

Appendix 2 Soils

Soil Erodibility Category A

Category	Soil Name	K-Factor	Category	Soil Name	K-Factor
A	Adamsville	0.10	A	Chipley	0.17
A	Alachua	0.17	A	Cocoa	0.17
A	Alaga	0.17	A	Copeland	0.17
A	Alapaha	0.17	A	Dade	0.17
A	Albany	0.17	A	Delks	0.17
A	Alpin	0.10	A	Delray	0.17
A	Americus	0.17	A	Eaton	0.17
A	Anclote	0.17	A	Eau Gallie	0.17
A	Apopka	0.17	A	Electra	0.15
A	Arredondo	0.17	A	Ellabelle	0.17
A	Arzell	0.10	A	Elred	0.17
A	Astatula	0.15	A	Eulonia	0.20
A	Astor	0.17	A	Eustis	0.17
A	Barth	0.17	A	Evinston	0.15
A	Basinger	0.10	A	Felda	0.17
A	Bibb	0.20	A	Floridana	0.17
A	Blanton	0.17	A	Fort Drum	0.20
A	Blichton	0.20	A	Fort Meade	0.17
A	Boca	0.20	A	Fox Worth	0.17
A	Bonifay	0.17	A	Fuquay	0.20
A	Bradenton	0.20	A	Gainesville	0.17
A	Broward	0.17	A	Goldboro	0.20
A	Canaveral	0.15	A	Hague	0.17
A	Candler	0.10	A	Hallandale	0.17
A	Cassia	0.15	A	Holopaw	0.15
A	Chaires	0.10	A	Huckabee	0.17
A	Charlotte	0.15	A	Hurricane	0.10
A	Chiefland	0.15	A	Immokalee	0.15

Category	Soil Name	K-Factor	Category	Soil Name	K-Factor
A	Johns	0.20	A	Matmon	0.20
A	Jonesville	0.17	A	Maxton	0.20
A	Jumper	0.20	A	Micanopy	0.20
A	Jupiter	0.17	A	Myakka	0.20
A	Kalmia	0.20	A	Newnan	0.10
A	Kanapaha	0.15	A	Ochopee	0.17
A	Kendrick	0.17	A	Ocilla	0.17
A	Kennansville	0.15	A	Oldsmar	0.20
A	Keri	0.17	A	Olustee	0.20
A	Kershaw	0.15	A	Ona	0.20
A	Klej	0.15	A	Orlando	0.15
A	Klej (Shallow Variant)	0.17	A	Orsino	0.17
A	Kureb	0.17	A	Ortega	0.10
A	Lake	0.15	A	Osier	0.15
A	Lakeland	0.17	A	Otela	0.10
A	Lakewood	0.15	A	Palm Beach	0.15
A	Leefield	0.20	A	Paola	0.15
A	Leon	0.20	A	Parkwood	0.20
A	Lochloosa	0.20	A	Pedro	0.17
A	Lucy	0.17	A	Pelham	0.20
A	Lutterloh	0.10	A	Pineda	0.17
A	Lynn Haven	0.20	A	Pinellas	0.17
A	Lynne	0.20	A	Placid	0.17
A	Magnolia	0.20	A	Plummer	0.17
A	Malabar	0.20	A	Poarch	0.20
A	Manatee	0.20	A	Pomello	0.17
A	Margate	0.17	A	Pomona	0.20
A	Marlboro	0.20	A	Pompano	0.15
A	Mascotte	0.20	A	Portsmouth	0.17

Category	Soil Name	K-Factor	Category	Soil Name	K-Factor
A	Red Bay	0.20	A	Surrency	0.20
A	Ridgeland	0.20	A	Tavares	0.17
A	Rimini	0.10	A	Tifton	0.20
A	Riviera	0.17	A	Toole	0.10
A	Rutlege	0.17	A	Troup	0.17
A	Satellite	0.15	A	Valkaria	0.15
A	Scranton	0.15	A	Wabasso	0.20
A	Sellers	0.15	A	Wacahoota	0.20
A	Smyrna	0.10	A	Wagram	0.15
A	Sparr	0.16	A	Wauchula	0.20
A	St Johns	0.20	A	Welaka	0.15
A	St Lucie	0.15	A	Winder	0.20
A	Stilson	0.20	A	Zuber	0.20

Soil Erodibility Category B

Category	Soil Name	K-Factor	Category	Soil Name	K-Factor
B	Archer	0.24	B	Eureka	0.24
B	Ardilla	0.24	B	Greenville	0.24
B	Boardman	0.24	B	Hannahatchee	0.24
B	Bowie	0.24	B	Myatt	0.24
B	Bushnell	0.24	B	Notcher	0.24
B	Carnegie	0.24	B	Panasoffkee	0.24
B	Chobee	0.24	B	Pantego	0.24
B	Cowarts	0.24	B	Peace River	0.24
B	Coxville	0.24	B	Rains	0.24
B	Cuthbert	0.24	B	Robertsdale	0.24
B	Elmeralda	0.24	B	Savannah	0.24
			B	Sunsweet	0.24

Soil Erodibility Category C

B	Weston, dark subsoil	0.24	C	Iberia	0.37
Category	Soil Name	K-Factor	Category	Soil Name	K-Factor
C	Angie	0.32	C	Irvington	0.32
C	Bayboro	0.43	C	Izagora	0.32
C	Binnsville	0.37	C	Leaf	0.49
C	Bladen	0.32	C	Lynchburg	0.28
C	Blakely	0.37	C	Martel	0.28
C	Bluff	0.37	C	Meggett	0.32
C	Congaree	0.32	C	Norfolk	0.28
C	Dothan	0.28	C	Okitibbeha	0.32
C	Dunbar	0.28	C	Orangeburg	0.28
C	Duplin	0.32	C	Paisley	0.32
C	Esto	0.32	C	Pansey	0.32
C	Faceville	0.32	C	Perrine	0.32
C	Fellowship	0.28	C	Ruston	0.28
C	Flamingo	0.37	C	Sawyer	0.37
C	Flemington	0.32	C	Shubuta	0.28
C	Grady	0.37	C	Stough	0.28
C	Gritney	0.32	C	Susquehanna	0.28
C	Hialeah	0.37	C	Vaucluse	0.28

Not Applicable - Organic Soils

C	Wahee	0.43	Dorovan	Okeelanta	Terra Ceia
Brighton	Montverde	Pamlico	Everglades	Oklawaha	Tomoka
Canova	Ocoee	Plantation	Lauderhill	Pahokee	Torry
Dania	Okeechobee	Sanibel	Micco		

Appendix 3 Guide for Estimating Soil K-Factors

Soil Surface Texture	Hydrologic Soil Group			
	A	B	C	D
	Estimated Soil Factor			
Clays	0.24	0.28	0.32	0.37
Clay Loams	0.28	0.32	0.37	0.43
Loams	0.32	0.37	0.43	0.49
Sandy Loams	0.20	0.24	0.32	0.37
Sands	0.15-0.17	0.20	0.24	0.28

Group A Soils having high infiltration rates when thoroughly wetted. These consist chiefly of deep, well-to-excessively drained sands or gravels with a high rate of water transmission which produces a low surface runoff potential. The entire solum has a very low content of clay and typically includes loose sands through loamy sandy soils.

Group B Soils having moderate infiltration rates when thoroughly wetted. These consist chiefly of moderately deep to deep, moderately well-to-well drained soils with moderately fine to moderately coarse textures. These soils have a moderate rate of water transmission.

Group C Soils having slow infiltration rates when thoroughly wetted. These soils consist of two groups; (1) those with moderately fine to fine texture and a slow infiltration rate or, (2) those with a layer that impedes the downward movement of water. Both groups results in a slow rate of water transmission. These soils are “heavy”, and range from silt loams through the silty clay loams.

Group D Soils having very slow infiltration rates when thoroughly wetted. These soils consist of (1) clay soils with a clay pan or clay layer at or near the surface of the ground or, (2) shallow soils overlaying nearly impervious materials.

Appendix 3 Guide for Estimating Slope Category

Estimating Slope from Topographic Map Contours			
Slope		Number of Contour Lines within a 300 ft. Zone	
Category	Average %	5 ft. Contours	10 ft. Contours
1	0%	0	0
	2%	1	-
2	3%	2	1
	5%	3	-
	7%	4	2
3	8%	5	-
	10%	6	3
	12%	7	-
4	13%	8	4
	15%	9	-
	17%	10	5
5	18%	11	-
	20%	12	6
	22%	13	-
6	23%	14	7



Appendix 4 Special Waterbodies

Class I Waters in Florida

(Excerpted from 62-302.400, F.A.C.)

Waterbodies that are designated for use as a potable water supply.

1. Bay County

Bayou George and Creek – Impoundment to source.

Bear Creek - Impoundment to source.

Big Cedar Creek - Impoundment to source.

Deer Point Impoundment – Dam to source.

Econfina Creek – Upstream of Deer Point Impoundment.

2. Brevard County

St. Johns River and Tributaries – Lake Washington Dam south through and including Sawgrass Lake, Lake Hellen Blazes, to Indian River County Line.

3. Calhoun County

Bear Creek.

Econfina Creek.

4. Charlotte County

Alligator Creek – North and South Prongs from headwaters to the water control structure downstream of SR 765-A.

Port Charlotte Canal System – Surface waters lying upstream of, or directly connected to, Fordham Waterway upstream of Conway Boulevard.

Prairie Creek – DeSoto County Line and headwaters to Shell Creek.

Shell Creek – Headwaters to Hendrickson Dam (east of Myrtle Slough, in Section 20, T40S, R24E).

5. DeSoto County

Horse Creek – From the northern border of Section 14, T38S, R23E, southward to Peace River.

Prairie Creek – Headwaters to Charlotte County Line.

6. Gadsden County

Holman Branch – SR 270-A to source.

Mosquito Creek – U.S. Highway 90 north to Florida State Line.

Quincy Creek – SR 65 to source.

7. Glades County

Lake Okeechobee.

8. Hendry County

Lake Okeechobee.

9. Hillsborough County

Cow House Creek – Hillsborough River to source.

Hillsborough River – City of Tampa Water Treatment Plant Dam to Flint Creek.

10. Indian River County

St. Johns River and Tributaries – Brevard County Line south through and including Blue Cypress Lake to SR 60.

11. Jackson County

Econfina Creek – Bay County Line to source.

12. Lee County

Caloosahatchee River – E. County Line to South Florida Water Management District Structure 79.

13. Manatee County

Manatee River – From Rye Bridge Road to the sources thereof, including but not limited to the following tributaries: the East Fork of the Manatee River, the North Fork of the Manatee River, Boggy Creek, Gilley Creek, Poley Branch, Corbit Branch, Little Deep Branch, Fisher Branch, Ft. Crawford Creek, Webb Branch, Clearwater Branch, Craig Branch, and Guthrey Branch.

Lake Evers – (Ward Lake) and Braden River – City of Bradenton Water Treatment Dam to SR 675, excluding upland cut irrigation or drainage ditches and including the following tributaries:

Tributary	Upstream Limit(s)
a. Rattlesnake Slough	Lockwood Ridge Road in Section 28, Township 35 South, Range 18 East.
b. Cedar Creek West Branch	Whitfield Avenue in Section 27, Township 35 South, Range 18 East.





Central Branch Country Club Way in Section 34, Township 35 South, Range 18 East.

East Branch To a point where an east-west line tying 1200 feet south of the section line between Sections 23 and 26 (Township 35 South, Range 18 East) crosses the tributary.

c. Cooper Creek
West Branch
(Foley Branch) South Boundary of Section 1, Township 36 South, Range 18 East.

East Branch East Boundary of Section 31, Township 35 South, Range 19 East.

d. Nonsense Creek To a point where an east-west line lying 800 feet North of the Section line between Sections 14 and 23 (Township 35 South, Range 18 East) crosses the creek.

e. Hickory Hammock To a point where an east-west line lying 1000 feet South of the section line between Sections 17 and 20 (Township 35 South, Range 19 East) crosses the creek.

f. Wolf Slough East Boundary of Section 16, Township 35 South, Range 19 East.

g. Unnamed Tributary 1 To a point where an east-west line lying 2300 feet south of the section line between Sections 21 and 28 (Township 35 South, Range 19 East) crosses the tributary.

h. Unnamed Tributary 2 East Boundary of Section 14, Township 35 South, Range 19 East.

i. Unnamed Tributary 3 West Boundary of Section 25, Township 35 South, Range 19 East.

j. Unnamed Tributary 4 To a point where north-south line lying 200 feet East of the section line between Sections 23 and 24 (Township 35 South, Range 19 East) crosses the tributary.

14. Martin County
Lake Okeechobee.

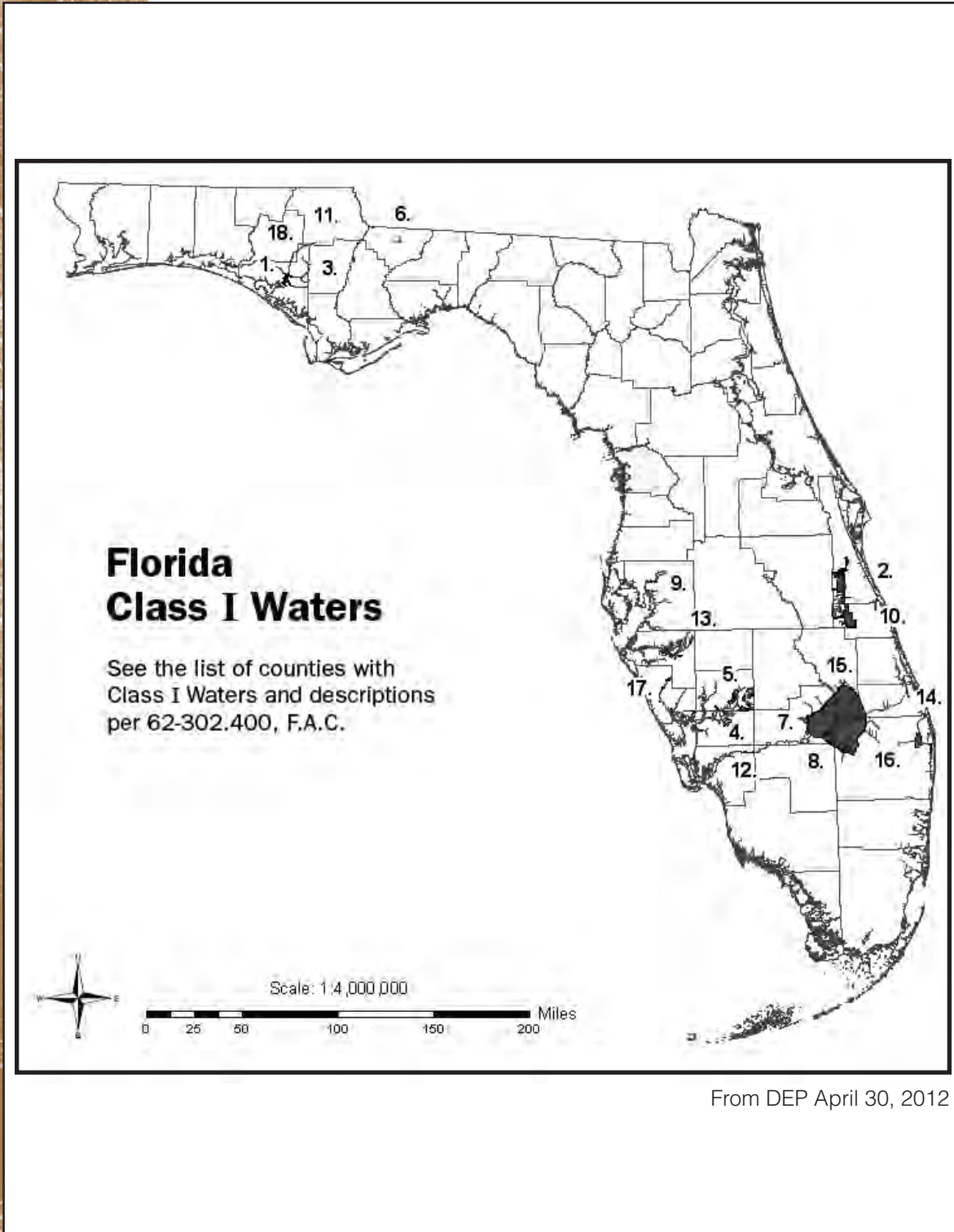
15. Okeechobee County
Lake Okeechobee.

16. Palm Beach County
Canal C-18 (freshwater portion).
City of West Palm Beach Water Catchment Area.
Clear Lake, Lake Mangonia, and the waterway connecting them.
Lake Okeechobee.
M-Canal – L-8 to Lake Mangonia.

17. Sarasota County
Big Slough Canal – South to U.S. 41.
Cooper Creek (Foley Branch) upstream to the South boundary of Section 1, Township 36 South, Range 18 East.
Myakka River – From the Manatee County line southwesterly through Upper and Lower Myakka Lakes to Manhattan Farms (north line of Section 6 T39S, R20E).

18. Washington County
Econfina Creek.

62-302.400, F.A.C.
April 30, 2012



From DEP April 30, 2012

**From 62-302, Surface Water Quality Standards 8-5-07
List of OFWs from 62-302.700, F.A.C.:**

(9) Outstanding Florida Waters:

(A) Waters within National Parks and National Memorials

National Park or National Memorial	County
1. Biscayne National Park (as mod. 5-14-86; 8-8-94)	Dade
2. Dry Tortugas National Park (10-4-90)	Monroe
3. Everglades National Park (as mod. 8-8-94)	Monroe/Dade Collier
4. Fort Caroline National Memorial (8-8-94)	Duval

(B) Waters within National Wildlife Refuges


Wildlife Refuge	County
1. Archie Carr (8-8-94) Indian River/	Brevard
2. Caloosahatchee	Lee
3. Cedar Keys (as mod. 5-14-86, 4-19-88)	Levy
4. Chassahowitzka (as mod. 5-14-86, 4-19-88)	Citrus/Hernando
5. Chinsegut	Hernando
6. Crocodile Lake (12-1-82; as mod. 5-14-86, 4-19-88; 8-8-94)	Monroe
7. Crystal River (5-14-86; as mod. 10-4-90)	Citrus
8. Egmont Key	Hillsborough
9. Florida Panther (10-4-90; as mod. 8-8-94)	Collier
10. Great White Heron (as mod. 5-14-86, 4-19-88)	Monroe
11. Hobe Sound (as mod. 5-14-86,4-19-88; 8-8-94)	Martin
12. Island Bay	Charlotte
13. J. N. "Ding" Darling (as mod. 5-14-86, 4-19-88; 8-8-94)	Lee
14. Key West	Monroe
15. Lake Woodruff (as mod. 8-8-94)	Volusia/Lake
16. Lower Suwannee (12-1-82; as mod. 8-8-94)	Dixie/Levy
17. Loxahatchee	Palm Beach
18. Matlacha Pass (as mod. 8-8-94)	Lee
19. Merritt Island	Volusia/Brevard
20. National Key Deer (as mod. 5-14-86, 4-19-88, 10-4-90; 8-8-94)	Monroe
21. Okefenokee (Florida Portion)	Baker
22. Passage Key	Manatee

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|--|------------------------------|
| 23. Pelican Island (as mod. 8-8-94) | Indian River |
| 24. Pine Island (as mod. 8-8-94) | Lee |
| 25. Pinellas | Pinellas |
| 26. St. Johns (including Bee Line Unit)
(as mod. 5-14-86, 4-19-88) | Brevard |
| 27. St. Marks (as mod. 10-4-90; 8-8-94) | Jefferson/ Wakulla
Taylor |
| 28. St. Vincent (including Pig Island Unit) | Franklin/Gulf |

(C) Waters within State Parks, State Wildlife Parks, and State Recreation Areas

- | State Park or State Recreation Area | County |
|--|-----------------|
| 1. Amelia Island State Recreation Area (5-14-86) | Nassau |
| 2. Anastasia State Recreation Area
(as mod. 4-19-88) | St. Johns |
| 3. Avalon State Recreation Area
(4-19-88; as mod. 8-8-94) | St. Lucie |
| 4. Bahia Honda State Park (as mod. 5-14-86) | Monroe |
| 5. Bear Creek State Recreation Area (12-1-82) | Gadsden |
| 6. Big Lagoon State Recreation Area
(12-1-82; as mod. 5-14-86, 8-8-94) | Escambia |
| 7. Big Talbot Island State Park (5-14-86;
as mod. 4-19-88, 8-8-94) | Duval |
| 8. Bill Baggs Cape Florida State Recreation Area | Dade |
| 9. Blackwater River State Park | Santa Rosa |
| 10. Blue Spring State Park | Volusia |
| 11. Bulow Creek State Park (5-14-86; as mod. 4-19-88) | Flagler/Volusia |
| 12. Caladesi Island State Park | Pinellas |
| 13. Cayo Costa State Park (12-1-82; as mod. 5-14-86,
4-19-88, 10-4-90, 8-8-94) | Lee |
| 14. Collier-Seminole State Park | Collier |
| 15. Dead Lakes State Recreation Area | Gulf |
| 16. DeLeon Springs State Recreation Area (5-14-86);
as mod. 10-4-90) | Volusia |
| 17. Delnor-Wiggins Pass State Recreation Area (12-1-82) | Collier |
| 18. Don Pedro Island State Recreation Area (5-14-86);
as mod. 4-19-88) | Charlotte |
| 19. Dr. Julian G. Bruce St. George Island State Park
(12-1-82) | Franklin |

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20. Edward Ball Wakulla Springs State Park (4-19-88) Wakulla
 21. Falling Waters State Recreation Area Washington
 22. Faver-Dykes State Park St. Johns
 23. Florida Caverns State Park (as mod. 8-8-94) Jackson
 24. Fort Clinch State Park(as mod. 4-19-88; 8-8-94) Nassau
 25. Fort Cooper State Park (12-1-82) Citrus
 26. Fort Pierce Inlet State Recreation Area (12-1-82;
as mod. 5-14-86) St. Lucie
 27. Fred Gannon Rocky Bayou State Recreation Area Okaloosa
 28. Gamble Rogers Memorial State Recreation Area
at Flagler Beach Flagler
 29. Gasparilla Island State Recreation Area
(5-14-86; as mod. 4-19-88, 10-4-90) Lee
 30. Grayton Beach State Recreation Area
(as mod. 4-19-88) Walton
 31. Guana River State Park (5-14-86; as mod. 4-19-88) St. Johns
 32. Henderson Beach State Recreation Area (5-14-86) Okaloosa
 33. Highlands Hammock State Park (as mod. 8-8-94) Highlands/Hardee
 34. Hillsborough River State Park Hillsborough
 35. Homosassa Springs State Wildlife Park (10-4-90) Citrus
 36. Honeymoon Island State Recreation Area
(12-1-82; as mod. 5-14-86) Pinellas
 37. Hontoon Island State Park Volusia/Lake
 38. Hugh Taylor Birch State Recreation Area Broward
 39. Ichetucknee Springs State Park Columbia/Suwannee
 40. John D. McArthur Beach State Park (12-1-82) Palm Beach
 41. John Pennekamp Coral Reef State Park
(as mod. 5-14-86, 4-19-88) Monroe
 42. John U. Lloyd Beach State Recreation Area Broward
 43. Jonathan Dickinson State Park Martin
 44. Lake Arbuckle State Park (5-14-86) Polk
 45. Lake Griffin State Recreation Area Lake
 46. Lake Kissimmee State Park Polk
 47. Lake Louisa State Park (12-1-82) Lake
 48. Lake Manatee State Recreation Area (12-1-82) Manatee
 49. Lake Rousseau State Recreation
Area (12-1-82) Citrus/Levy
Marion

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- 50.** Lake Talquin State Recreation Area (12-1-82; as mod. 5-14-86) Leon
- 51.** Little Manatee River State Recreation Area (12-1-82) Hillsborough
- 52.** Little Talbot Island State Park Duval
- 53.** Long Key State Recreation Area Monroe
- 54.** Lovers Key State Recreation Area (5-14-86) Lee
- 55.** Manatee Springs State Park (as mod. 10-4-90) Levy
- 56.** Mike Roess Gold Head Branch State Park (as mod. 5-14-86, 4-19-88; 8-8-94) Clay
- 57.** Myakka River State Park Manatee/Sarasota
- 58.** North Peninsula State Recreation Area (5-14-86; as mod. 4-19-88, 10-4-90) Volusia
- 59.** Ochlockonee River State Park Wakulla
- 60.** O'Leno State Park (as mod. 5-14-86) Alachua/Columbia
- 61.** Oleta River State Recreation Area (12-1-82) Dade
- 62.** Oscar Scherer State Park (as mod. 8-8-94) Sarasota
- 63.** Peacock Springs State Recreation Area (4-19-88) Suwannee
- 64.** Perdido Key State Recreation Area (12-1-82) Escambia
- 65.** Ponce de Leon Springs State Recreation Area Holmes/Walton
- 66.** Port Charlotte Beach State Recreation Area (12-1-82) Charlotte
- 67.** Rose Sink (addition to Ichetucknee Springs State Park) (1-9-06) Columbia
- 68.** St. Andrews State Recreation Area (as mod. 5-14-86, 4-19-88) Bay
- 69.** Sebastian Inlet State Recreation Area Indian River Brevard
- 70.** Silver River State Park (4-19-88; as mod. 10-4-90; 8-8-94) Marion
- 71.** Suwannee River State Park (as mod. 10-4-90) Hamilton Madison/Suwannee Jackson
- 72.** Three Rivers State Recreation Area
- 73.** T. H. Stone Memorial St. Joseph Peninsula State Park Gulf
- 74.** Tomoka State Park Volusia
- 75.** Torreya State Park Liberty
- 76.** Wekiva Springs State Park (as mod. 4-19-88) Orange/Seminole

(D) Waters within State Ornamental Gardens, State Botanical Sites, State Historic Sites, and State Geological Sites

State Ornamental Gardens, State Botanical Site, State Historic Site, or State Geological Site

	County
1. Alfred B. Maclay State Gardens	Leon
2. Devils Millhopper State Geological Site (10-4-90)	Alachua
3. Eden State Gardens	Walton
4. Fort Zachary Taylor State Historic Site (10-4-90)	Monroe
5. Indian Key State Historic Site (10-4-90)	Monroe
6. Key Largo Hammock State Botanical Site (5-14-86)	Monroe
7. Koreshan State Historic Site (10-4-90)	Lee
8. Lignumvitae Key State Botanical Site (5-14-86)	Monroe
9. Marjorie Kinnan Rawlings State Historic Site (10-4-90)	Alachua
10. Natural Bridge Battlefield State Historic Site (10-4-90)	Leon
11. Paynes Creek State Historic Site (10-4-90)	Putnam
13. San Marcos de Apalachee State Historic Site (10-4-90)	Wakulla
14. Washington Oaks State Gardens (as mod. 5-14-86)	Flagler
15. Windley Key Fossil Reef State Geological Site (10-4-90)	Monroe

(E) Waters within State Preserves, State Underwater Archaeological Preserves, and State Reserves

State Preserve or State Reserve

	County
1. Anclote Key State Preserve (12-1-82)	Pasco/Pinellas
2. Cape St. George State Reserve (12-1-82)	Franklin
3. Cedar Key Scrub State Reserve (12-1-82; as mod. 4-19-88)	Levy
4. Charlotte Harbor State Reserve (as mod. 4-19-88)	Charlotte
5. Crystal River State Reserve (5-14-86; as mod. 4-19-88)	Citrus
6. Fakahatchee Strand State Preserve (12-1-82; as mod. 5-14-86, 4-19-88, 10-4-90, 8-8-94)	Collier
7. Haw Creek State Preserve (12-1-82)	Flagler Putnam/Volusia
8. Lower Wekiva River State Reserve (12-1-82)	Lake/Seminole
9. Nassau Valley State Reserve (12-1-82)	Duval/Nassau
10. Paynes Prairie State Preserve (as mod. 10-4-90, 8-8-94)	Alachua
11. Prairie-Lakes State Preserve	Osceola



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| 12. River Rise State Preserve (12-1-82; as mod. 8-8-94) | Alachua
Columbia |
| 13. Rock Springs Run State Reserve
(5-14-86; as mod. 4-19-88) | Orange |
| 14. San Felasco Hammock State Preserve
(12-1-82; as mod. 5-14-86; 4-19-88) | Alachua |
| 15. San Pedro State Underwater
Archaeological Preserve (10-4-90) | Monroe |
| 16. Savannas State Reserve (12-1-82;
as mod. 5-14-86, 10-4-90, 8-8-94) | Martin/St. Lucie |
| 17. St. Lucie Inlet State Preserve (12-1-82) | Martin |
| 18. Waccasassa Bay State Preserve
(12-1-82; as mod. 4-19-88) | Levy |
| 19. Weedon Island State Preserve (12-1-82) | Pinellas |
| 20. William Beardall Tosohatchee State Reserve (12-1-82) | Orange |

(F) Waters within Areas Acquired through Donation, Trade, or Purchase Under the Environmentally Endangered Lands Bond Program, Conservation and Recreation Lands Program, Land Acquisition Trust Fund Program, and Save Our Coast Program

Program Area	County
1. Andrews Tract (5-14-86; as mod. 4-19-88; 8-8-94)	Levy
2. Apalachicola Bay (8-8-94)	Franklin
3. Barefoot Beach (12-1-82)	Collier
4. Beker Tracts (10-4-90)	Manatee
5. Big Bend Coastal Tract (4-19-88; as mod. 10-4-90)	Dixie/Taylor
6. Big Shoals (4-19-88)	Hamilton
7. B.M.K. Ranch (8-8-94)	Lake/Orange
8. Bower Tract (5-14-86; as mod. 4-19-88)	Hillsborough
9. Caravelle Ranch (8-8-94)	Putnam
10. Carlton Half-Moon Ranch (8-8-94)	Sumter
11. Catfish Creek (8-8-94)	Polk
12. Chassahowitzka Swamp (5-14-86; as mod. 4-19-88, 8-8-94)	Hernando/Citrus
13. Coupon Bight (10-4-90; as mod. 8-8-94)	Monroe
14. Crystal River (10-4-90)	Citrus
15. Curry Hammock (8-8-94)	Monroe
16. Deering Hammock/Estate (5-14-86); as mod. 4-19-88, 8-8-94)	Dade

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| 17. East Everglades (5-14-86) | Dade |
| 18. Econfina River (8-8-94) | Taylor |
| 19. Emerson Point (8-8-94) | Manatee |
| 20. Escambia Bay Bluffs (5-14-86) | Escambia |
| 21. Estero Bay (8-8-94) | Lee |
| 22. Florida First Magnitude Springs (8-8-94) | Levy |
| 23. Ft. George Island (10-4-90) | Duval |
| 24. Ft. Mose (8-8-94) | St. Johns |
| 25. Ft. San Luis (5-14-86; as mod. 8-8-94) | Leon |
| 26. Gateway (5-14-86) | Pinellas |
| 27. Gills Tract (8-8-94) | Pasco |
| 28. Green Turtle Beach (4-19-88) | St. Lucie |
| 29. Guana River (5-14-86; as mod. 4-19-88) | St. Johns |
| 30. Homosassa Reserve/Walker Tract Withlacoochee State Forest | |
| 31. Indian River North Beach (5-14-86) | Citrus |
| 32. ITT/Hammock (5-14-86) | Indian River |
| 33. Josslyn Island (10-4-90) | Dade |
| 34. Goethe State Forest | Lee |
| 35. Letchworth Mounds (8-8-94) | Levy |
| 36. Little Big Econ State Forest | Jefferson |
| 37. Martin County Tracts (5-14-86) | Seminole |
| 38. Mashas Sands (5-14-86) | Martin |
| 39. Miami Rockridge Pinelands (8-8-94) | Wakulla |
| 40. Milton to Whiting Field (8-8-94) | Dade |
| 41. North Beach (5-14-86) | Santa Rosa |
| 42. North Key Largo Hammock (5-14-86; as mod. 4-19-88, 10-4-90, 8-8-94) | Broward |
| 43. Placid Lakes (8-8-94) | Monroe |
| 44. Point Washington State Forest | Highlands |
| 45. Port Bougainville (10-4-90) | Walton |
| 46. Rainbow River/Springs (8-8-94) | Monroe |
| 47. Rookery Bay (10-4-90; as mod. 8-8-94) | Marion |
| 48. Rotenberger (as mod. 4-19-88; 8-8-94) | Collier |
| 49. Saddle Blanket Lakes Scrub (8-8-94) | Palm Beach |
| 50. Save Our Everglades (10-4-90; as mod. 8-8-94) | Polk |
| 51. Sea Branch (8-8-94) | Collier |
| 52. Seminole State Forest | Martin |
| 53. Snake Warrior Island (Oaks of Miramar) (8-8-94) | Lake |
| | Broward |

- 54. Spring Hammock (4-19-88; as mod. 10-4-90) Seminole
- 55. Spruce Creek (4-19-88; as mod. 8-8-94) Volusia
- 56. St. Martins River (8-8-94) Citrus
- 57. Stark Tract (10-4-90) Volusia
- 58. Stoney-Lane (10-4-90) Citrus
- 59. Surfside Additions (5-14-86) St. Lucie
- 60. Three Lakes/Prairie Lakes (as mod. 8-8-94) Osceola
- 61. Topsail Hill (8-8-94) Walton
- 62. **Jennings State Forest** Clay
- 63. **Tiger Bay State Forest** Volusia
- 64. Wacissa/Aucilla Rivers (10-4-90) Jefferson/Taylor
- 65. Wekiva River Buffers (8-8-94) Seminole
- 66. Westlake (5-14-86; as mod. 4-19-88) Broward
- 67. Wetstone/Berkovitz (8-8-94) Pasco
- 68. **Withlacoochee State Forest** Sumter

(G) Waters within National Seashores

National Seashores

- 1. Canaveral
- 2. Gulf Islands

County

Brevard/Volusia
Escambia
Santa/Rosa

(H) Waters within State Aquatic Preserves

Aquatic Preserves

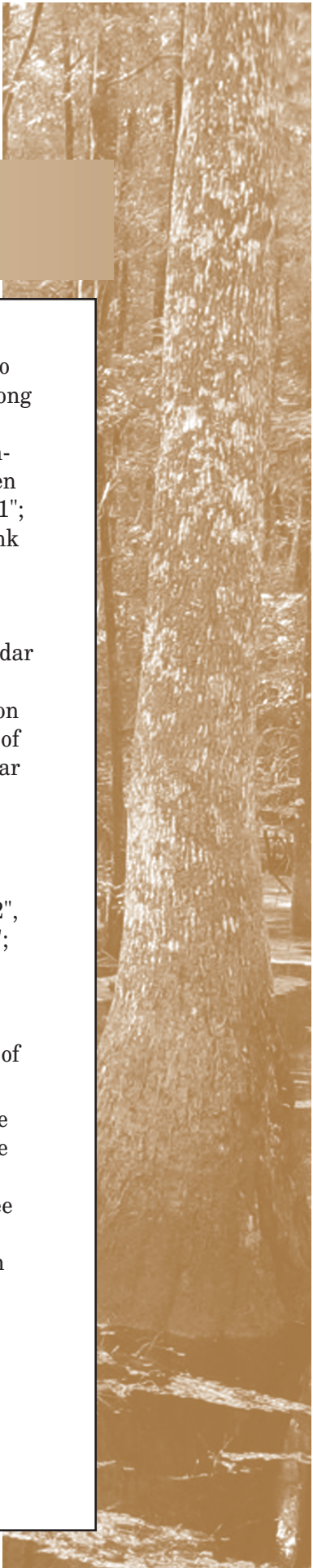
- 1. Alligator Harbor
- 2. Apalachicola Bay
- 3. Banana River (as mod. 8-8-94)
- 4. Big Bend Seagrasses

County

Franklin
Franklin
Brevard
Wakulla/Taylor
Jefferson/Dixie
Levy

except for the following areas;

- a. Keaton Beach, Taylor County - Begin at 29°49'50" N. Lat., 83°35'24"W. Long. then west to 29°49'45", 83°35'50"; then south to 29°49'04", 83°35'48"; then east to 29°49'04", 83°35'24"; then north to the point of beginning.
- b. Steinhatchee, Taylor County - Begin at 29°40'35", 83°22'10"; then west to 29°40'35", 83°23'10"; then north to 29°41', 83°23'10"; then west to 29°41', 83°24'10"; then south to the Taylor County-Dixie County boundary; then eastward along the boundary to 29°39'55", 83°22'10"; then north to the point of beginning.



c. Suwannee, Dixie County - Begin at 29°20'30", 83°08'10"; then west to 29°20'30", 83°08'25"; then south to 29°20'05", 83°08'25"; then southwesterly along SR 349 to 29°19'51", 83°08'35"; then west to 29°19'51", 83°08'45"; then southwesterly to 29°19'40", 83°09'12"; then south to 29°19'30", 83°09'12"; then northeasterly to 29°19'39", 83°08'53"; then southeasterly to 29°19'25", 83°08'41"; then southwesterly to 29°19'20", 83°08'49"; then southeasterly to 29°19'14", 83°08'41"; then northeasterly along the bank of the Suwannee River to and along the bank of Demory Creek to 29°19'45", 83°08'10"; then north to the point of beginning.

d. Cedar Key unincorporated airport area, Levy County - Begin at 29°08'26", 83°03'17"; then south to 29°07'34", 83°03'17", then northeasterly to 29°07'48", 83°02'33"; beginning northerly and tracing the corporate limit of Cedar Key to the point of beginning.

e. Cedar Key unincorporated causeway area, Levy County - That portion of Section 20 lying within 1000 feet of the centerline of SR 24 and lying north of a line 500 feet northeast of and parallel to the northern corporate limit of Cedar Key.

f. Cedar Key channel, Levy County - Begin at 29°08'58", 83°01'17"; then west to 29°08'58", 83°01'24"; then south to 29°08'05", 83°01'26"; then northeasterly to 29°08'08", 83°01'17"; then northerly to the point of beginning.

g. Keaton Beach navigation channel, Taylor County - Begin at 29°49'02", 83°35'30"; then west to 29°49'02", 83°37'58"; then south to 29°48'45", 83°37'58"; then east to 29°48'45", 83°35'30"; then north to the point of beginning.

h. Keaton Beach local channels, Taylor County - Begin at 29°49'01", 83°35'38"; then southeast to 29°48'55", 83°35'15"; then northeast to 29°48'59", 83°35'13"; then northwest to 29°49'06", 83°35'36"; then southwest to the point of beginning. (10-29-86)

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|---|------------------------|
| 5. Biscayne Bay (Cape Florida) | Dade/Monroe |
| 6. Biscayne Bay (Card Sound) (12-1-82) | Dade/Monroe |
| 7. Boca Ciega Bay | Pinellas |
| 8. Cape Haze | Charlotte/Lee |
| 9. Cape Romano-Ten Thousand Islands | Collier |
| 10. Cockroach Bay | Hillsborough |
| 11. Coupon Bight | Monroe |
| 12. Estero Bay (as mod. 4-19-88) | Lee |
| 13. Fort Clinch State Park | Nassau |
| 14. Fort Pickens State Park | Santa Rosa
Escambia |

- | | |
|---|--------------------------------|
| 15. Gasparilla Sound-Charlotte Harbor (as mod. 10-4-90) | Charlotte/Lee |
| 16. Guana River Marsh (8-8-94) | St. Johns |
| 17. Indian River Malabar to Vero | Beach Brevard
Indian River |
| 18. Indian River Malabar to Vero Beach (additions), except those portions of Sebastian Creek and Turkey Creek upstream of U.S. Highway 1 (1/26/88) | Brevard
Indian River |
| 19. Indian River Vero Beach to Ft. Pierce (as mod. 10-4-90) | Indian River
St. Lucie |
| 20. Jensen Beach to Jupiter Inlet (as mod. 10-4-90) | Martin/Palm
Beach/St. Lucie |
| 21. Lake Jackson | Leon |
| 22. Lemon Bay (4-19-88; as mod. 10-4-90) | Charlotte
Sarasota |
| 23. Lignumvitae Key | Monroe |
| 24. Loxahatchee River-Lake Worth Creek (as mod. 8-8-94) | Martin
Palm Beach |
| 25. Matlacha Pass | Lee |
| 26. Mosquito Lagoon | Volusia
Brevard |
| 27. Nassau River-St. Johns River Marshes | Nassau/Duval |
| 28. North Fork, St. Lucie | St. Lucie
Martin |
| 29. Oklawaha River (10-4-90) | Marion |
| 30. Pellicer Creek | St. Johns
Flagler |
| 31. Pine Island Sound | Lee |
| 32. Pinellas County | Pinellas |
| 33. Rainbow Springs (4-19-88) | Marion |
| 34. Rocky Bayou State Park | Okaloosa |
| 35. Rookery Bay (12-1-82; as mod. 11-24-87, 7-11-91) | Collier |
| 36. St. Andrews State Park | Bay |
| 37. St. Joseph Bay | Gulf |
| 38. St. Martins Marsh (as mod. 8-8-94) | Citrus |
| 39. Terra Ceia (5-22-86) | Manatee |
| 40. Tomoka Marsh | Volusia/Flagler |

41. Wekiva River (12-1-82)

Lake/Orange
Seminole

42. Wekiva River Addition, except that portion of the St. Johns River between Interstate Highway 4 and the Wekiva River confluence (12-28-88)

Lake/Seminole
Volusia

43. Yellow River Marsh

Santa Rosa

(I) Special Waters

1. Apalachicola River except for the following areas:

a. From a point 50 feet north of the northern boundary of the Jackson County Port Authority Slip, and including the slip itself, downstream to a point about four-tenths of a mile downstream, and specifically identified by navigation mile 103 on the 1982 U.S. Geological Survey Quadrangle Map of Sneads, Florida; and

b. From 850 feet downstream of the U.S. Army Corps of Engineers Blountstown Navigation Gage in Calhoun County, north to a point approximately 2,700 feet upstream of the Gage, and specifically identified by the line passing through 30°25'45" N. Lat. and 85°1'35" W. Long.; and 30°25'38" N. Lat. and 85°1'20" W. Long. (12-11-84).

2. Aucilla River

3. Blackwater River

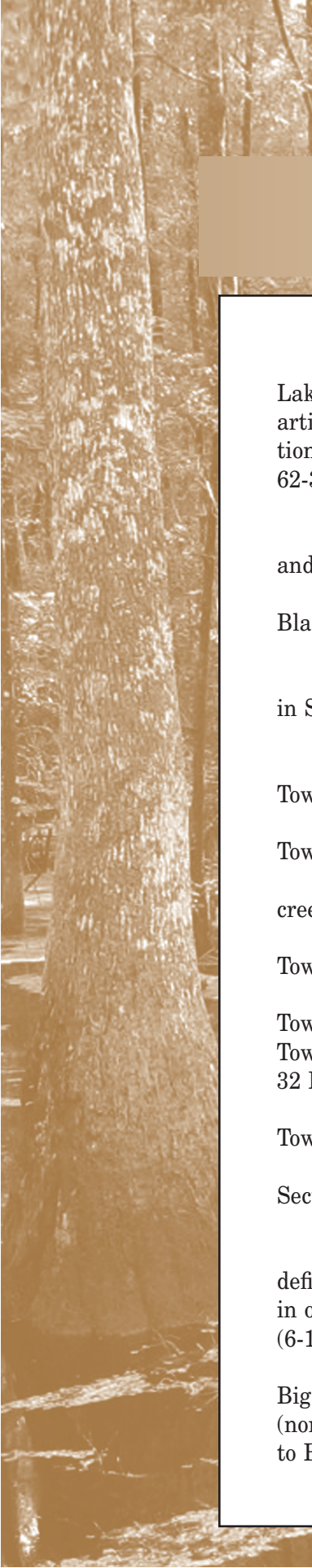
4. Butler Chain of Lakes - consisting of Lake Butler, Lake Down, Wauseon Bay, Lake Louise, Lake Palmer (also known as Lake Isleworth), Lake Chase, Lake Tibet, Lake Sheen, Pocket Lake, Fish Lake, and the waterways which connect these lakes (3-1-84), and Lake Blanche and its connecting waterway (2-18-87).

5. Chassahowitzka River System including: Potter, Salt, Baird, Johnson, Crawford, Ryle, and Stevenson Creeks, and other tributaries to the Chassahowitzka River; but excluding artificial waterbodies, defined as any waterbody created by dredging, or excavation, or by the filling in of its boundaries, including canals as defined in Rule 62-312.020(3), F.A.C. (1-5-93).

6. Chipola River

7. Choctawhatchee River

8. Clermont Chain of Lakes - consisting of Lake Louisa (also known as Lake Louise), Lake Susan, Lake Crescent, Lake Minnehaha, Lake Winona, Lake Palat-lakaha, Lake Hiawatha, Lake Minneola, Lake Wilson, Lake Cook, Cherry Lake, Lake Hunt, Lake Stewart, Lake Lucy, Lake Emma, and the waterways that interconnect Clermont Chain of Lakes (5-28-86).



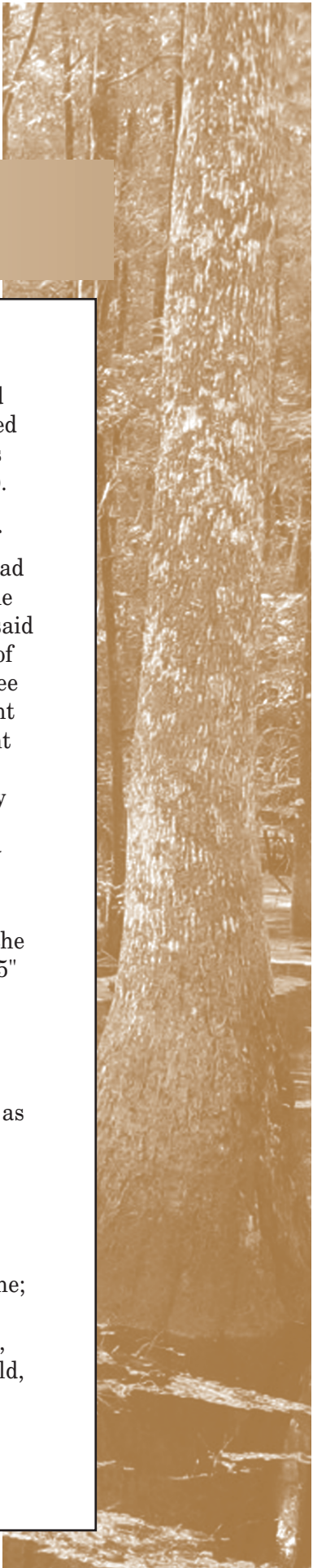
9. Crooked Lake in Polk County including the area known as Little Crooked Lake and the connecting waterway between these waterbodies; less however, artificial waterbodies, defined as any waterbody created by dredging, or excavation, or by the filling in of its boundaries, including canals as defined in Section 62-312.020(3), F.A.C. (4-9-87).

10. Crystal River, including Kings Bay (2-1-83).

11. Econlockhatchee River System - consisting of the Econlockhatchee River and the following tributaries:

- a.** Little Econlockhatchee River upstream to Michaels Dam in Jay Blanchard Park; and
- b.** Mills Creek upstream to Mills Lake; and
- c.** Southerly branch of Mills Creek upstream to Fort Christmas Road in Section 2, Township 22 South, Range 32 East; and
- d.** Silcox Branch (branch of Mills Creek) upstream to Lake Pickett; and
- e.** Long Branch upstream to the eastern section line of Section 34, Township 22 South, Range 32 East; and
- f.** Hart Branch upstream to the Old Railroad Grade in Section 18, Township 23 South, Range 32 East; and
- g.** Cowpen Branch upstream to the southernmost bifurcation of the creek in Section 20, Township 23 South, Range 32 East; and
- h.** Green Branch upstream to the western section line of Section 29, Township 23 South, Range 32 East; and
- i.** Turkey Creek upstream to Weewahootee Road in Section 5, Township 24 South, Range 32 East, and to the west section lines of Section 5, Township 24 South, Range 32 East, and Section 32, Township 23 South, Range 32 East; and
- j.** Little Creek upstream to the eastern section line of Section 22, Township 24 South, Range 32 East; and
- k.** Fourmile Creek upstream to the southern line of the NE1/4 of Section 28, Township 24 South, Range 32 East; and
- i.** Econlockhatchee River Swamp upstream to State Road 532;
- m.** but excluding all other tributaries and artificial water bodies, defined as any water body created by dredging, or excavation, or by the filling in of its boundaries, including canals as defined in Rule 62-312.020(3), F.A.C. (6-18-92).

12. Estero Bay Tributaries including: Hendry Creek to State Road 865, Big Bayou, Mullock Creek to U.S. 41 (State Road 45); Mud Creek; Estero River (north and south branches) to I-75 Halfway Creek to State Road 41; Spring Creek to Business Route 41 (State Road 887, old State Road 41), and the unnamed



south branch of Spring Creek in Sections 20 and 29; Imperial River to the eastern line of Section 31, Range 26 East, Township 47 South, Oak Creek, and Leitner Creek; except for Tenmile Canal and any artificial water bodies, defined as any water body created by dredging, or excavation, or by the filling in of its boundaries, including canals as defined in Rule 62-312.020(3), F.A.C. (10-4-90).

13. Florida Keys, including channels as defined in Rule 62-312.020(4), F.A.C., and described as follows: Commence at the northeasterly most point of Palo Alto Key and run due north to a point at the center of the channel of Broad Creek as the point of beginning, thence due east to the eastern boundary of the jurisdictional waters of the State of Florida, thence meander southerly along said eastern boundary to a point due south of the westernmost point of the island of Key West; thence westerly, northerly and easterly along the arc of a curve three leagues distant from the westernmost point of the island of Key West to a point due north of the island of Key West; thence northeasterly three leagues distant from the most northerly land of the Florida Keys to the intersection with the boundary of the Everglades National Park; thence southeasterly, northeasterly and northwesterly along the boundary of the Everglades National Park to the intersection with the Dade County - Monroe County line; thence northeasterly and easterly along the Dade County - Monroe County line to the point of beginning; less however, three areas:

a. Key West Sewage Outfall, being a circle 150 feet in radius from the point of discharge located at approximately 24°32'13" N. Latitude and 81°48'55" W. Longitude; and

b. Stock Island Power Plant Mixing Zone; being a circle 150 feet in radius from the end of the power plant discharge canal; and

c. Artificial waterbodies, defined as any waterbody created by dredging, or excavation, or by the filling in of its boundaries, including canals as defined in Rule 62-312.020(3), F.A.C. (5-8-85).

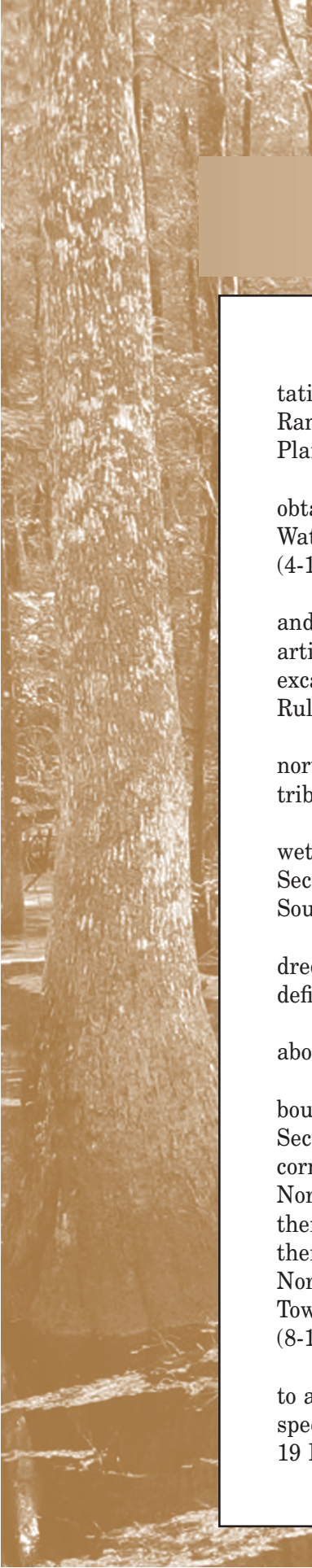
14. Hillsborough River from Fletcher Avenue (State Road 582A) in Hillsborough County upstream to the Withlacoochee River Overflow in Pasco County, and the following tributaries:

a. Crystal Springs; and

b. Blackwater Creek westward of the Hillsborough - Polk County line; and

c. Cypress Creek, Thirteenmile Run eastward of Livingston Avenue, and Big Cypress Swamp upstream to and including the Cypress Creek Wellfield, as delineated in the maps entitled "Cypress Creek OFW Boundary Maps," incorporated herein by reference; and

d. Trout Creek upstream to Bruce B. Downs Boulevard (State Road 581);



e. but excluding all other tributaries as well as the proposed transportation corridor, which crosses Cypress Creek in Section 21, Township 27 South, Range 19 East, as identified in the Adopted 2010 Long Range Transportation Plan of the Metropolitan Planning Organization, dated May 26, 1993.

f. A copy of the maps referenced in subparagraph c. above may be obtained from the Department of Environmental Protection, Bureau of Surface Water Management, 2600 Blair Stone Road, Tallahassee, Florida 32399-2400 (4-12-95).

15. Homosassa River System including: Halls River, Turtle, Otter, Battle, and Price Creeks, and other tributaries to the Homosassa River; but excluding artificial waterbodies, defined as any waterbody created by dredging, or excavation, or by the filling in of its boundaries, including canals as defined in Rule 62-312.020(3), F.A.C. (1-5-93).

16. Kingsley Lake and Black Creek (North Fork) downstream to the northern line of Section 23, Township 5 South, Range 23 East, including all tributaries along this segment of Black Creek (11-8-90).

17. Lake Disston – Specifically including Lake Disston plus contiguous wetlands within the following areas: Township 14 South, Range 29 East, Sections 21, 20, 19, 18, 17, 16, 9, 8 and 7 in Flagler County; and Township 14 South, Range 28 East, Sections 13 and 24 in Volusia County except:

a. artificial water bodies defined as any water body created by dredging, or excavation, or by the filling in of its boundaries, including canals as defined in Rule 62-312.020(3), F.A.C.; and

b. any natural water bodies connected by artificial water bodies to the above-described system (4-4-01).

18. Lake Powell, Phillips Inlet, and all tributaries to Lake Powell as bounded by the following described line: Begin at the Northwest corner of Section 26, Township 2 South, Range 18 West; thence East to the Northwest corner of Section 29, Township 2 South, Range 17 West; thence South to the Northwest corner of the SW1/4 of Section 29, Township 2 South, Range 17 West; thence East to the West line of Section 27, Township 2 South, Range 17 West, thence South to the mean high water line of the Gulf of Mexico; thence meander Northwest along the mean high water line to the West line of Section 35, Township 2 South, Range 18 West; thence North to the point of beginning (8-18-91).

19. Lemon Bay Estuarine System - from Boca Grande Causeway northward to approximately two thousand feet northwest of the mouth of Alligator Creek, specifically identified as the East line of Section 31, Township 39 South, Range 19 East, including Placida Harbor, Gasparilla Pass, Kettle Harbor, Bocilla

Lagoon, Bocilla Pass, Knight Pass, Stump Pass, Lemon Bay, Buck Creek upstream to County Road 775, Oyster Creek upstream to County Road 775, Ainger (Rock) Creek upstream to County Road 775, and Godfrey (Godfried, Gottfried) Creek upstream to County Road 775; but excluding:

a. Alligator Creek, Forked Creek, Lemon Creek, and all other tributaries; and

b. Artificial waterbodies, defined as any waterbody created by dredging, or excavation, or by the filling in of its boundaries, including canals as defined in Section 62-312.020(3), F.A.C. (4-29-86).

20. Little Manatee River - from its mouth to the western crossing of the river by S.R. 674, including Hayes, Mill and Bolster Bayous, but excluding South Fork, Ruskin Inlet and all other tributaries (10-1-82).

21. Lochloosa Lake (including Little Lochloosa Lake, Lochloosa Lake Right Arm, and Lochloosa Creek upstream to County Road 20A) (12-15-87).

22. Myakka River between State Road 771 (El Jobean Bridge) and the Charlotte - Sarasota County line, except for artificial waterbodies, defined as any waterbody created by dredging, or excavation, or by the filling in of its boundaries, including canals as defined in Rule 62-312.020(3), F.A.C. (4-19-88).

23. Ochlockonee River

24. Oklawaha River between the eastern line of Section 36, Township 15 South, Range 23 East, and Eureka Lock and Dam, including Turkey Creek, Strouds Creek, Dead River (the water body so named near Gores Landing), Cedar Creek, and Fish Creek, but excluding Marshall Swamp, the Dead River (the water body so named exiting Marshall Swamp), and all other tributaries (12-20-89).

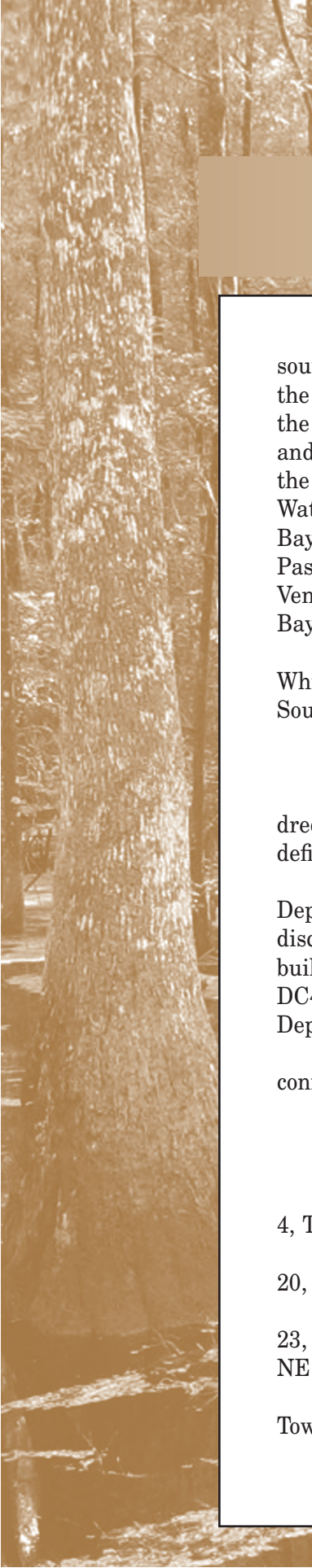
25. Orange Lake up to the U.S. Highway 301 bridge, the River Styx up to Camps Canal, and Cross Creek (4-9-87).

26. Perdido River

27. Rainbow River, including Indian Creek, but excluding all other tributaries (1-17-85).

28. Santa Fe River System - consisting of the Santa Fe River, Lake Santa Fe, Little Lake Santa Fe, Santa Fe Swamp, Olustee Creek, and the Ichetucknee River below S.R. 27, but excluding all other tributaries (8-16-84).

29. Sarasota Bay estuarine system - generally extending from Venice north to the Hillsborough - Manatee County line and specifically described as follows: Commence at the northern tip of Anna Maria Island and follow a line running to the southern tip of Egmont Key until intersecting the boundary between Hillsborough and Manatee Counties; thence run easterly and northeasterly along the county boundary until intersecting the Intracoastal Waterway; thence proceed



southerly until intersecting a line between the southern tip of Mullet Key and the western tip of Snead Island; thence proceed southeasterly along said line to the western tip of Snead Island; thence to De Soto Point; and thence westerly and southerly including all of the Sarasota Bay estuarine system southward to the northernmost U.S. Highway Business Route 41 bridge over the Intracoastal Waterway in Venice, including Anna Maria Sound, Passage Key Inlet, Perico Bayou, Palma Sola Bay, Longboat Pass, Sarasota Bay, New Pass, Big Sarasota Pass, Roberts Bay, Little Sarasota Bay, Dryman Bay, Blackburn Bay, Lyons Bay, Venice Inlet, Dona Bay upstream to the U.S. Highway 41 bridge, and Roberts Bay upstream to the U.S. Highway 41 bridge; less however, the following areas:

a. All tributaries, including Palma Sola Creek, Bowlees Creek, Whitaker Bayou, Hudson Bayou, Phillippi Creek, Catfish Creek, North Creek, South Creek, Shakett Creek, Curry Creek; and

b. A circle 1500 feet in radius from the mouth of Whitaker Bayou; and

c. A circle 1500 feet in radius from the mouth of Phillippi Creek; and

d. Artificial waterbodies, defined as any waterbody created by dredging, or excavation, or by the filling in of its boundaries, including canals as defined in Rule 62-312.020(3), F.A.C. (4-29-86).

e. The designation shall not affect the consideration by the Department of an application for Site Specific Alternative Criteria for the discharge of the City of Bradenton's Municipal Sewage Treatment Plant being built under Department of Environmental Protection Construction Permit No. DC41-81224. The application will be processed under the regulations of the Department existing on February 18, 1986.

30. St. Marks River - except that part between Rattlesnake Branch and the confluence of the St. Marks and Wakulla Rivers.

31. Shoal River

32. Silver River (Marion County) (4-9-87)

33. Spruce Creek upstream to State Road 40A, and the following tributaries:

a. Unnamed tributary upstream to the Southern section line of Section 4, Township 17 South, Range 33 East; and

b. Unnamed tributary upstream to the Northern section line of Section 20, Township 16 South, Range 33 East; and

c. Unnamed tributary upstream to the Northern section line of Section 23, Township 16 South, Range 32 East (right fork), and to the Western line of the NE 1/4 of Section 27, Township 16 South, Range 32 East; and

d. Unnamed tributary upstream to the Western section line Section 35, Township 16 South, Range 32 East; and

e. Strickland Bay; and Turnbull Bay and Turnbull Creek upstream to the Northwestern section line of Section 43, Township 17 South, Range 33 East;

f. and Murray Creek upstream to the Town of Ponce Inlet municipal limits; and

g. waters east from U.S. Highway 1 following the northerly and southerly municipal limits of the Town of Ponce Inlet to its intersection with the western boundary of the Intracoastal Waterway and including Rose Bay upstream to Nova Road (State Road 5A);

h. but excluding all other tributaries (7-11-91).

34. Suwannee River

35. Tomoka River upstream to Interstate Highway 4; and the following tributaries:

a. Priest Branch upstream to the Western and Southern section lines of Section 6, Township 15 South, Range 32 East; and

b. Little Tomoka River and its tributaries as bounded by the following described line: Begin at the Southwestern point of confluence between the Tomoka River and the Little Tomoka River; thence meander upstream along the Little Tomoka River to the Western section line of Section 25, Township 14 South, Range 31 East; thence South to the Southwest corner of Section 25, Township 14 South, Range 31 East; thence West to the Southwest corner of Section 28, Township 14 South, Range 31 East; thence North to the Northwest corner of Section 28, Township 14 South, Range 31 East; thence East to the West section line of Section 25, Township 14 South, Range 31 East; thence South to the Northern shore of the Little Tomoka River; thence meander easterly to the confluence with the Tomoka River; thence South to the point of beginning; and

c. Groover Branch upstream to the Northern section line of Section 24, Township 14 South, Range 31 East; and

d. Misner's Branch upstream to the Northern section line of Section 29, Township 14 South, Range 32 East; and


e. Thompson Creek and Strickland Creek upstream to the Northern section line of Section 40, Township 14 South, Range 32 East;

f. but excluding all other tributaries (7-11-91).

36. Wacissa River

37. Wakulla River

38. Weekiwachee Riverine and Spring System – consisting of the Weekiwachee Springs and River, Mud Springs and River, Jenkins Creek, Salt Spring and Creek, the Weekiwachee Swamp, and all tributaries and contiguous wetlands within the following sections: Township 23 South, Range 17 East, Sections 2-9; Township 22 South, Range 17 East, Sections 20, 21, and 27-35, together with



that portion of Section 19 that is southerly of CR 550 (Cortez Blvd.); Township 22 South, Range 16 East, Sections 25 and 36; including any and all waters, and wetlands contiguous to the tributaries located southerly of the north line of Section 25, Township 22 South, Range 16 East and westerly projection thereof and easterly of the west line of Section 36, Township 22 South, Range 16 East and northerly projection thereof, and easterly of a line through latitude 28° 32' 52" North, longitude 82° 39' 23" West, and through latitude 28° 31' 47" North, longitude 82° 39' 52" West (North American Datum of 1983). This OFW excludes artificial waters defined as any water body created by dredging, or excavation, or by the filling in of its boundaries, including canals as defined in subsection 62-312.020(3), F.A.C. (12-11-03).

39. Wekiva River System - consisting of the Wekiva River, Rock Springs Run and its tributary Sulphur Spring, the Little Wekiva River south to its confluence with the southernmost run of Sanlando Springs, Black Water Creek and Swamp (up to Lake Dorr), Lake Norris, Seminole Springs and Creek, Seminole Swamp, Sulphur Spring and Run, and Messant Spring and Creek, but excluding all other tributaries (12-28-88).

40. Wiggins Pass Estuarine Area and the Cocohatchee River System - the estuarine and marine waters from the Lee/Collier County line southward through and including Water Turkey Bay to 50 feet north of S.R. 846 (Bluebill Ave.) 1995 right-of-way; the Cocohatchee River downstream from 50 feet West of U.S. 41 1995 right-of-way; and Wiggins Pass; but excluding maintenance dredging as authorized by Section 403.813(2)(f), F.S., in the following areas:

- a)** Wiggins Pass from the Gulf of Mexico eastward for 200 linear feet (as measured from the southwestern point of Little Hickory Island);
- b)** the channel (South Channel, Vanderbilt Channel), that connects Wiggins Pass with Vanderbilt Lagoon through Water Turkey Bay; and
- c)** East Channel (for purposes of this designation described as the East Channel from its confluence with South Channel to Vanderbilt Drive, including all waters surrounding the spoil islands know as Conklin Point and Island Marina) (7-16-96).

41. Withlacoochee Riverine and Lake System, including:

- a.** The Withlacoochee River downstream of State Road 33 in Lake County to eastern section line of Section 33, Township 16 South, Range 18 East; and
- b.** The lower Withlacoochee River, from the Gulf of Mexico to the Cross Florida Barge Canal By-Pass Spillway, but not including that portion of the river between Lake Rousseau and the Cross Florida Barge Canal; and
- c.** The Little Withlacoochee River; and

- d. Jumper Creek downstream of State Road 35, including Jumper Creek Swamp; and
 - e. Gum Springs, Gum Slough (Dead River), and Gum Swamp; and
 - f. Lake Panasoffkee, Outlet River, Little Jones Creek, Big Jones Creek, and Rutland Creek; and
 - g. Shady (Brook, Panasoffkee) Creek downstream of State Road 468, including Warm Spring Hammock; and
 - h. Lake Tsala Apopka;
 - i. but excluding all other tributaries and artificial waterbodies, defined as any waterbody created by dredging, or excavation, or by the filling in of its boundaries, including canals as defined in Rule 62-312.020(3), F.A.C. (4-10-89).
- (j) Waters within Rivers Designated Under the Florida Scenic and Wild Rivers Program, federal Wild and Scenic Rivers Act of 1968 as amended, and Myakka River Wild and Scenic Designation and Preservation Act

River Segment County

- | | |
|---|----------------------|
| 1. Loxahatchee National Wild and Scenic River Segment (5-14-86) | Martin
Palm Beach |
| 2. Myakka Florida Wild and Scenic River Segment (5-14-86) | Sarasota |
| 3. Wekiva Florida Scenic and Wild River Segment (12-1-82) | Lake/Seminole |

(k) Waters within National Preserves

National Preserve

County

- | | |
|--|------------------------|
| 1. Big Cypress National Preserve as mod. 5-14-86, 4-19-88, 8-8-94) | Collier/Dade
Monroe |
| 2. Timucuan Ecological and Historic Preserve (8-8-94) | Duval |

(i) Waters within National Marine Sanctuaries

Marine Sanctuary

County

- | | |
|-----------------------|--------|
| 1. Key Largo | Monroe |
| 2. Looe Key (12-1-82) | Monroe |

(m) Waters within National Estuarine Research Reserves

National Estuarine Research Reserve

County

- | | |
|---|------------------|
| 1. Apalachicola (12-1-82; as mod. 5-14-86, 4-19-88) | Franklin
Gulf |
| 2. Rookery Bay (as mod. 5-14-86, 4-19-88) | Collier |

(n) Certain Waters within the Boundaries of the National Forests





National Forest	County
1. Apalachicola	Wakulla/Leon Franklin
a. Sopchoppy River (9-1-82)	
b. Big Dismal Sink (9-1-82)	
2. Ocala	Putnam Marion Lake
a. Alexander Springs (9-1-82)	
b. Alexander Springs Creek (9-1-82)	
c. Juniper Springs (9-1-82)	
d. Juniper Creek (9-1-82)	
e. Salt Springs (9-1-82)	
f. Salt Springs Run (9-1-82)	
g. Lake Dorr (9-1-82)	
h. Lake Kerr (9-1-82)	
i. Little Lake Kerr (9-1-82)	
3. Osceola	Baker/Columbia
a. Deep Creek (9-1-82)	
b. Robinson Creek (9-1-82)	
c. Middle Prong - St. Marys River (9-1-82)	
d. Ocean Pond (9-1-82)	
e. Falling Creek (9-1-82)	
(0). Outstanding National Resource Waters:	
a. The Commission designates the following waters as Outstanding National Resource Waters:	
1. Biscayne National Park, as described in the document entitled "Outstanding National Resource Waters Boundary Description and Map for Biscayne National Park", dated June 15, 1989, herein adopted by reference.	
2. Everglades National Park, as described in the document entitled "Outstanding National Resource Waters Boundary Description and Map for Everglades National Park", dated June 15, 1989, herein adopted by reference.	

Appendix 5 Wetland Types

COMMON WETLAND TYPES *

Bay Heads
Bogs
Bottomland Hardwood Swamps
Cypress Strand Swamps
Cypress Domes
Cypress Ponds
Flag Ponds
Freshwater Tidal Swamps
Grass Ponds
Gum Ponds
Gum Swamps
Hydric Hammock
Pitcher Plant Bogs
River & Creek Floodplain Swamps
Sawgrass Marshes
Seasonal Marshes
Seepage Slopes
Seepage Swamps
Sloughs
Strand Swamps
Wet Prairie
Willow Head

***NOTE:** For purposes of BMP implementation, Pine Flatwoods is not considered a wetland although sites of this nature may exhibit some of the same characteristics of the wetlands listed above.

Appendix 6 Seeding Rates for Vegetative Stabilization Roads, Stream Crossings & Landings

Planting Dates and Seeding Rates		
Seed	Planting Dates	Seeding Rates per acre
		Broadcast (lb)
Aeschynomene	Mar. 30 - Jun. 30	6 - 8 (dehulled)
Pensacola Bahiagrass	Feb. 15 - Aug. 15	15 - 20
Common Bermudagrass	Feb. 15 - July 31	8 - 10
Arrowleaf Clover	Oct. 1 - Nov. 15	8 - 10
Crimson Clover	Oct. 1 - Nov. 15	20 - 26
Hairy Indigo	Apr. 1 - Jun. 30	6 - 8
Browntop Millet	Feb. 15 - Aug 15	5 - 10
Italian Ryegrass	Oct. 1 - Nov. 15	20-30

Source: E.E. Whitty and C.G. Chambliss, IFAS SSAGR 150 March 2005

Fertilizer Application	
Fertilizer	Lbs./Ac.
10-10-10	800
Limestone*	2000
<p>Source: Carl DeFazio, Soil Conservation Service, 1977.</p> <p>*Where needed</p> <p>Example: Multiply appropriate acreage value of road by the recommended seed mixture or fertilizer in Lbs./Ac.</p> <p>e.g.: A section of 12 ft. wide by 750 ft. long road would require 4.2 lbs. of Pensacola Bahiagrass (0.21ac. X 20 lbs./ac.)</p>	

Road Acreage Table					
Road Length in Feet	Road Width in Feet				
	10	12	14	18	25
50	0.01	0.01	0.02	0.02	0.03
100	0.02	0.03	0.03	0.04	0.06
250	0.06	0.07	0.08	0.10	0.15
500	0.12	0.14	0.16	0.21	0.29
750	0.17	0.21	0.24	0.31	0.44
1000	0.24	0.28	0.32	0.41	0.58
1500	0.34	0.41	0.48	0.62	0.87
2000	0.48	0.56	0.64	0.83	1.15
5000	1.15	1.38	1.61	2.07	2.87
5280	1.21	1.45	1.70	2.18	3.04

Source: U.S.D.A. Forest Service

Appendix 7 Drainage Structures

Recommended Spacing for Drainage Structures

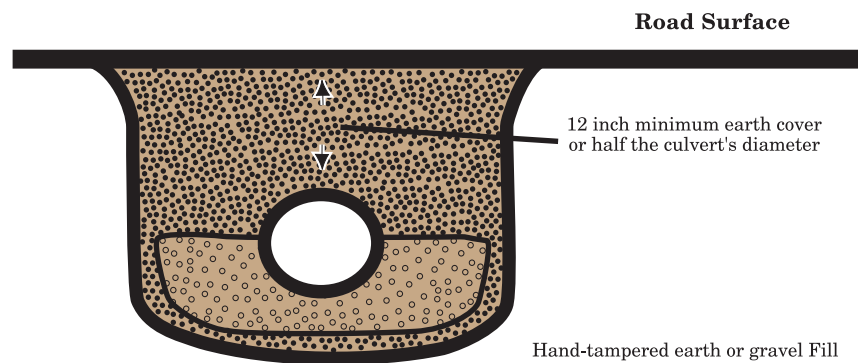
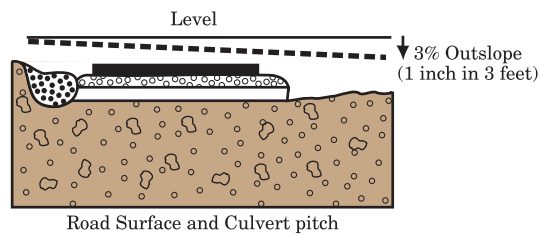
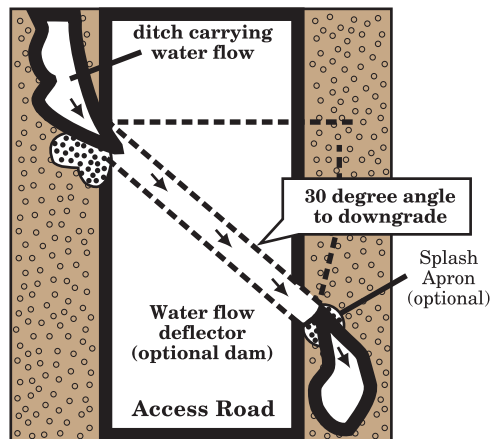
Drainage Systems	Site Sensitivity Class					
	A1	A2	A3	A4	A5	A6
Permanent Roads						
Culverts and Cross Ditches	None	200	150	125	100	75
Water Turnouts	200	120	100	75	50	40
Broad Base Dips	None	180	140	125	120	110
Firelines, Skid Trails & Temporary Roads						
Water Bars	250	135	80	60	45	30

Drainage Systems	Site Sensitivity Class					
	B1	B2	B3	B4	B5	B6
Permanent Roads						
Culverts and Cross Ditches	None	200	150	125	100	75
Water Turnouts	200	120	100	75	50	40
Broad Base Dips	None	180	140	125	120	110
Firelines, Skid Trails & Temporary Roads						
Water Bars	250	135	80	60	45	30

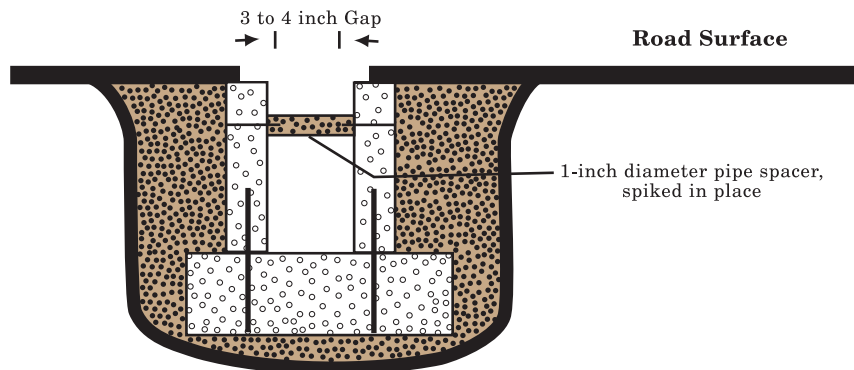
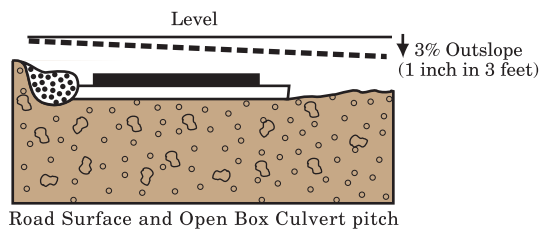
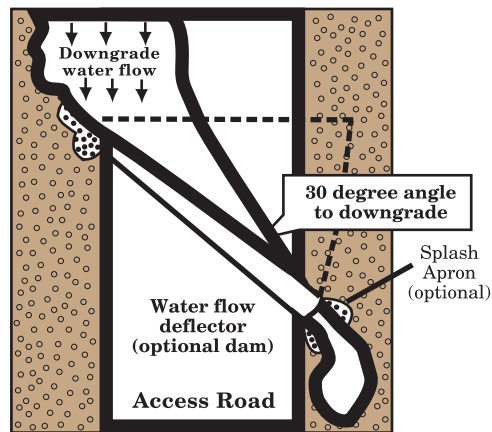
Drainage Systems	Site Sensitivity Class					
	C1	C2	C3	C4	C5	C6
Permanent Roads						
Culverts and Cross Ditches	None	200	150	125	100	75
Water Turnouts	200	120	100	75	50	40
Broad Base Dips	None	180	140	125	120	110
Firelines, Skid Trails & Temporary Roads						
Water Bars	250	135	80	60	45	30

Appendix 8 Access Roads

Cross-drain Culvert

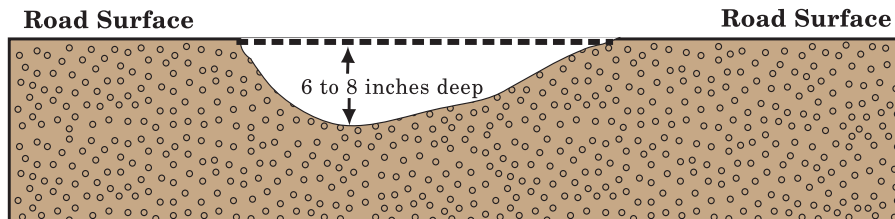
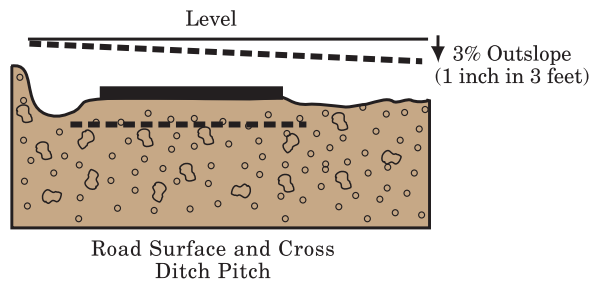
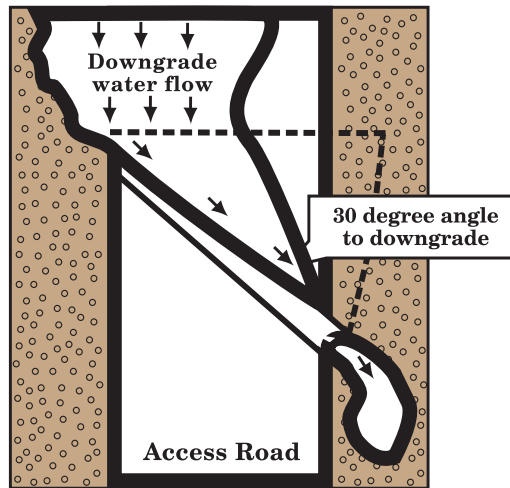


Open Box Culvert

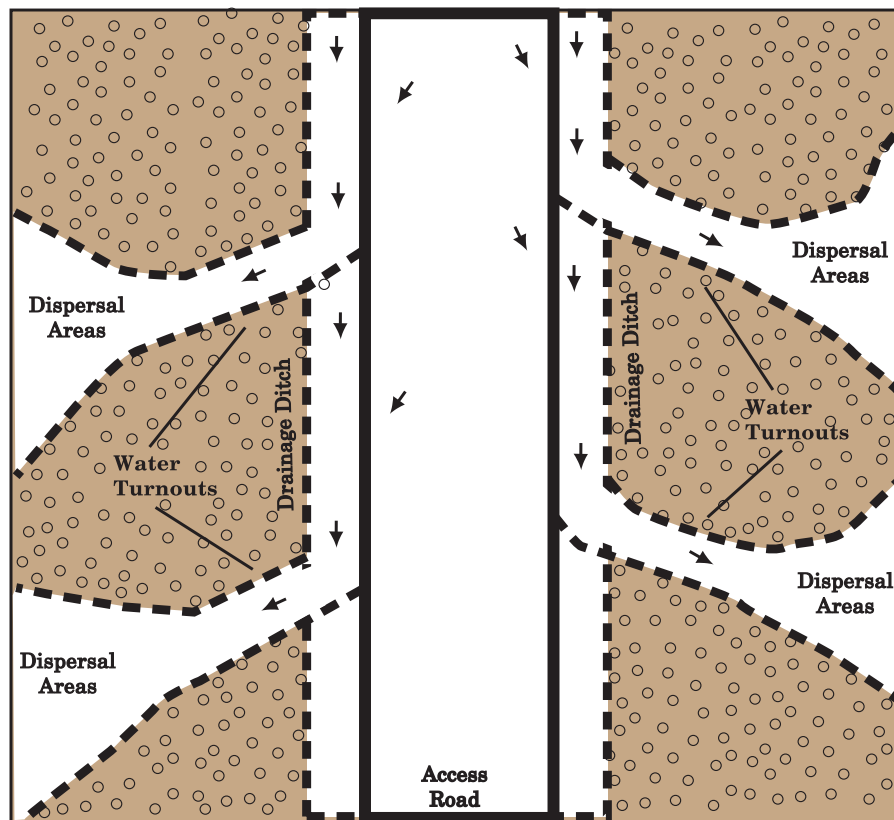


A pair of 3 X 8 planks set on a base 3 X 12 to form an Open Box Culvert

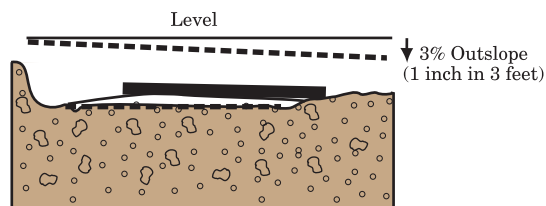
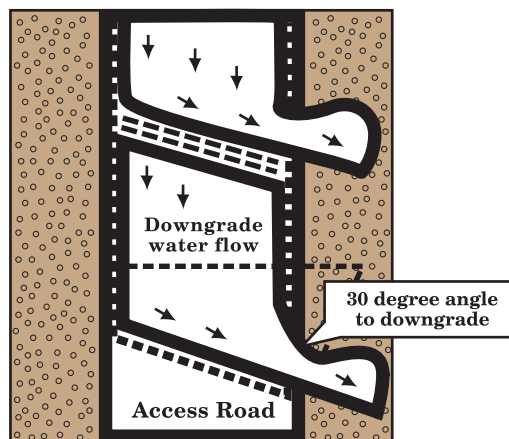
Cross Ditch



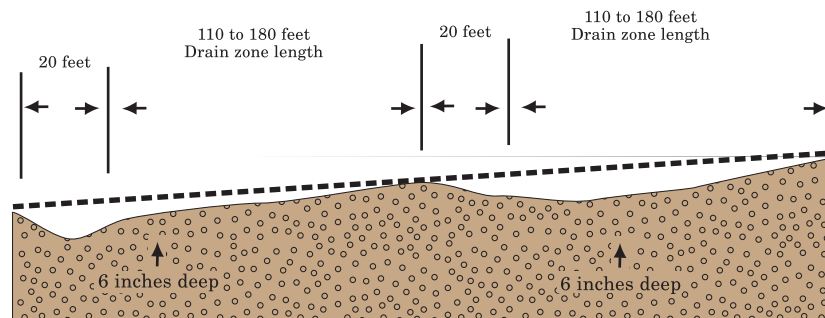
Water Turnouts



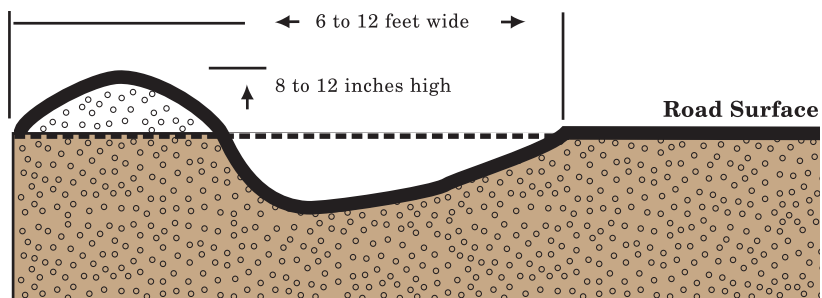
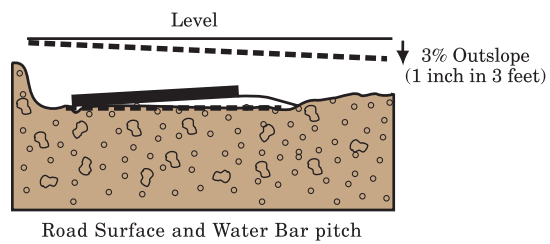
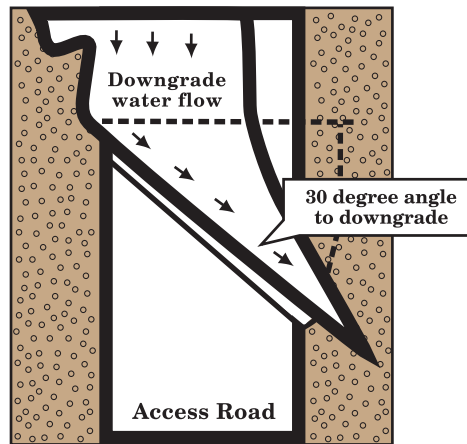
Broad Base Dip



Road Surface and Broad Base Dip pitch



Water Bar





Appendix 9 Culvert Sizing

Stream Size/Site Condition Method

Procedure:

- 1)** Measure bottom channel width (W) and channel depth (D) from bottom to top of bank.
- 2)** Determine whether slope upstream is flat, moderately or extremely hilly and refer to appropriate Table (A-C) on the following pages.

For areas with no perceptible change in elevation upstream of the culvert area, choose (FLAT) slope.

In moderately hilly areas, such as a rise of two (2) feet for every 100 feet of run, choose Moderate (MOD) slope.

In extremely hilly areas, with an approximate rise of ten (10) feet or more for every 100 feet of run, choose critical (CRIT) slope.

- 3)** Read corresponding culvert size based on width and depth of stream channel.

Assumptions:

Roughness factors:

n = 0.030 for channel

n = 0.024 for CMP culvert

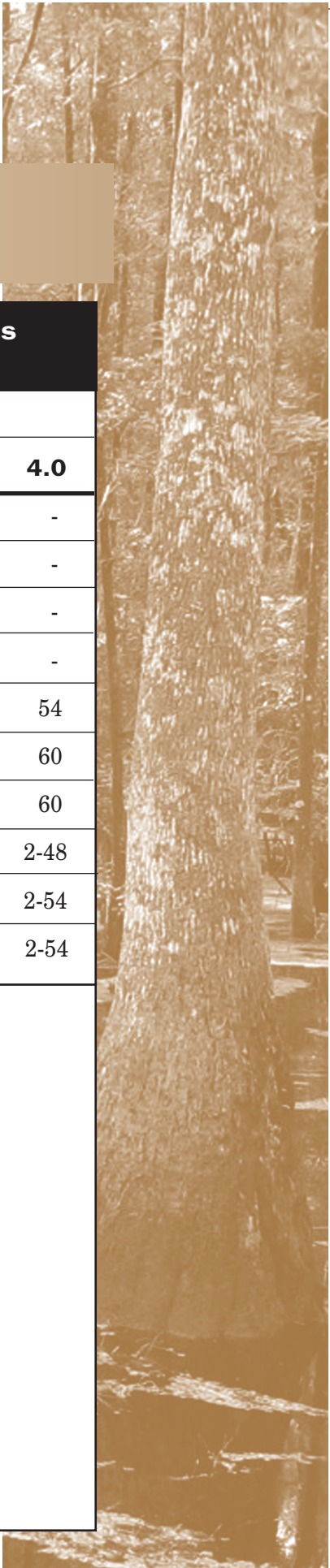
Slope:

FLAT = 0.05%

MOD = 2.00%

CRIT = 10.00 %

Calculations assume corrugated Metal Pipes (CMP) which project slightly out of fill.



**Table A: Culvert Diameters (Inches) for Flat Conditions
Slopes Upstream 0-0.05%**

Stream Width (Ft.)	Stream Depth (Ft.)							
	0.5	1.0	1.5	2.0	2.5	3.0	3.5	4.0
1	12	12	-	-	-	-	-	-
2	12	12	18	24	-	-	-	-
3	12	15	18	24	30	36	-	-
4	12	18	21	27	33	36	42	-
5	12	18	21	30	36	42	48	54
6	12	21	24	33	42	42	54	60
7	15	21	24	36	42	48	60	60
8	15	24	30	36	42	54	60	2-48
9	15	24	33	42	48	54	60	2-54
10	18	27	36	42	48	60	2-42	2-54

**Table B: Culvert Diameters (Inches) for Moderate Hilly Conditions
Slopes Upstream 2-10%**

Stream Width (Ft.)	Stream Depth (Ft.)							
	0.5	1.0	1.5	2.0	2.5	3.0	3.5	4.0
1	12	21	-	-	-	-	-	-
2	15	27	36	48	-	-	-	-
3	18	33	42	54/2-42	54	3-54/4-42	-	-
4	21	36	48	2-48/3-36	3-48/4-42	4-48	*	-
5	27	42	54	2-48/3-42	3-48/4-42	4-54	*	*
6	30	42	60	2-54/3-42	4-48	*	*	*
7	30	48	60	3-48/4-42	4-54	*	*	*
8	33	54	2-54/3-48	3-54/4-48	4-54	*	*	*
9	36	54	2-54/3-48	3-54/4-48	*	*	*	*
10	42	60	3-48/4-42	4-54	*	*	*	*

* Where flows were determined to cause the culvert size to exceed four 60-inch pipes, no size is provided. This table provides for most temporary installations in Northwest Florida. For larger sizes of channels, bridge works may prove more economical.



**Table C: Culvert Diameters (Inches) for Extreme Hilly Conditions
Slopes Upstream > 10%**

Stream Width (Ft.)	Stream Depth (Ft.)							
	0.5	1.0	1.5	2.0	2.5	3.0	3.5	4.0
1	15	30	-	-	-	-	-	-
2	21	42	54	2-54/3-42	-	-	-	-
3	27	48	2-48/3-42	3-48	4-54	*	-	-
4	33	54	2-54/3-42	3-54/4-48	*	*	*	-
5	36	60	2-60/3-48	4-54/5-48	*	*	*	*
6	42	60	3-54/4-48	*	*	*	*	*
7	42	2-48/4-36	3-54/4-48	4-60	*	*	*	*
8	48	2-54/3-48	4-54/5-54	*	*	*	*	*
9	54	2-60/3-48	4-60/5-54	*	*	*	*	*
10	54	3-54/4-48	*	*	*	*	*	*

* Where flows were determined to cause the culvert size to exceed four 60-inch pipes, no size is provided. This table provides for most temporary installations in Northwest Florida. For larger sizes of channels, bridge works may prove more economical.

Watershed Size Method

Procedure:

1) From Table D below, for the given watershed area, soil, and slope conditions, read corresponding drainage area i. e., cross-section area of pipe required for 2 1/2 inches of rainfall per hour.

2) Select culvert size from Table E (next page) that has **at least** the required area determined above.

Table D: Drainage for 2 1/2 Inches/Hour Rainfall (Sq. Ft.)*

Watershed Acres	Site Conditions (Soil Type & Slopes)				
		Steep (25%+)	Moderate (15-25%)	Gentle (0-15%)	Flatland
Soils	Impervious	Heavy	Moderate	Light	Sandy
10	3.4	2.6	1.9	1.2	0.7
20	5.8	4.3	3.2	2.0	1.2
30	8.0	5.9	4.4	2.8	1.6
40	9.9	7.3	5.4	3.5	2.0
50	11.6	9.7	6.4	4.1	2.3
60	13.4	10.1	7.4	4.7	2.7
70	15.0	11.2	8.3	5.3	3.0
80	16.6	12.4	9.2	6.3	3.3
90	18.2	13.6	10.1	6.3	3.6
100	19.7	14.7	10.8	6.8	3.9
200	33.2	24.9	18.4	11.7	6.6
300	45.7	33.6	27.1	15.8	9.0
400	56.0	42.0	30.5	19.5	11.2
500	66.8	49.4	36.6	23.2	13.2
1000	113.0	88.9	62.1	39.4	22.4

*Modified from Talbot's Formula for a 2 1/2-inch/hr. rainfall event.

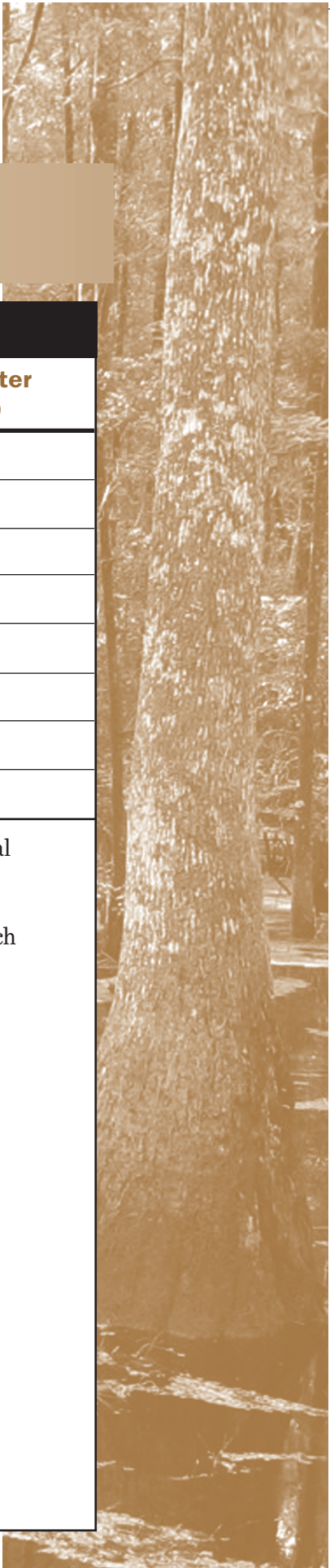


Table E: Culvert Pipe Size Required for Drainage Area*

X-Section Area (Sq. Ft)	Diameter (In.)	X-Section Area (Sq. Ft.)	Diameter (In.)
0.55	10	12.60	48
0.79	12	15.90	54
1.25	15	19.60	60
1.80	18	23.80	66
3.10	24	28.30	72
4.90	30	33.20	78
7.10	36	38.50	84
9.60	42	44.20	90

*King's Handbook on Hydraulics, modified by Forestry BMP Handbook Technical Advisory Committee (Courtesy of Rayonier).

Note: For watersheds that require more than 44.2 square feet of pipe (a 90-inch pipe), multiple pipe combinations should be used to meet the requirements. It is generally preferable to use multiple pipes of the same size and the pipes should be spaced leaving a distance of 1/2 the pipe diameter between the pipes.

For example, if two 72-inch pipes are required, the pipes should be spaced 36 inches apart.