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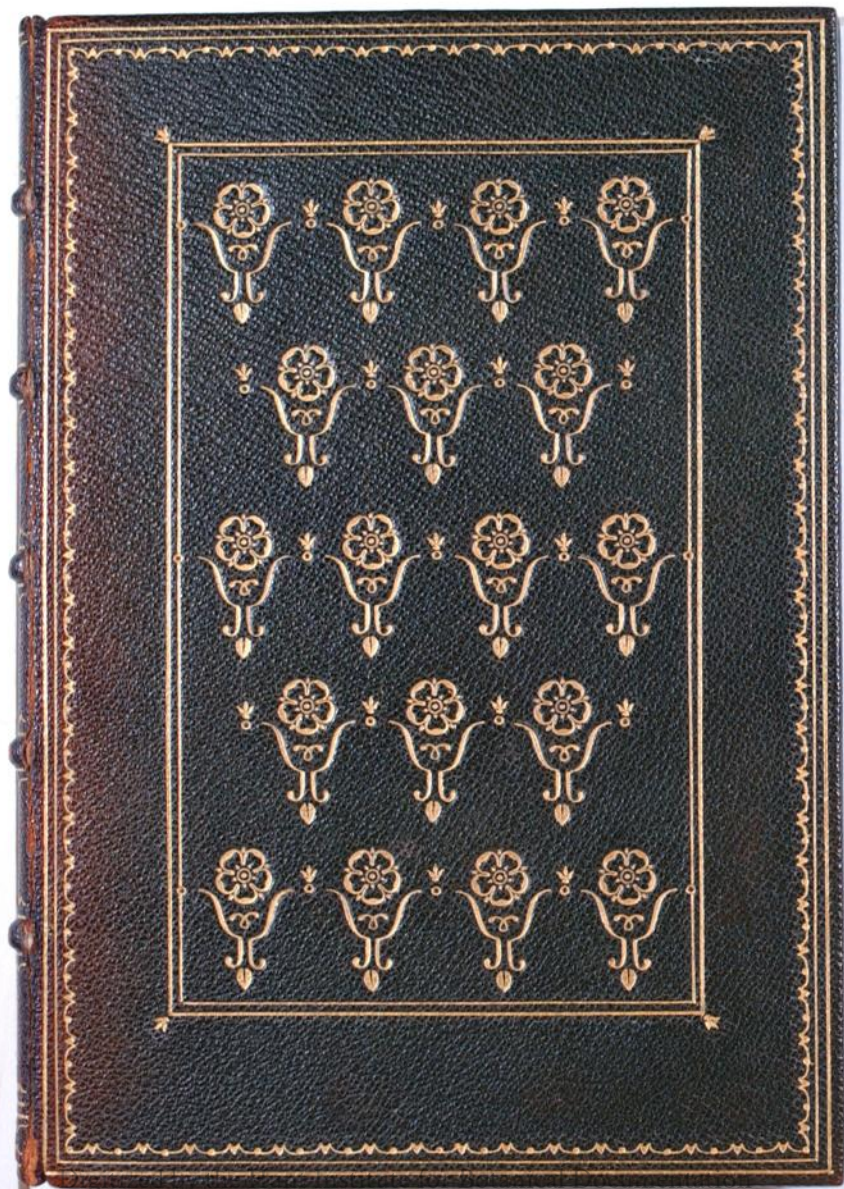
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About the Institute

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.



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Bynt. Hoo. Lent. Set from water & lay in a vben stake, ragg'd to vable on. Wenne from at so dayt on 2 or more together the elder will bring the younger to eat the water. Sower from off to make them gentle. For large Hogs reare 3 of a sowe of from a bove: and at 14 dayt late. Seld puffed under the sowe before a springing could. But ralse & fank-lankt none fallen the rest danger. Colled for theiddle gold young to be right for the wate not so but enter gold wgen they be lustie. Seld fillicies but small under 9 dayes old: up large of bond geide from net. Some Runcinall peas, & oates in some grounden above fells. Double bugett becoms fawer & rootet but fust by plouge. Lay land brade up for barley & oates, but for fawenng not till May. Some drinen land to lay that it may growe. Digge Garden. Drey Malhoues. Cutte the soil & set the youngest rootet in Damase & wite.

Reas on the Lord giddy
 + 12 + 1 May W M + R
 + 10 + 12 ms 12 + 12

February.

Snow at some knilly.

Dung y^e ground one month eoe y^e spreade it. Some brise after spreading. Be sure to dung the worst ground. Sower pubble in for fytte beane & peasen. Some ten Chuallet & Sory timely, but wite after Gregory. Some from before y^e plouge, & sometime sower after. Make not tillage for earing. Quittet none gathered & small by at market. Seld leuor amount of Runcinall peas. Some must be set after a snow in none rust. Some & garrowe may be set in bramble hays hares fennell around, in vben none bramble. Cut & set Oiers & vmes. Aled Swannet & mals from city, & strong not to. Salve molles. Sward molles. Sp. pasture do not spare the molles. Heue & spare pasture. To vesse barley & wate, spare mayting & vntill fitt time. Set y^e Lenten fust. To speed for frost fyt & take Oicum benedictum $\frac{1}{3}$ & alfa fatrida & mette from together & put from in a double glass. Any fooke or fytte barks dropped spee they presentlie.

March.

dusty & drie.

Seide Rumbet none fallen. Satter stones after. Jarrowet & lay from on fcapet. One fette sell or fite. Hunt unyoked fopt. Heare yeele Duetty. Spare Warriges fytte of yeele. Some vme fectes in Warr, & vore take direction for other mchtyes. Grew fyllowet Herbes for fawen falladde & fawet, to come or better, to frowe for windowes, & for pats, to still or for pps. fute. Auens, Alexanders, Artichokes, Annise, Archangell. Baies fwe or set in Jan. Bachelers buttons, Beanes, Betony, Beets, Blessed cystis, Bloudwort, Bist in May. Balme, Bettle, Cabage vromous in June. Camomill, Campions, Carots, Charuell, Cierous fow in May. Clary, Coleworts, Columbines, Gmary, Cowslips, Crejse, Cucumbers in Apr. or May. Cummin, Daylies, Daffadounillies, Dill, Denny, or garden ginger, Dragons, Eglantine or Sweet bryer, Endive, Eybright, Fennell, Featherfew, Flou. amore in May, Flou. de luce. Flower gentle, Flower rice, Fumitery, Guordles in May. Grmel seed Harke tongue, Holihoke, Hysop in Febr. / July. flowers. Indian ees fow in May. Langdacees, Leakes vromous in June. Lettuce vromous in May. Liverwort, Longwort, Lavender, Lavender spike, Lavender after. Larkes fust, Laure sibi, Lilly conall, / Lillies in Mar. Sept. / Licor. Louage, Mallowes jagged, Mandrakes, Marygoldes, not from after egg. poud doullet, Mercury. Majeron gentle. Lot. Majeron. Maids in Wite. Muske melons in Apr. & May. Mustard seed in the spring cat. Nishad. N. Nigwort. Noy Navears, Nigella. Romana. Onions from serend. to Dura. Orach, Patience, Porclay, Pennyroyall, Pennyrose, Porret, Purslane, Tene. pene in May. Terympe in winter. Tunnies or Hartscase, Begles, Dukes of all fustet. Dionies, Dlantra, Poppies. Queens-fylf flowers, Radish, Rampions, Rapes, Redmints, Rispies, Rewe. Rockat in Apr. / Rosemary, Rofes in Jan. / September. Rubarb. Runcinall peas in winter. Sage. Saffron August. Summer Savorie, Saxifrage, Saum Sea-holly, Slethe & y. growe fust & vore vromous. / Sperage, Sherret, pigat in March. Smallhark gold for pelling. Snap, Aragon, Sops in wme, Sorrell, Spingae for Sommer, Starre of Bethlehem, Starre of Jerusalem, Stocke Julyff, of all colourd vmbles or fytte. Strawberry, Stickwort, Succory.

Orange. Buglos.

Sweet John. Sweet-Williams. Tansie. Tarragon floure
set in March. Time. Tuffe gillyflowers. Turneps in May. Apr.
Violets all released. Delicat flowers or French marigolds. Talarian
Wall gillyfl. single double. Woodbine Woodrose for sweet wa-
ter & roses. Winter Savory.

By Capers Lemons

Oliver Oranges Rice Samphire. Some wile growe after
Gregory Mar. 13. Spare Medowes at Gregoria Pastures & Marshes
at Pasche or Ester.

Hoppes notes the best & youngest

well watered & pared set in cold foot quart, half a foot deep
a drye rounder & four long & a stop. Under open knee high, or
high hill 5 foot from stop, leveled with a line, & eye a foot
wide. Get a throw of iron round & parge to make level.
Gone up a throw with a cross (over the water) get at so a
stone & a parge like the sole of a boot.

Grasse in warme weather when the wind is not East.
Wet bitts at any time.

Barly may be sown in
strong soft groundes this month in drye groundes Apr. or May
too late sowing or in rain to not up to the mid-water or
some & set in Gardens. Land falling South or Southwest

is best for tillage soft garden & overland. At Spring make
garden for Summer at Harvest for Winter. New
sette see you water now sown doe not so. Garden

toilet be the Dibble the iron thicke tooth rake the mattocke &
spade, a watering pot.

Set or remove when weather is colde
to sow & gather in time for be bolde. Seeds put in
dent purgely the blood, so water-cresses potage. Pease pot-
tage parge omeale milke & bread. Dye winter rucked makes

very more wile sows. Spenceate meet for Labours
De Troy newe the wile of pier crowes rucens buzzardes hies
& moles.

Aprill.

Aprill flowers bred May flowers

Be still sowing of Barly. After Barly be sown be full
sowing of Aprill be due. Spread your Compass but not
till you be ready to plough it in. Spare & provide me-
dow for Gage. Hence it good for dillards but not for Gage

2 times your Gage. Giltet with 3 peles a pint, set (strongly)
but then sowed not nigh together. Still set some be-
twee ground. Spare the Crakes for Mille or Shippers. Still

Hoppes. p.

wood-fall.

the harts to the Danner before falling. Good stile. heptus.
Sout of lime & p. & double for warts & plough for bulds &
Sout fiddle. Rusell & Sallone for fortet & warts of bulds &
Trent for strengels. Sout fiddle or fiddle of Gage & p.
A p. & warty the strongest & best 12 in drye wet at the felle.
Sout the stop or Spring by fencing it before falling. Sout to
keep out open out of the wood & rid out all the warts. Sout
the or Lammie at the felle. Sout not common warts out
many warts. Sout, get the warts stop, get unmixed. Sout lard.
Sout fiddle & felle from Gage. Sout lard from April
till Andrew be past. To warte good pasture good niche lower
good huswife. Good butter & cheese sell well. Cheese must be not
fist too much, not salted too long. Sout well broken, no way
well sowed out, salted well (if it will be for the house) milk
set stronger like warm for sowed up toughness, milk sowed well
warty & milk well sowed for sowed of sowed, milk well
sowed for sowed of burning. Hence Gage in for warty.
Sout violet flowers & drye them in the shadowe.

Barly.

cheese

May.

Wile & wile best.

At May day put away the lambert & milke Gage feed 5 to one
trout until Lammie stop not from May till October. Sout
& fill Gage that embarsch warts. To warty in warty weather for
strong warty. Sout of Gage, sowing of Gage till May so well sowed
in Gage & p. sowing till pasture be grown. Sout &
warty or Barly may now be sowed or mowed in the low-
groundes of the time to warty. Warty winter warty all
May warty Thistles Tares Brakes Cocks & Biddle, especially sowed
warty you will find for feed. A warty warty a warty & warty are
warty. Warty warty warty after a warty, & so garden
& sowed. Sout Buck or Branke, after Barly or warty &
in warty ground upon the first break. Warty you sowed & warty of
Barly you may sowed 3 warty branke. Buck warty & warty
warty. Sout pease for warty in the Gage sowed at warty.
Sout Aflax & warty. Sout & sowed sowed, warty sowed
(for) sowing from sowing for sowing of the Gage. Warty warty

Monthly

well & keep out Peacocks Turkeys & Geese. Take Tittlers
& drive out of myralls. Drivee Alder & Marjory grounds.
Many beeh ready to waerne. The fullness in in garde
Wax - ground. Willow in Janrie. After this fullness
many egg (leaves) galled & piars overdrressed. Sugar
strong. Put tobacco in good waerne pasture well watered
dark for try winter fuel. From May to mid August
some frost at noon. Soile gerbed. Some Basil in
potent to take in in cold weather. To July, flowers to be
set. Keep Oxe from try some.

June.

Calm weather for come

Need Early & Oats. Wafts flocks in running
water, well dried in wind or sun. Feeds from
springs not lambd till mid-June. Butts mowed
to length till 10, then to the gage. Grounds for
rabbits & pigs. If trim my back with rabbits
for hay & some with, border for round. Let it
be well flowered & grassed. Or else let on not
yet mowed with grass. Grass will be to let
the back ready on in March & in number to full
flocks in. Quadrants would be due & free from
rabbits & mice. Grounds flowered & dry or for
for mowing & other use. Green bracks now
or make good hay and after. Grounds
Starch, & small Talus & Wheat. Grass for
herb for rabbit & toots. Separate water & toots.
Rabbit ground & ground that annoy not noise in
woodland. But down & small & brush at 10, 10
m. Above the garden of winter round, but of
Early & grass to grass best is done. East middle dit
not & mowed in summer grounds not fairs & dry, no mud
on ground for mowing. For Hop garden good the
fence or leafy mould, not water but not overflooded, not
to much sand, nor mud with clay & rubbish, young
Dunn Bough & Calmest, & free from Rabbits & Hares.

Herpess

Hastbury

binds. Then digrie & fence it. Hop strings are made
[Pavai] malt & well brewed make a beer soft longer.

July.

No tempests doe good.

Allake say, burke it towarde more for fawre o' rime. And
 it between vñ sundre, twinge it if it verily break it is e-
 noughe. Adellene talke graffe must be well drie especially if
 above it were feed with wet or rime after cutting & thus saying
 George Horne say & bente on laits needes not mung making.
 Horne gendland o' darty & pape. In fallowes betwixt &
 mowmyn to depure needes not by the darte or garden beante
 yngher norve, the lowest & vpoft out of water a kniffe. Gather
 out the yallowe fowle fowpe from the grove, to yowre fill-
 for feed. Reide the feed fowpe after it is out vpo in a mow
 mow & for it right up round & round the top & feed with toverte
 or fowme to keepe it from birds. yea may it come vpo to yve
 fed on a vobollet upon vben wounded with fowme or hibes. If
 vñ a fowpe laid on yvend ground to dewrotte will break & pill
 to the top so it will ut if the top be yvend it is vvidde to be bound
 up & yowled. Some keele it drie it & ffor it, cause it & rot it
 in Allarye wye it whize rotte. If vñ to fflage drie it brake it.
 Horne Lembre or Burke. Gather mowmwood & two to drie.
 Bind vñ yarkst vome. In yowre handest.

August.

Drie & warme loth no karnie.

Unfortunatly ended lay weeks as for me - barely condole. In
June August September were broken. Dr. Brown is for at
least 1000000. Each fast hope of finding bread for the poor -
good, with very little success. I planned, for after the plague, it
must be saved with a parrot from or look after a wind, about
mid - July - it ruffled it with a following rain. 2. with an

Figure 2

September.

Windie stormes doe hurt.

Nowe begins thy forward yere. In a ffermo to -
 find it good hoke to 12 tynge / caie vent / well storied
 good founde / good founde / good founde / dairy / / / / /
 fille man / man forward / maid forward / good market / ric.
 Owe thy pasture & fowes. Set forward tillage.

23rd cattle yere most profit. To longg, wark, tum -
 beell name & fed let from bo light & strong. Light -
 stile fed yere & yure and drile. Owe & Owe
 young & strong. Alaros take of stature for breed of 2
 Vollet.

Burne. Burne furniture / Ladder pitchforks
 Torte & long / flate / cartnaue / rake / fan / wing / strawforks
 broome / casting shovel / riddle for rie barley oats & pease / the
 shell / pecke / strike / sache with a bond / Locke & keye.

Stable. Stable lorked / strong plankes / Rache / manger / litter /
 hay / chaffe / pender / pitchforks / dungforks / chaffbin /
 sheep / sieue / shovel / broome / wheel barrow / maine combe /
 curry combe / barnacle / scissers / halter / or tynge / bridle / sad -
 dle / Girthes / pale to wash bridle in de / Collers / horseharnes
 white leather / knockers all / pannell / wantie / fustingle / packe
 saddle & peddes / line for litter / crutches & primes to hang
 on / plough whip & staffe / cart whip & hanterope.

Carte. Carte well wethered / clouted / yod / raft ladder & raft
 rope / wether. Ladder for hay / oile & furbest / boards fit for
 cart to use or leave out / dungerome.

Husbandry furni-
 ture. Furniture. Axe / hatchet & hooke / long saw / short saw / hand
 saw / picke / axe / mattoche / spade / shau / bill / frower to -
 true lath & pale / wumbe / piercer / poie of all sortes / hammer
 pions / plicers / adder / English nailer of all sortes / beetle -
 wedges / mallet / chisels / gouge / draught hooke for broome or
 bushes / a file & wist for sawes / grind - stone / whetstone &
 rubbe for thy sieth / saches / Plough furniture.

Plough-furni-
 ture. 2 plowes / plow-chaine / 2 Culters / 3 shares / ground-clowts
 side-clowtes / oxe-bowes & oxehookes / sedge collers / plowtrind
 whipple-trees / billet irons & pins / plowbeetle & staffe / plow
 whip / sed / seedlep / harrowes wood iron / Rowler & Square

Harrest tools. Harvest tools brushsieth / grasse-sieth / corne-sieth / siethhoke
 rife / rubstone & mad / hay-forkes / rakes / sharpe-sickle /

Sheeptools.

Clay-tooles.

Cattle.

wooding tools & pions / following rakes / swath-rakes /
 halfe-s swath-rakes / a picker for ftyes / Sheeptools
 Tare in a Turpot / 3 tur 3 pitch in a tur-kettle / sheeps marks /
 hardles / sheep-sheers / Clay-tooles. a

forke & clay crombe / splents / splentmid / lath-hammer / trowel /
 tray / Clay well tempered with dead-lime & straw or horse-dung /
 ladders long & sharte / Cattle. Cow-house / Rache /
 sole / thrampode / the mayster cowes tied up first & let out laste /
 duple dung them / a stoned or hard stie for a bore / Hoqqe / coats /
 trough therem / trough abraide / Hen-roast with a ladder &
 dore / close entry & safe / kennell for dog neere thy dore / or

neere thy barne / let it be cleane littered / Yokes strong for hogs /
 hogs-rings / shakles / fetters / horse-locke / a sharpe cutting spade
 for hay / a molle-spade / a shuppet / shauell / sickle / didall &
 crombe to draw ditches / Beame / scales & weights true & sealed
 1. 3. 9. 27. 81 so proceed by tripling if need full. 1. 3. 9. 27. will
 serue to waight 40 pound or any under. so for more q / a 56 or
 64 hundred weight for hay / Sow rie in light ground sooner
 in heavy later / or bays or murks / Sow rie in the dust / white
 wheate timely / Dixe any wheate with rie to the mill, but for
 seed none but white-wheate to be ripe together / 23 denst
 broe ym. No goats ke & ponds indifferant, 2 early &
 2 dradys hyke / keeps broods or away / Drains water
 furrows / Turns up thy landes ends / at Michaelmond
 marsh-walles / sicure dikes / c ponds / Cold Ram & Bull /

Garage fruits rabbits wall-nuttos / great growns abroad /
 Some fruits may stay till next wane. flager weather is
 best for all / Plants of best fruits / lay from on a plow
 under a troyed roafe / In frost rouse from wity mattoche
 c for thy best of all. lay a netto / frost well morning out
 all /

Quene none thy best beed. 1. 3. 9. 27. wethered at Bar-
 tholomewe / 10 yd. wethered under 23 pound. & take thy wags
 c / 1 yd. / Drinking at Midsummer / 10 yd. wethered under 23 pound.
 thy best of all. lay a netto / frost well morning out
 all /

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 c / 1 yd. / Drinking at Midsummer / 10 yd. wethered under 23 pound.
 thy best of all. lay a netto / frost well morning out
 all /

breakfast wood-st. & Bultry Dealers & other provisions
by night.

October.

Strong blasts bring hogs-must.

Some weats with speed, soonest upon earth, last up
summertill, the first, first, waterfurrows & straw
min away. Some aremed, game & vic / for tido
peascods now some hastings or fullams / for (peeds)
quicksit some galls a redye with brambls & game. / At
the first till or full. / full now bled for for Baron
Old bread, rone & make it sweet & good it better then
new for expens. / Sweet in the end of October ya
tiger & keep in bedstraw or on the bougges, wegin
den in water & mixed with salts & when all together
thelpe the some of for laye. / Dyrus a gallon
at least & aud ready for forgin & sechls rattell.

November.

In November take the flau. / From Hallowtide
till dayrou-tide till good. / Dredye (ated & early
myte) & early put out to melting, the ourway
is one buffell of a rombe smelt. / For the
tast the round for malt minnow & fan out the
rattle. / Dredye early as labor requires till May
format. / Recs wecats untymed till May
for fawt of forting. / Early the grass, wecats & the
grass mixed & well dusted, thus rattell / keeps it
from fushins & fushins & put in some round it will
be the fourth. / Reason green or fasting in
good soil forat of Hallowtide, Gray or Hallowtide

Apples Peares Plummes Cherries &c may be grafted
on other strange sorts & this also. But the most
best & continually longest without decaying, grafted on
the own natural sort or sort of its own kind. / For
on strange sorts the like the ympe be in nature the
better they will prosper.

Apples Peares &c some without blossoming if they be grafted
on the figtree.

Apples & Chestnuts if you would
fau from being bone & raty, to abide long on the trees
also as to All-hallowtide, grafted the Genetmgs apples &
the Chestnuts on the Dorsan trees or some lasting pear-
tree. / To fau Cherries the grafted from the Franke
Mulberry, Willow or Sallow. / Medlars better

ponder by the month are sad by wetting from the fony
& from grafting from a gooseberry tree & a Franke Mul-
berry tree. / Peares are sad soon by grafting on the
Dne tree & late by grafting on the late Perier stocke.

Late Apples some by grafting on Mulberry & Cherrie tree.
Damons & other Plums to fau from all Summer till
Hallow-mas grafted on Gooseberry fr. Mulberry or Cherrie.

Peaches if month, ponder from other, grafted from the
blossoms on the Franke Mulberry tree. / Some Peares

if you will grafted on the same, they will last. / Ripe
or Franke Mulberries very soon, grafted on the Genetmgs
pear-tree or on the Gooseberry. / To fau from late
grafted on the Medlar tree.

Apples without root. Graft the one end of the ympe
in one sort & the other in another. upon it groweth but
the top end from the other in the middle & it will bring
forth fruits without rots, be it apple or pear.

Grapes without stons some of young whis. burred
set in together in the early the tops downward.

Medlars without stons & taking as fony. wette the
ympe in fony & from grafted on Eglantine or Sweet-
brier.

Peaches without stons be grafted on the
willow sorts. or else by a young pear-tree two now
planted set a willow, & put the young tree through
a bored hole through & close it up to the top, so
after it grows green, cut the Peach, & set it up, & let
the willow be the pear-tree. / Then cut the top off
3 fingers above, & the next winter cut it off just by the
pear-tree ympe, that it only may be fedde.

Apples may be grafted on what sort or colour you will. Be-
fore the Spring bore with a rind or anuger the mid-
deft of the biggest part of the tree & young mingled
Saffron Turnsole Brazil Sanders ac for colour & Spice
Cloves Cinamon or ginger for taste, put the mixtured
into the hole, stop a good pin of the same wood after
it & waite the hole about. Many other like can
be done by the same way or variety to make in the kind.

Branches of trees pruned off & pricked into the
earth will grow. Mulberry Figtree Gumcetre
Service-tree Pomegranate Appletree Damson and o-
ther Plummetrees, being cut off in Nov. & Dec. not after
but from young trees of three or 4 years grow up
the fairest sweetest & highest boughs as big as a
small staffe, then cut from with a footes-foote -
forme & set them about a foot deep in good ground
with a ronne of iron in a moist place, or else
often water them (watered oakes or barly) some
say put in with the will make from root better -
Some the weak to some stake. Gooseberry Small
reyson Barberie Rose Boxe Bay-tree Colutea
Woodbine Tamarisk male or female will grow
of brant of the set in winter.

Barran old trees be made fruitfull, by prun-
ing the ill boughs off & untouching the rootes
in the bank. & then showing the greatest rootes
1 foot from the body & putting in the clef a tyne
stake or yard stone, then upon winter is done rou-
ing from againe with the fattest earth setting the
stone alone. This for apples pears & plummes
In younger trees, bore an hole 1 yard from the
ground aslope downward unto or past the girth
fill it with fony & water mingled the night be-
fore, then with a yoke pin of the same wood stop
it close. A day buried at the root of an
old tree will much renew it.

Cornutt trees be gotten by planting & setting the
stems in fat earth & not in sand. If the nuttles are
risping in water doo make, let them 4 fingers deep
in the or do. 1 foot off from the other. It will
grow as big & broad as the wall-nutt & would
be set in ranked 35 or 45 ones for an acre.

Husbandry.

at Wandismas. Round no some not murther.
Martin-mas beede gang up for the bank at Ebor-
Garlick & 230 acres set at Edm. 20 ac.
in many weathers, into not the least.
Lay up strawe loose & dry for stoker, stoke it for
litter. Grate out the rest. The woods and the same
flour. Fals sattered strawe together now it best may
make mure. Dye & cut up deadlands on yeares to
rot for mure. Gardens now being a fool break
pade deep & filled with mure, then taken from with
mould to the wile Mary, then to be dyde to be
treden out & set. Here pures in the night & curie
the mure in garden to mure. Sweep thymus & lay
mure in wet places. When plowing is ended, sta-
ble the hay, but in a dry season. Gather up
Wompass on round yeares. Cut up mure, fill
all the plots in the pasture, lay them on yeares
till the spring in the field. Make mure of brack
not less or other woods by spreading earth about them.

Gardens

December.

But plentiful.

A fine wood with little & wedge when you runst not
dits & fedyt. Sharpen thys & the teales. 15 lb
wheels barrowe to hope the stuble down from being
postured. Fodder the cattle in the plots of
warme. Sowe young volles with worms. Sow-
ing of vattles out & fobles is good (it rarely mure
tompass & pasture for the) but let them be out
a day to rub & run them. Tend them well with
traw first then in order wreathehand or doab. onto
trawe barley strawe Lay at the last of the fobles
fobles & stubles spied out, gather & beat in the fire.
Lay out the amy & salt in on a grassy way up
a ladder set on two fobles, wren the way a
day or two, lay them on fire & strawe strawe between
the & fire or wares & wares. Set or remove
plant or stork for fruits trees before. Wandismas

If parsneps be not sown before tyme they will murre the other. They must be kept clear from weeds. And the first weeding would be with handes for feare of hurting or digging up the rootes.

- 4 Cabbage & ~~Cabbages~~ Colliflower sown in good ground & kept buds away. Drawing 4 or 5 leaved plant from 3 or 4 foot distant. See to the first sprout lest the slug-eater eat it in hand in the north. Being grown to a flower (readie to purple) cutte from up hand by the north & pill of a little of the rinde. Lay from in cleane water & scaly from. Being almost sod take the coliflower out, & boile it till it be tender in the uppermost of mutton or mairibons broths in a posnet or pipkin. Season it with nutmeg & mace of eggs a little & a good quantity of pepper. If it be served in on pappots with pigton, ducks, samagons or mutton boyled, yet not so mure, is an excellent salad being cold. Cabbage used in all tymes as the coliflower.

- 5 Cucumbers & Muskmelons sown on a bed of forsdung sole from the stable 1 yard thick. May be sown in March the 1st of the month, troden reasonably not too mure. In a bed of fine earth laid 12 inches 6 inches thick set the seed 2 or 3 in an hole 3 inches in distance, covering from north litter none from the stable, or straw 2 or 3 dayes till you see them growe, then take it off & by some device either weed or else bouget, cover them nightly from cold & by day from heat of the sunne. Yet let them have some air & so let them stand, till the end of Aprill or May begun at the season requirde. Then taking away lumps of seedes as they growe earth and all (after the bed watered that the earth may cleave fast to the seedes) in holes among grass 5 foot in square (not shadowed too mure) plant from, & with grass or weeds cover till May be past, watering from in

the morning only. May ended water from morn & even. When the sowing will not be upon from that the seed may be good. When purple from full of barley & set from in a reasonable warme place till the barley be sown & withered, so fall so have your good seed. The like is to be done for muske melons.

- 6 Lombard lettuce may be sown over hand of the moon from January to September, & in September none set to stand all winter 1 foot in hand. And being drawn off is or is bought & set to decay so will serve all winter till winter ends.
- 7 Radishes sown from Febr. till St. Marke Mass (Apr. 25) & the damaske rose be blown, some also after, for eggs the sowing the Radish & took to the rose, so may you have radishes & Turneps all the yeere.
- 8 Turneps set from not be sown till damaske roses be blown for feare of the frost, & let it be very tyme. Let two spoonfull of seed to a quart of dust or a peck, as you sown round.

the earth

Arte of Graffing.

1. For Graffing Whipstocke-wise. Prepare the best
 grafted / A very sharpe knife / ribben quill of an
 ewe / a fialls long / a bottom of gray or browne speck
 & a little yellowe or red waxe. This preparation
 made among all the ympos grafted or ront looks out
 of equal big not to the stocke & having laid the two
 best & evenest parte of it & your stocks together, with
 your knife cutt them both about a mize long slopewise
 a the stocks cut upward from the greater
 or lower parte / b the ympos cut downward from the les-
 ser or upper parte / & c the y parts thus cutt must be
 joined or bound together the one being let into the other as
 followeth. With a penknife very sharpe $\frac{1}{2}$ of the parte
 of the cut of the stocke downward & $\frac{1}{3}$ of the cut parte
 of the ympos upward (the bark of both preserved rare
 fully) wthout breaking off from the need of either
 must be when they are down & upward at the one may be
 let into the other, to be the more safe from falling asun-
 der. ~~At~~ from the stocke under the nether pricks
 the knife must cut the stocke a to the outer pricks the
 of / c from the hanging shoke of the under the outer pricks
 of b the ympos wthout the edge of the knife must first be
 cut to beginne the clefte, the clefte must be made to the
 nether pricks the whole / then must the y beginnning of the
 clefte or vntil be set one to another & thrust in into a
 nether so at the top of the ympos & the stocks may meet
 one with another / then must the quill be wiben on the one side
 be opened & put about the newe grafted place & bound
 very just yet not over hard with a thread, & little knots
 of pliable waxe closed about the ends to keep out airc
 & water. ~~100~~ The best grafted be good
 on the left side of young trees at the end of the principall
 boughes with eies or buddes nigh together / the greater
 & fairest / handfull under the joint cut off,

2. To Grafte in the Cleft. Prepare for every head y (or
 if they be big heads in ympos / clay well tempered &
 putted from stone / mofse, or ground gale. Head of it /
 barkes of fallowes or water elms, or a y bnd.
 made of flaxe-bundles / a small sawe to sawe the stocks
 in under / a strong knife or the pill to cleave the stocks nigh

it is sawen & to pare the ragged of from the
sawen top. & a small Taper yonkne to ruthe
ye ympos ouen & cleane withall / a small mallet
& a small wedg of wood or iron to hold open the
bark being cleane & pared till the ympos graffes
or now be on eye / so set in / let wild storkes be
well rooted / yowen or two ere you graffe them.
Graffes or ympos may be kept from the Camts
nigh the leaved be fallen to grafting time, if
they be well covered in earth & a foot deep be
fere they budde / The Healeme chery pearce wardens
be first grafted in Jan. or Febr. The Medullers in Feb.
& Mar. Apples & Plummes in Mar. & Aprill / Some
valley all wgen theye trees begin to bud or spring
Arist ruthe all the sprigges of ye storkes away fro
under the place to be sawen, then sawe ye storkes in
pindre wth raze that the upper part tarry not
in falling downe / the nether part cutt off barke wth
it. sawe in the clearest place most free from knots
dresse the top of ruthe your ympos, then cutt the barke
& roudie. Then cleane your storkes & if need be
pare the top smock wth the knife pulled out &
knots in your wedg / As you see your rloffe is
small or greates, so fitte your ympos wth your
yonkne rutting from on eye side & if the barke
of ye storkes was not ouen ruthe the barke first for
ye ympos on boty sides & set it in so ouen as that
the partition of the wood & barke of ye ympos may
on boty sides stand no further out nor in, then the
partition of the wood & barke of ye storkes. In yea
tor storkes wgen you sawe the nipping ouer-
mure of ye ympos set open ye rloffe wth a green
wooden wedg, & break it of, leauing the point ende
still sticking in / then boty, or more ympos being set in
roun the rloffe on the top wth a pistle of the under
bark of the part sawen of made fitte to lie between
the ympos wth ye knife & at eye ends staying againe
the barke followe or cleane smock about & not ouer gird
then lay clay about & about ye storkes the thirdest part
a finger & so lowe as an mure under the lowest part
cleane, & reuer the same after an tyme & at part

with mosse & bind it & some Tapered little sticks set right
up right from the ympos end to keepe the barke from
lifting on from about & about / So God grant a plenty.
A better graffe I say but wgen rattlel well of the soils.
If the graffes be litten, graffe the same storkes litten the next
grafting time. If ye ympos be for & be full of barke
it is good to pull them of, let the wide break from out
wgen theye ouen take suffer no ympos or part to growe
under on the storkes theye be will sucken. Storkes of the
yeer bignes may be grafted wth 1 ympos 1 foot or half
feet from the ground / of a good stiffe bignes wth 1 ympos
& 1 foot or more up. / of some bignes wth 1 ympos in
the rloffe & 1 in the bark or sap between from on the
vnterior side / of any greater bignes wth 3 ympos
in a rloffe the best or best all together in the sap between
the bark & the tree / wgen is the best kind following.

3 Grafting in the bark or sap is of greates trees or
boughs of some bignes or bigger from the end of Febr.
to the end of Aprill. To prepare ympos before they
be cutt out, lay them in the earth 4. 5. 6. or 7 for enge
lead to be grafted clay, mosse or as before a thong
sawe, take good of the best of the barke a bigger knife to
pare a lesser Taper knife to rut the ympos on one side
wth a shoulder about. / no the side it need full / & sawe
the storkes in sundre best figer or figger. Cut ye
ympos wth a shoulder at the joint & downward an
mure all on one side, flaped downward as a lamen
tet of iron. Pare the top of the storkes read smooth
then wth a knife first & then wth a pinke rut some
what like to ye ympos, open the bark from the tree
as deep as the mure of ye ympos, & put the ympos
in the place the wgen you first pulled it out
& do so for all ye ympos round about ye storkes from
rouer all the read top & sides about (an mure downe
under ye ympos) with well tempered clay if finger
thick & mosse about it. Ande it well / set up small
storkes or boughs to preserve it from wind & wnde &
the lightning & injury of fowles.

4 Grafting on the shield or stocken is a transport
ing of a bud from one tree & binding it to another
called Abducellum. It is done in June or July. The best
time is holden to be a fortnight afore or after Whit
sommer wgen the trees be full leaved. (23v)

Roses.

Provence rose

Cherries

this way the white & red roses may be grafted on the damask rose stocks & so the best may be had 3 or 4 sundry sorts of roses. The greates Provence Rose is by grafting one damask rose upon another made wondrous great & faire. Cherries also & other fruits are by this grafting made very faire. To be in a newe rion or tooke of this yeere the pumpinallest onlet or bud, of any tooke but one. But with a bowe & parpe knife, the length of a barley corne both above & below the bud, round about the bouge or tooke & with the point of the knife so broad with the scorne on each side (if you will broader in the top & narrower beneath that it may be like an arrowpen or shield agreeing to the name) Then raise the bark & bud from the wood. Make round before the place where you are to inoculate (which must be in a stock as big as y^e little finger & not above the bignesse of your arme) in some part thereof that hath the smoothest & finest skin or bark, but or flittie downe with the point of y^e knife, a little longer then the shield thereon to be grafted, & at the top of the cut like a T with the edge of the knife, cut it so churly want a little broader then the top of y^e shield. Then taking a flap or slit of eight plies of y^e stock, take y^e shield raise it quite off, & put it thereon & binde downe both the flap & the slit upon it, so as little or nothing of the shield, but the bud or oylet may appeere. Then binde it so with compe or some strong binding that nothing but the oylet may be seen. On the bouge you may thus inoculate. Let the binding remaine one month or 6 weekes, after which tyme you may cut the binding & so let it be till May or Aprill next. When you see the shield put forth 3 or 4 fingers breadth above it round. The next Mar. cut all off by the shield before lest you hinder the growthe.

Cherries common of the garden be the four yeere & do grow well of stock but better of the small none that come from the great roots transplanted being young small & tender of 2 yeeres growth & swarded or swarded. To save greates yeere you may graft the greates upon the former stocks. For the best of the best will be but will plants to graft on the best cherries graft on the wild Comins (another kind of great cherry) & also on the Crabstocke. The long yeere, called Guinies on the four garden yeere & one yeere on another. The all stone fruits would be set in cold ground & also in gilly & gilly places dry & in the shade, but alwaies in good earth, removed in November & January. If the trees rotte make with a big power an hole in the mid-bree in 4 or 5 feet up that the summer may issue, & before the spring stop it up with the owne wood. So for other trees. The greates may be kept frost (at from the trees) one yeere by cutting off the stalkes & laying them in a well loaded pot filled with straw & good fine straw, & the pot stopped close from the air & entering in, set in sand all about & under it in some fayre cellar. Thus may peaches & other fruits be kept also.

Damson trees be well set & growe off the springe or rion that growe at the greates trees roots & may be small trees, as other plummes also.

Date-stones to growe must be sowed 1 month in March before, then set in some sandy ground in fatts earth 4 fingers deep with the small end upward. Water y^e water so springely till y^e be growne. Egypt water 1000 after.

Fill-birds do well growe & prove good of the small wanded growing out of the roots (with young things) of 2 or 3 yeeres growth set in good earth. If they be not cut off by the earth, & other will growe from the roots.

Figtrees will come of rion from the roots 2 or 3 yeeres old planted in fatts earth in summer or grafted on a figtree party above or some other, & so on the stock & be ane. If it bee bushy an hole growe. To make y^e beard dig about the roots, take out earth & put privy dung mingled with fat earth. Annot for

rootes wth pigeons dung mingled wth oile & lea-
ten pepper. Also couerly & tinned in a peece in
some countres. The blowest fig is best. They be
dried in the sunne, laid in a vessel wth fine meale
betwixt.

Frost not to hurt apples & fruits 155. To pre-
uent the hurt of frost in leaues & blossoms & the
fruit of Waterpillers. Make a sheete on the nom-
bre side of y^e orchard wth hay straw drie oxdung
sawdust, tanners ouse dried Galban & old shoes thatch
hane or some of these mixed.

Gumme of any tree is thus gotten. Dribe in a great
naile & let it sticke wth you shall export gum.

Medlers or Medspilles graffe on the medler wth a
thorne & quince stocks.

Mulberry tree fruite is first lowe then sweet is first
by dewe & raine, like the stalks curty & dung. plant
from mid Febr. to mid March. As it becometh
dried cut off every 6. y. prunes off the ending y^eer.

Nuttres are better to be planted then removed.
Chopps them in milke & water till they sink. The
shells must be dried & then set in good earth 4.
fingers deep, the small end upward. They
beginning to come up 3 or 4 in an y^ere to
gether, labe the fairest to growe. To keep
them long put them in drie sand in a pottle or o-
therwise. cloe covered you may set it in y^e ground.

Peach trees cut green wth you & die. Cut the small
branches hard by the bodie. The wthered things
must be cut hard by the stock. If they growe not
wth rootes & branches wth wine but mingled
wth water. Graffe pearse on the peach hassill
as the cherry tree. All trees are ridde of
the canker, mingling albe 2 kindes of wine. 1st of
1 kind of wine you & so is sprinkling both leaues
boughes & bodie.

Peares be long kept in a barrill studded from drie oyle
wth salt, pepper & cloe. set it so that the salt be not moist.
The trees. Set the Dme apples against the fire untill
they open, then take out the stones & set them in good
earth. They be not mortulated.

Dismares Ants or Emmets are kept from trees by lay-
ing running foot about the rootes. & for oken sawdust
about the rootes belonke wth tarre, birdlime, woolle &c.

Earewigs are destroyed by setting ^{upward} upward all
night the toe of an oild shoe stuffed wth newe fax
luggly. In the morning you shall find them abundantly.

Plummes are set off from the rootes or from the butt
of the rone or spoked coming out of the rootes. you may
graft on other plummetrees. If the plummetrees growe
not, powder upon the rootes wth wine drage mixt
wth water & thus wine so mixed. To keep plummes
long. Cut the ripe, lay them in the sunne to drie. then
order them on some lath or saw like & drie them in an
oven after they be drie out. keep them in glasses.

From the time for trees is March & April. But also to
the body or bought. waite not the bark by the fall of the bough
when you cutte. Saw underneath first, then cut the up-
per side. sooty all & drabe on the ending.

Quince apples graffe on knottis crabstockes. on apple
stockes they will stand as ranked.

Quinces graffe on crabstockes or jaw-borne. so becometh.

Raisins or Grapes are best good; your land in drie sand
or put in a close glass.

Servise trees set them off from the bodie in the bodie. or of
rootes in the rootes. the plant from when at buy at a
walking staffe.

Syder & Perry be made of Peares & Apples, at verjuice
of drabe. Cut the ripe & drie, set them in a vessel
the after stamping & tun them into wine in a vessel
to keep it longer & to make it stronger. Jam downe in
a vessel by a lath a bag of cloues mace. mace ginger.

Sickness of trees. Cut off the gall that eateth. & to
be the place wth binding or dough. dung. tid it veros.
Snails be kept away by setting unslitt lime & assest about y^e rootes.

leech after

Times be set off cuttings in January 2 together, one
way the oild wood the oger without 1 foot long just
together & cut like a foales foot, set a litle steepwise
more from yalk way in the earth (wring if it be mo-
re wing oild larks a yoe is excellent g). In the second
& third yere if they be well rooted you may remove
them & set from 1 foot deepe. wood from. The third
yere in Summer the grasse being cut break off
the top 1 or 2 joints after the grasse so will it be the
greater. you may grasse 1 row on another row
using the stocks & at the staff 163. 2 / your stock
being well taken the joints jointed into are to be
used for plants & imps. In cutting the row after
the first mat tute alwaies mid between two joints (not
in the frost) leave the branches very thin & none about
2 or 3 inches at any principall branch. If you cut
not before March the time will bleed & drop.

Walnut-trees come of wall-nuts set in the sunne &
in good earth. Set the fairest & best nuttes you
can get. Wall-nut stoffe & green may be so-
ket 1 yore by pommice or pulve in the pommice left
after pressing out all verjuice / laid in the bottoms of
charrell & walnuts oide from 1 layer of wallnuts & 1
of pommice / the pommice aloft & below / stop close & set in
a cellar or oger place.

Wormes best tasted in the morning, by dropping 3 or 4
drops of oild 1 after another into the nose the steepe
or ill taste of the nose is there be any.

Wormes

Amise-seed blown about the trees & roots of wormes.



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