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About the Institute

The Hunt Institute for Botanical Documentation, a research division of Carnegie Mellon University, specializes in the history of botany and all aspects of plant science and serves the international scientific community through research and documentation. To this end, the Institute acquires and maintains authoritative collections of books, plant images, manuscripts, portraits and data files, and provides publications and other modes of information service. The Institute meets the reference needs of botanists, biologists, historians, conservationists, librarians, bibliographers and the public at large, especially those concerned with any aspect of the North American flora.

Hunt Institute was dedicated in 1961 as the Rachel McMasters Miller Hunt Botanical Library, an international center for bibliographical research and service in the interests of botany and horticulture, as well as a center for the study of all aspects of the history of the plant sciences. By 1971 the Library's activities had so diversified that the name was changed to Hunt Institute for Botanical Documentation. Growth in collections and research projects led to the establishment of four programmatic departments: Archives, Art, Bibliography and the Library.

Sining. Lu
Kansu

April 19.

Dear Redman. no more news. to date, of ger-
minations or plants. meanwhile P. has just re-
turned with a promising picture of next year's
most likely looking ground, & with winter capsules
of 3 Primulas, of which Prim "C." has all the look
of yet another new species. Sow all the chaff accord-
ingly. do not distribute. but keep under the Alpha-
betical letters, so that we may know them apart
from the main lot which I trust may follow later.
"C" looks a charming, rather clumpy little plant,
of rather dry mossy ledges. with long-petioled nar-
row leaves. 4-inch scapes, & very long ^{erect} pedicels, 5-8
in number. suggesting well-sized flowers. I can't
even guess at its section. There is a spurious Blue
Poppy up there too. with single-flowered scapes. instead
of spikes. — Wilks has written. saying he has told
the RHS Treasurer to stump up.

✓ Ely R.

~~we hope to get up into
the hills in a fortnight or so~~

to gold. The shrub is very abundant all up the Border in grassy glades from 8-10000 or higher. This seed should give a rich mixture of colours. [Do not distribute]

- F. 184. Leguminosae sp. — A very fine species, abundant in the Alpine pastures of Thibet, with radiating stiff stems of 12 inches or so, & axillary racemes of brilliant blue-purple flowers, from purpler calyces, in effect recalling a Ken-
-nedyia.

[The following packets are preliminary samples, not yet for distribution].

- F. 157. Dipelta sp.; a taller, rarer, laxer shrub than the last, with flowers not quite so beautiful, in July. From subalpine coppice in one great ravine only, in ordinary soil & vegetable mould. The seed of both spp. is deplorably bad: there are

to be sown as they are, $\frac{1}{4}$ of an inch deep.
— and, with great luck, one germ in a thousand
sand may prove sound.

F. 235 Adenophora sp. The finest sort,
✓ very abundant in the lower Alpine pastures
✓ of Tibet, with the whole effect of a
taller, more branching, & more graceful
long-spined Campanula rhomboidalis

F. 316 Lilium sp. (? L. longiflorum)
Two cultivated bulbs seen near Siku
in different places, in gardens of rich
✓ Loë's team. sent up enormous spikes of
white trumpets. I send seed on the chance
of this turning out, perhaps, a stronger var.
of L. longiflorum, which the sp. probably
is, though never examined at close quarters.

F. 260 Leptodermis sp. This is a most
✓ delicate thing, — a very frail shrub of
4-5 feet, with minute narrow myrtill-
oid foliage, & bending beneath the weight
of long panicles of lilac blossom in August.

This is far more xerophilous than F. 259, being only seen in the very hottest cliffs & bare dry places of very steep shingly loess banks, of the torrid Blackwater district, at 4-5000.

F. 134 Cercidiphyllum sp. - a pretty graceful fine-leaved low shrub, ~~seen~~ [✓] deep white among hot limestone rocks on hot exposures, in loess lam., with wide white blossoms in June, & by pods

F. 317. ? ? A tall & very handsome tree, with a grey smooth bark. [✓] like holly, & heavy bay-like foliage with small black myrtles hanging from solitary peduncles. From a grassy glade in the Nan Ho District, 4500

F. 318 Celtis sp. with the last, very frequently, & clearly a culture-tree. Grey. [✓] barked as a beech, with fine fleecy filmy fluffy clouds of foliage like a tiny Elm's. It is, I think, the most beautiful deciduous tree I know. Both these last should clearly have a warm & sunny well-drained exposure.

F. 319 Crataegus sp. A very beautiful stiff stark shrub of 5-6 feet combining the foliage of Hippophae & the habit, with the fruit of Cotoneaster argentea, gathered in bunches of dazzling scarlet all along the spiny straight sprays. Sporadic in subalpine coppice at some 4-5000 feet in the Nan-Ho district

Covers 70 [Distribute]

- † F. 314 Fraxinus sp. The Ash of Tibet
- etan alpine woods. A slenderish tree
- † F. 299 Senecio sp. — Remember. It
grows virtually in running water
- † F. 54 Stephanandra sp. A pretty
shrub, abundant in the Tibetan lower
alpine copses & hedgerows, with the
graceful habit of its race, & racemes,
terminal & axillary, of blushing
flowers like a pale-pink Ribes san-
guineum.
- † F. 315 Clematis sp. — A blue-flowered
sp. in the Clitragene Group, very pretty,
and very rare, depending from little
banks & edges of shaly rock, 7500. in
full sun, & blackish mould.
- F. 188 Potentilla Vetchii — sp. This
✓ seed was got from a bank where the
flowers were of every shade from snow

Box. 2

Dec. 2. 1914

F. 254. Corydalis sp. (tubers)

[Send a piece to all subscribers, if possible]

A most beautiful sp. found only in the very highest barren shingles of limestone or red shale in the Alps of Thibet at 13000. along the huge crests. — low tufts of handsome glaucous foliage, & very large heads of large & exquisitely fragrant blossoms, of azure & white, with a black eye. ^{on stems of barely an inch.} Its rooting medium is the fine caked silt some 3 inches below the overlay of fine shingle through which the shoots emerge. Give similar conditions, with moisture ^(beneath) & perfect drainage, — remembering the steepness of their slopes. (Other oddments may be found in the Box. The runners are of Delphinium F. 253: the rest, probably, a Primula. Do not distribute)

Box 3

[distribute]

F. 74. Primula No. 6 (P. Viola Grandis)

A glorious sp. of the Comphalogramma Group with huge solitary Pinnicula-flowers on scapes of 4-5 inches, followed by the full expansion of great violet-shaped flannelly dark-green leaves. — local, on shady & hesterly & North ^{banks} erly slopes, cañons or ledges, cool & moist, on the underside of the ledges, at 8-10000 feet, in very rich woodland mould, red loam, peat or heavy greasy soil, always moist & cool, & never facing daylight. Only once have I seen it really abundant; on one high breast facing N.-N.W. among 3-inch Rhodod. in springy peat. It is a new sp. in its group, & the most Nor. truly by far, standing nearest to P. Delavayi, but looking as if it might have a better constitution under very special treatment along the lines indicated (Places on our Cliff should suit it) Not a free seeder, but free in flower.

Box 4 [In Box No. 3. a Stray Lily Bulb
enclosed.]
8 Box 5 [Distribute]

F. 4 Plurone sp. !!

A most glorious ^{show} mass
of single crimson-rose flowers in April, on
great cushioned masses, from the depths of
one very deep, dark & sheltered gorge, on laty
rock, up & up its shelving ledges in scanty
leaf-mould, at about 5000. Geographically
this should be hardly: at first it will be as
well to distrust it in the matter, considering
how profound & sheltered was the one point
in that one valley where it was found, & the
"soft" look of the accompanying vegetation
(Shepherd should have some of our share to
mark c. 1000)

Box 5

(with care roots mixed up
in moss.)

F. 4.

Pleione sp.

(and some odds & ends)

Box 6

[Not to be distributed]

Disporon sessile ?

Wularia - ?

F. 60

- a charming plant
from Alpine woodland. For exactly the soil,
aspects, & treatment of the Solomon's Seal,
& very much resembling a *Streptopus*
12-18 inches. branching, & with clusters of
beautiful large pendent flowers. Like
a snow-white *hapageria* or *Wularia*.

Box. 8

Do not distribute

Primula No 1.

F. 38

The beautiful woodland
sp. already sent in seed in the very first
sample. Lot of all. Cool rich soil in shade.
— exactly as for a choice Primrose.

Box. a

Do not distribute

F. 319.

Androsace mucronigolia

Sent before, in old seed, in the first sample
lot of all. Grows only in the very fine
lung. of the topmost Tibetan arête at 13-
14000. Cool rich soil, well-drained, in open
aspects.

Box 11

Do not distribute

F. 304 Allium sp., little pretty pink
from limestone ledges

Also 3 roots of F. 38. Prim: No 1

Box. 12

[Do not distribute]

F. 19^a. "Purdornia aurea" — an unnamed small Daphnoid shrub of very great charm, exactly like a golden D. cneorum. Abundant in all open sub-alpine & alpine places & soils, in S. Kan-
-su & up the Border. Be very careful to avoid root-disturbance

F. 139. Cypripedium sp. — a very charming sp. of 6-8 inches, with one un-showy flower, suggesting a C. pubescens, with buttery soda-water-bottle lips, & a delicious scent of lilies of the valley. Only & rarely, seen, in deep combs, under the shadow of huge limestone cliffs, in loose woodland soil of leaf-mould & limestone grit.

Box 13

Do not distribute

F. 139. Cypripedium sp., as in Box 12

F. 319 Androsace mucronifolia.

F. 305 Allium sp. beautiful pale
blue sp. from the highest earth pans
& shingles at 12000

Box. 14, 2.15+16 Distribute

F. 155. Cypripedium sp., probably
C. luteum. - A most noble & pre-
-cise copy of C. hirsutum (Spectabile)
but with solitary sulphur flowers, and
a staminate that either does, or does not
turn of a solid chocolate. Brown. Abun-
-dant in open slopes of alpine woodland,
in lean, leaf-mould or brye peat, at
about 8-9000. Beginning about the top-
-most limits of the big red sp. up which
it is at first found

Covers 60, 61, 62, 63. (4 Registered Cover!)

None of these to be distributed yet, - a prelim
make sure. many lot, to

F. 195. Primula cognata. Minchard form. keep
all forms under this number separate, & watch.

F. 178. Primula No 15.

F. 61. Primula No 5. An especially fine form
of an especially beautiful woodland sp.
akin to P. lichangensis, but with more
nodding, more saucer-shaped flowers, suppers
- like a glorified P. viscosa. Border Alps, in
one small district only. 8000. (Two packets)

F. 801. Clematis sp. a pretty slender little
plant from stiff beam in wayside banks
in Thibet, about 18 inches, weak & straggling
with flowers like a creamy Campanula
Bellardii (C. pusilla) Two packets

F. 86. Primula Lichangensis, (No. 7)

F. 44 Buddleia sp. A peculiarly beautiful
sp. with which we shall all have trouble
as it inhabits only the hottest driest
crevices of a hot dry district, at 4-5000

It is a noble shrub, of 5 feet or so, with very large flannelly foliage, unfolding after the delicious raspberry-ice-scented flowers of lilac. Come in great thyrses like a magnified Veron: *Hulkeana*, in March. All seed had gone when we returned to the district: our store was acquired from a lone outlying plant, strayed (two pkts) into subalpine coppice of an Alpine district, & therefore, perhaps, of better hope.

F. 103. Hedysarum sp. another dry-ground plant, from bare hot slopes of loess & thin gl. Beautiful glaucous foliage, & long very loose racemes of a foot or so from a slight spreading mass, set loosely with large flowers of brilliant rose-purple. A lovely thing.

F. 217 Gentiana sp. One of the most Beautiful I know. Spreading cushions of innumerable fine-beaved stems of 4 inches, ending each in a long trumpet flower of clear pale blue. Abundant in the highest turf of

the Thibetan Alps, 12-13000. Late summer

F. 200 Saxifraga sp. accompanies the last.

A superb clump forming Hercules, with
glaucous foliage & large ^{soft} yellow flowers

F. 201 Geranium sp. nova. A lovely
plant akin to G. argenteum in style &
beauty, ramifying in the topmost red-
shale or limestone screes of the Thibetan
alps, at 13000. Only 2 good seed could
be procured: but it is hoped that rhi-
-zomes may follow

F. 40 Primula No 4. P. Loczii.

F. 94 Isopyrum grandiflorum

F. 124 Iris "felina" 5 seeds

F. 90 Iris "pardalina" (not the same as

F. 279) Only 2 good seeds, in soil. of
the most exquisite little grassy bird, with
flowers of violet & white, from the middle-
altitude turf on the Border Alps, in a
dry range, 8-9000, where it abounds by
millions in the hot coarse grass.

F. 302 Ophiopogon sp. (? O. kansuensis)

a delightful wide mat of fine evergreen grass, dark-green, from which rise stems of 5-6 inches with a spike of ample flushed-waxy flowers, followed by gloomy black-blue berries. Cliff ledges & at the edge of light scrub in one dry district only, at about 5500.

F. 303 Gentiana sp. a magnificent half-prostrate species, close to *G. Kurroo*. But rather smaller in all parts with much more numerous flowers of dark sapphire blue. Abundant in ordinary dry böis loam (situation of *G. cruciata*) in banks & high-way sides, & road-edging lawns of fine turf at one point of the Tibetan Border, 8000.

F. 304 Allium sp. A charming grassy-leaved matting plant from shady ledges of limestone cliffs, with 5 inch stems, & very loose heads of conspicuous soft rose-pink stars.

F. 305 Allium sp. an even lovelier plant

Covers 64, 65, 66, 67 68, 69

[None to be distributed as yet, unless specially indicated]

F. 306 *Clematis orientalis* ^{*obtusiuscula*} ~~*tangutica*~~ ~~*scut-*~~
~~*iuscula*~~. — A handsome ramping climber,
✓ very abundant in the limestone shingles
of Tibetan rivers, with profusion of flowers
like large nodding golden *Fritillaries*.

F. 302. *Ophopogon kansuensis*.

✓ 2 packets. Distribute.

✓ F. 304 *Allium* sp.

F. 307 *Euonymus* sp. — A fine tree, sometimes
pendulous-branched, with so enormous a
profusion of coral pink fruits as to look
like a ^ccherry in full blossom. As a shrub
it tends to be stiff, leafy & gawky, so should
either be run up quickly into a tree, or cut
✓ very hard back, like a Japanese dwarf. In
valley on the Border, sporadic in hedges &
copice at about 7500.

F. 308. *Euonymus* sp. A very delicate little
trailing sp. of the hedgeroads. Nam-Ho dist. -

with very large hanging crimson stars of fruit
with scarlet seeds.

- F. 259. Leptodermis sp. (? L. diffusa)
a fine small shrub like a stiff Persian
Hlax, flowering in July-August. From
rather dry shingly banks & cliffs, & among
very scant coppice on precipitous breasts
in the Nan-Ho district.

- F. 253. Delphinium sp. (? D. tanguticum)

✓ Distribute

- F. III. Cotoneaster sp. - A pleasant graceful
shrub from limestone cliffs, with scarlet
✓ fruit, & the oval leaves appanate on the
boughs. Deciduous.

- F. 125 Wulfenii? sp. - A dwarf & ugly high
✓ alpine from the topmost shingles, 13000. with
fluffs of blue flower on 3-inch stems. 7 seeds.

- F. 309. Syringa sp. ~~As~~ collected, a small low
✓ spreading shrublet in a cliff, with abundance
of flowers as yet unknown, but hoped to be
the same as a very fine purple sp. seen far
away in Bloom, on Cliffs in the same district

F. 310 ✓ Aster sp. possibly the same as
✓ F. 290, but a little larger in Bloom & leaf.
though from exactly the same dry barred
places. The seed is from picked forms only.

F. 290 ✓ Aster sp. specially chosen best var.

F. 311. Aster sp. labelled "very best" & per-
✓ haps a batch of either former numbers but
I incline to believe it a larger dwarf Tur-
binelloid mass, from similar dry bare
stony banks further down the river.

F. 312 Indigofera sp. - a very beautiful tight
tiny dense ~~the~~ spreading bush of a few inches
high & a foot or more across, with minute
opposite leaflets & paired flowers of soft
bright pink. Only from bare open places
on the hottest, steepest & driest banks of a
hot dry district.

F. 261 Sp. ? sp. ? - a charming rock-
plant. for exactly the situations of Ramondia.
✓ The sinuate-dentate leaves in a flat rosette,
are exactly like those of R. Heldreichii. But
with the hairs longer & shaggier & greyer. The

naked scapes of 4-5 inches come up in
late summer, & bear branching panicles
of small mauve. ^{flowers similar to} Blue Streptocarpus, Care
(Possibly the same as sent as ~~S~~ sent by
Purdom in the Spring, though larger) Not
uncommon in dry cliffs & overhung ledges
at low elevations, never ascending.)

F. 262. ? ? A twin species
to the last. But much greener, with larger
✓ thimble-sized flowers of shrimp-pink.
Less saxatile, & with a marked preference
for shade & cooler ^{moister} aspects. Care.

F. 214 Potentilla sp. — A most precious
sp. from the topmost rocks & bare ^{earth-pans} ~~shingles~~
at 13-14000, where it forms huge tight
✓ hassocks of very bright green lucent ^{curled} foliage
suggesting a massed glaucous Mossy
Saxifrage set all over with a profusion of whit-
-ary golden-yellow flowers with a deeper base

on stems of half-an. inch or so, a little smaller than in *P. verna*.

F. 313. *Lonicera* sp. A graceful small shrub from alpine coppice, about 4 ft. with flattened ed. boules of myrtleoid foliage & pinky yellow hanging trumpets on fine pedicels

F. 83 ✓ *Kerria japonica*. very good forms

F. 25. ✓ *Gentiana* sp. (? *G. aperta* [= *G. Maximowiczii*]) - a charming little monocarpous sp. absolutely universal in every sort of open place, fellow field, bank or hedgerow or shingle all along the Border & throughout S. Kansu. whether damp or dry. The 2nd year makes a crown like a young stout *G. verna*. & the next brings up an endless & profuse succession of wide azure stars on $\frac{1}{4}$ inch stems from March to November. Sow, like all these fine seeds, on the surface of a cool heath-morainish mixture, with great care.

F. 239. *Gremanthodium*? sp. - Pretty glossy ✓ leaves, crenulate, dark & reniform: & a bare 5-6-inch scape carrying several nodding flowers

with broad clear-yellow ray-florati. From damp
ish ledges along under limestone cliffs at great
elevations in the Border Alps, 12-13000 (Sit-
uations of *Soldanella alpina*.)

✓
F. 44. *Buddleia* sp. (Chaga Road).

✓
F 301 *Clematis* sp.

✓
F 61. *Primula* No 5 (best form)

covers 5-55 (Notes in 56)
(you will remember surface sowing, etc.: & ^{for Primis.}
will copy these notes for each shareholder)

F. 197. Primula sp. No. 21

A large woodland species, closely allied to *P. lichuanensis*. from mossy rocks, glades, & limestone grottoes in the Alpine forest zone of Tibet (I send it under the No. 2 description. but as this particular batch hails from another locality — Rou Ba Temple — it is just conceivable the flower may reveal it as a variety). (send a good bunch to Profers
or Balfour)

F. 268

Incarvillea sp. (l. compacta true?)

A most lovely plant. 6-9 inches high in seed scape, & with immense flowers round the crown on short stems. Bare open earth, patches, or deep crevices of limestone cliffs, 9-10000 ft.

Avoid root-disturbance at all stages

25

F. 116 β . Primula sp. [P. imperator] No 8

A superb plant of the Nivalis group, with typical long woody neck & scant fat white roots, showing the Nivalis impatience of bad drainage, & wet in winter. It grows only as isolated specimens, in the coarsest alpine turf (which lies dead over it like a thatch in winter, as with P. Purdomii & P. Maximowiczii) on slopes & steep hillsides from 9-12000 feet, always rather rare, but found as often amid light scrub as in the Alpine lawn above. (a generous pinch for Professor Balfour)
Shown by Vetch at the Prim. Conference under the false name of P. "purpurea".

F. 269. Lonicera sp.

5-8 ft. fine foliage, graceful habit, & very bright orange fruits in 4's along the axils of the bending sprays

F. 192 β Primula Purdomii

from another locality: watch for varieties.

F. 13. Viburnum f. (Send a pinch to Prof. Balfour)
peppans

F. 270. Lonicera sp.

6-10 feet. flat branching sprays. Its only merit lies in its abundant black fruit, which is delicious as jam or stew. A not very common plant of the Tibetan border. Will be best in light wood or coppice.

F. 271. Daphne sp.

a low, dense and very attractive tight bush, about 12 inches high & twice as much across. Flower unknown. leaf very dark & glossy. Dotted in open turf on the slopes 9-10000 feet. in deep calcareous loam or vegetable soil (Same group as No 11)

F. 118 Meconopsis quintuplinervis

same situations & treatment throughout as for 175. — which serves for all species except Mec. rudis. Species plane perennans

F. 123 Meconopsis sp. nova [M. Eucharis]

A most lovely little biennial, akin to M. Delavayi. Rock ledges & edges of banks on limestone cliffs at 12000. All the seed that summer & hail has left. Distribute. But with intense economy. It confines itself to the cooler aspects.

F. 74. *Primula* sp. No 6. (*P. Viola grandis*)
 Another theft of the hail (and anyhow it
 forms very few capsules) So I should advise
 you, unless you find seed enough, not to
 distribute it yet. Except to the R.H.S. especially
 as it is a thing so special & difficult-seeming.
 It is glorious (see the photo. in the Chronicle)
 but always rare, & never seen except on a
 few N. or N.W. exposures, or on the darker
 side of deep & sunless limestone gorges, where
 it waxes fat on the under side of soil ledges
 or in crevices, in rich clammy red loam or
 black vegetable mould, seeming to have no
 need of water at the root (though damp per-
 vades it) or any particular fancy about soil.
 At its upper limit (12000) it even grows in
 the springy moorland turf of the ledges, amidst
 tiny dwarfed *Rhodod* not 4 inches high. - I
 need not advise you to treasure it most precious.

F. 275. Unknown little Liliaceous pod from high rocks. Do not distribute.

F. 112. Sp. & order unknown, — ? Thymelaeaceae? A valuable little shrub from hottest dry banks of the Bare Böis with many simple willow-like green sprays about a foot high, ending in loose thyrses of golden trumpets, very pretty.

Sow $\frac{1}{4}$ of an inch deep, in loam, leaf-mould & sand. pressed firm: & always avoid root disturbance

F. 276. Iris sp. A meracoid plant of some grace & stateliness, but no brilliancy of blossom, from hottest dry places on the Böis slopes. ~~Isopyrum grandiflorum~~

F. 196. Isopyrum grandiflorum. Sow shallow, 6 to a pot, round the edge, so as to avoid root disturbance in removal. Also sow some in the cooler, moist & mossy crannies of

6

the Cliff. It is always a saxatile plant, & as I hope to get more, this lot need not be distributed

F. 136. Meconopsis ruda. This superb azure blue pyramid. poppy belongs only to the highest moraines, shingles & cliffs, 10-14000. Sow in pans of very light & stony stuff - kept cool & moist. Sow some also broadcast on the moraines, & some in chinks of the cliff. Biennial

F. 39. Primula sp. No 2. A very pretty little rock-plant from cool & mossy chinks of the limestone cliffs, 6-12000 ft. A very uncertain & infrequent seeder & do not distribute till raised

F. 217 Lonicera sp. This is a lovely & fragrant little species of the Syringantha group, from grassy lawns & rocky ^{slopes} at great elevations (12-13000) ft. It grows wide & quite low, not a foot in height, with clusters of bigger scarlet berries than in L. tibetica

F. 70

7

Callianthemum sp. A very beautiful ground-hugging high Alpine from scree-slopes, earth-pans & ledges of vegetable mould (8-13000) with glaucous foliage & big china-blue flowers like *Anemone blanda* (Seed, at least, was collected from similar plants & in similar stations, to those that yielded the specimens)

Very carefully split the nut before sowing (it falls green & matures in the skin-gle) & extract the kernel, which should be sown about $\frac{1}{4}$ of an inch deep & kept cool.

F. 278 Lonicera sp. Flower unknown & only one plant found, among stones in a high corrie, 11000. Habit perfectly prostrate; berries red, in 4's, along the axils.

F. 279. Iris sp. I give this a new No. as, in seed, & from a remote station (note, Lo-e-den Pass ~~to~~ - Minchow - Kunchang road) I cannot swear it is the same as lovely No 90, a grassy little jewel from amid the coarse turf & herbage on open slopes, 8-9000.

8

N.B. * F. 286. Clintonia is labelled by mistake, F. 281, Alter.

F. 280 Aquilegia sp. near A. scaberrima
An ugly little quaint maroonish flower.
Abundant in Alpine woods & beck sides

F. 281 * Clintonia sp. Flower unknown.
Two seedling plants discovered in mossy
woodland at 9000 ft. Their long bare
racemes of blue berries quite attractive

F. 116 a. Primula No 8. from a different region
(where, with my own eyes, I know its glory)

F. 168 Primula sp. No 13. A lovely plant
of high earth-slopes & shingle banks, 12-13000.
occasionally seeding down into the river
shingles. It is akin to P. sibirica. But smaller
^{for more & dentate-leaved.}
neater & prettier. ^{Do not distribute yet: the}
seed is premature & poor: I hope more, &
better, may follow.

F. 281 Rubus sp. About 2 1/2 feet
high, bearing by & delicious orange yell
ow raspberries about an inch long

- F. 195 a. Premula cognata. from another locality, & varying.
- F. 195 B. Premula cognata. from yet other stations. All to be watched
- F. 272. Plagiospermum sinense. a pretty graceful thorny shrub of 4 feet, common in the Loëis country on bare banks & waysides, with simple arching sprays set with myrtle-like flowers, & succeeded by pendulous glowing drops of crimson. Subalpine 5-8000 ft. full sun
- F. 273. Premula sp. No 23. Sect. Muscarioides
A dainty little plant about 12 inches in spike, with pale blue flowers & delicious scent. From light spongy soil on moss-banks of limestone gully sides, with pines on either hand a little higher up. Rare & very limited in distribution (12000 ft)
- F. 133. Premula flava. no. 11. This lovely plant is never seen in sunlight or open to rain,

* but dwells in overhanging crevices & shallow grottoes of great limestone cliffs, where it grows fat in the light powdery calcareous silt that accumulates in such places. It appears to have a fine constitution, & to germinate well at 9-13000 feet. growing small & tight at these latter elevations in cool peaty crevices

F. 67. Paeonia sp. a pretty herbaceous plant with good foliage & large flowers in clean shades of pink and of the most delicious rose-scent. Very common in stony & cappy places all over the Alps

F. 247. Androsace tibetica.

F. 117. Trollius sp. A bright gay little thrip, probably akin to, or a form of, T. pumilus, about 6 inches high, with wide flowers. Very general all over the high alpine lawns. Be sure & keep the seed-pans constantly moist, & as the race is uncertain in germination, it would be well to sow a certain quantity straight out, in some persistently cool moist place, grassy or open.

11

F. 87. Primula Echangensis. No. 7.

I send little of this, as it is now so common in cultivation, while here, though frequent, it is very sporadic at the edges of cliffs, flapping down under the shelter of bushes. Its chief interest is that here it is so very far North of its name-place, yet, I think, the same species.

F. 118. Cotoneaster sp. A valuable plant, perfectly prostrate, forming carpets many yards wide of rather large glossy & willow-like foliage, amid which nestle gleaming red holly berries. It looks evergreen, & I have only seen it in one limestone gorge, covering the ground in silt & scree, & rooting as it goes.

F. 191. Primula Maximowiczii (No 14)

Soil, sites, needs & treatment exactly as for P. Purdomii, with which it grows. Pre-
liminary lot only.

F. 122. Primula No 10. (P. proclara)

This still stands apart from No 22 (F. 248) if only as a weaker variety. It is a very high Alpine, only seen quite by itself in

quite bare shingle slopes, scree & earth/pans of the limestone. from 12-13000 feet. not apparent -ly with any need for water, & though a nuda. lies in general habit, yet with a far healthier mass of roots straight from the crown, without any neck. Its pod. too, is that of *P. Maximowiczii*, & it is a most lovely treasure

F. 124. *Lies* sp. ^{! "Gelina"} Very common in the Alpine turf 11-12000. But now all fallen. so do not distribute till raised. It's a lovely little plant

F. 91. *Anemone* sp. (*narcissiflora* group) A superb species of very high Alpine rock ledges & crevices, 9-13000. Do not distribute till raised. except to the R.H.S. It ripens very oddly, & is often inaccessible. I may get more

F. 274. *Polygonatum* sp. a little pink star, the plant running all over the place. 8-10000. Do not distribute at all, till raised

- F. 282. Premula sp.: woodland group. place
 & distinctness uncertain. (note: Lama Ling)
 Do not distribute till we know more of it.
- F. 283. Arisaema triphyllum. a very fine
 foliage. Aroid for very rich soil. in low,
 damp, cool corners of rockwork ^{bag,} & wood
- F. 41. Smilacina sp. A close spike of
 small flowers, shaped & scented like
 white hyacinth. On alpine woodlander.
 Not for distribution yet. (12 inches - 18 inches)
- F. 125. Mullerisi sp (?) a very high alpine
 from the topmost screes & shingles at 13000.
 Not very attractive: though so abundant
 I have not yet bothered about collecting
 it. so do not distribute this.
- F. 73 Saxifraga sp. (Kabschia. between
 S. coriophylla & S. valdensis in habit)
 Do not distribute. But sow (on the surface)
 & nurse very carefully. General on the
 high limestone ^(cool & wet) p. 8 — 12000 feet

- 14
 F. 143, & 143? A very rare Androsace sp.
 like a frail white little A. sarmentosa.
 Only 2 plants ever seen. pendent amidst
 moss from a hot cliff. F. 143? grows below
 this, under the rocks in silt, & though more
 compact in habit, may be the same species
 modified by the different conditions, or else
 a form of A. tibetica. Do not distribute, ^{either}
 but ^{misses & watch with special care}
 F. 284 Diphylleia sp.? Gray! Flower
 of no value, but the great twin leaves
 have beauty, in some cool shady corner
 in deep rich soil: & the ^{Gloomy} black-grape-like
 showery of fruit above them are pretty
 F. 285 Parnassia sp.: do not distribute,
 but set all straight out in damp cool pla-
 ces, as along the Cliff, & over the bog.
 F. 165. Allium sp. Pretty stony heads
 of pale pink on stems of 4-5 inches, ab-
 undant in all the warm rock crevices ~~of~~
 and road sides
 F. 92. Meconopsis integrifolia

F. 200. Aster sp. a very dainty pretty little plant, woody-based, with fine sprays of blue daisies, about 5 inches high and a foot across. Only on the hottest, driest bare banks of the Coiss downs ⁴⁵⁻⁵⁵⁰⁰, where it never has a chance of showing its charm as goats etc keep it eaten down.

F. 219 Leontopodium alpinum var. Of this I hope to get more as it is universal in the coarse alpine turf between 9-12000 feet. — a far more vigorous plant, & larger in the star, than any European form, & with almost suffrutescent shoots of bright green, glabrous foliage

F. 227. Salvia sp. a coarse & weedy plant with weak stems, big leaves, & large lippy bells of mauish purple. Common in waysides & rather bare places (12-18 inches)

F. 131. Aster sp. a particularly attractive single-flowered high alpine, about 4 inches high, running freely about in the shrubbery & stony slopes, between 9-12000 feet

F. 291. Rosa sp. A most glorious ^{lush} plant
akin to *R. Banksiae*, making 12. ft shoots
in a season, which are set all along next
year with huge loose clusters of blossom.
the buds opening nankeen yellow, & passing
to pure white. The scent is so exquisite that
all the air for $\frac{1}{4}$ of a mile round is in-
toxicated with its wafts: and the loose
heads of gloomy orange fruit are hardly
less attractive than the flowers.

Keep the seed-boxes out, & exposed to
frost till February or March: then, gentle
warmth. A plant of village hedgerows
in one district only: I have never seen it
undisputably wild. Must evidently have
fullest sun & ripening of the wood.

F. 97. Incarvillea sp. a pretty ferny leaved
herbaceous plant about 12 inches in the
sprays which are half-decumbent, & often

a succession of small citreous yellow Allamanda,
from May - October. Only in the hottest,
driest bare places of the Corss. 4-5000

F. 62 Bidisandra sp. a hideous & stinking
woodland plant of 18 inches. But as it has
been exhibited with great pomp by Vi-
ary Gibbs. perhaps people would be hurt
at not having some seeds. And the clusters
of white woolly berries. Like Blanc-mange
are curious in autumn

F. 156 Aster sp. A good plant, with ro-
settes of entire almost fleshy leaves, &
stems of 6-10 inches carrying a branch-
ing head of 3-4 large pale lilac flowers.
It runs freely about, & loves earthy places
on hot rock, or wide flat lawns of very
stony turf (5000 ft.) - where, indeed, it col-
ours the stretches

F. 292. Leontopodium alpinum var. A much

18 p!

higher alpine than the East. from typical places in simple slope or earthy pans at 12000. Here the cushions are close, & of a fine dead silver-white; the flower heads (on dwarfier stems, 3 inches instead of almost a foot) smaller, fatter, & apparently rather dingy. Seed very poor & doubtful: more however may be got.

F. 100 Buddlia sp. A most lovely plant, exactly like a very delicate weeping willow, but that the long drooping boughs are set throughout with little clusters of purple flower, till the whole mass is a sweeping cascade of colour. It affects hot banks ^{& cliffs} of stone & loess, ^{in fullest sun,} from which it weeps forth with incomparable effect. It often forms quite a trunk and can attain 10 feet
Sow lightly & rather shallow

F. 293 Isopyrum sp. Treat as the other, though it is a different species, & very rare. So do not distribute yet.

F. 287 Sambucus sp. A herbaceous Elder

with handsome-foliated shoots about 2-3 ft high. The usual flat head of dull flowers is succeeded by a great show of small bright scarlet glowing berries. Not uncommon on hillsides, & fit for wild places at home.

F. 294 Cornus sp. 4-5 ft. with fine black fruit. ~~Sub~~ Subalpine coppice

F. 173.B. Aster sp. from another locality

F. 295 Podophyllum sp. open alpine turf.

F. 296. Codonopsis sp. from Alpine lawns. It is very dingy & ugly. Distribute

F. 289 Euonymus sp. A very frail & dainty little bush about 18 inches high. The fruit a fat 4-5 pointed star, open-
ing crimson within, against which stand startlingly out the brilliant orange-scarlet seeds. A rare & very sporadic species from open places in Alpine copse.

F. 288 . Strange Climber - from one rock in a shady limestone gorge. Twining habit. Leaves pointed, leathery, dark, alternate: many hanging bunches of tight pressed

little pinkish fleshy grapes. Flower unknown

F. 297. Euonymus sp. taller than the last. Do not distribute till raised

F. 99. Convolvulus sp

F. 175. Meconopsis pumicea

~~F. 277~~. 4. packets of rubbishes to have seen out

F. 118. Meconopsis quintuplinervis for us, 2 lots, one mixed with Prunella. No 8

F. 141. Polemonium sp. Probably a form of P. coeruleum, but much looser & more graceful in the raceme. Common in the Alpine woods & Beck. beds. Do not distribute till raised

F. 298. Rosa sp. A tall good bush. Like a handsome pink Penzance. Bright hairs

F. 483

? . ?

Seed perfectly unknown.

F. 484 (In 2 covers to itself)

Mixed muck

To sow out broadcast on Cliff or Wild
Garden or waste, on the chance of some-
thing good or interesting appearing. Un-
recognisable seeds gathered by
Chinese collectors on the Tibetan Alps.
Purdom says you mustn't distribute
it at all! But perhaps E.A.B. or Lord
Henry or the R.H.S. might like to experi-
ment with it, - as claiming to be no
more than a mixture of possible rubbish.

Here Ends 1914

Dec 31.

Lanchow.

(Covers 199 — 223)

2

F 424 Buddleia variabilis

The only good forms seen, growing in the shrub beds of the Nan-Ho River, — a form with small foliage & very long spikes. But culture will probably revolutionise it. Though seed was collected only from the very best

(F. 425) * Dispyros sp

Do not distribute. The lesser Persimmon. from hot districts: like a gigantic Bay, with abundance of little brownish amber fruits)

F. 100 Buddleia sp

F. 272 "Plagiospermum" = is said now to be "Prunopsis"

F. 62 Bidissandra sp

F. 426 Asparagus sp

A neat little graceful dune, from very hot banks. Thorny at first

(F. 427) * Asparagus sp (do not distribute)
very rare, one drift only having been seen

(Covers 223 — 240

None of these to be distributed: — except where marked.
ends of treasures, & uncertain. seeds from our Chinese collectors, to wind up the year.

(~~F~~*94* Androsace longifolia)

(~~F~~*217 Gentiana sp.)

(~~F~~*198 Primula sp. No 15

Not absolutely certain: but I have no real doubt

(~~F~~*463 Rosa sp. unknown)

(~~F~~*464 Primula sp. unknown (Chinese coll.)

? Purdonia ? 22. — The very large seed sets it quite by itself. Watch with care.)

(~~F~~*92, 191 PP. Purdonia & Maximowiczii
A mixture, mainly P. Purdonia. Watch for possible other forms or spp.)

(~~F~~*329* Crataegus sp.)

(~~F. 465~~) ~~x~~ Primula sp. (Chappa)
Watch with care, as the seed seems
very distinct. (Chinese collector) Moral-
is Group.)

~~F. 168~~ Primula sp. No 13)
~~F. 468~~ ~~x~~ Barbiers sp. (Choni))
(M) Chinese collector. (Some of these got
by natives may prove identical with
others previously sent.))

(~~F. 469~~) ~~x~~ Euonymus sp. (Choni))
Chinese Collector)

~~F. 470~~ ~~x~~ Betula sp. Da hai go)

~~F. 471~~ ~~x~~ Aster sp.
Chinese collector)

~~F. 472~~ ~~x~~ Lonicera sp.
Four-berried. Chinese collector.)

~~F. 277~~ ~~x~~ Androsace tibetica)

~~F. 473~~ ~~x~~ Iris sp. Mingo
Chinese Collector. Probably = F 414)

~~F. 215~~ ~~x~~ Marina ~~x~~ sp.
A creamy, rather pretty thing of a foot,
from the high Thibetian mts, 11000)

~~F. 474~~

~~Eucrymus~~ sp.

Evidently one of the slight, charming
Bright-fruited spp. Chinese Collector

~~F. 274~~

Polygonatum sp.

(This may now be distributed)

~~F. 469~~

~~Polygonum~~ sp.

A white hedge trailer like P. Bahl-
schuanicum.

~~F. 475~~

Barberis sp. Mir. chow

A good thing. This may be distributed

~~F. 476~~

? ?

~~Seed~~. Perfectly unknown.

? ?

~~F. 477~~

~~leguminoid seed~~. May = F. 184

~~F. 480~~

~~Potentilla~~ sp.

Another possible form of the P. fruticosa
group (Entered in last notes. But not sent)

at the edge of a dry copse. It is like
sprigs of *A. officinalis* stuck into the ground)

F. 428

Daphniphyllum? sp

Very handsome foliage. 2 racemes of
blue-black berries. Alpine woodland

F. 429

Physalis Francheti

From among limestone debris in one cool
& shady gorge in case it amuses people to
have the wild plant

F. 79

Rhododendron sp

A lax frail azaleoid shrub. general in
the Alpine coppice with few flowered
clusters of big magenta purple flowers
(Do not distribute)

F. 119

Rhododendron sp

? Vetch's 1889. — Universal. like heather
in the high. Alpine turf. — a little tight
grey-bronze bush of 6-15 inches. with
tight heads of bluish purple bloom. This
lot may include a very lovely smaller
yellow-flowered sp. F. 88. Do not distri-
bute.

F. 430 Paris sp?

like a larger, many-foliated *P. quadri-*
folia. with spindly dull flower, & brill-
iant radiating heads of scarlet fruit.
Alpine woodland.

(F. 431) ? ?

A big creamy chocolate Pece-flower,
- Galega - Astragalus, of Tibetan
grass plains. Do not distribute (1-3 ft)

(F. 181) * Pyrola rotundifolia

Good seed to raise a stock from. Do not
distribute

F. 432 Serratula sp?

A wild-garden plant for a sunny glade
about 3-5 feet. with huge panicles of
rosy-magenta in late summer. Suggesting
a gigantic *Ageratum*

F. 433 ? ?

a small black fruited elegant shrublike

from stony hillsides. Cetera ignota

F. 434

Statice sp

A yellow autumnal sp. from the dead
arid hills about Titao in November

F. 435

Cherleria sp ?

A very high alpine. Do not distribute

F. 145

Amphiraphis albescent

A boring thing!

F. 436

Anemone japonica

Kansu-Thibet form, — a huge grow-
ing universal plant of lower elevations
with ample panicles of fat pinky flowers

F. 238

Sedum sp

A little Rhodiola of the highest shingle-
arêtes only, with fluff. heads of white
Do not distribute

F. 437

Senecio sp

One of the spiked & palmate leaved group

F. 438

Senecio sp.

F. 439

• ?

Shrub totally unknown. Coll: Chinese
headman

(F. 440)

Reconitum sp. volatile

very handsome, trailing in the hedges
with big helmets of lurid bronze &
violet. Do not distribute

F. 441

Pachysandra sp. ?

Prostrate on one rock in a deep cool
limestone gorge. ? P. prostrata: botanical

F. 442

Gentiana sp

Evidently annual, & may be worthless.
Chinese collector

F. 443

Gentiana sp

A sprawling annual in the high Alpine
burg. with upstanding fine trumpet stars
of clear yellow. (Do not distribute, unless
to the R.H.S. & S.A.B.) late summer

F. 3986

Pyrus sp

(F. 444)

? ?

A strange unique specimen of a wood-
land plant like Actaea. Do not distribute

✓ F. 445 Comicijuga sp

The noblest of all, & a glory of this
.etan meadows, attaining 6-8 feet, with
magnificent foliage, stately port, &
vast panicles of white in late summer.
It answers eagerly to very rich soil.

(✓) ~~F.~~ 446 * Filix sp

(sent in good crowns, unnumbered, as
"Choice fern) - a most lovely sp. form.
ing big drifts in light woodland or
out in the turf, on the Sautanees range.
It has the filmy fineness of *Trechomane*
radicans, & the wiry hardness of *Asp.*
lenium. Raise on a block of peat or
damp pan in the Orchid house.)

✓ F. 188 Potentilla sp

The golden Thulestan fruticosa, to be
glorious in great wide-spread bushy
jungles in open glades & along the sunny
forges of woodland

(✓) ~~F.~~ 113 Corydalis sp

A stray lot, keep, or throw away, or destr
- bulb

~~F.~~ 454 * Indigofera sp
 Bigger seeds. Do not distribute

~~F.~~ 105 Indigofera sp
 A common graceful shrub of the
 Alpine coppice, blooming in June

~~F.~~ 455 Aster sp
 A pretty neat sp. of hot bare banks
 akin to A. turbinellus. Picked forms

~~F.~~ 456 Aster sp
 Also from hot banks. Akin to F. 246,
 but with fewer, ^{larger} ~~smaller~~ broader-
 rayed flowers, later in the summer

~~F.~~ 457 Spiraea sp
 A ~~sp~~ 4-6 ft shrub with long sprays
 & ~~loose~~ clusters of white. Alpine glens.
 May be only a form of a very general
 species

~~F.~~ 240 * Aster sp.
 (Keep this lot.)

F. 458

Aster sp

A wayside plant, rather straggling, but with big well coloured flowers

F. 274

Polygonatum sp

~~Still do not distribute~~

F. 459

Spiraea sp. (Lien Hwa)

Unknown. Shrubby. Do not distribute

F. 460

Potentilla sp

May be the same as F. 188. Keep till more certain. Lanchow Road

F. 461

Liriodendron sp.

A mixed vague Bot. keep

F. 462

Corylus sp.

A tall hazel, with round buzzle-head fruits like a chestnut. Crack the nuts on chance of a good seed, & do not distribute

F. 341

Pinus Armandi

F. 157

Dryopteris sp. do not distribute

(~~F.~~ 418) Corydalis sp

Same habit & sites as the last. But much better in the clear yellow of its flowers. ~~Do not distribute till raised~~

~~F.~~ 419 Salix sp

The point of this small tree of the high Tibetan valleys is the white fluffs with which it is covered in late autumn, making the absolute effect of an Almond in full bloom. Thoroughly unravel the seed ~~and~~ ~~distribute yet~~.

~~F.~~ 258 Allium sp

With tight round heads of yellow. Abundant in the higher Alpine lawns

~~F.~~ 109 Deutzia sp

Several forms may appear. It is a noble shrub, remarkable for its profuse masses of large white flower.

(F. 158 x. Hypeltea sp)

The great big one. Blooming in July. Seed is so bad that we haven't distributed. Sow shallow (but see the seed is not washed bare) & keep exposed to frost. Sow as it is)

(F. 97. Incarvillea sp)

(watch carefully in the seedling stage, as it may miff off.)

(F. 291^a & F. 291^b Rosa sp.)

Almost certainly identical with F. 291. But from cool ^{places} & deep limestone gorges in a much more alpine district, & therefore likely to be much less Banksioid in desire for heat)

(F. 413 Iris sp)

A small form (?) of the universal Iris of the Caes., from the Akropolis at Sikou. Sow outside in boxes, open to the weather (for all irids) flower not known

✓ F. 414

Iris sp

A larger mass-forming plant, with rather pretty flowers, common about path-sides & open valley bottoms up in the Tibetan Alps at 95-10500

✓ F. 177

Iris sp

From high grass-ridges of Tibet at 11000, - not unlike *I. graminea*

✓ F. 415

Iris sp

My Chinese headman collected this as seed of a big blue iris which was as certainly *I. tectorum* as this is certainly not seed of *I. tectorum* (Watch accordingly)

✓ F. 416

✗ Iris sp

(Taschow)

Quite unknown. Do not distribute

✓ F. 417^B

✗ Antennaria sp

A very common weed. Do not distribute yet.)

✓ F. 113

Corydalis sp

One of the absurdly over-vaunted Wilsoni Ck. with glaucous foliage & spikes of pallid yellow. Steep shingles & slag-dumps

(Covers 183 - 198.

[one Cover unnumbered in the last lot. 4
182.]

F. 84

Rosa sp

very
A pretty slight erect bush of 4-5 feet, with
abundance of little nearly pink blossoms. ~~It~~
~~not distribute till raised~~ (Do distribute).

F. 407

Rosa Banksiae, single white.

F. 34

Amphicome sp. ?

Only removed from Incarvillea by its
seed. A strikingly handsome herbaceous
plant with many stems ^{of 2 ft} beset with pinnate
foliage, & ending in panicles of ~~soft~~ ^{point} lively
soft pink Gloxinias. At one place only
in the Blackwater Valley, on the very
hottest, barest & driest banks of loess &
shingle, or in walls.

F. 408

Osteomeles - anthyllidifolia?

like hawthorn in flower. Dry hot arid
places, grave-yards, etc. of the hot region

F. 409

Ribes ^{stenocarpum?} ~~grossularia~~ var.?

(Botanical: quoted by ~~Berzowski~~ ^{Przewalsky} with

undeserved praise) A Gooseberry of small tubular fruits & inimitable sourness. It may be useful as a stew, when other green Gooseberries are old.

✓ F. 265 Lychnis sp.

like a magnified & glorified Ragged Robin, very effective for the wild Garden. blooming in Aug - September

✓ F. 219. Leontopodium sp

✓ F. 410 × Leontopodium sp

High Alpine, in the bare scree. A lovely silver-white tuft. Flowers inferior. Do not distribute till raised.)

✓ F. 411 × Allium sp

A pretty graceful pink. Do not distribute yet.)

✓ F. 263 ? ?

Like a wee Asphodel, springing all over the bare downs of Kansu in Aug - Sept (? Salla?)

✓ F. 412 × Ligustrum sp ??

A tall demi-tree with racemes of black fruit. Do not distribute yet.)

- ✓ F. 364 Viburnum sp.
The finest of all. — a tall Bush of
8-10 feet. Bending beneath great
clouds of rubies. Alpine coppice (as all)
- ✓ F. 365 Viburnum sp.
Straighter & stiffer, with more erect
branches of smaller more scarlet fruit.
- ✓ F. 366 Viburnum sp. (Coll. W.P.)
Fruit of notable show. *Ipse non vidi*
- ✓ F. 367 Viburnum sp.
Akin to last. Another good fruit
- ✓ F. 368 Viburnum sp.
Akin to F. 364 (Expose all to frost)
- ✓ F. 369 Philadelphus sp.
A tall thick stiff & very erect Bush. of very
abundant flower (10-12 ft)
- ✓ F. 370 Philadelphus sp. (Coll. W.P.)
Perhaps = last. But smaller. From Henthwa
Ipse non vidi

✓ F. 46 × Lonicera sp.

May be a very lovely small flat-sprayed
tiny foliated bush with pendent rosy
bushes. No not distribute yet, as it may not.

✓ F. 277. Lonicera sp.

F. 371 Lonicera sp.

Possibly a big form of F. 46. Winter collected

✓ F. 372 Lonicera sp.

A stiff ^{little} bush with bright vermillion
berries in 4's up the axils

✓ F. 373 × Lonicera sp.

Unknown, but for small black seeds. Keep

✓ F. 374 Lonicera sp.

A tall graceful bush of 8-10 ft. with
flattened leaves along the arching sprays,
orange berries in 4's up the axils
(? = F. 269.)

✓ F. 375 Lonicera sp.

A stiff bush of 5 ft. with hanging ruby
berries

✓ F. 376 Lonicera sp.

A large stiff bush rather ugly

(F. 377*

? ?

As shrub collected by our Chinese headman. (Keep)

(F. 378*

Daphne sp.

Do not distribute.)

F. 379

Lonicera sp.

Close to F. 372. But a small & graceful tree making a notable show in fruit

F. 380

Lonicera sp.

Unknown. Coll: Chinese "Boy". Probably one of the foregoing

F. 290

Aster sp.

Picked forms. (& 1 pkt Pink (Keep this))

(F. 381 *

* Vitis sp.

Direct leaves & brown fruit. Do not distribute ^{yet})

(F. 382

* Aster sp.

About 2 ft, & rather weedy of habit, but with fine single flowers. Do not distribute yet awhile. Corn edges & field sides.)

(X) F. 16 Ilex Perryi
Do not distribute.)

(X) F. 383 Jasminum sp
A bush of 2 1/2 feet with golden flowers
& black seeds. Do not distribute yet.)

F. 132 Rodgersia aesculifolia
The most superb of all, from deep rich
soil in very deep limestone gorges in the
shadier aspects

(X) F. 384 Artibe sp
Whole habit of A. Davidi. Flower unknown.
High open meadows of the Satani Range.

(X) F. 385 Artibe sp
near last. But with opener spike, & probably
distinct. The earliest flower (half eaten) seems
of soft pink. Stony places in a limestone gorge

(X) F. 386 Spiraea sp (Aruncus)
Exactly simulating S. Aruncus in habit
& choice of site. But of much thinner
lighter growth, with enormous bloom-
panicles, often 3 feet long & more.

(F. 387) Rhododendron sp.

A very big tree of handsome glossy foliage, springing by millions in the pure limestone shingle of the high peaks in the Satani Alps. Flower scanty & unknown. Do not distribute yet.)

(F. 388) Forsythia sp.

A stiff bush of 4-5 feet. Flower unknown.

(F. 184) "Kennedyia" sp.

Keep, as more should be to follow.)

(F. 389) Dianthus sp.

Probably only *D. squarrosus*; from all the high hayfields of Tibet. Do not send out yet.)

(F. 307) Euonymus sp.

Do not distribute till raised.)

(F. 308) Euonymus sp.

Do not distribute till raised.)

(F. 389) Euonymus sp.

A small bush: red vessels, black seeds

(✓) F. 331⁺ . Tree. sp. (Conyzae)

Do not distribute)

(✓) F. 391⁺ . Euonymus sp.

✓ A big stiff bush, 8-12 ft. with fine
4-pointed scarlet stars of fruit.

Do not distribute till raised)

✓ F. 392 Euonymus sp.

A bush, but much better as a round
15-ft tree, covered with masses of
coral-rose fruit clusters of wax, till
the whole effect is of a Blossoming
Cherry. Grows up quick to a tree: if
kept as a bush, cut back hard to a
Japanese design of bare trunks set
with fruit.. (Distribute.)

✓ F. 169 Salvia sp.

A noble border or wild garden plant of
the high Thibetan hayfields, about 2-3 ft
tall, with big heads & whorls of big intensely
blue-purple flowers in August.

✓ F. 393 Tilia. sp.

Crack the nut. A small tree.

12
Out of compact habit. gorgeous autumn
colouring. & wax-white fruits with pink
seeds. General in the Border Coppice.

(F. 298) Betula Bhojpattra
Keep for ourselves.

F. 401^a Cotoneaster sp.

A bush of 4-6 ft. erect, with very
handsome shining black fruits in scant
clusters. Alpine coppice. Like the rest.

F. 401^b Cotoneaster sp.

Very near the last, & perhaps identical,
though appearing smaller.

F. 402^a Cotoneaster sp.

Small ovate leaves in appanate spray
on a neat upstanding rather dense
bush of 4-6 ft. beset with scarlet berries.

(F. 402^b) X Cotoneaster sp.

May be the same, but a larger, looser
plant, with rarer fruits & rarer round-

rounder leaves. — a charming sight in &
about the cliffs. Do not distribute yet

F. 403

(a sample sent before as F. 111)
Cotoneaster sp.

A lax small graceful tree-shrub, with
long sprays all set with big bunches of
crimson-maroon fruits as large as small
cherries. One roadside only in the hills

F. 404

Cotoneaster sp.

Exactly like *C. congesta*, but with small
black fruits.

F. 405a

Cotoneaster sp.

A several-stemmed bush of 4-8 feet, with
the finest black fruits of all. Do not dis-
tribute yet.

F. 405b

Cotoneaster sp.

May be the same, but appears smaller,
& from a different district. Distribute

F. 394

Aralia sp

A handsome 5-foliated tall shrub, with thorny stems, & very fine round heads of large glossy black fruit. Alpine coppice

F. 395

* Aralia sp

Same situations & habits. But smaller, & with only 3 folioles. (Do not distribute)

F. 330

Syringa sp

A tall graceful shrub, from one deep gorge at one cool point only. Flowers not, as yet, of very startling merit, in June.

F. 329

Crataegus sp

A first class shrub of 6 ft. very stiff & angular & Hippocypsel-like, with narrow foliage & sprays set all along with close clusters of vermillion berries in a dazzling show. Scant scrub, rather rare, of one small distinct open & rather dry, at 5-5500. Flower unknown

F. 396^a

Crataegus sp.

A stiff gnarled bush of 8-10 ft. with handsome crimsoning foliage & deep crimson bunches of lip fruit.

F. 396^b

Crataegus sp.

Possibly the same, in woodland not in coppice, forming a lax tree, with fruits long surviving the foliage

F. 397

Pyrus sp.

Coll: Chinese headman. Fruit like small oval white-heart cherries. Cetera ignota

F. 398

Pyrus sp.

Akin to P. spectabilis. A round-headed small tree, profuse in long stalked little hard round crimson cherries. Flower unknown.

F. 399 x

x Pyrus sp.

A bigger tree. Everything else uncertain. Do not distribute yet. (Korhapu Road.)

F. 400

Pyrus sp.

A perfect replica of the Mountain Ash.

Covers 153 — 184

14

Distribute except where contra-indicated

F. 356 Berberis sp

A noble, dense & very spinous Bush of 5 ft. crumpled with close clusters of Gloomy vermilion oval Berries all along the spray. From hot, dry & stony places, graveyards, etc. at low elevations

F. 357 Berberis sp

Very near last. But berry & seed are both evidently longer & narrower. leaves holly-like. ((Clean))

F. 358 Berberis sp.

A gawky angular ill-dad Bush from the highest scrub, with scant racemose flowers. Of no great merit

F. ~~359~~ 80 Berberis sp

A very big Bush, 8-10 ft. with hanging bunches of L. auratum-scented flowers, and a fine show of fruit. drooping along the sprays. Alpine coppice of Sotani

F. 359

Berberis sp

In the same way as last. But very much thinner, finer & more graceful, with tall arching sprays crimsoned with dripping bunches of fruit. Same situation in another district.

F. 360 +

Berberis sp (?)

Very little known about it. I've now vidi. Do not distribute.)

F. 361

Berberis sp

A bush of 5-6 ft. allied to F. 358, but with fruits in pairs [Expose all to frost]

F. 362

? ?

A not very meritorious weedy bush of four feet, with pale brown berries in 4's.

F. 363

+ Viburnum sp

(B)

A curious very frail rare wanderer in the Alpine undergrowth, with poor flowers, rare but very brilliant scarlet fruit, & pretty foliage. Do not distribute yet.)

(F. 248)

* Premula No 22

(do not distribute)

(F. 194)

* Premula tangutica (No. 18)

Raise: & then distribute it all. It is perfectly frightful. like a black & diminished P. Maximowiczii

(F. 61)

* * Premula No 5

(do not distribute till raised)

✓ F. 39.

Premula No 2

F. 248

Premula No 22. (?)

Seed very doubtful, of what sp. it really is. (Distribute with a query) (Chinese Coll.)

(F. 93)

* Stellera sp

do not distribute.

F. 303

Gentiana sp

A very beautiful plant, close to G. kurroo. but with shorter sprays & rather smaller flowers, much more numerous and of an intense sapphire blue in late

August. Situations of *G. cruciata* in hard
hot loess by way-sides & in little level
lawns by the roads of one Tibetan district
only.

✓ F. 331

? ?

A good tree of light elm-like foliage,
15-20 ft. Distribute when raised

✓ F. 40

Premula "hoczii" (No 4.)

✓ F. 25

Gentiana sp (? *G. aperta*)

(Sow on moraine-shingle surface)

✓ F. 261

Blue "Haberlea" sp. - *Boea hygrometrica*

✓ F. 262

Pink " " " " " rosea

(Sow on cool surface, & watch with utmost
care, as with *Ramondia* & *Rhododendron*.)

✓ F. 332.

Gentiana sp.

Closely akin to F. 217 but utterly diff-
erent in the capsule. Same situations

✓ F. 217

Gentiana sp

✓ F. 220

* Gentiana sp

A big pale-yellow *Pneumonanthe frigidula*-
sp. from great elevations. Seed very scanty
& poor, so do not distribute

✓ F. 352 X Dianthus sp.

About 10 inches with good flowers of velvety. Rough mountainy way-sides at 8000. Very few seeds, so do not distribute yet.) lien Hua

✓ F. 312 . Indigofera sp. (more to follow)
 (F. 353) (B) + Senecio sp.

A quite inferior version of F. 299. with green foliage & diminished habit. No not distribute)

✓ F. 235 Clenophara sp (A. Potanini?)
 Replacing Camp. rhomboidalis. But more graceful, in the high hay fields of Tibet.

✓ F. 354 Clenophara sp
 Same situations in a different district, but fruit distinct though the habit is the same. Flower unknown.

✓ F. 355

Berberis sp

A low graceful shrub of 1-3 ft. general over the open alpine downs at mid elevations. When well fruited, each long spray becomes a solid spout of blood, & the whole effect is overwhelming. For open sunny glades at the edge of covert.

- ✓ F. 348. Acer sp. Thibet
A small tree of gorgeous colour.
- ✓ F. 349 Acer sp. Mö Ping.
A taller box tree, all aglow in autumn.
- ✗ F. 309 ✗ Syringa sp. Ga-hoba.
Do not distribute yet.
- ✓ F. 9. Sophora ~~vicifolia~~ vicifolia.
A very charming fine foliaged delicate
bush, covered with racemes of blue-white
flowers in spring. Only in hot dry hill-
sides of hot dry districts.
- ✓ F. 148 Cotoneaster sp
- ✗ F. 122 ✗ Premula No 10
A late, stray, odd, mixed pinch. Keep.
- ✓ F. 63 Rhododendron sp.
- ✓ F. 112. Wikstroemia ? — ?
- ✓ F. 850 Caryopteris sp.
A much dwarfer plant than C. Mast-
acanthus, & extremely beautiful in

August, when it forms dense ^{hazy} clouds
of azure on all the bare hot ^{& city walls} ~~Lois~~ Banks of
the Northern Border at the low elevations
of 8000

✓ F. 351 Acer sp. Ba-Hai-Go.

Almost entire large leaves of gorgeous
autumnal colouring

✓ F. 103 Hedysarum sp. (sent before)

A remarkably beautiful plant, only
on the hottest of bare dry stony Banks &
river shingles low down, with masses
of glaucous fine foliage, & 12-inch sprays
most elegantly set with large flowers
of brilliant crimson rose in May-June.

✓ F. 259 (see early notes) Leptodermis sp. (? L. Potanini)

✓ F. 260 Leptodermis sp.

(Seed of both travels best in the shocks,
& will want further cleaning, & then to
be sown broadly in boxes.) They are both
plants of rare beauty & value: F. 259
being probably the less rigidly drought-
requiring of the two.)

- ✓ F. 200 Saxifraga sp.
(Note delicious aromatic pine-like scent of the dry plant)
- ✓ F. 214 Potentilla sp.
(seeds. little brown nuts. Sow over a wide surface)
- ✓ F. 305 Allium sp.
- ✓ F. 222 Allium kansuense (sift most thoroughly for more seeds)
- (F. 44) × Buddleia sp. poorer seed. (not for distribution)
- (F. 96) × Isopyrum grandiflorum
(do not distribute till raised) Sow shallow,
— as with all alpinines, & broadly over a box
- ✓ F. 333 Betula alba
common white Birch (Don't overload people with it.)
- (F. 197.a) × Premula sp.
? = F. 197. Rou Ba form. Poor seed. Do not send out.

✓ F. 134 Cercidiphyllum sp

A pretty white flowered, graceful leaved small shrub, from hot places on or among limestone rocks. low down.

✓ F. 60 Disporon sessile.

✓ F. 334 x Sweetia sp

✓ B An Annual: general in the highest turf of the Alpine ridges, with loose 6-inch pyramids of by pale blue stars in August. Do not distribute till raised.

✓ F. 178a x Pumila sp ~~##~~ (?) No 15.

Unknown. Probably as numbered. Coll. by a Chinese boy. Do not distribute

✓ F. 335 Celtis sp.

(Sent before; without No? — If another figure is attached, cancel, & know it as 335)

✓ F. 317. Ilex sp

With the last, & of similar charm & habit, with a barer smoother grey bole.

✓ F. 336 Sedum sp

Sow & keep, hot & dry on poor soil. Beautiful masses of bronze & blue

metallic foliage, with dense 8 inch pyg-
amids of white stars in Aug-September.
From hot & stony bare places, & especially
down between the tiles along ^{each} ~~the~~ grooves
of house-roofs.

F. 174

Oster sp. Big Bear

F. 337

Saussurea sp. (See note on snow
slope for Mr Bowles. Distribute 2nd lot.
Flower probably hideous)

F. 95

Exochorda sp.

Only seen on one range of ^{small} hot rocks at
8000. A slender slight bush of 4-5 feet
with beautiful white flowers. (Sift the
shocks thoroughly for more seed.)

F. 338 (B)

Pyrus sp. (Sectio incerta)

tree, 20-25 ft. often many stemmed & of
magnificent autumn colour & fine fruit
One tree only noted, in the Satane Alps.
Flower unknown. (see non vidi. Not for
distribution bill raised)

✓ F. 339

Rhododendron sp

About 8-10 ft. rather glaucous-leaved.
 Flower, etc. unknown.

(✓ F. 83

x Kerria japonica

Not for distribution yet >

✓ F. 340

Pertia ? - ?

A bush. 4-5 feet (Tibetan woodlands)

with strange twiggy growths & fluffy seed.

✓ F. 341

Pinus Armandi

([Note: any directions given are to be
 copied for Prof. Balfour as for the
 Shareholders])

(Covers

21

(Distribute all lots: ^(except where contra-indicated) this is the main final batch of 1914)

([Very important Note: — the Boxes containing Prim No. 5. contains also another species, P. No 25, — probably P. septemloba, a woodlander of the same needs, — The smallest crowns are those of the genuine No 5, the larger those of P. septemloba])

✓ F. 191.

Primula Maximowiczii

✓ F. 255

Macropsis sp. nova (M. Psilomma)

a very glorious solitary flowered solitary-stemmed great biennial Poppy of rich lavender purple, about 8-10 inches high, from the uppermost tier of one Tibetan Alp only, between 11500-12000 feet (The seed may also yield some strays of other s/p.). Primulina group

(✓ F. 300

✗ Primula No 24.

Do not distribute till raised, as the seed is of a bygone season, & uncertain. Also I hope you will receive sound distributable crowns.

- ✓ F. 168 Premula No 13 (Sibirica group)
- ✓ F. 183 Premula flava (No 11)
- ~~F. 195~~ Premula cognata (No 19)

~~(watch for different forms or species)~~

- (✓ F. 195^a ~~x~~ Premula cognata (Munchow form)
- (watch, & do not distribute. keep separate)

- (✓ F. 195^b ~~x~~ Premula cognata (??)
- (A different & much smaller species, as I believe it. Watch, & do not distribute)

(Araxeris Gorge)

- ✓ F. 197 Premula No 21

A large woodland species of pale flower, closely allied to P. lichuanensis. From moist grottoes in the high Limestone Alps of Tibet

- ✓ F. 116^a Premula No 8. (P. Imperator)

- ✓ F. 91. Anemone sp.

- ✓ F. 122. Premula No 10.

- ✓ F. 187 Premula No 12. P. conspersa.

A gigantic P. farinosa, with 2-3 tiers of blossom, from exactly similar positions on the Tibetan Alps. Though not also-
~~likely a binomial~~ had better be so treated.