestern Xinjiang	0	
<i>Plantago phaeostoma</i> Boiss. & Heldr.	Northeastern Africa and eastern Mediterranean	1	
<i>Plantago picta</i> Colenso	Northeastern New Zealand, North Island	2	
<i>Plantago pilgeriana</i> Hassemer	Morocco	1	
<i>Plantago podlechii</i> Akhani	Northeastern Iran	0	
<i>Plantago polita</i> Craven	Papua New Guinea	0	
<i>Plantago polysperma</i> Kar. & Kir.	Central and western Asia	0	
<i>Plantago popovii</i> Tzvelev	Russian Far East and Japanese archipelago	0	
<i>Plantago pretoana</i> (Rahn) Hassemer	Southeastern Brazil (Serra do Itatiaia)	1	
<i>Plantago princeps</i> Cham. & Schltdl.	Hawaii	1	
<i>Plantago psammophila</i> Agnew & Chal.-Kabi	Western Asia (Iraq to Arabian Peninsula)	1	
<i>Plantago psyllium</i> L.	See synonym: <i>Plantago arenaria</i> Waldst. & Kit	85	Currently accepted species name on ITIS but not on POWO ¹
<i>Plantago pusilla</i> Nutt.	Central and eastern USA	0	
<i>Plantago pyrophila</i> Villarroel & J.R.I.Wood	Eastern Bolivia	0	
<i>Plantago rahniana</i> Hassemer & R.Trevis.	Brazil (Santa Catarina)	3	
<i>Plantago rancaguae</i> Steud.	Northern and central Chile	0	
<i>Plantago raoulii</i> Decne.	New Zealand	3	
<i>Plantago rapensis</i> F.Br.	Rapa Iti	0	
<i>Plantago remota</i> Lam.	South Africa (Cape Provinces)	0	
<i>Plantago reniformis</i> Beck	Southeastern Europe	4	
<i>Plantago rhizoxylon</i> Emb.	Morocco	0	
<i>Plantago rhodosperma</i> Decne.	Central and southern USA, northern and eastern Mexico, and Bahamas	3	
<i>Plantago rigida</i> Kunth	Northwestern South America	6	
<i>Plantago robusta</i> Roxb.	St. Helena	1	
<i>Plantago rugelii</i> Decne.	Eastern North America	10	
<i>Plantago rupicola</i> Pilg.	Rapa Iti	0	
<i>Plantago sabulosa</i> Danin & Raus	Israel	0	
<i>Plantago salsa</i> Pall.	Central Asia, Siberia, northern and western China	0	
<i>Plantago schwarzenbergiana</i> Schur	Southeastern Europe (Hungary to Romania and southern Ukraine)	4	

<i>Plantago sempervirens</i> Crantz	Southern Europe	6	
<i>Plantago sempervivoides</i> Dusén	Southern Chile to Argentina (Santa Cruz)	0	
<i>Plantago sericea</i> Ruiz & Pav.	Northwestern South America	1	
<i>Plantago serraria</i> L.	Central and western Mediterranean	6	
<i>Plantago sharifii</i> Rech.f. & Esfand.	Southern Iran	0	
<i>Plantago sinaica</i> (Barnéoud) Decne.	Sinai to western Jordan	2	
<i>Plantago sparsiflora</i> Michx.	Southeastern USA	0	
<i>Plantago spathulata</i> Hook.f.	New Zealand	3	
<i>Plantago squarrosa</i> Murray	Eastern Mediterranean	3	
<i>Plantago stauntonii</i> Reichardt	New Amsterdam and St. Paul Islands	0	
<i>Plantago stenophylla</i> Merr. & L.M.Perry	New Guinea	0	
<i>Plantago stocksii</i> Boiss. ex Decne.	Western Asia (eastern Arabian Peninsula, Iran, Afghanistan, and Pakistan)	0	
<i>Plantago stricta</i> Schousb.	Canary Islands, Morocco, Syria to northeastern Tropical Africa, and northern Tanzania	0	
<i>Plantago strictissima</i> L.	Central and southern Europe and Crimea	2	
<i>Plantago subnuda</i> Pilg.	Western USA	0	
<i>Plantago subspathulata</i> Pilg.	Madeira	0	
<i>Plantago subulata</i> L.	Mediterranean and south-central Europe	9	
<i>Plantago tacnensis</i> Pilg.	Southern Peru	0	
<i>Plantago tanalensis</i> Baker	Madagascar	0	
<i>Plantago tandilensis</i> (Pilg.) Rahn	Eastern Argentina	0	
<i>Plantago tasmanica</i> Hook.f.	Tasmania	1	
<i>Plantago tatarica</i> Decne.	Iran to central Asia and Pakistan	1	
<i>Plantago tehuelcha</i> Speg.	Southern Chile to southern Argentina	0	
<i>Plantago tenuiflora</i> Waldst. & Kit.	Eastern Europe and central Asia	3	
<i>Plantago tenuipala</i> (Rahn) Rahn	Colombia	0	
<i>Plantago toluensis</i> Pilg.	Central Mexico	0	
<i>Plantago tomentosa</i> Lam.	South America	10	
<i>Plantago triandra</i> Berggr.	New Zealand	4	
<i>Plantago triantha</i> Spreng.	Tasmania and Auckland Islands	1	
<i>Plantago trichophora</i> Merr. & L.M.Perry	New Guinea	0	
<i>Plantago trinitatis</i> Rahn	Trindade Island (Brazil; not to be confused with Trinidad)	1	
<i>Plantago truncata</i> Cham. & Schldl.	Central Chile	0	

<i>Plantago tubulosa</i> Decne.	East-central Mexico, and Ecuador to northwestern Argentina	3	
<i>Plantago tunetana</i> Murb.	Algeria to Tunisia	0	
<i>Plantago turficola</i> Rahn	Southern Brazil	1	
<i>Plantago turrifera</i> B.G.Briggs, Carolin & Pulley	Australia	0	
<i>Plantago tweedyi</i> A.Gray	West-central USA	0	
<i>Plantago udicola</i> Meudt & Garn.-Jones	New Zealand South Island	1	
<i>Plantago unibracteata</i> Rahn	New Zealand	3	
<i>Plantago urvillei</i> Opiz	Europe to Siberia and northern China	1	
<i>Plantago varia</i> R.Br.	Eastern and southeastern Australia	0	
<i>Plantago veadeirensis</i> Hassemer	Brazil (Goiás)	0	
<i>Plantago ventanensis</i> Pilg.	Argentina (Buenos Aires)	0	
<i>Plantago venturii</i> Pilg.	Argentina (Catamarca, Tucumán)	0	
<i>Plantago virginica</i> L.	North America	13	
<i>Plantago webbii</i> Barnéoud	Canary Islands	1	
<i>Plantago weddelliana</i> Decne.	Southwestern and south-central Bolivia to Argentina (Salta)	0	
<i>Plantago weldenii</i> Rchb.	Mediterranean (including North Africa and southern Europe) to Iran and Arabian Peninsula	2	
<i>Plantago wrightiana</i> Decne.	Southern USA (West Virginia to Arizona) and northeastern Mexico	2	
<i>Plantago zoellneriana</i> Hassemer	South-central Chile	1	

Footnotes:

1. Species names retrieved from POWO (<http://powo.science.kew.org/>) and ITIS (<https://www.itis.gov/>).
2. Native range information is from <https://npgsweb.ars-grin.gov/gringlobal/search>, <https://www.cabi.org/isc>, and <http://www.plantsoftheworldonline.org/>.
3. See Table S2 for the standardized format of each of the literature searches.