Bermuda
1864

II 5

R B Kennedy (8)

5-7-29 Brassica integrifolia, O.E. Schulz p 151 Fl & well advanced fr. Garden of Valley Forge co. of B.V. This seems undoubted. For English Mustard of 2-4-27 & 3-12-27 see B. juncea, Coss a poss. B. alba Rabenh BM of C.P. 304. Plant 4½ ft tall glaucous. Branches of infl 20 in high.

X

5-6-29

Fl. Mayflower Shrub at least 7 feet & 10 ft. Tips of branches light green grayish with low, small tubercles in 4 lines, knotty because of slight enlargement above each pair of lvs. Lvs opp, elliptic to 9 x 2¾ in, entire, prob acute at apex (but most lvs have apex damaged) narrowed at base, dark green & shining glabrous looking above but has short scattered hairs (20X) above & is puberulent on veins above & beneath. The grooved mid-

rib & lateral veins conspicuous above & still more so below the mid. rib being rounded & reticulate. Young twigs puberulent both sides esp. towards base below. Young twigs close puberulent. Petiole puberulent 1 in long. 2 ufl. axillary spikes. Peduncle 2 in. Spikes 2-3 in, hence shorter than subtending lf. Spikes erect making slight angle with peduncle. Bracts very conspicuous, persistent, each fl. being subtended by a large 5/8-3/4 x 3/8-1/2 in ~~bro~~ ovate, acute or obtuse bract. Bract light green, definitely but not conspicuously veined. Inside this attached laterally at base of calyx are 2 lanceolate bracts 1/2+ in long. Calyx almost 1/2 in of 5 narrow oblong lobes, triangular at apex, inside glabrous & shining but edges inside & outside white woolly (20x) Corolla tube hidden by bract is stout & ~~curved~~

1/2 in long to sinus. Limb strongly 2-lipped. Upper lip strongly curved forward 3/4 in long, 1/2+ in broad at base, 1/4 in broad at tip, strongly 2-nerved down center forming narrow groove with 3 ~~lateral~~ parallel nerves on each side. Puberulent on back, white, the back tinged greenish, the inside with the 6 side nerves purple & other purple flecklings. Tip ~~to~~ blunt & slightly emarginate. Lower lip 3/4 in x 3/4 in, strongly curved forward with 3 equal oblong lobes, the middle lobe ~~[illegible]~~ concave marked purple with pinate veins. Stamens 2, staminodes 0. Anthers on broad side connective & pointed at base. Style filiform simple, the terminal obscurely 2 lobed stigma no larger than style. Style & stamens a little shorter than upper lip. Ovary sessile flattened, puberulent in disk, 2-celled with 2 ovules on ~~parietal~~ axile placentae in each cell. One anther cell seems to stand higher

than the other. Stamens attached about 2/3 of way up from base of tube to sinus in a fold in line with sinus, point of attachment hairy (as are other folds in tube at this height). This suggests Beloperone B M J C P. 705 but evidently not B. guttata. or poss. a Justicia. Internodes at ends of twigs 3/4-1/4 in. Fls opp. giving spike 4 sided look.

X
5-6-29

Mayflower Iris-like clumps of plants with withered remains of fls. Mr. Cox says "like iris" and (if correctly remembered) "fls. blue & yellow" Fls seem to be several borne on flat winged stem 1/2 in broad which is prolonged above fls in a lf 16 1/2 in long 1 in broad narrowing to acute apex. This is

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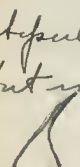
prob a terminal spathes since a deep groove in one of its edges at base bears the fls. (cf. Sisyrinchium) Fl 3, 2 on short flat pedicels, the 3rd sessile, 2-2 1/4 in long. Each fl prob enclosed in ~~st~~ conduplicate bracts but number & shape of perianth parts not easily ~~seen~~ determined, they seem to be all alike oblong 2 in x 5/8-3/4 in folded together conduplicately, with what may be flat stamens, 2 in long intermixed. Poss. filament is pointed near top, the upper part & anthers being deciduous. No tube to perianth as seen & no signs of 3rd parts of fl. 5-14-29 St Paul's Chyd Fr. See 5-14-29. See Marica caerulea Ker S.C.&H. p190 #7

5-6-29 Dombeya

Mayflower called Cassonia by Mr. Cox. Withered fls & fr. Lvs to 9x9 in. Lvs densely starry pubescent ~~above~~ beneath, above less so with (seemingly) some

straight hairs intermixed. Young growth i.e. lvs above & petioles show minute crimson glands (20x) Fls an umbel of 10 on a slender peduncle at least 4 in long, pedicels 1¼-1¾ in long. Petals 1 in long. Calyx ¾ in long divided nearly to base into lanceolate, acuminate segments. Stipules 1 x ⅜ in. ovate & long acuminate but unequilateral thus:



hairs not stellate. Stipules persistent at least not early deciduous. Lvs 3 lobed at apex then rounded to the sinus 1½-2 in deep in largest lf & so narrow that edges of lf overlap. Lf low but definitely toothed. Ovules always more than 2 in each cell usually 4. x10 pedicels bore single fls but 1 bore 4 fls at its apex: 1 sessile the other 3 on stalks ¼-½ in long forming an umbellete. This is prob same as 2-5-27 and 2-22-27.

Fl would be about 2 in. across. Does not seem to be in B M of C.P.

x

5-6-29 Trachelospermum divaricatum K. Schum p. 295 = T. jasminoides Lem B M of C.P. Leg 3. Fl. Mayflower. Proceeding clockwise around fl the 1st edge of corolla lobe is entire except for 1 tooth requiring (this shows plainly in bud) which later is reflexed, the next edge is rounded & fluted. Corolla ⅞ in across, white, very fragrant. Vine very slender.

5-6-29 "Nolanda" by Mr. Cox. Fl. Mayflower. This is same as seen 4-15-27 & 2-2-29 at St. Geo. P.G. labeled "Asystasia gangetica" - differing only as follows: Lvs (only those on fl. twigs collected) not firm & shining but pubescent (20x) above & below.

base obtuse or rounded not cordate
if unfolded lower lobe, lower left,
lower right, upper right, upper left.
Ovary flattened at rt angles to div.
wall but cells which is in line
with anterior posterior axis of fl. ∞
(Ovary dorsiventral twist a little in
fr to produce the "lower valve" effect
7-3-9-29? not necessary as capsule
opens loculicidally) Corolla ½ long
overall x 1 in wide. The two stamens
of each pair united for short distance
at base. See Machrya B.M. of C.P. 703.

5-6-29 Leonotis
Fl. May flower. Undoubtedly the same as
4-29-29 and very likely L. Leonurus R.Br.
B.M. of C.P. 647 tho dif. in some char. Lvs
lanceolate (upper 12 in. of st. only
gathered) 3 x ½ in, acute, tapered to

base. entire toward base but from
a little below middle serrate, pubes-
cence rather harsh. Infl in dense
axillary whorls, the fls short ped-
icelled or almost sessile. Bracts at
base of infl many subulate not
more than ⅜ in x usually ¼ in much shorter
in appearance than calyx tube (See B.M. of C.P.) deflexed
& curving upward so that they
reach hardly to base of calyx tube.
Calyx tube almost ½ in in infl with
10 short sharp pointed teeth 5 being
smaller than the others. Corolla
2 in overall of which the upper ¾ in
is the oblong erect upper lip, the
deflexed lower lip consisting of
3 triangular lobes ⅛-3/16 in long.
Corolla densely orange pubescent.
Corolla outside, calyx outside
& tops of the 3 angled ovary divisions
densely covered with white
spherical glands (20X)

X

5-6-29 Salvia officinalis L. p 327
B.M. & C.P. 638 Fl. Mayflower. Mr. Cox says "ordinary garden sage". Floral lvs are concave esp. in bud making a little boat in which bud lies. Whorles few fld. calyx gray green not purple tinged. teeth sharp pointed but hardly "subulate acuminate" the two lower very little longer than the 3 upper. Corolla rather more than 3/4 in seems larger than as seen at home. Connective about 3/16 in much shorter than in some Salvias studied so that the anthers & forms on anterior portions are visible above base of upper lip. Disk purple Calyx & corolla glandular dotted.

5-6-29 Thymus vulgaris, L. p 831
B.M. & C.P. 642 Fl. Mayflower. Upper teeth of calyx triangular not lanceolate. Upper lip of corolla short & broad & not deeply divided. Lower lip of 3 spreading about equal lobes so that to eye corolla limb looks 4 parted. Corolla limb 1/8 in across Disk relatively high. Anthers very dainty on short filaments low in tube.

X

5-6-29 Dendropogon usneoides, Raf. p 65. Fl. May flower. The 3 petals olive-drab. Ovary superior. Perianth parts distinct. Petal about 1/4 in long. fl about 1/8 in across.

?

5-6-29 Fatsia japonica. Decne & Planch
B.M. & C.P. 539 No flo fr. Mayflower called "Aralia Sieboldi" by Mr. Cox. L. very firm, glabrous, the mid vein & the segments lighter & prominent above & beneath.

?
5-6-29 Cassia lignatrina + p 171
Fl. Mayflower. Same as 4-29-29 at Miss Hunters in st & lvs. (petiolar gland sometimes 3/16 in.) Fl rich yellow 1 in across, opening nearly flat. Sepals yellowish-green, yellow inside, concave, somewhat finely ciliate. Pedicels 5/8 in., falling readily from rachis & from base of fl. Racemes axilary at ends of branches shorter than the subtending lfs, few fld. St. (upper 8 in) ridged & sparsely hairy with white straight hairs. Same 5-7-29 Valley Way only lf & twigs collected. No fls seen. has stipules lanceolate, curved, 4 mm x 1.5 mm, caducous. See 5-14-29

5-6-29 Passiflora stipulata Aubl p 253
Fl. Mayflower. Lvs deeply 3 lobed entire. St. reddish angled (not 4, seems 5 angled)

Petioles 3/4 in long, red, with 2 glands (they are raised & perhaps could be called stalked) about midway, truncate or subcordate at base. Stipules foliaceous 3/4 + in x 3/8 in, very inequilateral, subulate tipped. Fl practically white. Sepals white inside with subulate appendage on back below tip. This seems to be the common sp. in Bermuda varying in color from rose purple to white. Evidently not in B M & C.P. Prob the same as seen 3-23-29 St. John's Churchyard. Corona consists of (1) long fleshy filaments (not nearly as long as petals perh more than 1/2 & less than 2/3 as long), (2) at their base a short fringe (3) around base of style a still shorter fringe. Stalk of ovary bears disk-like ring around it about 1/3 its distance above the base.

5-6-29 Cestrum nocturnum L. p661
Bud Mayflower. Called "Night-flowering Jessamine" by Mr. Cox. St. (upper 12 in) light green not angular tho a little twisted & not perfectly straight & terete. Lvs to 7 × 1½-1¾ in. lanceolate, acute or acuminate, entire, tapering or rounded at base, Petioles ½ in. in leaf. T-la "yellowish, very fragrant at night" in short axillary panicles. Fl almost sessile on pedicels 1/16 in or less. Calyx tubular 1/8 in. ~~Calyx~~ 5-toothed (the teeth varying in relative size in dry fl.) Each fl subtended by narrow bract about the length of calyx. Corolla tube in bud ½ in, shortly 5-lobed, the lobes in bud valvate with the edges folded inward at rt. angles. Stamens 5 alt with corolla lobes, inserted on tube each filament having a little upward projecting tooth on inside at opp point where

the filament become free of corolla. (filaments very obvious but adnate to corolla to base of tube) Anthers very definitely tuberculate (20x) Stigma capitate wider than the slender style. (Ovary 2-celled) Poss C. Parqui. L'Her see B.M. & C.P. 661. Tho it looks 5-lobed from outside. 5-10-29 Same shrub in bud at Southlands upper quarry.

5-9-29
"Mexican Sunflower" by Mrs Allan Smith & others. Southlands Fr. A shrub or tall perennial to 7-10 ft. Very frequent in garden "fls yellow." Young St glandular dotted & densely white hairy. Hairs spreading & woolly & rub off leaving st glabrous. Lvs alt with large foliaceous stipules. Stipules ¾ in high × 1 in broad, hence more or less oblong but flattened at base, attached partly on petiole & partly on st.

almost entire but slightly crenate on edge, rounded on top & sides & is att. (on the young shoot from base collected) strongly 3 nerved & 3 lobed:

the largest on this shoot 10 x 5 in from base of petiole. Prob larger on mature growth. L of decurrent at least 2/3 of distance below the branching of the 3 nerves. L of resinous dotted above & below. Puberulent above & densely & softly white puberulent not appressed below. Infl a panicle. Pedicels to 5 in enlarged at tips. Involl. bracts present but difficult to describe. Receptacle conic. Scales keeled, 3 lobed at top, the middle lobe produced into a sharp point perhaps puberulent. Achenes of disk fls appressed puberulent 3/8 in long including the dentate crown which is produced on the 2 edges into acute lobe points.

All the achenes opened proved to be empty this containing what was probably dried remains of ovary. Crushed lvs. have resinous smell.

5-9-29 Perimenta Perimenta, Coulterell p 263. & B.M. & C.P. 537 Fl (the 1st seen this but should have been long evident) Southlands near entrance.

X
5-9-29

Southlands. A woody vine in upper quarry lvs. just coming out. No flowers. L 2 in when old & leaving when they fall very definite raised scars. L lanceolate to 3½ x 1 in, acuminate narrowed to base, entire, edges revolute, glabrous, firm. Petiole 1/16 in red above, bent upward from the protruding scar. St brown smooth. Veins anastomosing forming de-

finite line around edge. Lvs light yellowish green. In axil of each lf are a number perhaps 12-15 small fleshy projections which may be buds but which show dried above the scars of fallen lvs. These are sticky as is the unfolding tip of the twig.

5-9-29 (1) #172 NY.Bg. Maranthya Barclayana, Lind p 347 & (2) #173 NY.Bg. M. scandens Pers. p 346 Both in fl Southlands on wall on western drive (1) is deep violet (2) pinkish lavender. In (1) has calyx lobes narrower & longer than (2) densely gland-pubescent outside the lobes inclined to be purple tinged. In (2) has calyx lobes green very slightly or not at all gland-pub. outside. Stamens & ovary seem alike in glandular char & calyx lobes inside of both are slightly gland-pubescent. Spec of both pressed.

X

5-9-29 Asparagus Sprengeri, Regel p 73 B.M. & C. P 167 Southlands. Fl. seems to be this & not A. scandens, though in spite of fact that cladodes are frequently less than ½ in & never more than ¾ in long, since fls are in racemes (to 1½ in), lvs usually straight & only slightly if at all curved & scales spiniferous. Fl are white; perianth, ovary, style & filaments, & have pinkish cast only because of the bright orange anthers. Fl ⅛ in long × 3/16 in wide on jointed pedicels never more than 3/16 in long. Plant grew in poor soil under Purple Bauhinia tree west of bridge. Each fl subtended by ~~[illegible]~~ bract as long as lower joint of pedicel. No fragrance

noticed.

X ? p 79
5-9-29 Atamosco Atamasco, Greene
Fl. Southlands. Scape 6-10 in. hollow.
Fl 3 3/4 in. high from top of ovary, on pedicel just more
than 1/4 in which with ovary is included
in spathe 1 1/3-1 3/4 in high. Tube of perianth 2 in high. Perianth white or
perhaps faintly tinged pink but looking
pinkish on fading. Shape of fl like
A. tubispatha not like A. Atamosco.
in all as to perianth segments but not
as to tube, pedicel & spathe. Stamens
unequal. Style 3 ~~lobed~~ tubed but in each
of 2 cases much ~~lobed~~ below the sta-
mens being only 1 in long. Capsule
~~not ripe but pedicel~~ full grown
~~[illegible]~~ 5/8 in high & equally broad, 3 lobed,
depressed. But this is in BF of B. but
note the word "usually" in

desc. of A. tubispatha.

X
5-6-29 Abumon africanum, Britton
p 72 = Agapanthus africanus, H. Berg.
B.M. of C. P 168 Fl. Mayflower. Perianth reg
with a strong nerve down center,
stamens of 2 lengths, declined, stigma
capitate 3 the longer 3 about the length of
style. Ovary oblong 1/2 in long. Ovules
1/8 in. of which upper 2/3 is a flat wing.
6 3 fl on spec. 5-14-29 St Paul's Cty. Flatbell
3-4 ft. L to 2 ft x 1/4 in linear hardly tapering
to blunt point, concave.

? 5-6-29 Crinum asiaticum, L p 81
B.M. of C.P. 189. Fl. Mayflower. But the same
as 4-29-29. Pedicel at is a less. Spathe
valves 2 1/2 in. Tube ~~least to~~ 3 in. seg
2 1/2 in x 1/4 in. Stamens 2 in. Filaments
& style reddish esp toward tip but
not bright red. Anther versatile,
dorsifixed about 9/16 in long, point
of attachment 1/4 of way from base

Flo pure white as to seg, greenish as to tube. 30 flo in umbel. Scape 1 x 1/2 in. Lvs 3 1/4 in wide.

5-9-29 Cyperus Papyrus L p 46 B M J C.P. 123. Fl. Southlands. Involucre bracts 5. lanceolate, of dif. lengths the longest 2 1/2 x 1/2 in the shortest 1 3/8 x 1/4 in, edges rough, acuminate. The umbel of numerous filaform rays 5-7 in long, sheathed at base with fibrous sheaths 1 7/8 in long, four sided & rough on edges, 2 edges having ~~[illegible]~~ slightly prolonged nerves. Involucral bracts 9 filaform, 3 in long outtending 1-3 short apiices 1/2 in long. Spikelets sessile, linear, 1/4 in long, its scales pale chestnut with green ~~[illegible]~~ mid ribs.

5-9-29 Cyperus alternifolius L p 46 B M J C.P. 123. Fl & fr. Southlands & 5-6-29 Mayflower. Involucre lvs on the upper 3/4 in length. in 3 apical ranks, each of subtending a brown bulbil-like body out of which grows 1 of the primary rays to 3 1/2 in long, at apex of which are umbelettes of a sessile digitate head & several secondary rays (3/4 in. or less) bearing digitate heads (these latter sometimes, somewhat compound) Note this dif. from Desc. B.M.J.C.P. 5-17-29 edge of Paget Marsh. Spec smaller in all respects. Secondary ~~[illegible]~~ rays fewer & much shorter to 1/4 in only.

5-6-29 Strelitzia augusta, Thunb Fl. Mayflower, erroneously called Travelers Palm by Mr. Cox as by others in Bermuda. Plant to 20 ft tall flowering from axils of lvs the 1st flo from quite low on plant. Infl from bract which sheaths peduncle & extends stiff, broad-lanceolate

& acuminate & 10 in erect at base bend in peduncle. Peduncle terminates in a stiff fleshy ~~bract~~ spathe blue purplish 3 in long very acuminate or rather this is the lowest of 3 bracts the peduncle continuing, completely sheathed in its base, & bearing in this case 2 other bracts similar but smaller. These bract ~~sheaths~~ spathes ~~bracts~~ bear several fls (the lowest in this case 2) which are hidden in bract in bud & become erect in flowering 1 at a time so that inflo. is of long duration, each fl subtended by broad lanceolate bract almost as long as spathe & retained in it. Fl ~~pedicel~~ sessile. Perianth superior to ovary, flat & pedicel like at base then divided in 6 parts. The 2 upper (sepals) alike 6 in long lanceolate, the lower (sepal) narrower strongly keeled & very acuminate. Of the

3 inner members (petals) the upper is short ½ in ~~oval~~ obovoid with abrupt slight tip the 2 lower conniving to form "the fork" an arrow-shaped organ 5 in long (with broadened infolded base) in the groove of which lie stamens & pistil. Stamens 5, filaments 1+ in, anthers 3/3 in long. Style stiff & tough, filiform with its 3/3 in style mostly exserted beyond the tongue. Ovary hidden in spathe 3 in or more long 3-sided, 3-celled with many ovules on axile placentae. Style 3 branched, the branches too thoroughly stuck together to be separated except in bud. Juice has an acid smell. Sepals white (not a pure white) petals almost white but light blue tinged.

X

5-9-29 Crinum

Fl. Southlands in one of the quarries some distance east of bridge. Lvs bright green margins wavy esp. toward base. Edges perhaps rough toward base but seem smooth toward tip. (Tested by touch only) Lvs. long varying 2-3 in. broad, scape glaucous, grayish purple, quite a dif color than lvs. Fl 15 (in one umbel) pale rosy purple, darker on outside, not fragrant Pedicels to 1½ in, tube curved, slender 3 in. segment as long or almost as long narrower ⅝ in, the broader 3/4 in broad, acute. Stamens purplish toward tip, declinate, unequal, the longest only a little shorter than segments. Anthers form an arc ⌒ differing this from C. asiaticum of 5-6-29 and C. amabile of 1-13-27 Style red, declined as long as segments. Stigma red. 3-lobed. Evidently not in BF of B. See BM of C. P 182. Seems to combine char of C. longiflorum, Thunb & C. Moorei Hook f. but not exactly C. Powelli.

X

5-9-29

Small tree Southlands no flo fr. Lf collected. Lf. evenly bi-pinnate. Rachis & petiole 5¼ in, from tip of terminal ~~p~~ lft to base of petiole 7 in. Pairs of pennae 4, the lower 3 almost at rt. angles with rachis, & the upper form angle of about 45° between them 3 conical, acuminate stipule-like organs, on rachis, bet each ~~pair~~ 2 pennae ~~& a~~ & 1 behind each penna. The 3 remaining on rachis ~~enclosing~~ on each side & between the depressed scars of the penna which detaches easily. These not gland like. Lfts 4 pair on ~~p~~ basal pennae to 6 pair on upper pennae, usually opp sometimes a little scattered.

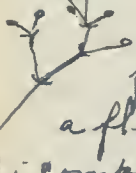
Lfts with petiolules about 1 mm, with ~~similar~~ 3 stipular organs similar to those on main rachis except that they are smaller & the lateral ones are awl shaped without the conical base. Lfts very deciduous. Lfts elliptic to obovate ½ x ¼ in below to ⅞ x ½ in on upper pinnae, entire, rounded & a little emarginate at apex, rounded or obtuse at base, somewhat inequilateral. Whole lf light green & glabrous.

?
5-11-29 Jasminum Sambac, Ait p 288 BMQCP 594. Vine in tub & 1st more or less nal pinnel fl. B.V. on trellis at back door of hallway. Lvs to 2⅜ x 1¾ in. Calyx teeth 8, linear (or malformed) usually folded down center. ⅜ in long at most, hairy inside, more or less so outside but approaching glabrous. Pedicels pubescent. Fl somewhat doubled.

Corolla lobes obtuse. St. pubescent. Fl. fragrant. Pr B this. 1-29-27 was low & straggly shrubby, may have been this cut back & hence flowering in Jan.

X
5-11-29 ~~Stachilanthes isophyllus T.~~ Anderson p 357 BMQCP 710. B.V. Garden 1st fl season. Pedicel & calyx outside densely hairy inside covered with a tabled glands. Corolla in high x ⅝ in across. Tube narrow at base but enlarged & curved above. Stamens 4, their bases of filaments barely connected, anthers pointed at base. Position of staminode indicated by tiny protuberance. Anthers & pollen white. Corolla dull blue, lighter on lobes. Pubescent & slightly glandular outside. Stigma with 1 long recurved lobe & 1 very short erect lobe. Ovary in disk, ⅛ in high, 2-celled, ovules 13 in each cell on axile placentae. Corolla twisted in bud.

~~Perhaps~~ Ruellia malacosperma, Greenm. J. 701. BMJCP. Infl. cymose, each cyme with 2 linear bracts. 5-16-29 Well advanced fr from same plant 7/8 in x 3/16 in almost cylindrical but indent about middle rather narrowly tapering to base & pointed short beak. 2 celled, 2 valved, loculicidally (all developing) 8 in each cell, flat torus on slender hooks. Ovary not stipitate. Infl axilary, the fls either solitary or on slender forking branches.



with 2 small bracts at each fork. ~~Perhaps~~ Prob. is there was once a fl in each fork & infl is cymose (this compound infl studied from remains only) L vs glabrous except a little hairy at base & at glabrous except on line connecting bases of lvs. ~~Stems~~ rather bluntly 4 angled.

5-9-29

Southlands Fr only from plant thought to be Hippeastrum. But seeds are black, very flat 5/8 in long x almost as broad, winged all around by very thin membrane, the seed itself when membrane is removed being white 7/16 in long x 3/8+ in wide. ~~Could this be~~ Prob. fr of Sprekelia formosissima, Herb. BMJCP 181. (Taken from bed around sundial where Mrs. Allan Smith said "Jacobean-lilies" were growing). Pod erect, top-shaped, 1 1/4 in wide at base & strongly 3 lobed tapering to apex. Remains of withered perianth firmly attached to apex. Scape is hollow to base of fr. so it cannot be Hippeastrum whose peduncles are solid.

???
5-9-29 Elaeagnus pungens Thunb. BMJCP. 529 Southlands no flr fr.

twig collected. Shrub with practically no trunk but long to 10 ft drooping branches (Perhaps var reflexa, Rehd) Char as underlined. Very pub. this. Collected also 4-11-29.

X

5-11-29 Origanum Marjorana, L p 331 = Marjorana hortensis, Moench B.M. & C.P. 650 Fl. from Hilda's garden. Lvs to 3/4 x 7/16 in. Infl compound, the terminating in what looks like clusters of little green scaly balls. These ~~balls~~ scales are the sub-orbicular subtending bracts. Calyx is much like the bract (turned the other way up) having no under lip at all. Corolla white, flattened as it peeps out bet. calyx & bract. The five lobes almost equal but the 2 upper erect while the ~~two~~ other 3 ~~lower~~ forming the lower lip are spreading. Stamens with white filaments & anthers exerted usually at sinus bet. upper & lower lip increasing the flattened effect.

5-7-29 Psychotria ligustrifolia, Millsp p 363. Buds Paget Marsh

5-6-29 Hibiscus
Fl. "Mayflower" from seeds imported for Hawaii" says Mr. Cox. Fl yellow but not studied till faded. St. gray & smooth. Lvs. firmer, broader, less sharply notched, less pointed at each end than those of H. Rosa-sinensis collected 5-11-29 outside kitchen door of B.V. Lvs broadly ovate to 3 x 2 1/2 in, firm, glabrous but not shining above. Same color beneath & glabrous except for occasional stary pubescence on veins beneath (the same sort of pubescence seen on

H. Rosa-sinensis). Obtuse or broadly acute at apex & rounded or subcordate at base. 5-7 nerved, entire below but low crenate from the middle or below. Peduncle jointed (as in H. Rosa-sinensis) Involucre bracts linear, 7 (1 flor. just studied) ½ in long, calyx 1 in long cut ½ way into 5 broadly lanceolate lobes. Calyx lobes finely pubescent inside, & calyx exp. rounded tip & edges. shows signs of starry pubescence outside (as in H. Rosa-sinensis) Ovary softly pubescent esp. toward top. Corolla about 3 in long.

5-6-29 Cryptostegia grandiflora R. Br. p297 B.M. & C.R. 608. (See 4-29-29) May flower F2. Follicles 2 spreading almost at rt angles to at at its apex 3 in long x 1½ wide across top and as wide or almost so on the other ~~two~~ 2 faces, the 3 angles esp. the upper 2 winged. Seeds like milkweed seeds.

#168 N.Y.B.G.

5-7-29 ?? Centella asiatica Urban p273 Fl & bud Paget Marsh. Evidently Centella but as 2-16 & 20-27 & 4-5-29 Lvs have ~~wa~~ deep sinus so narrow that margins often overlap. Bracts of involucel 2, broadly ovate, almost 3 mm long x 2.5 mm wide. Umbellet of 3 almost sessile fls. Petals 6, greenish with purple edges, esp on back, edges minutely jagged but petal ~~not~~ acute not emarginate or with inflexed tip. Stamens 6, anthers purple. Petals ovate 1.5 mm long & equally broad, not clawed but subcordate at base, with more or less evident ridge down center inside. Ovary at anthers about 2 mm high x 3 mm wide, glabrous except for a few long spreading hairs on edges

Pedicels 1/2 in or much less. Styles shorter than filaments. Typical lf. 1 3/4 × 1 1/2 in the sinus being 1/2 in deep.

5-9-29 Demazeria loliacea, Nyman p 34. Young fr. Southlands growing with Asparagus Sprengeri by purple Bauhinia. Spikelets abt 7 v second on under side. Fracture Spikelets not quite sessile, having pedicel of 1 mm. v occasionally esp toward base spikelets are in 2s one having pedicel of 2 mm. Plant 2 1/4 in high. Lf blades to 3/4 in very narrow. Ligule 1.5+ mm long. Spikes 1-1 1/4 in long.

5-9-29 Plant thought to be Anthoxyza aethiopica, L. has smooth red seeds, 3/16 × 1/4 in × 1/8 in the cells apparently not containing more than 2-3 or 4 seeds. Capsule loculicidal. Southlands. Capsule 7/16 in high. Fl stalk encased in lvs to near top.

5-9-29 Clerodendrum Cainito, L. p 385. B.M. C.P. 590. Southlands. Moffa fr. Plant only 2-3 ft high. Lvs 2 1/2 × 1 1/2 in oval abruptly acute, base obtuse entire dark green v shining above. Beneath beautifully silver brown silky. Petioles & twigs also brown tomentose esp on lower side. Lvs with many parallel cross veins, noticeable esp. below. Lf conduplicate in aestivation v green v globose inside from the beginning. × In upper quality, seen there 4 27.

5-9-29 Lonicera japonica, Thunb p 372 B.M. C.P. 726. Fl. Southlands. Lvs pubescent both sides. Corolla glandular pubescent outside. Bracklets & calyx lobes conspic-

unevenly ciliate. Ovary 3-celled.

X
5-9-29
Southlands Shrub no fl or fr. prob Ligustrum. Prob seen elsewhere i.e. at Breezie Brae on west side of middle rd shortly west of Valley Way. St. glabrous but young at roughish to touch with minute circular lenticels. Lvs opp. glabrous, ovate to 2¼ x 1 in, bluntly acute, cuneate at base, thick, crenate, each rounded tooth bearing at first a small black mucron in sinus, dark green above, lighter below. At this season scaley pointed buds very conspicuous in axils, scales being glabrous but inconspicuously brown ciliate. At base of bud on each side is remains of what might be a tiny fimbriate brown stipule.

Branches grow upright & wand like cf with L. ovalifolium at home.

5-9-29 Salvia coccinea, L. p 326 BMJC.P. 640 Fl. Southlands cult.

5-9-29 Jatropha multifida, L. ~~Bu~~ p 211. Buds. Stamens 8. Calyx lobes 5 ~~Corolla~~ Petals 5 convolute in bud.

5-9-29 Pelargonium hortorum, Bailey. BMJCP 435 Fr. Southlands. Valves coiling. ovary puberulent. Seed finely wrinkled.

5-9-29 Bauhinia
Fl & Incipe fr. Southlands, the purple flh tree at west end of bridge. Fl to 4 in across Lvs to 4½ long x 5½ wide often cleft only ¼ or less of length. Lobes rounded not

obtuse or acute. Veins 11 to 13 (if 13 the 2 outside not prominent) Fr very flat, varying in width in same pod. Prob. none on tree were over 8 in. Remains of fl clung to pedicel at base of fr. stalk. Pod glabrous except for few hairs on edges & shows no signs of the glandular bodies on ovary.

5-9-29 Lantana Sellowiana, Link & Otto. Fl. Southlands. Same plant as 4-11-29 but a better spec.

5-6-29 Senecio Cineraria. DC. p 396 B.M. N.C. P. 784 Mayflower. No flor fr. "Fl yellow" says Mr. Cox. The oblong obtuse segms somewhat lobed esp on lower side. Lvs densely white woolly both sides but less so above.

5-6-29 Andropogon Schoenanthus, L p 10 = Cymbopogon — Spreng. B.M. N.C. P. 108 Mayflower. No flor fr. Lvs gray green, mid-rib white & other veins obvious glabrous, rough on edges, 20 in x 5/8 in acuminate. Ligule short & truncate. Crushed lvs have unmistakable lemon odor.

5-6-29
Tree No flor fr. "Mahogany" by Mr. Cox resembles tree labeled "Swietenia macrophylla" at Agri Stat in front of dwelling. Lfts 4 pair ~~ovate~~ oblong to 6 3/4 x 2 1/4 in. glabrous & shining above, dull below. bluntly acute, entire, inequi at base, lateral veins very strongly marked. (See 3-21-29) Lfts not falcate the upper side is usually broader than lower.

#139 G.H. [redacted]
#140 N.Y.B.G.

5-9-29

Grass in fl Southlands along entrance drive & perhaps elsewhere. Inflo. paniculate but (at this stage at least) slender & closely erect tho not exactly appressed giving effect of spike. Florets articulate above glumes. Spikelet perfect 2-fld, 3 mm long & small x 2 mm wide over all (its parts spread rather widely) 1st glume 1½ mm long, very narrow linear, green, not stiff, folded down its midnerve which is minutely roughened, 2nd glume 2 mm long x 3 mm wide, broadest above middle, truncate at top, concave, with broad hyaline margins & green centre in which 3 nerves show very definitely from inside, minutely roughened (at least on mid-nerve) on back. 1st fl. scale 2½ mm long, narrowly oblong, outside minutely pimply (20x & 84x) rough to the needle-points, light green except a apex which is darker keeled & a trifle hooded. Only the mid-nerve shows plainly from within. Palet very free, hyaline, delicate, 2 mm long, hence shorter than lemma, 2 keeled, rough on keels. Ovary 1½+ mm narrow, the upper third looking as tho it might be an appendage (tuberculate) when grain is ripe. Stigmas small. Stamens 3 anthers white, very small. 2nd flt on pedicel of ¾ mm and only slightly smaller than the 1st. Filaments very slender. Plants 12-21 in slender, light green sheaths & loz softly hairy. Lf blades 7 cm x 5 mm, acute. Ligule 1½ mm, toothed.

5-13-29 2nd triangle back of Mangroville
Paget #141 R.B.K.

BMJCP 267

5-12-29 Lychnis Coeli-rosa, Desv. p 134
Fl. Cottage "Viscaria" by Miss Smith.
Sepals united, base of calyx bracteate & style 5 hence prob. Lychnis

Only upper 12 in of plant collected (from bouquet) but lvs on that linear or narrowly lanceolate 2 in × 3/16 in, acuminate, minutely toothed on edge, midnerve prominent beneath. Infl loosely paniculate or perhaps fls should be considered solitary on branches. Fls on naked spreading peduncles 2-3 in long (when a pr. of lvs appear on what seems a peduncle ~~they~~ the axil of one of them contains a bud). Calyx tube 9/16 in high, narrow at base, larger in middle & somewhat narrowed again at throat (club shaped?) strongly 10 ~~bar~~ ribbed, the ribs being transversely wrinkled & more or less toothed. Limb of Calyx of 5 teeth 1/4+ in long, these are broad at base with hyaline margins, the center dark green (a continuation of a rib) & prolonged into a subulate tip. Fl 1 3/8 in across, rose-red (a pink) each petal notched at apex, with a dark red toothed erect scale at throat. ~~Stigmas~~ Styles 5, about half as long as petals the tips spirally curved (like watch spring). Styles lie flat in same plane as petals (not protruding at rt angles to petals) hairy down inside from tip to base. Stamens 10. Ovules many. Seeds prob will be rough. Plant glabrous, without vscid pubes.

#138 GH.

5-13-29 Biza maxima 1 pt ~~26~~ 31 BM & CP 120 Fl. Lawn of Highwood just ~~west~~ east of ferry-wharf on no. side Puget sound. Spikelet 3/4 in × ~~1~~ 3/8+ in. Fl scales besides being hairy on exposed parts are densely papilose hairy on portions covered by the scale beneath. 1st glume about 7-nerved narrowed to base, 2nd glume about 11-nerved strongly cordate, both purplish at very base. Lemmas 11-nerved.

× but not with oval scales as dense for

5-14-29

the small Briza [3-14-29] but blue thick hairs enlarged at apex. Glumes & lemmas are light bronzy green & mostly hyaline except for the distinct green nerves which in lemma have a row of minute white dots on each side. Palea 4 x 2½ mm as desc 3-14-29 except that it is finely ciliate and quite glabrous on back. Anthers white not purple (see 3-14-29) at any stage. Lvs to 7¾ x ⅜ in. Ligule ⅛ in high, milky white, hyaline being a continuation of the similar edges of sheath. Collar purple at least at corners, oblique. Plant glabrous, light green, at base purplish. Note lvs are longer & wider than desc BF & B. & could hardly be called "narrowly linear" Plants 18-24 in high

5-13-29 Pteris Caudata, L. p 419 ✓ Devonshire Marsh. Shows recurved margins plainly. Pinnules & rachis hairy beneath. Abundant.

5-13-29

Grass, no fls Devonshire Marsh where field cut ends marsh at east end of no. rd common. Seen there 4-1-29. Prob is Holcus halepensis L p 11. BM & CP 105. Since "midrib is white & prominent" above, keeled below. Blade many nerved. Plant 4⅕ ft to tops of lvs. Lvs to 2 ft x ⅜ in. Sheaths purplish at least at base, glabrous except densely hairy at node, the hairs often rising from enlarged purple bases. Ligule a ring of hairs. Culm 5/16 in diam with large white pithy center. Plant grayish green.

5-13-29 Mauranda antirrhiniflora, Willd. p 346 Fl. Muddered Devonshire So side just beyond Mrs. Dore's. Sepals glabrous outside, slightly glandular pubescent inside. Corolla glabrous outside v ~~small~~ pubescent inside only on lower lip v somewhat at base. Filaments papilose at base v glandular throughout most of length esp at top. In me fl studied stamnode evident, very small but with rudiments of anther.

× ⁂

5-13-29 Eupatorium Capillifolium, Small p387 Devonshire Marsh in path thru marsh at so. end near house. Herbaceous plant 3 ft high. St. stout, simple 5½ mm diam conspicuously covered with white spreading hairs. Lvs fasp below their bases forming ridge around st. Alt above leaves 6 lf in line with the 1st Lower lvs narrowly 3-pinnatifid the ultimate lobes short (looks like fine lvd member of carrot family) upper lvs. 2-pinnate into very long linear segs. The whole effect very fine fringy incongruous with the stout hairy st. Lvs 4-4½ in inc petiole. Petiole hairy the rest of lf tending to be glabrous. Upper lvs bear other lvs in axils. 5-15-29 Mr. Eugenius Zuill calls this "French Fennel"

×

5-13-29 Echinochloa Crus galli, Beauv. p20. Fl. In cult field no-east corner of Devonshire Marsh. Some of the spikelets only awn pointed but many others with awns to 1 in long. 3rd scale is empty but has palet. Plant not more than 2 ft over all.

5-13-29 Ilex vomitoria, Ait p 222 BMCP 463. Devonshire Marsh Fl. In path through

marsh 20 x 3 inches only. Fls perfect, certainly young & as fr is copious v the 4 stamens appear developed. Stigma 4-lobed, ovary 4-celled. Lf. ciliate each tooth tipped with black point.

5-13-29 ? Potentilla reptans, L p164 Rosfl v fr. Devonshire Marsh no. side v by rd so side near Keddermath in at g B.V. Stipules adnate to petiole for most of their length v sheathing. Lvs glabrous above v also below except on veins, ciliate not "silky".

5-13-29 ? Chalcas exotica p 202 BMJ C P. 444 Rosemount "Citronella" by Mrs Allan Smith. Very young buds v pedicels from which fr has dropped. Fl seem to be in small clusters. Sepals v petals 5, stamens 10, style 2-lobed. Fruit "a small red berry. Fls come out suddenly without buds having been noticed" says Mrs. Smith.

X

5-13-29 Juncus articulatus, Hsch x p69 Devonshire Marsh on path thru marsh. Fl. Plants to 3 ft. Sheaths strongly compressed. Lvs grass like but lacking mid vein, the lower lvs esp. ~~flatte~~ standing in same plane as flattened sheaths v edge on to the culm (as tho the prolongation of 1 side of sheath only). Sepals with broad stripe green in center, brown on edges shortly acul pointed but hardly acuminate. Petals with broad green stripe in center v broad brown margins with whitish hyaline edges. Stamens 3, of anthers shorter (not much) than filaments. Fl heads about 60. Perianth 3 mm long. Capsule v ovoid but not greatly tapered to base. Base of st tuberous thickened v producing white bulb + clustered at base

Plants of 8 in bloom were flowering

5-13-29 Syntherisma sanguinalis, Duke p19 Devonshire Marsh no-cast end rachis & pedicels bothed on edges.

5-13-29 Capriola Dactylon, Kuntze p 86 Devonshire Marsh no-cast end. Ligule short, deeply fringed with longer hairs (noticeable to eye) just about at base of ff. & on front edges of collar.

#149 G.H.
5-13-29 Polypogon
Devonshire Marsh. Outer scales 2mm long with awns of same length (which suggests P. litoralis) the 3rd scale is "much shorter erose-truncate, hyaline, bearing a delicate awn, inserted below apex"

see P. monspeliensis. desc & ill.
But see also ill for P. littoralis showing awn.

×
5-13-29 Verbena alba, L p 399 Fl U
young fr. Achenes dorsally with 2 or 3 ridges, wrinkle edges, tuberculate.

5-13-29 Brainea Monniera, Drake p 348
Devonshire Marsh. Corolla almost white. Anthers blue. Stamens 4, with position of staminode indicate. Ovules single
Calyx seg. unequal: 1 broadly ovate, 2 very narrow, the other 2 intermediate
Stigma obscurely 2-lobed. Corolla nearly regular campanulate with lobes spreading.

5-13-29 Senardia repens, p 267 Fl.
Devonshire Marsh. This because of linear

bracklets subtending calyx & because the small petals are not "reddish" but a light soft yellow. Stamens 4, ~~capsule~~ ovary 4-celled & 4 lobed on top. Ovary 5 mm long filling all of calyx tube. The most advanced spec has young capsule 6 mm long (3 lines) while calyx lobes are 3 mm long. Petals 3 mm long found in all fls studied

#146 G.H.

5-13-29 Rynchospora stipitata, Chapm p 53. Fl. Devonshire Marsh. (Certainly not R. distans because has not at all filiform) Achene shows faint signs of becoming wrinkled & the conic tubercle is faintly hairy Lvs 1/4 in wide. Most mature achenes 1 1/2 mm (3/4 line) long. Scales chestnut brown

5-13-29 Eleocharis interstincta, RVS p 50. Fl. Devonshire Marsh. Fl. Culms usually about 1 ft high Culms smooth & shining not papillose (See 4-1-29)

×

5-13-29 Erigeron annua, Pers p 392 Fl Roadside on Middle Rd Devonshire at the 2 branches west of church. Beaks with long white hairs that are evident to eye in bud.

5-13-29 Kylinga brevifolia L p 47 Fl. & young fr. Devonshire Marsh.

5-13-29 ~~Gymnocarpus glandulosus E. Meyer p 297 Same place as 2-10-29. Fr. an inflated pod containing a much narrower pod inside attached by a thin membrane which extends ~~to length~~~

169 GH.

5-13-29 Centella

Flr young fr. Devonshire Marsh.
Lvs hairy, some long white hairs on back, very noticeable on young lvs. Pedicels & petioles also sparsely hairy.

191 R.B.K.

5-13-29

Devonshire Marsh No flr fr (Plants seen also 4-1-29) 3 spec collected 12 in high but remembered as much higher perhaps 2 ft. St purple, obtusely 4 angled, hispid with abt white hairs from enlarged bases. Lvs opp. ovate to lanceolate, to 3½ x 1½+ in. Petioles ¾ in, acute, 3 nerved (the lateral nerves not strong & often oblique) & somewhat pointed at base & narrowly decurrent on petioles. Dry toothed. rough hairy both sides. Not uncommon on north side of marsh near west end. Not Galinsoga parviflora Cav. p 402 v perh not Phryma Leptostachya p 358 or Brea lappulacea, Pers p 313 tho this last seems most perh (not much like ill) Note 11-22-29 Why not V. scabra, Vahl. p 310

5-7-29? Callicarpa americana, L p 319 BMP C.P. 633. Paget Marsh No flr fr. Only young twig collected. L & blade ill in shape. Glandular dotted both sides, above thickly & softly pubescent hairs mostly straight but some exp or veins branched, beneath too white tomentose with a fuzzy pubescence as on petioles & young st. Lvs rather more pointed at base than ill. shows & not as pointed at apex.

?

5-14-29 Cassia liguatrina

Shrub in Valley Way desc 5-7-29 has fls like the one at Mayflower 5-6-29. Shrub slightly north has seed pods. Seed like ~~5-6-29~~ 4-29-29 Mrs Hunters and pod the same except that some are longer to 4 in. (some even 6 cm) with length. Seeds lie across the pod. Lvs "go to sleep" at night.

5-14-29

Plants resembling iris like those at Mayflower 5-6-29. St. Pauls Clyd Fr. Lvs to 3 ft x 1½ in broad (estimated) Fl stalk very like lf but stiffer by thickened central portion & mostly longer. Fl borne on inside edge. Fr drooping on 2 in flattened pedicels which issue from among the withered fl remains noted 5-6-29. Fr an oblong capsule with thick leathery walls 2¾ in x ¾ in green (at this time) with parallel corky looking brown cracks on lobes.

Strongly 3-lobed each lobe with a depressed vein. 3-celled. Seeds on axile placenta, oblong ¼ in x ⅛ in diam, attached at base and ridge lengthwise longitudinally. ~~The~~ Seed (at this time) light green, with a small whitish bulbous appendage at base which continues in a line up one side & terminates at apex enlarged to form small rounded protuberance. Embryo at this upper point. Seed more or less overlapping & not definitely in 1 row nor in 2 rows. Withered floral remains (prob bracts) have faint pleasant odor.

6-12-29 Plant, no flor fr in house at The Pine. H.K. says "it is an iris or like an iris." See Marica caerulea Ker S.C.J.H 1907

? X
5-6-29 Ptychosperma elegans, Blume
Mayflower "Seaforthia elegans" by Mr
Cox. p 58 See BMJ C.P. 131 Pinnate lvs
palm. Observed not studied. 5-9-29
Southlands a small palm observed
above & beyond tomb may be the same.
Pinnate lved. St. irreg ridged. Fr
small in long drooping panicles
See LeMVD 815

? X
5-6-29 Philodendron giganteum, Schott
p61 BMJ C.P 140 No fl or fr. Observed only
Mayflower. Mr Cox says he "has not seen
fls." This is prob the one commonly seen
in Bermuda. N.B. the mottled yellow-
mottled lvs. (p61) is also seen but less
often

5-6-29 Ceiba pentandra, Gaertn p 241
Tree observed at Mayflower just
putting out lvs "Silk cotton" by Mr. Cox

5-6-29 Mr. Harry Cox recommends R.
B.K to see Mrs. Delanys Wild Flowers
(made of papers) at the British Museum.

X
5-6-29 Mr. Harry Cox says Polypticum
adiantiforme, J. Smith p 424 should be
looked for on north side of Devonshire Marsh
about opp. Church, (R.B.K. could not find
it 5-13-29), that large specimens seen
there only undersized ones in Harring-
ton Sound region (See 5-15-29)

X
4-10-29
Tree labeled "Napoleons Plume" Pav-la-Ville
is bare, with long pods. R.B.K. not Bauhinia
monandra, Kurz See B.F. J B. 175

X

4-10-29 Erythrina Bermudiana Hotel at entrance from Pas-la-Ville large tree, no lvs in full fl. Seems not to be any species studied elsewhere.

? X

4-15-29 "Cycas circinalis" L BMJ C.P. 77 labeled Agri Stat. Small plant so-east of dwelling. Lvs much like Zamia floridana at Southlands 4-11-29 but with 2 rows of thorns on petiole. Petiole 12-18 in. Blade 1 ft x 8 in with 28 lanceolate linear segments. Edges not revolute. 5-17-29 diff from Zamia 4-11-29 in having wider segments and mid-rib as well as petiole toothed

? X

4-15-29 "Samánea Saman" labeled Agri Stat. so-east of dwelling just leaving out BMJ C.P. 432. See BFJ B. 170

4-15-29 Poinsettia pulcherrima. p 218 BMJ C.P 453. Agri Stat. 4-6 ♂ fl in involucre. Glands sometimes 2

4-15-29 Jatropha multifida L. p 211 Agri Stat. A tuft of slender linear branches like hairs remain on stem each side of lf scar. Are these remains of stipules? Yes. Stipules observed 5-15-29 at Wattsville.

4-15-29? "Washingtonia filifera" labeled Agri. Stat so. side. Petiole spiney with yellow recurved hooks ~~the~~ its entire length. Lvs cut about ½ way very filimentose. BMJ C.P 137 See B.F.J B. 58 -

? X

4-15-29 "Phoenix rupicola" labeled Agri Stat. s-w. cor. certainly has not flaccid pinnae BMJ C.P 132 BFJ B. 57

4-15-29 "Phoenix Canariensis." Club labeled Agri Stat south of big rubber tree 2 specimens. Very stocky. 3 ft diam 7 ft (in one case) 10 ft (in the other) to top of crown. Lvs 12-15 ft long with a tendancy to turn edgewise & droop at tips.

4-29-29 "Erythrina Crista-galli" labeled Public Garden St. Geo. Lvs fully out & fl buds well advanced - a few open. Tree 2½ ft diam at base, branching at about 3 ft into 3 upright branches 8-15 in diam. Top sawed off at about 8 ft. Roots throw out young growth which bears fls. Infl to 18 in long, the lower fls in groups of 1-3 in axils of lvs, upper fls with no subtending lvs. All the lvs & fls are on young growth the shoots being to 3 ft long.

5-15-29 Gerbera Thevetia L. p 294. BMGCP 602. Fl so side of Beverhill Rd east of Montrose. If "many glands at base of calyx are surround the base of disk they are inconspicuous (partly because of exuding milk. Style 2 lobed so distinctly as to seem almost 2 parted. Style no higher than stamens deep in throat of corolla. Stigma a double cone (narrow at base to top of style, 2 lobed above) the bases forming a ridge around center which has 10 ∆ular teeth pointing downward. Ovules bright green in the lighter colored flesh of ovary. Corolla has 5 inward projecting scales at throat a thick ring of hairs encircling inside of tube & scales. Directly below each scale is an almost sessile anther with connective prolonged into lanceolate point 1-1½ mm long. Shortly below anthers (perhaps to be considered as filament adnate to corolla

tube is an oblong projection into tube with a ring of hairs (like that on scales) at their bases. Margins very little if at all revolute.

5-15-29 Coreopsis tinctoria, Nutt Fl. p 406 BMJCP 742. Garden of Little French Shop. Outer ovate 2 mm long, 8 some (10-2) Mem a short distance below the other on peduncle. Inner bracts oblong to 8 mm long, united at base, reflexed at anthesis, all bracts brownish. Rays 8, 11/16 in long 3 lobed at apex, deep maroon above, with yellow streaks below. Disk fls, tube yellow, the upper part of lobes dark maroon-brown. Receptacles scales narrowly linear, only a little shorter than fls, hyaline with 2 red nerves close together & maroon at apex. Achenes flattish, glabrous, pappus none. No sign of style in ray fls but their achenes seem to be developing. Disk fls 1-2 divided into filiform div.

5-15-29 Lavatera trimestris, L. p 240 BMJCP 485 The white fld form. Waterville (Mrs. Terringham) Fl 2½ in diam. Styles evidently as many as carpels.

5-15-29? Bauhinia variegata, L BMJCP 422 Fl (no lf collected) from Waterville. white the upper 2 petals veined green 2½ x 2 in. Stamens 5 all fertile. This agrees with desc. 4-11-29 Southlands (Note scales on calyx white before turning brown) Calyx reddish. Only signs of stamnodes 3:1 filiform 3/16 in v 24 mere protuberances. This is fard Tree which furnished spec 2-11-27.

5-15-29 Jatropha multifida L. p 211
Fl. Waterville Peduncle 8 in Fl in
compound cyme 3½ in across. 2 small
lanceolate bracts at each forking.
Only central lowest fl (now in young
fr) seems ♀. All stem parts of infl &
calyx coral red. Petals slightly more
yellowish inside. ♂ flo pedicels ¼ in,
calyx articulated with pedicel ⅛ in
high. cleft ½ way into 5 lobes. Fl
½ in across. the 5 petals free, yellowish.
5 lobed. Stamens 7 in all ♂ flo counted,
and 6 in 1 ♀. No rudimentary ♀ organs.
♀ fl sessile, calyx as above. Stigma sessile
2 parted with each div. 2 lobed. Petals
had fallen. Ovary, angled 2 celled
with ovules on ~~pa~~ axile placentae
1 in each cell developing. Perhaps there
had been more ovules or perhaps
ovules being pendant the parts
brought past as undeveloped ovules
were attachments of ovules to placentae.
x anthers ex trorsely dehiscent

5-15-29 ? Ornithogalum
Union-like plant at Sunnyland (See
3-11-27, 2-27-29) No aegis of infl. Of 2
bs collected 1 was 3 ft 9 in x 9/16 in most of
length tapered to ⅛ in but tip blunt. the
other 2 ft 7 in x 5/16 in. No evident mid-rib
but middle of lf slightly rounded or
keeled on back. Note bs of Nothoscordum
fragrans in flat this time are not
more than 16 in x ⅜ in

5-15-29 Nothoscordum fragrans, Kunth
p 70 Fl. No. Rd Paget just west of Waterville
See above for bs. Filaments broad enough
to touch at base, rather abruptly narrowed
at apex. Scape hollow 12-18 in, slender
⅛ in diam. The 2 bracts each ½ in ovate,
1 sheathing the other but not separated to
base. Fl 3/16 in high, campanulate & not

opening widely but almost 3/4 in by widest pos. meas. Anthers dorsifixed Fls 13-15 on pedicels 1/2 in long. Ovules 8-10 in each cell. Style slightly 3 sided but no signs of "jointed near the base" Fl mostly white, greenish toward base, green or purplish on not very distinct rein on back sometimes purplish tinged at apex and fading purplish

5-15-29 Carex albolutescens Schweinitz. p 35. Fl Devonshire Marsh toward so. end of path. Culms 12-14 in. slender Lvs about same length 3 mm wide acuminate, sides standing as as to make an angle bet. them. Bract at base of each spike ovate-lanceolate sometimes subulate tipped. Spikes 5-6. Scales, bearing silvery white with lime-lime ~~[illegible]~~ white mid-rib va narrow of bright

green stripe each side. Perigynia greenish but white on margin & toward base, 4 mm long at this stage achenes hardening. Scales a little shorter

Not numbered G.H.

5-15-29 Polypodium adiantiforme. J Smith p 424. No spores. Devonshire Marsh north side, go east of the main path and east of the cultivation on no side of road to place where a smallish "double" cedar stands at so. side of road from which one sees a tall cedar just within marsh slightly to left va good sized holly bush beneath it. One clump of fern is directly opp the "double" cedar and others may be found in vicinity. "Fern grows always on edge of marsh and raised above it as on palmetto stump" says Miss Sarah Jackson of Mt. Pleasant. This spec. grows on

root of royal fern. Had only a few lvs of which one was estimated 20 in x 14 in. Petiole scuffy.

5-13-29 Nonpalmocarpus oplyscarpus E. Meyer fo 29 of Same place as 2-10-29 Fran inflated pod enclosing a much narrower pod attached by a length wise membrane on one side v several threads. Seeds many, pendant, oblanceolate, depressed on one side v rounded at base with long tuft of silky hairs. Very like milkweed.

5-14-29 Pilea nummulariaefolia, Wedd fo 105 Valley Way Fl. seem to be ♀ only but so small parts not distinguished except the much divided stigma.

5-14-29 Sporobolus Berteroanus, Hitch v Clare Valley Way Young fr. Quite like ill in all ways but note that if spikelets have 3 scales the palet is green very scale-like v not thin v hyaline nor "2-nerved" Otherwise this must be considered as having 4 scales v no palet. Lvs erect the long acuminate tip with edges involute v whole blade with edges involute or curving forward so as to look almost tubular. Ligule very short, v outer sheath edge minutely ciliate. Spikelet at this stage only 2 mm (1 line) long. v with minute fringe at top. Panicle about 8 in.

5-14-29 Chaetochloa middle Rd just west of with "mut-grass" Valley Way. Fl v young fr. Fl scales finely transversely wrinkled. Racemes 3 in. Bristles not more than 3 lines long

either C. geniculata Millsp & Chase or C. viridis Scribn p 22-23. Plant 2 ft 9 in tall

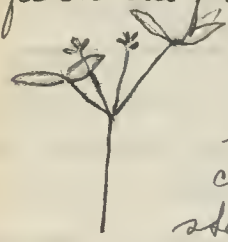
5-14-29 Avena sativa L. p 29 Field in Middle Rd just west of Mrs. Smiths.

5-14-29 ? Holcus lanatus L. p 11 v BMJCP 105 By ditch Middle Rd just east of Valley Way. Fl not quite open but no anthers visible. Hairs has very much the general appearance of unknown Dermaline March 5-13-29 in white mid rib, keeled beneath, many parallel veins & plant purplish toward base. But nodes glabrous (not densely hairy as 5-13) and ligule (not a ring of hairs as dense 5-13) but the glabrous inside is long

hairy on back, the hairs projecting above top (perhaps 5-13-29 dense a mistake) Lf blade very hairy just above ligule.

5-16-29 Tabernaemontana coronaria, Willd p 294. BMJCP 606 BV. garden name as 1-25-# 1927. Bud which is difficult to study because of copious milk. This is prob what Miss Hunter called Gardenia. Fl terminal often 2 ~~flatens~~ twigs bearing fl arising from same point to 2 in or less. Top of twig bears 1 lf. scar only. Fl cymose 3-4 together on short thick pedicels which are small bracted or almost sessile. Calyx about its base not definitely marked from top of pedicel 5 lobed, the inside at base bearing 15-20 scales (prob glands) Corolla white, double lobes convolute v diff to study from bud.

Stamens seem to be 10 with anthers sessile on corolla tube. Disk fo'bid. No signs of ovules. x 2 or 3 x 1 twigs bearing lvs often arise from same point



Petioles at base have small upright scale like part which stands close to the new lf bearing stem arising from bet lvs. These perh scales which enclosed the new bud.

Not numbered G.H.

5-15-29 Stidium x yredifolium, J.M. Small p 90. Bud Devonshire Marsh on main path across marsh where Mrs Jackson says they are plentiful perh. a little later. 12 in high. Lvs linear 2-4 in below the longest not reaching to middle of st. Bracts almost to top of st. (See ill.) x) St. glabrous to within a inch of infl. Bracts broadly ovate with abruptly long acuminate tip x Labor that everything pubescent, the bracts less so than the ovary & corolla & rachis

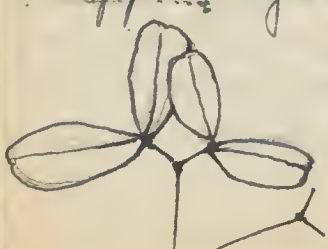
5-15-29 Leptilon canadense Britton p 394 ~~R't to end of Little French Shop~~. Fl compared with specs from Norwich 4-27-28. Clearly distinguishable

5-15-29 Phoenix
Small plants in front of Little French Shop w/ flo. Plant very small and flo perh not 1 ft from ground. Calyx short & almost truncate. Petals at tip & leathery. Tree 3 ft over all. Flo at 1 ft from ground.

5-16-29 ? Laurus nobilis L. p 141, BHGS 295. Small tree so. 2nd of pp. Overlook. This v others like it called "Bay" by various

people including Mrs Allan Smith.
No fls. Lvs alt. at ⅐ evergreen, very fragrant when crushed, about just-
ified. Some lanceolate & tapered to both
ends 2¼ x ¾ in. but frequently oblong
2¾ in x 1⅜, rounded at apex with
a short tip & little narrowed at base.
Veiny ~~the~~ above the yellowish midrib
conspicuous. Edges a little wavy
& rough to eye & touch altho not sharp
as many of the terms so apply. Dull dark
green. Buds (pro) leaf buds in axils
have scales ~~with~~ minutely rusty
puberulent & are rusty ciliate

X See as possibility. BMJC. P432 3C of H 2652
5-15-29 Pithecolobium Anguis - Cat. Mart p170
Tree 35 ft at eastern edge of Waterville
overhanging wall. Very finely
branched. ~~Fine~~ Twigs have short alt.
spurs from which appear 1 to several
(in 1 case 2 glands)
lvs. Petiole ½-¾ in with gland
at apex where it bears 2 petiolules
about ⅜ in long. Each of these with
gland at apex and 2 almost sessile lfts.
2 lfts to 1½ in x ¾ in inequi oblong,
entire, blunt & slightly emarginate
at apex, rounded on outside, straight
rather on inside, narrowed to base
(the midrib at base being only ⅓ of
distance from inside edge. Lvs
come out of bud bronzy, later light green
(only a little paler beneath), glabrous
somewhat ciliate on entire edge,
the petiole & petiolules broadly grooved
as as to look flattish as top lacing
on upper edges esp when young.



Perhaps of Caesalpiniaceae? No fls. fr.
a tree perhaps like
this is seen at eight
over wall as one begins
to ascend Bunny Hill
Rd. seems to be pure
slumber order but
this not noticeable in crushed lvs.

5-14-29.

Herb on no side of middle rd but Valley way & place where Privet grows. St succulent 3/8 in diam, reddish, glabrous below & ~~pubescent~~ hairy above, slightly flattened & very obscurely & roundly 4 angled. Lvs opp exfoliate bases of petioles forming a very low ridge around st. Lvs 6½ x 3/8 in (perhaps larger below as only tip was collected, acuminate, broadest almost at the truncate or subcordate base, soft somewhat hairy edges reddish (20X) and ciliate Dark green above, beneath lighter & with illusive purplish cast ~~seen~~ to veins (tho there are not purple 20X) Petiole 1 3/8 in. (If measured) Perhaps Mirabilis jalapa p. 123. No signs of black dots beneath to make it Boerhaavia erecta p. 124 But under side (20X) shows minute light green

flecking of something like elongated granules which can be plainly seen embedded in the tissue when the outside skin is torn away. These flecking have no definite arrangement but seem to point in all different directions. Mr. Nauen says "Mirabilis jalapa"

5-14-29 Ipomoea decisecta, Pursh p. 302 fl. Middle Rd no. side opp Portuguese House short distance west of Valley Way.

5-17-29 ? Hamelia erecta, Jacq p. 370 = H. ~~patens~~ patens, Jacq BMC P. 215 Bud Agric Stat labeled on of these names (see earlier) Shrub 5 ft Lvs in whorls of 3's, largest on short collected 3¼ x 1¾ in. Petioles 3/8-½ in, reddish as are young stems, nutrit towards base above & beneath and

edge of lf. Lvs atout equally acute at apex & base. Veins distinct above & prominent below, curving upwards.

In bud calyx 1/16 in corolla tube 3/8 in, the anthers almost as long as the connate filaments ~~and~~ type is hardly 1 mm. long and the basal lobes of anthers tailed are as long as ~~to~~ the equally short free part of filament and tips of anthers reach to tip of corolla bud. Style reaches to tip of corolla bud rising from a bulbous disk (of size & shape that makes it look like an ovary at first) (Of 10 fls studied: 5 had corolla lobes, stamens, & ovary cells 4-4-4, 2 had them 5-5-3, 2 had them 5-5-4 and 1 had them 5-5-5. (Note this exp as to number of ovary cells the only dif from desc BMJ & P) Ovules many & very small in each cell, coming out in a single mass from each cell. Corolla lobes valvate. Calyx red & pubescent. Corolla red & ~~slightly~~ less pubescent (prob pubescent)

X

5-17-29 Centaurea americana, Nutt p 407 BMJ C-P 791 Fl. Agri Stat. in border s-e of dwelling. St stout ridged & blue lvs slightly roughish. Receptacle very bristly with long smooth white linear (almost filiform) scales. Achene glabrous. Pappus of unequally barbed bristles. Fl. involl. bracts green & parallel ~~ob~~ veined (about 8) below appendage.

5-17-29 "Santalum album" L p 107 Labeled Agri. St. Fl & fr. Mr. Nauen says some authority to whom he sent specs called it "Neosantalum album". Calyx hemispheric with 4 triang-

ular lobes, turning ~~purple~~ maroon brown & recurving. Alt with calyx lobes attached to top of tube 4 ~~up~~ erect petals (or scales). shorter than calyx lobes & of same brown color. Stamens 4, opp calyx lobes, attached to top of tube a trifle longer than petals, turning the same color, a tuft of white hairs behind each filament. Style simple, stigma 3-lobed, ovary partly inferior, ovule 1, erect tapering at top. Fr a dark, thin skinned drupe about 5/16 in diam, almost spherical the top with flattish circle formed by base of calyx. Calyx lobes at first light (can't see if exactly white) Lvs opp, firm, twigs very slender. All part glabrous.

5-17-29 Bignonia radicans L p353 BM of C.P. 687 No flr fr. Vine climbing with aerial roots on tree ~~on~~ east side of south end of Valley Way. Lvs opp just coming out. Lflts 13 in 6 opp pairs & terminal lft (& small odd lft just below terminal one.) Rachis noticeably white pubescent at base of petiolules.

5-18-29 Selenicereus grandiflorus Britton & Rose p256. BM of C.P. 524 Bud 1st house on Middle Rd no side west of St. Paul. Bud 3 in overall & slightly fragrant when ext. Axillary felt & hairs give bud very shaggy woolly look. Not yet evident that stamens are in 2 series. Ovules stalked in clusters on wall of ovary.

5-18-29 "Jatropha podagrica, Hook p 211 (labeled) Agri Stat ♀ fl. Fl very like J. multifida except lighter (more yellowish) red. & stouter shorter peduncle. Cluster bore several ♀ fls all low in cyme. Ovules 1 in each cell pendulous with 2 lobed crest above point of attachment. Stamens 8 in the 4 fls examined. Nectries taken on lvs.

~~5-18-29~~ 5-17-29
Shrub labeled "Mussenda frondosa" at Agri Stat. Examined immature fr. 3/16 in long. 2 celled, each containing many ovules standing at rt angles to axile placenta. Ovules not smooth. Fr (evidently a capsule) oblong, slightly flattened on axis at rt. angles to div. but cells.

5-17-29 Breynia nivosa, J.M. Small p 220 BMQCP 454 Agri Stat. ♀ fl only found showing ovary 3-celled & ovules in cells (number not noted) Possible there were buds of ♂ fls at tips of branches.

5-17-29 Melianthus major L p 227 BMQCP 472. Fl. Agri Stat. Lower sacate (or gibbous) sepal has a very stiff concave member inside it (forms a stiffening for sepal Filaments flat at base, the 2 posterior free, the 2 anterior connate with a scant stamnode between. ~~Drab has 4 pocket like glands~~. Ovules 4-6 in each cell. Inside of cell glandular pubescent Petals 4 very pumpily (glandular?) and woolly along inner edge united. (There are scars from

which the withered petals fell)
Petals much smaller than sepals
free above & below but united in middle
Prof the stiff member inside lower
sepal is "disk but petals & stamens
but except that it is 3-lobed &
lobes ~~sub-x~~ very slightly notched
there is no sign of "10 projections

5-17-29 Aleurites Fordii Hemsl. BMJCP.
455 acc. to Mr. Nauen is the plantation
of young "tung-oil trees" ~~east~~ north of office
observed earlier

5-15-29 Galium bermudense L p 868
called "Head-soon" by Mrs Sarah Jackson

5-15-29 "Bed Rush" says Mrs S. J
formerly used to stuff in mattresses

5-15-29 Crinum asiaticum L
Sunnylands. Lvs to 3 ft long 6-7 in broad,
conspicuously nerved

5-4-29 Rev. Kirkpatrick says his
Silia (only one at Agri. Exhibition) was
S. laciniata
Mrs. Gray sec. as general dust:
1 part arsenate of lead
9 " s dusting sulphur
1 " tobacco dust

Burgundy Mixture discolors plants
less than Bordeaux Mixture

Grayholme is the triangle opposite
Mangroville
Annadale is place opposite Netherlands

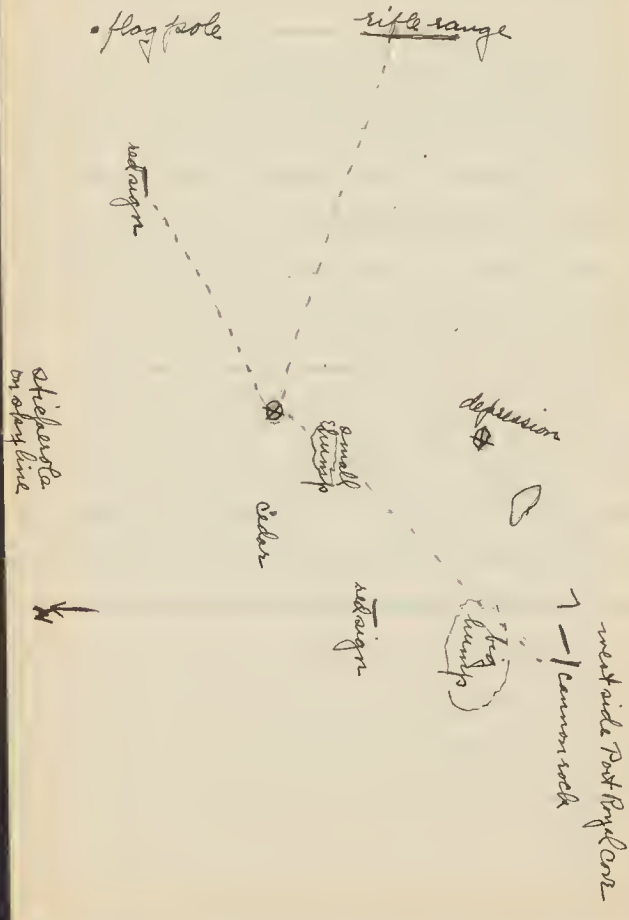
4-6-29 Garden Club Mrs Moncure Robinson exhibits – all very lovely:
Rose Margaret Horton, beautiful salmony yellow
Rose Elvira Chamayo, rich coral red
Petunia, Beck's Velvety Blue

3-11-29 At Miss Gray's Rock Garden
"Begonia rubra"
"Pancratium" Rosf.
"Eucharis Lily" fl v lf noted

5-17-29 "Schotia" — prob. pointed out by Mr. Nauen at Agri. Station.

5-17-29
" ——— montana " } prob. pointed out by Mr. Nauen at Agri Station.
" ——— melissima "

3-20-29 V 4-6-29 Raimannia burmifusa Rose
Rose p. 267. Port Royal Cove Fl.



Prob. 8-11-29 Miss Gray's Rock Garden
"Tree fern" Stems climbing long distances over rocks. St. green with brownish purple hairs – thickly so at tip. Stipes & mid-veins distinctly brown. Scar on rhizome at point of detachment. Stipe 16in or more long, blade 1ft+

○ ○

(Copied later from penciled notes on which appeared the name Lygodium)

Observe:

Potentilla westward from BV.

Sonchus - both lands - to press

Erigeron philadelphicus

Silene maritima

Beaumontia grandiflora, look for "lf-like deciduous bracts subtending flo.

Clerodendron fragrans see if branches angled

Casurina study different types

Pilea nummulariaefolia

Eugenia axillaris in Valley Way.

Cymbalaria Cymbalaria seed

Yellow composite in Valley Way.

For beach grasses not seen in flower

Consider Paspalum vaginatum p15

Sporobolus virginicus p26

Eragrostis ciliaris p31

Incorrectly labeled at Agri. Station
4-15-29 "Avacado Pear Persea "
in horse lot east of bull pen in Mangos
Mangifera indica L. Fl v of characteristic

4-15-29 "Chrysobalanus pellocarpus"
not that. probs Rapholepsis
integerrima B F of B. 166

"Mussaenda frondosa" is not
of Rubiaceae at all.