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OHIO STATE FARM SCIENCE REVIEW 1972
HORTICULTURAL PLOTS

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Horticultural Crops

One of man's earliest known professions is horticulture. The word was derived from two Latin words meaning to cultivate gardens. Today horticulture embodies both art and science in producing, handling, processing and utilizing fruits, vegetables, flowers and ornamental plants.

In addition to the professional horticulturist, many people have realized satisfaction from working with plants as a leisure time activity. Horticulture ranks as one of man's most fascinating and rewarding hobbies.

Horticulture's contribution to the environment is becoming more prominent. The role of plants in enriching and beautifying our surroundings is increasing.

The Department of Horticulture at the Ohio State University and the Ohio Agricultural Research and Development Center works with the various segments of the horticultural industry throughout the Ohio. A basic goal of the department is to serve the people of Ohio. As one means of accomplishing this goal the demonstration plots described on the following pages have been developed.

Consult the map for specific plots you may wish to visit. You will find a key included with the demonstration descriptions on the following pages. The key is to the right of the LOCATION with cross-hatching indicating the plot being described.
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LOCATION - Range 1 - Block A
TITLE - Herb Garden
PERSONNEL - Dr. E. K. Alban, Professor
Dr. W. L. George, Associate Professor
Gerald Myers, Horticulture Farm Superintendent
DETAILS - This particular plot was established in 1969 to illustrate the
many kinds of herbs and species which are used throughout the world for
cooking, flavoring and medicines. All of the 80 some varieties present
are adapted to Ohio's climate. The main types located at this site
include:
Mustard
Coriander
Chicory (San Pasquale)
Dill
Fennel
Egyptian Onions
Chives
Basil
Sage
Larkspur
Thyme
Wormwood
Mints
Castor Beans
Foxglove (Digitalis)
Betony

LOCATION - Range 2 - Block A
TITLE - Vegetable Garden
PERSONNEL - Dr. E. K. Alban, Professor
Dr. W. L. George, Associate Professor
Gerald Myers, Horticulture Farm Superintendent
DETAILS - This is one of two plots planted each year to show Review
visitors the many varieties of vegetables which are adaptable to
early summer plantings. This plot was planted June 27, 1972. Also
illustrated in these plots are different weed control herbicides and
mulches. Plants are as follows:
WEST to EAST
TOMATOES (1# Treflan Incorporated 2" deep)
1. South Burpee Big Boy
   North Burpee Big Early
2. S. Caravelle
   N. Jetstar
3. S. Fantastic
   N. Heinz 1439
4. S. Supersonic
   N. Wonder Boy
5. S. Beefeater
   N. Burpee Delicious
6. S. September Dawn
   N. Springset
7. S. Spring Giant Hybrid
   N. Super Red
8. S. Burpee VF
   N. Ball Better Boy
9. S. Market King Hybrid
   N. Ramapo
10. S. Heinz 1350
   N. Campbell 1327
11. S. Moreton Hybrid
    N. Royal Ace
12. S. Super Beefsteak
    N. Sunset
13. S. Grand Prix VF
    N. Jim Dandy
14. S. Marglobe
    N. Rutgers
15. S. Cardinal Hybrid
    N. Golden Hybrid

PEPPERS (Herbicide same as above)

16. South  Yolo Wonder B
        Middle  Yolo Wonder L
          North  California Wonder
17. S. Sweet Banana
    M. Keystone Resistant Giant
        N. Keystone Resistant Giant No. 3
18. S. Titan
    M. Yolo Wonder A
        N. Sweet Banana
19. S. Delaware Belle
    M. Hungarian Wax
        N. Staddons Select
20. S. Canape
    M. Golden California Wonder
        N. Tasty Hybrid
21. S. Miss Belle
    M. Midway
        N. Pennbell
22. S. Pimento Sunnybrook
    M. Red Cherry Sweet
        N. Perfection Pimento
CABBAGE (Herbicide same as above)

23. South Market Topper
   North Superette
24. S. Little Rock
   N. Market Prize
25. S. Early Marvel
   N. Market Victor 284
26. S. Stonehead Y.R.
   N. Special Golden Acre
27. S. Golden Acre 84
   N. Meteor (Red)
28. S. Baby Head
   N. Head Start
29. S. Stonehead
   N. Banner
30. S. Market Prize
   N. Hybrid 0
31. S. Golden Acre Y.R.
   N. King Cole
32. S. Regina
   N. Pacesetter
33. S. Copenhagen Y.R.
   N. Badger Ballhead
34. S. Roundup
   N. Hybrid W.

CAULIFLOWER (Herbicide same as above)

35. S. Early Purple Head
    N. Royal Purple
36. S. Imperial 10-6
    N. Snow Ball
37. S. Igloo
    N. Snow Drift

BRUSSEL SPROUTS (Herbicide same as above)

38. S. Jade Cross
    N. Early Morn
39. S. Green Pearl
    N. Indra

EGG PLANT (Herbicide same as above)

40. S. Black Magic
    N. Black Oval
41. S. Jersey King
    N. 465 Classic
BROCCOLI (Herbicide same as above)
42. S. Green Comet  
   N. Waltham 29

COLLARDS (Herbicide same as above)
43. S. Vates  
   N. Georgia Southern Curled

KOHL RABI (Herbicide same as above)
44. Purple Vienna  
45. Early White Vienna

GREEN BEANS (8 lbs. Dacthal/A pre-emergence)
46. Brittle Wax  
47. Wondergreen 492  
48. Greenpod 467  
49. Royalty Purple Pod  
50. Cascade  
51. Sunbeam  
52. Black Valentine  
53. Early Gallatin  
54. Tendercrop  
55. Romano 14  
56. Avalanche

LIMA BEAN (Herbicide same as above)
57. Fordhook US 242  
58. Fordhook US 242

LETTUCE (no Herbicide)
59. Butter King  
60. Summer Bibb  
61. Bibb  
62. Buttercrunch  
63. Ruby  
64. Oak Leaf  
65. Prizehead  
66. Great Lake Standard  
67. Stokes Evergreen  
68. Fulton  
69. Minilake  
70. Dark Green Boston
LOCATION - Range 3 - Block A
TLE - Vegetable Garden
PERSONNEL - Dr. E. K. Alban, Professor
Dr. W. L. George, Associate Professor
Gerald Myers, Horticulture Farm Superintendent

DETAILS - This is one of two plots planted each year to show Review
visitors the many varieties of vegetables which are adaptable to
ey early summer plantings. This plot was planted June 27, 1972. Also
illustrated in these plots are different weed control herbicides and
mulches. Plants are as follows:

WEST to EAST

SUMMER SQUASH

1. Early Prolific Straightneck (2 lbs./A Amiben pre-emergence)
2. Apollo
3. Vegetable Spaghetti
4. Mexican Banana
5. St. Pat Green Bush Scallop
6. Cocozelle
7. Seneca Prolific Hybrid
8. Royal Acorn
9. Buttercup
10. Zucchini
11. Caserta
12. Butternut
13. Gold Nugget
14. Table Queen Ebony Strain
15. Yellow Zucchini

WINTER SQUASH (Herbicide same as above)

16. Golden Delicious
17. Bush Ebony
18. Kindred
19. Golden Hubbard
20. Improved Warted Hubbard
21. Blue Hubbard
22. Improved Green Hubbard
PUMPKIN (Herbicide same as above)

23. Green Striped Cushaw
24. Connecticut Field
25. White Cushaw
26. Sugar Pie
27. Mammoth Golden Cushaw
28. Spookie
29. Tennessee Sweet Potato
30. Young's Beauty
31. Queen
32. Cinderella

RED BEETS (no Herbicide)

33. Shumway's White
34. Cylindra
35. Ruby Queen
36. Detroit Dark Red
37. Formamova

OKRA (no Herbicide)

38. Clemson Spineless
39. Dwarf Green Long Pod
40. White Velvet
41. Emerald

CARROT (no Herbicide)

42. Gold Pak
43. Hi Color 9
44. Carousel
45. Imperator 58
46. Nates Improved Coreless

TURNIPS (no Herbicide)

47. Golden Ball
48. Snow Ball
49. Tokyo Market
50. Golden Goble

CUCUMBERS (Pickles) (1 1/2#/A Methyl Ester Amiben pre-emergence)

51. Ranger
52. Bounty
53. Pioneer
54. Premier
55. Frontier
(Slicers)

56. Nappa 63  
57. Gemini  
58. Lemon  
59. Snake  
60. China  
61. Burr  
62. Japanese Long  
63. Burpless Hybrid  
64. Marketmore

LOCATION - Range 4 - Block A

TITLE - Dwarf Tree Fruits

PERSONNEL - Dr. Fred Hartman, Professor

DETAILS - This demonstration was begun in 1963 to illustrate the use of dwarf apple trees for the home gardener. Apples here are on two different rootstocks -- Malling IX and VII. Malling IX rootstock results in a tree of 6 to 8 feet high. Malling VII gives a tree about half the size of a standard apple tree. Some of the smallest trees present in this planting have yielded two to three bushels of apples per year. Cultivars include Delicious, Chelan Red, Starking, Richared, Golden Delicious, Gallia Beauty, Red Rome, Azwell, Jonathan, Melrose, Franklin, Ruby, Starkrimson and Holiday. Approximately 10 applications of spray material are made per year to control insects and diseases.

LOCATION - Range 4 - Block A

TITLE - Shrubs for Fall Foliage, Fruit, or Twig Color

PERSONNEL - Dr. Kenneth Reisch, Professor

DETAILS - This demonstration plot was established in 1964 to illustrate the different ornamentals available to Ohio gardeners which are characterized by fall color of their leaf, twig or fruit.

WEST to EAST

"Siberian Dogwood" - Cornus - red stems
"Kelsey Redosier Dogwood" - Cornus - red stems
"Redosier Dogwood" - Cornus - red stems
"Compact Winged Euonymus" - Euonymus - red color, fruit
"Golden Pfitzer Juniper" - Juniperus - yellow foliage
"Gray Dogwood" - Cornus - gray stems
"Golden Pfitzer Juniper" - Juniperus - yellow foliage
"Purpleleaf Plum" - Prunus - purple leaves
"Oakleaf Hydrangea" - Hydrangea - white flowers, red leaves
"Variegated Redosier Dogwood" - Cornus - variegated leaves, red stems
"Northern Bayberry" - Myrica - gray fruit
"Golden Ninebark" - Physocarpus - yellow leaves
"Winged Euonymus" - Euonymus - red fruit, color
"Spreading Cotoneaster" - Cotoneaster - red fruit
"Fragrant Sumac" - Rhus - red color
"Glossy Buckthorn" - Rhamnus - black fruit
"Sea Buckthorn" - Hippophae - silver leaves, orange fruit
"Tallhedge Glossy Buckthorn" - Rhamnus - black fruit
"Redleaf Barberry" - Berberis - red foliage
"Glossy Abelia" - Abelia - fall flowers
"Amur Honeysuckle" - Lonicera - red fruit
"Winterberry" - Ilex - red fruit
"Ibolium Privet" - Ligustrum - black fruit

LOCATION - Range 5 - Block A

TITLE - Annual Flowers For Ohio Gardens

PERSONNEL - James L. Caldwell, Professor

DETAILS - This demonstration plot contain some of the newest cultivars of petunias and some of the better older cultivars of petunias which are available to the home gardener. The seed used in growing these plants was graciously donated by the Michell Seed Company and George J. Ball Company.

WEST to EAST

Royal Cascade
Coralglo
Malibu
Black Magic
Hawaii
Bravo
Alaska
Red Baron
White Cascade
Ballerina
Red Cascade
Orange Bells
Scarlet #54
Sky Magic
Comanche B
Sugar Daddy
Paleface
Polar Cap
Snow Magic
Cherry Tart
Dancing Lady
Circus
Chiffon Cascade
Coral Cascade
Coral Magic
Parti Pink
Rose Joy Improved
Coral Bells
White Joy
Sunburst
White Magic
Salmon Coronet
White Ensign
Polar Cap
Fantasy
Astro
Red Cloud
Star Joy
Razzle Dazzle
Hawaii
Circus
Rose Magic
Pink Joy
Lavendar Delight
White Delight
Burgundy
Telstar
Appleblossom
Blue Magic
Meteor Improved
Sugar Daddy
Razzle Dazzle
Dancing Lady
Calypso
Cherry Tart
Rose Joy Improved
Paleface
Polar Cap
Coralglo
Malibu
Alaska
Bravo
LOCATION - Range 5 - Block A

TITLE - Shrubs for Fall Foliage, Fruit, or Twig Color

PERSONNEL - Dr. Kenneth Reisch, Professor

DETAILS - This demonstration plot was established in 1964 to illustrate the different ornamentals available to Ohio gardeners which are characterized by fall color of their leaf, twig or fruit.

WEST to EAST

"European Cranberrybush" - Viburnum - red fruit
"Laland Firethorn" - Pyracantha - orange fruit
"American Cranberrybush" - Viburnum - red fruit
"Linden Viburnum" - Viburnum - red fruit
"Glossy Abelia" - Abelia - fall flowers
"Kasan Firethorn" - Pyracantha - orange fruit
"Laland Firethorn" - Pyracantha - orange fruit
"Wayfaringtree Viburnum" - Viburnum - red and black fruit
"Blue Pfitzer Juniper" - Juniperus - blue leaves

EAST to WEST

"Laland Firethorn" - Pyracantha - orange fruit
"Arrowwood Viburnum" - Viburnum - blue fruit
"Peking Cotoneaster" - Cotoneaster - black fruit, orange fall color
"Adamsneedle Yucca" - Yucca - gray leaves
"Cherryberry Cotoneaster" - Cotoneaster - red fruit, gray leaves
"Rockspray Cotoneaster" - Cotoneaster - red fruit
"Early Cotoneaster" - Cotoneaster - red fruit
"Cranberry Cotoneaster" - Cotoneaster - red fruit
"Spreading Cotoneaster" - Cotoneaster - red fruit

LOCATION - Range 4 - Block B

TITLE - Grapes, Dwarf Apples and Pears

PERSONNEL - Dr. Fred Hartman, Professor

DETAILS - This plot was planted in 1965 to demonstrate the different fruits and Ohio-originated apples adapted to Ohio's climate.

WEST to EAST

1. Espaliered Apple Trees - This is an example of how proper training can develop a plant into almost any form the pruner wishes it to take.
2. Pear Trees - These dwarf pear trees include Bartlett and Anjou on Quince rootstock.

3. Grapes - cultivars:
   (a) Himrod - white, seedless
   (b) Alden - black, early
   (c) Steuben - blue-black, good vigor
   (d) Golden Muscat - greenish-yellow, late
   (e) Vidal 256 - white, late, wine
   (f) Buffalo - black, early
   (g) Concord - blue, standard variety
   (h) Delaware - red, wine
   (i) Yates - red, large
   (j) Catawba - red, wine
   (k) Seibel 9110 - yellow, mid-season
   (l) Seibel 10878 - black, mid-season, wine

4. Dwarf Apples - These apples all originated at the Ohio Agricultural Research and Development Center in Wooster. They include Franklin, Ruby, Melrose and Holiday. All of the fruit was sprayed approximately ten times throughout the year to prevent disease and insect damage.

LOCATION - Range 5 - Block B

TITLE - Hedges and Screen Plantings, Espalier Plantings

PERSONNEL - Dr. Kenneth Reisch, Professor

DETAILS - This plot was established in 1964 to illustrate different plants available to Ohio gardeners to use as screens and hedges. The espalier plantings illustrate the results of proper pruning to establish flat screens or to cover walls.

SOUTH - HEDGES
(WEST to EAST)

"Washington Hawthorn" - Crataegus - dense, high screen
"Cornelian Cherry Dogwood" - Cornus - hedge or screen
"Tallhedge Buckthorn" - Rhamnus - hedge or narrow screen
"Blackhaw Viburnum" - Viburnum - hedge or screen
"Flowering Quince" - Chaenomeles - flowering hedge
"Winged Euonymus" - Euonymus - hedge
"Spreading Cotoneaster - Cotoneaster - fine texture hedge
"Amur Privet" - Ligustrum - low hedge or high screen
"Laland Firethorn" - Pyracantha - hedge
"Bigleaf Wintercreeper" - Euonymus - low evergreen hedge
"Brown Anglojap Yew" - Taxus - formal evergreen hedge
"Keteleer Chinese Juniper" - Juniperus - narrow evergreen screen
"Sarcoxie Wintercreeper" - Euonymus - evergreen hedge

NORTH - ESPALIER PLANTINGS
(WEST to EAST)

"Lavalle Hawthorn" - Crataegus - red fruit
"Snowdrift Crabapple" - Malus - white flowers
"Littleleaf Lilac" - Syringa - showy flowers
"Blackhaw Viburnum" - Viburnum - seasonal effects
"Winter Honeysuckle" - Lonicera - good foliage
"Winged Euonymus" - Euonymus - red fall color
"Cranberry Cotoneaster" - Cotoneaster - red fruit, dwarf
"Laland Firethorn" - Pyracantha - orange fruit
"Border Forsythia" - Forsythia - yellow flowers
"Purpleleaf Plum" - Prunus - purple leaves
"Blue Pfitzer Juniper" - Juniperus - blue evergreen foliage
"Laland Firethorn" - Pyracantha - orange fruit

LOCATION - Range - Block C - NORTH

TITLE - Annual Flowers for Ohio Gardens

PERSONNEL - Dr. James L. Caldwell - Professor

DETAILS - This demonstration plot contains some of the newest cultivars of annual flowers as well as some of the better older cultivars which are available to the home gardener. The seed used in growing these plants are graciously donated by the Michell Seed Company and George J. Ball Company.

WEST to EAST

Zinnias

Cherry Button
Carved Ivory
Fruit Bowl Mixtures
Red Buttons
Wild Cherry
Peter Pan Pink
Peter Pan Plum
Pink Buttons
Pin Wheel
Marigolds
Gold Galore
Matadore
Gypsy Dancer
Double Eagle
Golden Age
Paprika
Signata Pumila Paprika

Calendula
Orange Coronet
Orange King

Aster
Branching Ray Aster
Scarlet
Powderpuff Mixture

Alyssum
Tiny Tim

Dianthus
China Doll

Dianthus Heddwiggi Laciniatus

Dimorphoteca Improved Aurantiaca

Gomphrena
Buddy

Dahlia
Early Bird

Zinnia
Mini Salmon

Balsam
Tom Thumb
Double Bush Flowered
Coleus

Jade Parade
Volcano
Curlicue
Giant Exhibition
Giant Exhibition
Giant Exhibition
Red Star
Red Star
Red Star
Giant Exhibition
Velvet Rainbow
Velvet Rainbow
Giant Exhibition
Velvet Rainbow
Velvet Rainbow
Salicifolius - Dwarf Red Shades
Festive Dance
Salicifolius - Dwarf Yellow Shades
Atlas
Atlas
Atlas
Curlicue

Snapdragons

Madam Butterfly
Little Darling
Spring Giant
Golden Rocket
White Rocket
Rocket Mixture
Spring Giant
Spring Giant
Spring Giant
White Rocket
White Rocket
White Rocket
Promenade Yellow
Promenade Yellow
Promenade Yellow

Petunia

Purple Jay
Bridal Bouquet
Delight Mixture
Blue Crown
El Toro
Salmon Bouquet
Starfire
Grenadier
Michell's All Double
Fanfare
Dancing Lady
Sugar Plum
Mariner
Color Parade
Red Jay

LOCATION - Range 5 - Block C - SOUTH

TITLE - *Annual Flowers for Ohio Gardens*

PERSONNEL - Dr. James L. Caldwell - Professor

DETAILS - This demonstration plot contains some of the newest cultivars of annual flowers as well as some of the better older cultivars which are available to the home gardener. The seed used in growing these plants was graciously donated by the Michell Seed Company and George J. Ball Company.

WEST to EAST

Marigold

Paprika
Paprika
Paprika
Paprika
Dimorphoteca Improved Aurantiaca
Dianthus Heddewiggi Laciniatus

Verbena

Michell's Exhibition Mixture

Stock

Trysomic 7 week - Red
Trysomic 7 week - White

Phlox

Michell's Radiant Mixture
Nemesia
  Triumph

Verbena compacta
  Olympia

Verbena hybridica
  Madame Du Barry

Verbena
  Michell's Dwarf Mixture

Salvia
  St. Johns Fire #45
  Royal Mountie #32
  Blaze of Fire #53
  Bravissima #2
  Regal Purple
  Flarepath
  Blaze of Fire #56
  Bravissima

Hibiscus
  Southern Belle

Petunia
  Red Cascade

Dahlia
  Early Bird

Impatiens
  Melody Orange
  Minette
  White
  Orange
  Scarlet
  Crimson
Fuchsia
  Pink
  Rose
  Orange Improved
  A-Go-Go
  Elfin Orchid

Ageratum
  Blazer
  North Sea

Zinnia
  Mini Salmon
  Peter Pan Pink
  Red Buttons

Lobelia
  Blue Stone
  Crystal Palace

Vinca Rosea
  Little Mixture

Arctatis
  Large Flowered Hybrids

Cineraria
  Silver Dust

Vinca Rosea
  Little Delicata
  Little Blanche

Snapdragon
  Promenade Breeze
  Promenade White
  Promenade Yellow
  Bronze Rocket
  Bright Butterfly
  White Rocket
  Gold Rocket
Verbena
  Olympia

Petunias
  Dancing Lady
  Scarlet Magic
  Circus
  Red Cloud
  Pink Cascade
  Pink Magic
  Pink Snow
  Red Ensign
  Velvet Queen
  Polynesia
  Salmon Delight
  Red and White Delight
  Sonata
  Duet
  Blue Danube
  Flamboyant
  Matador
  Delight Mixture
  Joy Mixture
  Orchid Bouquet
  Snowberry Tart
  Peach Tart
  Sky Cascade
  Fandango
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