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GREAT SMOKY MOUNTAINS NATIONAL PARK

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FRUITS ATTRACTIVE TO BIRDS - SOUTHEASTERN STATES REGION No. 9

[Arkansas, Tennessee, North Carolina, Louisiana, Mississippi, Alabama, Georgia, and South Carolina.]

By W. L. McATEE, Principal Biologist and Technical Adviser Office of the Chief

Contents

g e	age
Regions for which leaflets on fruits attractive to birds are available	_
Introduction	3
Table 1 Groups of fleshy fruits most attractive to birds throughout the United States	4
Table 2.— Generally distributed native fruits of the Southeastern States for which satisfactory data on fruiting seasons are available.	. 8
Table 3 Extralimital fruits that have been recommended for Mississippi	10
Li terature	12

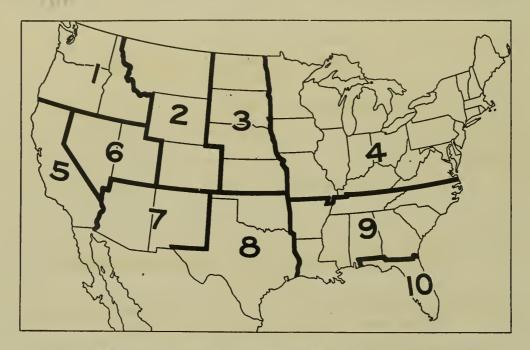


FIGURE 1.--Map of the United States, showing the 10 regions used in presenting information on fruits attractive to birds.

As an aid in requesting leaflets, it should be noted that No. BS-41 is for region 1; RS-42, for region 2, etc., with RS-50 for region 10.

INTRODUCTION

The Southeastern States, as here restricted, have a flora distinctly justifying their treatment as a separate region. As in cases of other districts, however, there is overlapping of plant distributions on all margins. Persons living near the borders can take advantage of recommendations made for the neighboring region as well as for their own. In the Southeastern States the southern Appalachian highlands also require special treatment; here plants recommended for the northeastern region, particularly for the southern portion thereof, may well be used. See B.S. Leaflet No. 44.

The immediate vicinity of the Atlantic Coast in this region presents conditions suitable for plants that thrive in northern Florida. Names of those plants may be found in B.S. Leaflet No. 50.

Table 1 shows groups of fleshy fruits most attractive to birds throughout the United States and lists desirable kinds of birds most fond of the fruit. No barberries, currants, or buckthorns are listed, because they harbor rusts destructive to plants of economic importance. Junipers are in almost the same category, as they serve as alternate hosts for apple rust, but there is no reason why they cannot be used in districts where apples are not commercially grown, as they are among the most valuable plants for wildlife. Omitted also are plants poisonous to man on contact, as poison ivy and poison sumac, as well as various kinds dangerously poisonous to domestic animals, as yews, wild cherries, and nightshades, in spite of the fact that wild cherries are greatly relished by birds. Browsing animals are known to have been killed by feeding on the leaves of wild cherries but do not seem to be so seriously affected by those of plums. Certain plants included among fleshy. fruit bearers in previous publications have been transferred to the list of seed producers, hence do not appear in the present series of leaflets. These include magnolia (Magnolia), bittersweet (Celastrus), and burningbush (Euonymus).

It should be noted that the fruit-bearing seasons recorded, being collected from varied sources, tend to be maxima. As a rule they are not likely to be realized or even approached in a single locality unless numerous specimens of a given species are present and so distributed in sun and shade as to favor both early and late fruiting.

The word "extralimital" as here used in the heading of table 3 covers plants from other States or regions of the United States as well as wholly introduced, exotic, or foreign plants.

TABLE 1. - Groups of fleshy fruits most attractive to birds throughout the United States

Name of fruit			ecies of birds known to eat the fruit		
Common	Generic	: Num 2/	Desirable kinds most fond of the fruit		
Juniper; redcedar 3/	Juniperus	50	Flicker, mockingbird, robin, eastern bluebird, cedar waxwing, myrtle warbler evening and pine grosbeaks, purple finc		
Greenbrier	Smilax	43	Mockingbird, catbird, brown thrasher, robin, hermit thrush, cardinal.		
Bayberry	Myrica`	85	Bobwhite, flicker, downy woodpecker, eastern phoebe, tree swallow, black- capped chickadee, Carolina wren, cat- bird, brown thrasher, hermit thrush, eastern bluebird, white-eyed vireo, myrtle warbler, meadowlark, towhee.		
Hackberry	Celtis	47	: Flicker, yellow-bellied sapsucker, : mockingbird, brown thrasher, robin, : eastern bluebird, cedar waxwing, : cardinal.		
Mulberry	Morus	59	Yellow-billed cuckoo, red-bellied, red- headed, and downy woodpeckers, eastern kingbird, mockingbird, catbird, robin, wood thrush, cedar waxwing, red-eyed vireo, yellow warbler, orchard and Baltimore orioles, scarlet tanager, cardinal, purple finch.		
Pokeberry	Phytolacca	52	: Mourning dove, flicker, eastern kingbird: mockingbird, catbird, robin, hermit, olive-backed, and gray-cheeked thrushes: eastern bluebird, cardinal.		
Spicebush	Benzoin	: 17	: Eastern kingbird, wood thrush, veery, : red-eyed vireo.		
Sassafras	Sassafras	18	Bobwhite, eastern kingbird, catbird, robin, veery, red-eyed vireo.		
Strawberry	Fragaria	52	: Catbird, brown thrasher, robin, wood : thrush, towhee.		

TABLE 1. - Groups of fleshy fruits most attractive to birds throughout the United States--Continued

Name of fruit Species of birds known to eat the fruit					
Common	Generic	: Num-	Desirable kinds most fond of the fruit		
Raspberry, black- berry	Rubus	: 146 : :	Ruffed grouse, bobwhite, flicker, red- headed woodpecker, eastern kingbird, tufted titmouse, wren tit, mockingbird, catbird, brown thrasher, robin, wood and olive-backed thrushes, eastern bluebird, cedar waxwing, red-eyed vireo, orchard and Baltimore orioles, cardinal, rose- breasted, black-headed, and pine grosbeaks, red-eyed, spurred, and California towhees, white-throated, fox, and song sparrows.		
Rose	: Rosa	38	Ruffed and sharp-tailed grouse, prairie chicken, bobwhite.		
Mountain-ash	Sorbus	: 13	Red-headed woodpecker, catbird, brown thrasher, robin, Bohemian and cedar waxwings, Baltimore oriole, evening and pine grosbeaks.		
Chokeberry	: Aronia	21	: Brown thrasher, meadowlark.		
Hawthorn	: Crataegus	39	Ruffed grouse, robin, purple finch, pine grosbeak.		
Apple	: Malus : :	: 43 : :	: Ruffed grouse, ring-necked pheasant, : mockingbird, robin, cedar waxwing, : purple finch, pine grosbeak, red : crossbill.		
Juneberry	: Amelanchier .	42	Flicker, catbird, robin, hermit thrush, veery, cedar waxwing, Baltimore oriole.		
Sumac ⁴ /	Rhus	97	Ruffed grouse, bobwhite, valley quail, northern and red-shafted flickers, red-bellied and downy woodpeckers, phoebe, black-capped and Carolina chickadees, wren tit, Carolina wren, mockingbird, catbird, brown and California thrashers, robin, hermit thrush, eastern bluebird, white-eyed vireo, towhee, Audubon's warbler, goldfinch, golden-crowned sparrow.		
Pepperberry	Schinus	12	Robin, varied and hermit thrushes, cedar waxwing, phainopepla.		

TABLE 1. - Groups of fleshy fruits most attractive to birds throughout the
United States--Continued

Name of 1	fruit	Spe	ecies of birds known to eat the fruit
Common	Generic	Num-	Desirable kinds most fond of the fruit
Holly	Ilex	4 8	Ruffed grouse, bobwhite, valley quail, flicker, yellow-bellied sapsucker, mockingbird, catbird, brown thrasher, robin, hermit thrush, eastern bluebird, cedar waxwing.
Supplejack	Berchemia	15	Mockingbird, robin.
Grape	Vitis	87	Ruffed grouse, bobwhite, northern and red-shafted flickers, pileated and red-bellied woodpeckers, eastern kingbird, mockingbird, catbird, brown thrasher, robin, wood thrush, veery, eastern and western bluebirds, cedar waxwing, cardinal.
Virginia creeper .	Ampelopsis	38	Flicker, red-bellied and red-headed wood- peckers, yellow-bellied sapsucker, tufted titmouse, mockingbird, brown thrasher, robin, hermit, olive-backed, and gray-cheaked thrushes, eastern blue- bird, red-eyed vireo, scarlet tanager, evening grosbeak, purple finch.
Buffaloberry	Sheph erdia	18	Sharp-tailed grouse, pine grosbeak.
Silverberry, Rus- sian olive, etc.	Elaeagnus	5/	Prairie chicken, sharp-tailed grouse, catbird, robin, cedar waxwing.
Wild-sarsaparilla	Aralia	16	Bobwhite, robin.
Dogwood	Cornus	93	Ruffed grouse, bobwhite, northern and red-shafted flickers, downy woodpecker, eastern kingbird, catbird, brown thrasher, robin, wood, hermit, olive-backed, and gray-cheeked thrushes, eastern bluebird, cedar waxwing, redeyed and warbling vireos, cardinal, evening and pine grosbeaks, purple finch white-throated and song sparrows.
Sourgum, tupelo :	Nyssa	39 :	: Flicker, robin, olive-backed and gray- : cheeked thrushes, cedar waxwing, purple : finch.
Crowberry	Empetrum	40	Pine grosbeak, snow bunting.
Bearberry, manza- nita	: Arctostaphylos	34	: Dusky and ruffed grouse, valley and mountain quail, wren tit, fox sparrow.

TABLE 1. - Groups of fleshy fruits most attractive to birds throughout the United States -- Continued

Name of f	ruit	Spe	ecies of birds known to eat the fruit
Common	Generic	Num-	Desirable kinds most fond of the fruit
Wintergreen	Gaultheria	10	Ruffed grouse, wren tit.
Huckleberry	Gaylussacia .	46	Robin, pine grosbeak, towhee.
Blueberry	Vaccinium	93	Ruffed grouse, valley quail, eastern kingbird, black-capped chickadee, tufted titmouse, catbird, brown thrasher, robin, hermit thrush, eastern bluebird, cedar waxwing, orchard oriole, pine grosbeak, towhee.
Beautyberry	Callicarpa .	11	: Mockingbird, brown thrasher.
Partridgeberry	Mitchella	10	Ruffed grouse.
Elderberry	Sambucus	: : :	Valley quail, flicker, red-headed wood- pecker, eastern and Arkansas kingbirds, black phoebe, wren tit, mockingbird, catbird, brown and California thrashers, robin, olive-backed thrush, eastern and western bluebirds, phainopepla, red- eyed vireo, rose-breasted and black- headed grosbeaks, California towhee, white-crowned sparrow.
Snowberry, coral- berry	Symphoricarpos	33	Sharp-tailed grouse, varied thrush, evening and pine grosbeaks.
Blackhaw, cran- berrybush	Viburnum	35	Ruffed grouse, yellow-billed cuckoo, flicker, catbird, brown thrasher, robin, eastern bluebird, cedar waxwing, rose- breasted grosbeak, purple finch.
Honeysuckle	Lonicera	18	: Bobwhite, catbird, brown thrasher, robin, : hermit thrush, pine grosbeak, white- throated sparrow.

Barberries (Berberis), buckthorns (Rhammus), and currants (Ribes) are omitted because they serve as alternate hosts of rusts, attacking wheat, oats, and white pine, respectively. Yews (Taxus), wild cherries (Prunus), and nightshades (Solanum) also are omitted as being dangerous stock poisoning plants.

^{2/} When 10 or more.

^{3/} Carries apple rust; should not be planted near valuable orchards.

^{4/} Only nonpoisonous species of sumac are considered.

^{5/} Data given are based entirely on field observations; total number of birds eating the various species of Elaeagnus unknown.

TABLE 2. -- Generally distributed native fruits of the Southeastern States for which satisfactory data on fruiting seasons are available

Greenbrier ———————————————————————————————————	Juniperus virginiana Smilax lanceolata Smilax rotundifolia Myrica cerifera Celtis mississippiensis Phytolacca americana Cebatha carolina Sassafras sassafras Rubus cuneifolius Rubus trivialis Rosa humilis Rosa laevigata Aronia arbutifolia Crataegus apiifolia Crataegus viridis Crataegus viridis Prunus umbellata Rhus aromatica Rhus copallina Rhus copallina Ilex verticillata Ilex vomitoria Ilex opaca	All year. Mid-June to mid-May. Early July to late April. All year. Do. Late May to late October. Mid-July to late April. Mid-July to early October. Mid-June to late March. Mid-May to early July. Early April to late May. Early April to late May. Early August to mid-March. Mid-August to late March. Early May to late July. Mid-July to mid-November. Early September to mid-May. Mid-June to mid-October. All year. Mid-July to late December. Mid-July to late April.
Greenbrier Do	Smilax lanceolata Smilax rotundifolia Myrica cerifera Celtis mississippiensis Phytolacca americana Cebatha carolina Sassafras sassafras Benzoin aestivale Rubus cuneifolius Rubus trivialis Rosa humilis Aronia arbutifolia Aronia arbutifolia Crataegus apiifolia Crataegus viridis Crataegus viridis Rhus aromatica Rhus copallina Rhus copallina Ilex decidua Ilex verticillata	Mid-June to mid-May. Early July to late April. All year. Do. Late May to late October. Mid-July to late April. Mid-July to early October. Mid-June to late March. Mid-May to early July. Early April to late May. Early August to mid-March. Mid-August to late March. Early May to late July. Mid-July to mid-November. Early September to mid-May. Mid-June to mid-October. All year. Mid-July to late December. Mid-July to late April.
Southern waxmyrtle Sugarberry Pokeberry Coralbead Sassafras Spicebush Sand blackberry Southern dewberry Pasture rose Cherokee rose Red chokeberry Serviceberry How plum Possumhaw Dossumhaw Inkberry Yaupon Yaupon Summer grape Frost grape Peppervine Peppervine Sourgum Dogwood Pompleberry Sourgum Parkleberry Farkleberry Farkleberry	Myrica cerifera Celtis mississippiensis - Phytolacca americana Cebatha carolina Sassafras sassafras Benzoin aestivale Rubus cuneifolius Rubus trivialis Rosa humilis Aronia arbutifolia Crataegus apiifolia Crataegus apiifolia Crataegus viridis Prunus umbellata Rhus aromatica Rhus copallina Rhus copallina Ilex decidua Ilex verticillata Ilex vomitoria	All year. Do. Late May to late October. Mid-July to late April. Mid-July to early October. Mid-June to late March. Mid-May to early July. Early April to late May. Early June to late October. Early August to mid-March. Mid-August to late July. Mid-July to mid-November. Early September to mid-May. Mid-June to mid-October. All year. Mid-July to late December. Mid-July to late April.
Sugarberry	Celtis mississippiensis - Phytolacca americana Cebatha carolina Sassafras sassafras Benzoin aestivale Rubus cuneifolius Rubus trivialis Rosa humilis Rosa laevigata Aronia arbutifolia Crataegus apiifolia Crataegus viridis Prunus umbellata Rhus aromatica Rhus copallina Ilex decidua Ilex verticillata Ilex vomitoria	All year. Do. Late May to late October. Mid-July to late April. Mid-July to early October. Mid-June to late March. Mid-May to early July. Early April to late May. Early June to late October. Early August to mid-March. Mid-August to late July. Mid-July to mid-November. Early September to mid-May. Mid-June to mid-October. All year. Mid-July to late December. Mid-July to late April.
Sugarberry	Celtis mississippiensis - Phytolacca americana Cebatha carolina Sassafras sassafras Benzoin aestivale Rubus cuneifolius Rubus trivialis Rosa humilis Rosa laevigata Aronia arbutifolia Crataegus apiifolia Crataegus viridis Prunus umbellata Rhus aromatica Rhus copallina Ilex decidua Ilex verticillata Ilex vomitoria	Do. Late May to late October. Mid-July to late April. Mid-July to early October. Mid-June to late March. Mid-May to early July. Early April to late May. Early June to late October. Early August to mid-March. Mid-August to late July. Mid-July to mid-November. Early September to mid-May. Mid-June to mid-October. All year. Mid-September to mid-May. All year. Mid-July to late December. Mid-July to late April.
Pokeberry	Phytolacca americana Cebatha carolina Sassafras sassafras Benzoin aestivale Rubus cuneifolius Rubus trivialis Rosa humilis Rosa laevigata Aronia arbutifolia Crataegus apiifolia Crataegus viridis Prunus umbellata Rhus aromatica Rhus copallina Ilex decidua Ilex yerticillata Ilex verticillata Ilex vomitoria	Mid-July to late April. Mid-July to early October. Mid-June to late March. Mid-May to early July. Early April to late May. Early June to late October. Early August to mid-March. Mid-August to late July. Mid-July to mid-November. Early September to mid-May. Mid-June to mid-October. All year. Mid-September to mid-May. All year. Mid-July to late December. Mid-July to late April.
Coral bead	Cebatha carolina Sassafras sassafras Benzoin aestivale Rubus cuneifolius Rubus trivialis Rosa humilis Rosa laevigata Aronia arbutifolia Crataegus apiifolia Crataegus viridis Prunus umbellata Rhus aromatica Rhus copallina Ilex decidua Ilex verticillata Ilex vomitoria	Mid-July to late April. Mid-July to early October. Mid-June to late March. Mid-May to early July. Early April to late May. Early June to late October. Early August to mid-March. Mid-August to late July. Mid-July to mid-November. Early September to mid-May. Mid-June to mid-October. All year. Mid-September to mid-May. All year. Mid-July to late December. Mid-July to late April.
Sassafras	Sassafras sassafras Benzoin aestivale Rubus cuneifolius Rubus trivialis Rosa humilis Aronia arbutifolia Amelanchier canadensis Crataegus apiifolia Crataegus viridis Prunus umbellata Rhus aromatica Rhus copallina Ilex decidua Ilex verticillata Ilex vomitoria	Mid-July to early October. Mid-June to late March. Mid-May to early July. Early April to late May. Early June to late October. Early August to mid-March. Mid-August to late July. Mid-July to mid-November. Early September to mid-May. Mid-June to mid-October. All year. Mid-September to mid-May. All year. Mid-July to late December. Mid-July to late April.
Sand blackberry Southern dewberry Pasture rose Cherokee rose Red chokeberry Serviceberry Hawthorn Do Hog plum Fragrant sumac Dwarf sumac Possumhaw Inkberry Yaupon Summer grape Summer grape Frost grape Peppervine Sourgum Dogwood Flowering dogwood Cangleberry Farkleberry Farkleberry Farkleberry Farkleberry Farkleberry	Rubus cuneifolius Rubus trivialis Rosa humilis Rosa laevigata Aronia arbutifolia Amelanchier canadensis Crataegus apiifolia Crataegus viridis Prunus umbellata Rhus aromatica Rhus copallina Ilex decidua Ilex yerticillata Ilex vomitoria	Mid-June to late March. Mid-May to early July. Early April to late May. Early June to late October. Early August to mid-March. Mid-August to late March. Early May to late July. Mid-July to mid-November. Early September to mid-May. Mid-June to mid-October. All year. Mid-September to mid-May. All year. Mid-July to late December. Mid-July to late April.
Sand blackberry Southern dewberry Pasture rose Cherokee rose Red chokeberry Serviceberry Hawthorn Do Hog plum Fragrant sumac Dwarf sumac Possumhaw Inkberry Yaupon Summer grape Summer grape Frost grape Peppervine Sourgum Dogwood Flowering dogwood Cangleberry Farkleberry Farkleberry Farkleberry Farkleberry Farkleberry	Rubus cuneifolius Rubus trivialis Rosa humilis Rosa laevigata Aronia arbutifolia Amelanchier canadensis Crataegus apiifolia Crataegus viridis Prunus umbellata Rhus aromatica Rhus copallina Ilex decidua Ilex yerticillata Ilex vomitoria	Mid-May to early July. Early April to late May. Early June to late October. Early August to mid-March. Mid-August to late March. Early May to late July. Mid-July to mid-November. Early September to mid-May. Mid-June to mid-October. All year. Mid-September to mid-May. All year. Mid-July to late December. Mid-July to late April.
Southern dewberry Pasture rose Cherokee rose Red chokeberry Serviceberry Hawthorn Do Hog plum Fragrant sumac Dwarf sumac Possumhaw Inkberry Winterberry Summer grape Frost grape Peppervine Sourgum Dogwood Flowering dogwood Cangleberry Farkleberry Farkleberry Farkleberry	Rubus trivialis Rosa humilis Rosa laevigata Aronia arbutifolia Amelanchier canadensis Crataegus apiifolia Crataegus viridis Prunus umbellata Rhus aromatica Rhus copallina Ilex decidua Ilex glabra Ilex verticillata Ilex vomitoria	Early April to late May. Early June to late October. Early August to mid-March. Mid-August to late March. Early May to late July. Mid-July to mid-November. Early September to mid-May. Mid-June to mid-October. All year. Mid-September to mid-May. All year. Mid-July to late December. Mid-July to late April.
Pasture rose	Rosa humilis Rosa laevigata Aronia arbutifolia Amelanchier canadensis Crataegus apiifolia Crataegus viridis Prunus umbellata Rhus aromatica Rhus copallina Ilex decidua Ilex glabra Ilex verticillata Ilex vomitoria	Early June to late October. Early August to mid-March. Mid-August to late March. Early May to late July. Mid-July to mid-November. Early September to mid-May. Mid-June to mid-October. All year. Mid-September to mid-May. All year. Mid-July to late December. Mid-July to late April.
Cherokee rose	Rosa laevigata Aronia arbutifolia Amelanchier canadensis Crataegus apiifolia Crataegus viridis Prunus umbellata Rhus aromatica Rhus copallina Ilex glabra Ilex verticillata Ilex vomitoria	Early August to mid-March. Mid-August to late March. Early May to late July. Mid-July to mid-November. Early September to mid-May. Mid-June to mid-October. All year. Mid-September to mid-May. All year. All year. Mid-July to late December. Mid-July to late April.
Red chokeberry Serviceberry Serviceberry Serviceberry Serviceberry	Aronia arbutifolia Amelanchier canadensis Crataegus apiifolia Crataegus viridis Prunus umbellata Rhus aromatica Rhus copallina Ilex decidua Ilex glabra Ilex verticillata Ilex vomitoria	Mid-August to late March. Early May to late July. Mid-July to mid-November. Early September to mid-May. Mid-June to mid-October. All year. Mid-September to mid-May. All year. All year. Mid-July to late December. Mid-July to late April.
Serviceberry Hawthorn Do Hog plum Fragrant sumac Dwarf sumac Possumhaw Inkberry Winterberry Yaupon Supplejack Summer grape Frost grape Peppervine Pogwood Flowering dogwood Flowering dogwood Farkleberry Farkleberry	Amelanchier canadensis Crataegus apiifolia Crataegus viridis Prunus umbellata Rhus aromatica Rhus copallina Ilex decidua Ilex glabra Ilex verticillata Ilex vomitoria	Early May to late July. Mid-July to mid-November. Early September to mid-May. Mid-June to mid-October. All year. Mid-September to mid-May. All year. Mid-July to late December. Mid-July to late April.
Hawthorn ————————————————————————————————————	Crataegus apiifolia Crataegus viridis Prunus umbellata Rhus aromatica Rhus copallina Ilex decidua Ilex glabra Ilex verticillata Ilex vomitoria	Mid-July to mid-November. Early September to mid-May. Mid-June to mid-October. All year. Mid-September to mid-May. All year. All year. Mid-July to late December. Mid-July to late April.
Do Hog plum Fragrant sumac Dwarf sumac Possumhaw Inkberry Vaupon Supplejack Frost grape Peppervine Sourgum Dogwood Flowering dogwood Farkleberry Farkleberry Fragrant sumac Sumac Farkleberry Fragrant sumac	Crataegus viridis Prunus umbellata Rhus aromatica Rhus copallina Ilex decidua Ilex glabra Ilex verticillata Ilex vomitoria	Early September to mid-May. Mid-June to mid-October. All year. Mid-September to mid-May. All year. All year. Mid-July to late December. Mid-July to late April.
Hog plum	Prunus umbellata Rhus aromatica Rhus copallina Ilex decidua Ilex glabra Ilex verticillata Ilex vomitoria	Mid-June to mid-October. All year. Mid-September to mid-May. All year. All year. Mid-July to late December. Mid-July to late April.
Fragrant sumac ————————————————————————————————————	Rhus aromatica Rhus copallina Ilex decidua Ilex glabra Ilex verticillata Ilex vomitoria	All year. Mid-September to mid-May. All year. All year. Mid-July to late December. Mid-July to late April.
Dwarf sumac	Rhus copallina Ilex decidua Ilex glabra Ilex verticillata Ilex vomitoria	Mid-September to mid-May. All year. All year. Mid-July to late December. Mid-July to late April.
Possumhaw ————————————————————————————————————	Ilex decidua Ilex glabra Ilex verticillata Ilex vomitoria	All year. All year. Mid-July to late December. Mid-July to late April.
Inkberry	Ilex glabra Ilex verticillata Ilex vomitoria	All year. Mid-July to late December. Mid-July to late April.
Winterberry Yaupon Yaupon Yaupon Supplejack Summer grape Frost grape Winter grape Peppervine Sourgum Dogwood Flowering dogwood Cangleberry Farkleberry	Ilex verticillata Ilex vomitoria	Mid-July to late December. Mid-July to late April.
Yaupon	Ilex vomitoria	Mid-July to late April.
Holly		_
Supplejack Summer grape Frost grape Winter grape Peppervine Sourgum Dogwood Flowering dogwood Dangleberry Farkleberry		: All year.
Summer grape Frost grape Winter grape Peppervine Sourgum Dogwood Flowering dogwood Dangleberry Farkleberry	Berchemia scandens	Early August to late March.
Frost grape Winter grape Peppervine Sourgum Dogwood Flowering dogwood Dangleberry Farkleberry	Vitis aestivalis	Mid-June to late October.
Winter grape Peppervine Sourgum Dogwood Flowering dogwood Dangleberry Farkleberry	Vitis destivalis	Mid-July to mid-October.
Peppervine	Vitis cordiforia	Late August to late May.
Sourgum ! Dogwood ! Flowering dogwood ! Dangleberry ! Farkleberry !	Ampelopsis arborea	Early June to late November.
Dogwood (Flowering dogwood (Dangleberry (Farkleberry)	Myssa sylvatica	Late June to mid-November.
Flowering dogwood (Dangleberry (Farkleberry)	Cornus stricta	Mid-August to late October.
Dangleberry	Cornus florida	Mid-July to late December.
Farkleberry	Gaylussacia frondosa	Early June to late July.
	Batodendron arboreum	All year.
Highbush blueberry : 1		
	Vaccinium corymbosum	Early June to late September
	Vaccinium myrsinites	Mid-April to late June.
· · · · · · · · · · · · · · · · · · ·	Diospyros virginiana	Mid-July to late December.
Junior I (Bumelia lanuginosa	Early September to mid- February.
Adelia	Forestiera ligustrina	Mid-July to early October.
	Callicarpa americana	Early July to mid-January.
•	Mitchella repens	All year.
,	Sambucus canadensis	Mid-July to late October.
		<u> </u>
		· All vear.
Frumpet honeysuckle	Viburnum nudum Viburnum rufidulum	All year. Early June to late April.

Notes supplementary to Table 2

- A more southern species of redcedar (Juniperus lucayana) may be substituted.
- Saw palmetto (Serenoa serrulata) grows through most of the region near the coast; dwarf palmetto (Sabal minor), from South Carolina to Louisiana. Their fruits are persistent.
- Various other greenbriers, including <u>Smilax laurifolia</u>, <u>S. auriculata</u>, <u>S. glauca</u>, <u>S. walteri</u>, <u>S. pseudochina</u>, and <u>S. pumila</u>, also may be used. The fruit of all is long persistent.
- Bayberry (Myrica carolinensis) and dwarf waxmyrtle (Myrica pumila) are native near the coast.
- Other hackberries (Celtis georgiana and C. occidentalis) are good substitutes.
- Mulberries -- Morus rubra is native, and the introduced $\underline{\text{M}} \cdot \underline{\text{alba}}$ and $\underline{\text{M}} \cdot \underline{\text{nigra}}$ will grow throughout the region. They bear fruit for about a month in early summer.
- Dewberries, blackberries, raspberries (<u>Rubus</u>) -- Any native species of the genus may be used.
- Fragaria Wild strawberries are a good source of bird food in early summer.
- Rosa -- Any local species can be transplanted; those with the smaller sizes of fruits are most used by birds.
- Chokeberries -- A. atropurpurea or A. nigra will do just as well.
- <u>Crataegus</u> All of the numerous species have value for bird food; those with the smaller fruits and holding them longest are of most importance. <u>C</u>. <u>rufula</u> is notable for early ripening (May).
- Firethorn (Cotoneaster pyracantha), introduced, also may be used.
- Plums -- Locally available species may be transplanted.
- Deer plum (Chrysobalanus oblongifolia) will grow near the coast.
- Chinaberry (Melia azedarach) has a bearing season extending from early fall to late spring.
- Rhus -- Other native species, mostly with shorter bearing seasons, may be substituted.
- Ampelopsis -- The Virginia creeper (Ampelopsis quinquefolia) grows throughout the region, keeps its fruit well through the winter, and is a good bird food.
- Passionflowers (<u>Passiflors</u> incarnata and <u>P. lutea</u>) are widely distributed vines producing pulpy berries.
- Hercules-club (Aralia spinosa) and wild spikenard (Aralia racemosa) will grow in most parts of the region.
- $\underline{\text{Nyssa}} \underline{\text{N}} \cdot \underline{\text{sylvatica}}$ is scheduled because it is an upland species; $\underline{\text{N}} \cdot \underline{\text{biflora}}$ with similar fruit grows in wet places in the Southeastern States.

Cornus -- Any of the bushy native or introduced species are useful.

<u>Gaylussacia</u> -- <u>G. dumosa</u>, an equivalent, more local species, can just as well be used.

Vaccinium -- All of the blueberries are valuable.

<u>Bumelia</u> — <u>Bumelia</u> <u>lycioides</u> of similar range appears to have much less persistent fruit.

American olive (Osmanthus americanus) grows near the coast; fringetree (Chionanthus) has some value in producing bird food.

Lantana (L. camara), an introduced plant that grows almost anywhere along the Gulf coast, has some value as bird food.

Matrimony-vine (Lycium carolinianum) will grow near the coast.

<u>Viburnum</u> -- Local species will serve. Fruiting seasons in most cases are not so long as for those entered in the table.

Other honeysuckles will serve -- L. japonica, introduced and often a weed, is used as a soil-binding plant. It holds fruit into the winter.

TABLE 3. -- Extralimital fruits that have been recommended for Mississippi

	<u>, </u>		
Common name	Scientific name	Fruiting	season
Common juniper	Juniperus communis		
Chinese junioer	Juniperus chinensis & vars.		
Greek juniper	Juniperus excelsa & vars		
Creeping juniper	Juniperus horizontalis		
Black mulberry	Morus nigra		
Fiveleaf akebia	Akebia quinata		
Nandina	Nandina domestica	All winter.	
Camphor-tree	Cinnamomum camphora		
Peking cotoneaster	Cotoneaster acutifolia		
Box cotoneaster	Cotoneaster buxifolia		
Spreading cotoneaster	Cotoneaster divaricata		
Rock cotoneaster	Cotoneaster horizontalis		
Rockspray	Cotoneaster microphylla		
Narrowleaf firethorn	Pyracantha angustifolia		
Laland firethorn	Pyracantha coccinea var	All winter.	
	lalandi.	•	
Nepal firethorn	Pyracantha crenulata var yunnanensis.		
Cockspur thorn	Crataegus crusgalli		
English thorn	Crataegus monogyna		
Dwarf thorn	Crataegus uniflora		
Japanese flowering crab	Malus floribunda		

TABLE 3. -- Extralimital fruits that have been recommended for Mississippi -- Continued

		:
Common name	Scientific name	Fruiting season
Cherokee rose	Posa laevigata	
Japanese rose	: Rosa multiflora	
Sweetbrier rose	Rosa rubiginosa	
Rugosa rose	Rosa rugosa	•
Wichurian rose	: Rosa wichuriana	
English holly	: Ilex aquifolium	
Chinese holly	: Ilex cornuta	
Japanese holly	: Ilex crenata	
Fragrant sumac	Rhus canadensis	
Jujube	Zizyphus vulgaris	
Japanese creeper	Ampelopsis tricuspidata & vars.	
Thorny elaeagnus	: Elaeagnus pungens & vars	
Autumn elaeagnus	: Elaeagnus umbellata	September to October.
Pagoda dogwood	Cornus alternifolia	
Cornelian cherry	Cornus mas	
Red-osier	Cornus stolonifera & vars	
Strawberry-tree	Arbutus unedo	September to Decembe:
Wintergreen	Gaultheria procumbens	
Holly osmanthus	Osmanthus aquifolium	•
Fortune osmanthus	: Osmanthus fortunei	
Sweet osmanthus	: Osmanthus fragrans	
Amur privet	: Ligustrum amurense	
Ibota privet	: Ligustrum ibota	
Japanese privet	Ligustrum japonicum	
Glossy privet	Ligustrum lucidum & vars	
Nepal privet	Ligustrum nepalense	
Chinese privet	Li justrum sinense & vars	
European privet	Ligustrum vulgare	
Chinese beautyberry	: Callicarpa purpurea	
Lilac chaste-treee	: Vitex agnus-castus	
Snowberry	: Symphoricarpos racemosus	
American cranberrybush	Viburnum americanum	
Fragrant viburnum	Viburnum carlesi	
Sweet viburnum	Viburnum odoratissimum	
European cranberrybush	Viburnum opulus	
Leatherleaf viburnum	Viburnum rhytidophyllum	
White belle honeysuckle -	Lonicera bella var. albida-	
Winter honeysuckle	: Lonicera fragrantissima	
Everblooming honeysuckle-	: Lonicera heckrotti	
Japanese honeysuckle	: Lonicera japonica & vars	
Amur honeysuckle	Lonicera maacki	
Morrow honeysuckle	Lonicera morrowi	
Privet honeysuckle	Lonicera pileata	
Manchurian honeysuckle	Lonicera ruprechtiana	
Tatarian honeysuckle	Lonicera tatarica	

LITERATURE

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