

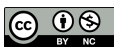
Manu Biosphere Reserve, Paucartambo, Cusco, Peru, 2800 to 4100 msnm

COMMON PLANTS OF THE GRASSLANDS OF MANU

Lucely L.Vilca-Bustamante¹, Paul Santos-Andrade¹, Jhonatan Sallo-Bravo¹, Vigdis Vandvik², Brian J. Enquist³ & William Farfan-Rios⁴

¹Universidad Nacional de San Antonio Abad del Cusco, ²University of Bergen, ³University of Arizona, & ⁴Living Earth Collaborative Washington University in Saint Louis, Missouri Botanical Garden

Photos: Lucely L.Vilca-Bustamante, Rudi Cruz-Chino, Cristhian Alvarez-Conza, Jhonatan Sallo-Bravo, Wilian Cárdenas-Enriquez, Aud H. Albritter, Brian J. Enquist, Jonathan von Oppen and William Farfan-Rios. Produced by Lucely L.Vilca-Bustamante [vilca.lu01@gmail.com]. With the support of the University of Bergen, University of Arizona and the Herbario Vargas CUZ - Universidad Nacional de San Antonio Abad del Cusco.



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1 *Bomarea brevis*
ALSTROEMERIACEAE



2 *Bomarea sericea*
ALSTROEMERIACEAE



3 *Azorella biloba*
APIACEAE



4 *Azorella biloba*
APIACEAE



5 *Daucus montanus*
APIACEAE



6 *Eryngium weberbaueri*
APIACEAE



7 *Oreomyrrhis andicola*
APIACEAE



8 *Niphogeton dissecta*
APIACEAE



9 *Niphogeton dissecta*
APIACEAE



10 *Achyrocline ramosissima*
ASTERACEAE



11 *Ageratina sternbergiana*
ASTERACEAE



12 *Antennaria linearifolia*
ASTERACEAE



13 *Aphanactis villosa*
ASTERACEAE



14 *Baccharis caespitosa*
ASTERACEAE



15 *Baccharis peruviana*
ASTERACEAE



16 *Baccharis genistelloides*
ASTERACEAE



17 *Baccharis tricuneata*
ASTERACEAE



18 *Bidens triplinervia*
ASTERACEAE



19 *Chaptalia cordata*
ASTERACEAE



20 *Chaptalia cordata*
ASTERACEAE

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21 *Cosmos peucedanifolius*
 ASTERACEAE



22 *Diplostephium haenkei*
 ASTERACEAE



23 *Gamochaeta coarctata*
 ASTERACEAE



24 *Hypochaeris taraxacoides*
 ASTERACEAE



25 *Gnaphalium dombeyanum*
 ASTERACEAE



26 *Hieracium leptcephalum*
 ASTERACEAE



27 *Laestadia muscicola*
 ASTERACEAE



28 *Laestadia muscicola*
 ASTERACEAE



29 *Oritrophium hieracioides*
 ASTERACEAE



30 *Oritrophium hieracioides*
 ASTERACEAE



31 *Perezia pungens*
 ASTERACEAE



32 *Senecio burkartii*
 ASTERACEAE



33 *Senecio burkartii*
 ASTERACEAE



34 *Senecio rhizomathus*
 ASTERACEAE



35 *Stevia pennellii*
 ASTERACEAE



36 *Werneria nubigena*
 ASTERACEAE



37 *Werneria villosa*
 ASTERACEAE

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38 *Begonia veitchii*
BEGONIACEAE



39 *Blechnum auratum*
BLECHNACEAE



40 *Puya leptostachya*
BROMELIACEAE



41 *Lysipomia glandulifera*
CAMPANULACEAE



42 *Lysipomia laciniata*
CAMPANULACEAE



43 *Lysipomia laciniata*
CAMPANULACEAE



44 *Lysipomia sphagnophila*
CAMPANULACEAE



45 *Siphocampylus elfriedi*
CAMPANULACEAE



46 *Belonanthus angustifolius*
CAPRIFOLIACEAE



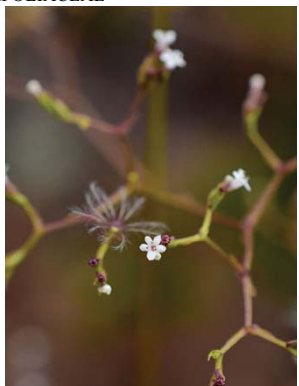
47 *Belonanthus hispidus*
CAPRIFOLIACEAE



48 *Phyllactis rigida*
CAPRIFOLIACEAE



49 *Valeriana linearifolia*
CAPRIFOLIACEAE



50 *Valeriana jasminoides*
CAPRIFOLIACEAE



51 *Valeriana jasminoides*
CAPRIFOLIACEAE



52 *Cerastium arvense*
CARYOPHYLLACEAE



53 *Clethra cuneata*
CLETHRACEAE

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54 *Desfontainia spinosa*
COLUMELLIACEAE



55 *Carex boliviensis*
CYPERACEAE



56 *Carex boliviensis*
CYPERACEAE



57 *Carex bonplandii*
CYPERACEAE



58 *Carex bonplandii*
CYPERACEAE



59 *Carex cf. crinalis*
CYPERACEAE



60 *Carex cf. crinalis*
CYPERACEAE



61 *Carex pichinchensis*
CYPERACEAE



62 *Carex pichinchensis*
CYPERACEAE



63 *Carex pygmaea*
CYPERACEAE



64 *Carex pygmaea*
CYPERACEAE



65 *Carex* sp.
CYPERACEAE



66 *Carex* sp.
CYPERACEAE



67 *Oreobolus cf. goeppingeri*
CYPERACEAE



68 *Oreobolus cf. goeppingeri*
CYPERACEAE

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69 *Oreobolus venezuelensis*
CYPERACEAE



70 *Oreobolus venezuelensis*
CYPERACEAE



71 *Oreobolopsis tepalifera*
CYPERACEAE



72 *Rhynchospora cf. ruiziana*
CYPERACEAE



73 *Rhynchospora cf. ruiziana*
CYPERACEAE



74 *Rhynchospora macrochaeta*
CYPERACEAE



75 *Trichophorum rigidum*
CYPERACEAE



76 *Trichophorum rigidum*
CYPERACEAE



77 *Pteridium aquilinum*
DENNSTAEDTIACEAE



78 *Elaphoglossum amphioxys*
DRYOPTERIDACEAE



79 *Elaphoglossum engelii*
DRYOPTERIDACEAE



80 *Elaphoglossum huacsaro*
DRYOPTERIDACEAE



81 *Demosthenesia mandonii*
ERICACEAE



82 *Demosthenesia spectabilis*
ERICACEAE



83 *Disterigma empetrifolium*
ERICACEAE



84 *Disterigma pernettyoides*
ERICACEAE



85 *Gaultheria erecta*
ERICACEAE

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86 *Gaultheria bracteata*
ERICACEAE



87 *Gaultheria glomerata*
ERICACEAE



88 *Gaultheria myrsinoides*
ERICACEAE



89 *Gaultheria vaccinioides*
ERICACEAE



90 *Siphonandra elliptica*
ERICACEAE



91 *Vaccinium floribundum*
ERICACEAE



92 *Paepalanthus dendroides*
ERIOCAULACEAE



93 *Eriocaulon microcephalum*
ERIOCAULACEAE



94 *Euphorbia huanchahana*
EUPHORBIACEAE



95 *Gentiana sedifolia*
GENTIANACEAE



96 *Gentianella ernestii*
GENTIANACEAE



97 *Gentianella* sp.
GENTIANACEAE



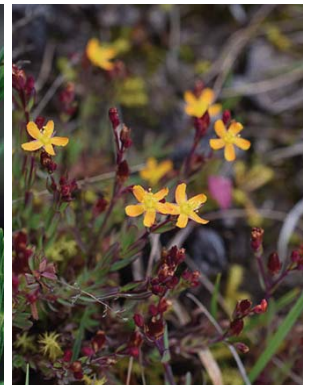
98 *Halenia umbellata*
GENTIANACEAE



99 *Geranium sessiliflorum*
GERANIACEAE



100 *Hypericum andinum*
HYPERICACEAE



101 *Hypericum caespitosum*
HYPERICACEAE

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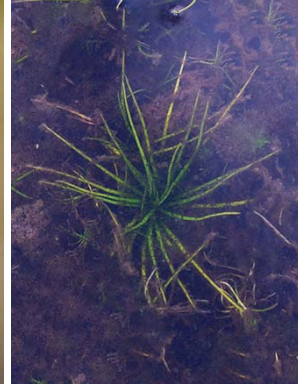
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102 *Sisyrrinchium cf. jamesonii*
IRIDACEAE



103 *Sisyrrinchium vaginatum*
IRIDACEAE



104 *Isoetes lechleri*
ISOETACEAE



105 *Isoetes lechleri*
ISOETACEAE



106 *Juncus balticus*
JUNCACEAE



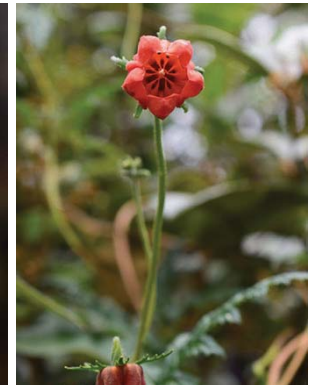
107 *Luzula racemosa*
JUNCACEAE



108 *Luzula racemosa*
JUNCACEAE



109 *Pinguicula involuta*
LENTIBULARIACEAE



110 *Caiphora contorta*
LOASACEAE



111 *Huperzia weberbaueri*
LYCOPODIACEAE



112 *Lycopodium clavatum*
LYCOPODIACEAE



113 *Lycopodium thyoides*
LYCOPODIACEAE



114 *Brachyotum grisebachii*
MELASTOMATACEAE



115 *Brachyotum nutans*
MELASTOMATACEAE



116 *Miconia rotundifolia*
MELASTOMATACEAE



117 *Miconia rotundifolia*
MELASTOMATACEAE



118 *Calandrinia acaulis*
MONTIACEAE

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119 *Myrteola phyllicoides*
MYRTACEAE



120 *Aa matthewsii*
ORCHIDACEAE



121 *Cyrtochilum aureum*
ORCHIDACEAE



122 *Gomphichis valida*
ORCHIDACEAE



123 *Myrosmodos paludosa*
ORCHIDACEAE



124 *Pterichis leucoptera*
ORCHIDACEAE



125 *Pterichis silvestris*
ORCHIDACEAE



126 *Pterichis triloba*
ORCHIDACEAE



127 *Pterichis cf. weberbaueriana*
ORCHIDACEAE



128 *Telipogon venustus*
ORCHIDACEAE



129 *Agalinis pennellii*
OROBANCHACEAE



130 *Neobartisia trichophylla*
OROBANCHACEAE



131 *Neobartisia cf. inequalis*
OROBANCHACEAE



132 *Oxalis oreocharis*
OXALIDACEAE



133 *Peperomia verruculosa*
PIPERACEAE



134 *Ourisia chamaedrifolia*
PLANTAGINACEAE



135 *Plantago rigida*
PLANTAGINACEAE



136 *Plantago tubulosa*
PLANTAGINACEAE



137 *Agrostis breviculmis*
POACEAE

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138 *Agrostis breviculmis*
POACEAE



139 *Agrostis foliata*
POACEAE



140 *Agrostis foliata*
POACEAE



141 *Agrostis mertensii*
POACEAE



142 *Agrostis mertensii*
POACEAE



143 *Agrostis trichodes*
POACEAE



144 *Agrostis trichodes*
POACEAE



145 *Anatherostipa hans-meyeri*
POACEAE



146 *Anatherostipa hans-meyeri*
POACEAE



147 *Bromus lanatus*
POACEAE



148 *Calamagrostis cf. rigida*
POACEAE



149 *Calamagrostis cf. rigida*
POACEAE



150 *Calamagrostis cf. rigida*
POACEAE



151 *Calamagrostis cf. amoena*
POACEAE



152 *Calamagrostis cf. amoena*
POACEAE



153 *Calamagrostis tarmensis*
POACEAE



154 *Calamagrostis tarmensis*
POACEAE

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155 *Chusquea intipaqariy*
POACEAE



156 *Chusquea intipaqariy*
POACEAE



157 *Cortaderia bifida*
POACEAE



158 *Cortaderia bifida*
POACEAE



159 *Cortaderia hapalotricha*
POACEAE



160 *Cortaderia hapalotricha*
POACEAE



161 *Danthonia secundiflora*
POACEAE



162 *Danthonia secundiflora*
POACEAE



163 *Danthonia secundiflora*
POACEAE



164 *Festuca procera*
POACEAE



165 *Festuca procera*
POACEAE



166 *Paspalum bonplandianum*
POACEAE



167 *Paspalum bonplandianum*
POACEAE



168 *Poa annua*
POACEAE



169 *Poa annua*
POACEAE



170 *Poa candamoana*
POACEAE



171 *Poa candamoana*
POACEAE



172 *Poa spicigera*
POACEAE



173 *Poa spicigera*
POACEAE

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174 *Muehlenbeckia volcanica*
POLYGONACEAE



175 *Polygonum hydropiperoides*
POLYGONACEAE



176 *Melpomene moniliformis*
POLYPODIACEAE



177 *Myrsine coriacea*
PRIMULACEAE



178 *Eriosorus cheilanthoides*
PTERIDACEAE



179 *Jamesonia blepharum*
PTERIDACEAE



180 *Jamesonia alstonii*
PTERIDACEAE



181 *Oreithales integrifolia*
RANUNCULACEAE



182 *Acaena cylindristachya*
ROSACEAE



183 *Hesperomeles heterophylla*
ROSACEAE



184 *Lachemilla jamesonii*
ROSACEAE



185 *Lachemilla orbiculata*
ROSACEAE



186 *Lachemilla cf. vulcanica*
ROSACEAE



187 *Rubus roseus*
ROSACEAE



188 *Arcytophyllum filiforme*
RUBIACEAE



189 *Galium corymbosum*
RUBIACEAE

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190 *Nertera granadensis*
RUBIACEAE



191 *Nertera granadensis*
RUBIACEAE



192 *Viola pygmaea*
VIOLACEAE



193 *Viola pygmaea*
VIOLACEAE



194 *Viola thymifolia*
VIOLACEAE



195 *Viola tricolor*
VIOLACEAE



196 *Viola tricolor*
VIOLACEAE



197 *Xyris subulata*
XYRIDACEAE



198 *Xyris subulata*
XYRIDACEAE



View of the Manu National Park wet Puna grassland ecosystem on the eastern slope of the Peruvian Andes.