

## NETHERLANDS/BIRMINGHAM UNIVERSITY POTATO COLLECTING EXPEDITION, 1974

AST

## ASTLEY COLLECTION(BOLIVIA)

- 001 Solanum acaule Dept. La Paz, prov Pacajes, 8Km from Caquia viri on the road to Antaquiria. Lat.  $67^{\circ} 37' W$  Long.  $17^{\circ} 07' S$  Alt. 4000m. weed, frequent, S. Growing as a weed of cultivated potatoes. 26.2.74
- 002 S. sparsipilum Dept. La Paz, prov Murillo, La Paz Botanic Garden. Lat.  $68^{\circ} 07' W$  Long.  $16^{\circ} 32' S$ , Alt. 3850m. weed, frequent, S, T, H. A. Growing as a weed in the garden borders. B. Growing in shade between a wall and a hedge. 14.3.74
- 003 S. sparsipilum/liriunianum Dept. Cochabamba, prov Quillacollo, 13 Km from Quillacollo on the road to Liriuni and Morochata. Lat.  $66^{\circ} 20' W$  Long.  $17^{\circ} 24' S$ , Alt. 3060m. wild occasional, H. Growing in shadow amongst stones in vegetation bordering a maize field. 20.3.74
- 004 S. brevicaule Dept. Cochabamba, prov Quillacollo, 22Km on the road from Quillacollo to Morochata, Quillacollo side of Puenta San Miguel ford. Lat.  $66^{\circ} 22' W$  Long.  $17^{\circ} 21' S$  Alt. 3750m. wild, frequent T. Growing in shade under Polyepsis on slopes 5-10m. above road. 20.3.74
- 005 S. brevicaule as 004, other side of ford and small plants upstream from ford. Lat.  $66^{\circ} 22' W$  Long.  $17^{\circ} 21' S$  Alt. 3750m. wild, rare, H. In small clearing above the road majority of plants small. 20.3.74
- 006 S. brevicaule? as 005 wild, rare, H. 20.3.74
- 007 S. sp. (sparsipilum) Dept. Cochabamba, prov Quillacollo, 15Km on the road Quillacollo to Morochata. Lat.  $66^{\circ} 21' W$  Long.  $17^{\circ} 23' S$  Alt. 3300m. wild, rare T.H. Under bushes on stony ground 10m. above road. Poor specimen chlorotic and insect/animal damage. 20.3.74
- 008 S. capsicibaccatum as 007. Lat.  $66^{\circ} 21' W$  Long.  $17^{\circ} 23' S$  Alt. 3300m. wild, rare T.H. On cliff face amongst stones and in crevices, five plants only. 20.3.74
- 009 S. sparsipilum Dept. Cochabamba, prov Capinota, 1Km past Itapaya on the road from Parotani to Capinota. Lat.  $66^{\circ} 20' W$  Long.  $17^{\circ} 40' S$ , Alt. 2400m. weed, frequent S.H. Growing at the border and in a maize field. Shade form, large leaflets with decurrency of primary laterals and wide rachis winging. 22.3.74
- 010 S. sparsipilum as 009 weed, frequent S.H. Growing on pathbeside maize field close to 009. Smaller leaflets and narrower rachis wings. 22.3.74
- 011 S. sparsipilum as 009, but 2Km. on towards Capinota. Lat.  $66^{\circ} 20' W$  Long.  $17^{\circ} 40' S$  Alt. 2400m. weed, frequent S.H. Growing on edge of maize field under Algarroba bush. Narrow leaflets compared with 009 and 010, slight decurrency of primary laterals. 22.3.74.
- 012 S. sparsipilum as 011 on opposite side of road in a river cutting. weed, occasional S.H. Growing on perimeter of maize field. Leaflets broader than 011, rachis winging and strong decurrency of primary laterals. 22.3.74
- 013 S. sparsipilum as 009 4Km. past Itapaya on the road from Parotani to Capinota. Alt. 2400m. weed, occasional S.H. Under Algarroba tree on the edge of a maize field. Large leaflets, slight decurrency and winging only in some leaves. 22.3.74

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- 014 S. sparsipilum Dept. Cochabamba, prov Capinota 1Km past Charamoco on the road from Parotani to Capinota. Lat.  $16^{\circ} 17' W$  Long.  $17^{\circ} 43' S$ . Alt. 2400m. weed, occasional S.H. Growing under Algarroba tree on the edge of a cereal field. Slight decurrency, winged rachis. 22·3·74
- 015 S. sucrense/sparsipilum as 014 lower down the field. Alt. 2400m. weed, occasional S.H. Growing on the edge of a cereal field. Large leaves, with interjected leaflets. 22·3·74
- 016 S. sparsipilum as 014 same field, lower than 015. weed, occasional S.H. Growing under cut Algarroba branches at field margin. 22·3·74
- 017 S. sp. As 014, on opposite side of road. Weed, rare S. Edge of maize field. 22·3·74
- 018 S. sparsipilum Dept. Cochabamba, prov Capinota 5 Km. from Capinota on the road to Parotani. Alt. 2400m. Weed, occasional S. Growing on roadside verg e of a fallow field. 22·3·74
- 019 S. sparsipilum As 018 but on opposite side of road. Weed, occasional S. Growing on roadside verge of a maize field. 22·3·74
- 020 S. sp. 'Pisco papa' Dept. Chuquisaca, prov Oropesa, 10Km. from Sucre on the road to Zudanez, Loman Punta. Lat.  $65^{\circ} 15' W$  Long.  $19^{\circ} 05' S$  Alt. 2800m. Weed, frequent S.T. Growing in maize field. Plants dead. 26·3·74
- 021 S.sucrense Dept. Chuquisaca, prov Oropesa, Tacos, 12Km. from Sucre on the road to Zudanez. Lat.  $65^{\circ} 15' W$  Long.  $19^{\circ} 06' S$  Alt. 2900m. Weed, frequent S.T.H. Growing as a weed of maize. Tubers are used by the locals medicinally. 26·3·74
- 022 S.sparsipilum Dept. Chuquisaca, prov Oropesa, Cuchis, 14Km. from Sucre on the road to Zudanez. Alt. 2900m. Wild occasional H. Growing under Molle at the verge between road and maize field. In shade, large plants. 26·3·74
- 023 S.sp cult. 'Kallpa Runa' Dept. Chuquisaca, prov Yamparaez, Molles Loma, 45Km. from Sucre on the road to Zudanez. Lat.  $65^{\circ} 06' W$  Long.  $19^{\circ} 10' S$  Alt. 3200 M. Cultivated T. 26·3·74
- 024 S.sp. 'Pisco papa' Dept. Chuquisaca, prov Yamparaez, Pascana, 47Km. from Sucre on the road to Zudanez. Lat.  $65^{\circ} 05' W$  Long.  $19^{\circ} 10' S$  Alt. 3250m. Weed frequent T. Growing in a field of Pisum. Plants dead. 26·3·74
- 025 S.sp. 'Alko papa/Fisco papa' Dept. Chuquisaca, prov Yamparaez, Cienega, 12Km. from Tarabuco on the road to Sucre, 1Km. off the road up a dry river bed. Lat.  $65^{\circ} 04' W$  Long.  $19^{\circ} 09' S$  Alt. 3200m. Weed ? occasional T. Growing in a cultivated potato field, probably the smaller tubers discarded by locals for pigs to eat. 26·3·74
- 026 S.sp cult. 'Sani Imilla' as 025. Cultivated S. 26·3·74

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- 027 S.sp cult. 'Imilla Blanca' as 025. Cultivated S. 26·3·74
- 028 S.sp. Dept. Chuquisaca, prov Oropesa, 10Km. from Sucre on the road to Zudanez.  
Lat. Long. Alt. 2800m. Weed occasional S.T. Growing in a maize field, but previous year the field was planted with potatoes, may be groundkeepers. Plants dead. 26·3·74
- 029 S.sp cult. 'Sacampaya' Dept. Chuquisaca, prov Oropesa, Yotala 15Km. from Sucre on the road to Potosi. Lat. Long. Alt. 2800m. Cultivated T. Market, grown locally Yotala. 27·3·74
- 030 S.sucrense 'Papa de Perdiz, Yutu papa' Dept. Chuquisaca, prov Oropesa 2Km. from Yotala up minor road to Tirkipata, 15Km. from Sucre on road to Potosi.  
Lat. Long. Alt. 2800m. Weed occasional S.H. Growing amongst stones and under Algorroba at the edge of a maize field. 27·3·74
- 031 S.sucrense Dept. Chuquisaca, prov Oropesa, Villa Victoria, 4Km. from Sucre on the road to Potosi. Lat. Long. Alt. 2850m. Wild occasional S.T.H. Growing amongst Algorroba with cacti and stones. Large leaves 5 jugate 5 pairs of interjects. 27·3·74
- 032 S.sucrense Dept. Chuquisaca, prov Oropesa, Puente Villazon, 11Km. from Sucre on the road to Potosi. Lat. Long. Alt. 2750m. Weed occasional T.H. A weed of maize. 27·3·74
- 033 S.sucrense/tuberosum ssp. andigena Dept. Chuquisaca, prov Oropesa, 9Km. from Sucre on the road to Potosi. Lat. Long. Alt. 2900m. Weed occasional T.H. Growing on a bank between the road and a maize field. Leaves 4 jugate, 6 pairs of interjects and the tubers up to 4cm. long. 27·3·74
- 034 S.oplocense (off type) Dept. Chuquisaca, prov Oropesa, Tejar, 4Km. from Sucre on the road to Potosi. Lat. Long. Alt. 2600m. Weed occasional S.H. Growing in the backgarden of a Campesino with 035. Leaves 3 jugate with good marginal hairs. 27·3·74
- 035 S.sucrense as 034. Weed occasional T.H. Growing with 034. Leaves 3-4 jugate 2-3 pairs of interjected leaflets. 27·3·74
- 036 S.sparsipilum Dept. Chuquisaca, prov Oropesa, 18Km. from Sucre on the road to Potosi. Lat. Long. Alt. 2850m. Wild rare H. Growing in Algorroba/cacti scrub, up a small stream bed. 28·3·74
- 037 S.sparsipilum Dept. Chuquisaca, prov Oropesa, 21Km. from Sucre on the road to Potosi. Lat. Long. Alt. 2850m. Wild rare H. Two plants under an Algorroba bush, 20m. from the road. 28·3·74

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- 038 S. berthaultii Dept. Chuquisaca, prov Oropesa, Salamacachi, 26Km. from Sucre on the road to Potosi. Lat.  $65^{\circ} 14' W$  Long.  $19^{\circ} 11' S$ . Alt. 3000m. Weed occasional T.H. Growing at the edge of a barley field. 28·3·74
- 039 S. sucrense as 038. Weed occasional T.H. Growing with 038. 28·3·74
- 040 S. sp (sucrense) as 038. Weed occasional S.T.H. AS 038. Large plants 1m. high, anthocyanin on rachis and main stem, leaves 4jugate 2 pairs of interjects. 28·3·74
- 041 S. tuberosum ssp.andigena (feral) as 038. Weed occasional T.H. Similar to 040 but pigmentation absent and white flowered. 28·3·74
- 042 S. sp cult. 'Malcacho', Dept. Chuquisaca, prov Oropesa, Tambo, 40Km. from Sucre to Potosi. Lat.  $65^{\circ} 12' W$  Long.  $19^{\circ} 20' S$  Alt. 2530 Cultivated. S.
- 043 S. sucrense/sparsipilum Dept. Potosi, prov Saavedra, 68Km. from Sucre to Potosi. Wild occasional S.T. Lat.  $65^{\circ} 15' N$  Long.  $19^{\circ} 28' S$  Alt. 2350m. Growing in a small clearing by the roadside in the shade of Molle. Plants poor, 4 jugate. 28·3·74
- 044 S. sucrense, Dept. Potosi, prov Saavedra, Retiro, 78Km. from Sucre to Potosi. Lat.  $65^{\circ} 16' W$  Long.  $19^{\circ} 32' S$  Alt. 2950m. Wild frequent S.T. Growing on a steep roadside bank under Algorroba trees. Plants not in good condition. 28·3·74
- 045 S. toralapanum/megistacrolobum Dept. Chuquisaca, prov Nor Cinti, Parcoyo, 120Km. from Potosi on the road to Camargo. Lat.  $20^{\circ} 14' S$  Long.  $65^{\circ} 12' W$  Alt. 3450m. Weed occasional T.H. A weed of Vicia faba growing with S. oplocense/sucrense 31·3·74
- 046 S. oplocense/sucrense as 045. Weed occasional T.H. Growing with 045 in Vicia faba. Probably opl. good marginal hairs, rhombic terminal leaflet and strongly decurrent primary laterals. 31·3·74
- 047 S. megistacrolobum as 045. Weed occasional T.H. 31·3·74
- 048 S. megistacrolobum Dept. Chuquisaca, prov Nor Cinti, Malpaso, 130Km. from Potosi to Camargo. Lat.  $20^{\circ} 16' S$  Long.  $65^{\circ} 11' W$  Alt. 3450m. Weed rare T.H. Growing as a weed of Vicia faba. 31·3·74
- 049 S. acaule as 048. Weed abundant S. Growing as a weed of Vicia faba and cereal fields. Plants dead. 31·3·74
- 050 S. oplocense/sucrense as 048. Weed occasional T.H. Growing in Vicia faba and under surrounding Algorroba trees. 31·3·74
- 051 S. sp as 048. Weed rare S. Growing in a cereal field. Plants dead, few dissected leaves remaining. 31·3·74

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- 052 S. oplocense/sucrense 'papa aparoma' Dept Potosi, prov Omiste 145 Km from Tarija on road to Villazon. Lat. $21^{\circ}52'S$  Long. $65^{\circ}26'W$  Alt. 3200m. weed, occasional T.H. Growing at the edge of a maize field under shade of an orchard. Some terminal leaflets rhomboid, rachis wing 1mm. rachis pigmentation at the leaflet nodes. 31.3.74
- 053 S. oplocense Dept Potosi, prov Omiste 30 Km from Villazon on the road to Tupiza. Lat. $21^{\circ}48'S$  Long. $65^{\circ}30'W$  Alt. 3400m. wild, frequent T. Growing under Algarroba bushes at the roadside. Plants poor and wilted, marked marginal hairs on all leaves, very small plants. 1.4.74
- 054 S. oplocense As 053, 34 Km from Villazon. Alt. 3400m. wild, occasional S.T. Growing under Algorroba. Plants small, wilting or dead. One pale green verrucose berry. 1.4.74
- 055 S. oplocense As 053 but 36 Km from Villazon to Tupiza. Alt. 3400m. wild, occasional T. Growing under Algorroba at the roadside. 1.4.74
- 056 S. oplocense As 053, 40 Km from Villazon on the road to Tupiza. Lat. $21^{\circ}43'S$  Long. $65^{\circ}55'W$  Alt. 3400m. wild, rare T. Under Algorroba bushes by roadside. Plants very small. 1.4.74
- 057 S. oplocense As 053, but 43 Km from Villazon to Tupiza. Alt. 3400m. wild, frequent T. Growing under Algorroba, by roadside, riverside. 1.4.74
- 058 S. oplocense Dept Potosi, prov Sud Chichas, 2 Km from Oploca on the road to Tupiza. Lat. $21^{\circ}20'S$  Long. $65^{\circ}45'W$  Alt. 3100m. wild, frequent S.T.H. Growing under Algorroba on river bank. Plants with marginal hairs on leaves and pigment down rachis, verrucose berries. 2.4.74
- 059 S. oplocense As 058, but 50 m. down river. Alt. 3100m. wild, frequent S. Growing under Algorroba on river bank. Plants in poor condition. 2.4.74
- 060 S. oplocense As 058 but 100m. downstream. Alt. 3100m. wild, occasional S.H. Under Algorroba on riverbank. Similar to 058 but no rachis pigment, verrucose berries dark green. 2.4.74
- 061 S. oplocense Dept Potosi, prov Sud Chichas, 15 Km from Tupiza on the road to Cotagaita. Lat. $21^{\circ}15'S$  Long. $65^{\circ}38'W$  Alt. 3450m. wild, rare T. Growing under Algorroba by the roadside. One small plant, marginal hairs and pigmented rachis, 2 jugate. 3.4.74
- 062 S. oplocense As 061, 23 Km from Tupiza on the road to Cotagaita. Lat. $21^{\circ}15'S$  Long. $65^{\circ}37'W$  Alt. 3400m. wild, rare T. Under Algorroba at the roadside. Very small plants. 3.4.74
- 063 S. oplocense As 061, but 30 Km from Tupiza on the road to Cotagaita. Lat. $21^{\circ}07'S$  Long. $65^{\circ}36'W$  Alt. 3400m. wild, rare T. Growing under Algorroba at the roadside. Small plants, marginal hairs on leaves. 3.4.74

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- 064 S. oplocense As 061, but 35 Km from Tupiza on the road to Cotagaita. Lat.  $21^{\circ}02' S$   
Long.  $65^{\circ}35' W$  Alt. 3310 wild, occasional T.H. Under Algorroba at roadside.  
Marginal hairs on leaves and rachis pigmentation. 3·4·74
- 065 S. oplocense As 061 but 45 Km from Tupiza on the road to Cotagaita.  
Lat.  $20^{\circ}58' S$ . Long.  $65^{\circ}38' W$  Alt. weed, rare T.H. Growing under the hedge of a maize field at the roadside. Marginal hairs on leaves. 3·4·74
- 066 S. sparsipilum? As 065. Alt. weed, rare T.H. Growing with 065. Large leaflets, 3 jugate and no interjects. 3·4·74
- 067 S. sparsipilum/sucrense As 066, but 300m. down the road. Alt. wild, occasional T.H. Growing under Algorroba trees by the roadside. The road running down a dry riverbed. Large plants with some marginal hairs, 3 jugate. 3·4·74
- 068 S. oplocense Dept Potosi, prov Nor Chichas 60 Km from Tupiza on the road to Cotagaita. Lat.  $20^{\circ}52' S$  Long.  $65^{\circ}40' W$  Alt. 2730m wild, rare T. Growing under Algorroba by the roadside, the road running down a dry riverbed. 3·4·74
- 069 S. sp Dept Potosi, prov Nor Chichas, 2 Km from Cotagaita on the road to Atocha, Lat.  $20^{\circ}50' S$  Long.  $65^{\circ}40' N$ . Alt. 3200m weed, occasional T. Growing as a weed of maize. No plants. 3·4·74
- 070 S. oplocense Dept Potosi, prov Nor Chichas, as 069 but on the other side of the river. Alt. 3200m wild, frequent T. Growing on a riverbank in the open. Plants dead. 3·4·74
- 071 S. sp cult. 'Malcacho' Dept Potosi, prov Nor Chichas, Cotagaita Market. Lat.  $65^{\circ}41' W$  Long.  $20^{\circ}50' S$ , Alt. 2654- cultivated T. Tubers purple, Malcacho normally white. 3·4·74
- 072 S. oplocense ? Dept. Potosi, prov Nor Chichas, 25Km. from Cotagaita on the road to Potosi. Lat.  $20^{\circ}43' S$ . Long. Alt. wild, occasional T.H. Growing under Algorroba trees with Opuntia cacti, road running along a dry stream bed. Large leaflets, rachis pigment, marginal hairs and verrucose berries, 4·4·74
- 073 S. oplocense as 072 but 30Km. from Cotagaita on the road to Potosi. Lat.  $20^{\circ}40' S$  Long.  $65^{\circ}45' W$  Alt. 3500m wild, rare T.H. Under Algorroba trees growing with columnar cacti. Marginal hairs, some rachis pigment and 2jugate. 4·4·74
- 074 S. oplocense as 072 but 40Km. from Cotagaita on the road to Potosi. Lat.  $20^{\circ}37' S$  Long. Alt. wild, rare T.H. Growing at the roadside. Marginal hairs on leaflets and rachis pigment. 4·4·74

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- 075 S. oplocense Dept Potosi, prov Nor Chichas, 70 Km from Potosi on the road to Cotagaita. Lat. Long. Alt. 3150m wild, rare T. Growing on dry river bank by a wall. 076 on other side of wall in maize field. Small wilted plants. 4·4·74
- 076 S. sucrense As 075. Lat. Long. Alt. weed, occasional S.T.H. Growing at the edge of a maize field. Large and small plants some segregation SCR - OPL. 4·4·74
- 077 S. oplocense/sucrense segs. As 075 but 65 Km from Potosi on the road to Cotagaita. Lat. Long. Alt. wild, occasional T.H. Growing in vegetation alongside maize field. Marginal hairs, some rachis pigment. 4·4·74
- 078 S. oplocense As 075 but 60 Km from Potosi on the road to Cotagaita. Lat. Long. Alt. wild, rare T. Growing along the roadside under Algorroba. Marginal hairs, rachis pigment, 2-3 jugate. 4·4·74
- 079 S. sucrense/andigena (feral) Dept Potosi, prov C. Saavedra 40 Km from Potosi on the road to Sucre. Lat. Long. Alt. weed, occasional T.H. Growing as a weed of cereals, next field potatoes. 5·4·74
- 080 Alka Imilla Dept Potosi, prov C. Saavedra, Taco taco 40 Km from Potosi on the road to Sucre. Lat. Long. Alt. cultivated T. Field harvest. 5·4·74
- 081 Papa Palama As 080. Lat. Long. Alt. cultivated T. Harvest. 5·4·74
- 082 S. sucrense Dept Potosi, prov. Frias, Chaguymayu 30 Km from Potosi on the road to Sucre. Lat. Long. Alt. weed, occasional T.H. Growing as a weed of Vicia faba. Small plants, no interjects. 5·4·74
- 083 S. sucrense As 082. Lat. Long. Alt. weed, occasional T.H. Growing at the base of wall surrounding field of Vicia faba. Larger plants than 082 with 1-2 interjects. 5·4·74
- 084 S. sp. Alco papa Dept Potosi, prov. Frias, Cayara 25 Km from Potosi up the Cayara Valley. Lat. Long. Alt. weed, occasional T. During potato harvest Immilla negra, tubers discarded as alco papa - weed potato 6·4·74
- 085 S. oplocense As 084. Lat. Long. Alt. wild, rare T.H. Growing amongst large boulders by the river behind Casa Cayara. Could be OPL, rachis pigment, but small plant. 6·4·74
- 086 S. acaule  
As 084. Lat. Long. Alt. wild, occasional S.H. Growing amongst rocks by the riverside. 6·4·74

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- 087 S. leptophyes Dept. Potosi, prov. Frias, Cayara valley 6 Km up a side valley from Casa Cayara. Lat. Long. Alt. wild, rare T.H. Growing amongst large stones at the roadside. Very delicate slender plants. 7·4·74
- 088 S. sp. As 087. Lat. Long. Alt. wild, rare T.H. Growing in Vicia faba. Very small plant. 7·4·74
- 089 S. oplocense Dept. Potosi, prov. Frias, 20 Km from Potosi on the road to Oruro. Lat. Long. Alt. weed, occasional T.H. Growing at the base of a wall surrounding a field of Vicia faba. Rachis pigment, rhomboid terminal leaflet and marginal hairs on leaves. 7·4·74
- 090 S. sp. As 089, but 23 Km from Potosi. Lat. Long. Alt. weed, occasional T.H. Weed of maize, field by roadside. Very small plants. 7·4·74
- 091 S. sp. (similar to 090). Dept Potosi, prov. Frias, Tarapaya, 1 Km after town, 26 Km from Potosi on the road to Oruro. Lat. Long. Alt. weed, occasional, T.H. Growing on the edge of a maize field. Plants small. 7·4·74
- 092 S. sp. Dept Potosi, prov. Frias, 4 Km from Casa Cayara on the road to Potosi. Lat. Long. Alt. weed, occasional S.H. Growing in the corner of a cultivated field in the shadows of Salix sp. with 093. 7·4·74
- 093 S. sucrense As 092. Lat. Long. Alt. weed, occasional T.H. Growing with 092. 7·4·74
- 094 S. sucrense/tuberosum ssp. andigena Dept Potosi, prov. Frias, 1 Km from Casa Cayara on the road to Potosi. Lat. Long. Alt. weed, rare T.H. Growing amongst stones at the roadside by a drainage channel. 5 jugate, 2-3 pairs interjects. 7·4·74
- 095 S. sucrense Dept Potosi, prov. Frias, Lecherias, 2 Km below Potosi. Lat.  $19^{\circ} 37' S$  Long.  $65^{\circ} 45' W$  Alt. 3,750 wild, occasional T.H. Growing in and at the base of a wall. 8·4·74
- 096 S. oplocense As 095. Lat. Long. Alt. wild, occasional, T.H. Growing as 095 but 10m further along wall. 8·4·74
- 097 S. sparsipilum As 095. Lat. Long. Alt. wild, occasional T.H. As 095 but 30m along wall. 8·4·74
- 098 S. sparsipilum As 095. Lat. Long. Alt. wild, occasional T.H. As 095 but 40m along wall. 8·4·74
- 099 S. leptophyes Dept Potosi, prov. Frias, 1 Km from Casa Cayara on the road to Potosi. Lat. Long. Alt. wild, occasional T.H. Growing in shade amongst stones at the roadside. Lanceolate leaflets. 8·4·74

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- 100 S. sucrense Dept. Potosi, prov. Frias, Cayara, 30 Km from Potosi; 10 Km on Oruro road and branch left up Cayara valley. In field over the river from the house. Lat.  $19^{\circ} 32' S$  Long.  $65^{\circ} 45' W$  Alt. 3540 m weed, occasional T.H. Growing amongst rocks on a bank around a fallow field. 8·4·74
- 101 S. oplocense/sucrense As 100. Lat. Long. Alt. weed, occasional T.H. Growing lower down the same bank as 100. 8·4·74
- 102 S. oplocense As 100. Lat. Long. Alt. wild, rare T.H. Growing by the riverside in soft sand. Small plant. 8·4·74
- 103 S. sucrense Dept. Potosi, prov. Frias, Casa Cayara, as 100. Lat. Long. Alt. weed, occasional T.H. Growing in the orchard at Cayara. 8·4·74
- 104 S. sparsipilum As 103. Alt. weed, rare T.H. Growing at the far end of the orchard away from house. No interjects. 8·4·74
- 105 S. oplocense As 103. Alt. weed, rare T.H. Growing in the vegetable garden at Cayara. Small plants. 8·4·74
- 106 S. sucrense Dept. Potosi, prov. Frias, Samasa, 25 Km from Potosi on the road to Sucre. Lat. Long. Alt. weed, occasional T.H. Growing in and along the base of the wall surrounding Cooperativa Samasa. Some opl features, marginal hairs, rachis pigment. 9·4·74
- 107 S. sparsipilum As 106, on opposite side of road. Alt. weed, rare T.H. Amongst stones at the base of a field wall. One plant, poor condition. Small opl type plants nearby but no tubers. 9·4·74
- 108 S. leptophyes Dept Potosi, prov. Frias, 10 Km from Potosi on the road to Uyuni. Lat. Long. Alt. wild, rare T.H. Growing by the roadside under a shrub. Lancedate leaflets. 9·4·74
- 109 S. acaule Dept Potosi, prov Frias 20 Km from Potosi on the road to Uyuni. Lat. Long. Alt. wild, rare T.H. Growing amongst large stones. 9·4·74
- 110 S. sp. Dept Potosi prov Frias, 17 Km from Potosi on the road to Uyuni. Lat. Long. Alt. weed, occasional T.H. Growing as a weed in Cereal. 9·4·74
- 111 S. sp (infundibuliforme)? Dept Potosi, prov. Frias, 16 Km from Potosi on the road to Uyuni. Lat. Long. Alt. wild, rare H. Growing in between stones at the base of a wall by the roadside. Small plant, 5 jugate. 9·4·74
- 112 S. berthaultii Dept Potosi, prov. Saavedra, 35 Km from Potosi on the road to Sucre. Lat. Long. Alt. wild, frequent T. Frequent, but growing on an almost vertical roadside cliff, shale soil. Pubescense on leaves, plant lost down slope. 10·4·74

Astley Species Locality, Altitude & Chromosome Count.						
Coll'n Nº						
ALL BOLIVIA.						
1	B2475	act.	La Paz, Caquiaviri to Antaquiria	4000m.		
2	B2476	spl.	" " Botanic garden	3850m.		
9	B2483	spl.	Cochabamba, Parotani to Capinota	2400m.		
10	B2484	spl.	" "	" "		
11	B2485	spl.	" "	" "		
12	B2486	spl.	" "	" "		
13	B2487	spl.	" "	" "		
14	B2488	spl.	" "	" "		
15	B2489	spl / scr.	" "	" "		
16	B2490	spl.	" "	" "		
17	B2491	spl.	" "	" "		
18	B2492	spl.	" "	" "		
19	B2493	spl.	" "	" "		
20	B2494	S. sp.	Chuquisaca, Sucre to Zudáñez	2800m.	( $2n=48$ scr/ad)	
21	B2495	scr	" "	" "	2900m.	
26	B2500	adg.	Tarabuco to Sucre	3200m.	( <i>Sani Imilla</i> )	
27	B2501	"	" "	" "		( <i>Imilla Blanca</i> )
28	B2502	adg.	Sucre to Zudáñez	2800m.		
30	B2504	scr.	Sucre to Potosí	2800m.		
31	B2505	"	" "	" "	2850m.	
34	B2508	opl?	" "	" "	2600 m.	
40	B2514	"	" "	" "	3000 m.	good opl.
42	B2516	adg.	" "	" "	2530 m.	( <i>Malcacho</i> )
43	B2517	scr / spl.	Potosí	" "	2850m.	
44	B2518	bet.	" "	" "	2950 m.	good bet.
49	B2520	act.	Chuquisaca, Potosí to Camargo	3450m.		mixed coll'n.
51	B2525	S. sp.	" "	" "	" "	uga + scr/ad
54	B2528	opl.	Potosí, Villazon to Tupiza	3400m.	good opl.	
58	B2532	opl.	Oloca to Tupiza	3100m.	" "	$2n=48$
59	B2533	opl.	" "	" "	" "	mixed seedling
60	B2534	opl.	" "	" "	" "	good opl + scr.
						$2n=48$ opl + scr.

- 76 B2550 scr. Potosí, Potosí to Cotagaita 3150 m.  $2n=48$  good scr  
 86 B2556 adl. Potosí, Casa Cayara.  
 92 B2556 lph. " Casa Cayara to Potosí good lph.

Copy of material sent to Hermansen has been lost, but included accessions of adl, bet, lph, opl, scr and sph.

The following seed samples were sent as selfed seed after the first generation in Birmingham. 18-2-76.

Bham

Ast N°: Coll. n°:

- 21 B2495 As previous list.
- 56 B2530 OPL Potosí, Omiste, Villazon to Tupiza; 3400m.
- 58 B2532 As previous list
- 62 B2536 adg. Potosí, Sud Chichas, Tupiza to Cotagaita 3400m
- 69 B2543 scr/adg. Potosí, Nor Chichas, Cotagaita to Atocha 3200m.
- 72 B2546 opl. " " " Cotagaita to Potosí
- 83 B2557 adg. Potosí, Frias, Potosí to Sucre.
- 91 B2565 scr. " " Potosí to Oruro.
- 96 B2570 adg. " " Lecherías
- 98 B2572 scr/adg. " " "
- 101 B2575 scr. P " " Cayara
- 102 B2576 scr. " " "
- 106 B2580 scr. " " , Potosí to Sucre.
- 107 B2581 scr. " " "
- 110 B2584 adg. " " Potosí to Uyuni.

Two other accessions forwarded at this time

- B2439 OK. 3829 grl. Argentina Tijuy. Humahuaca 3300m
- B2450 OK. 4319 opl. " " Tumbaya. 3100m.

Furthermore seed from 10 adg x opl and 5 scr x opl crosses were sent to Hermansen. 18-2-76.