



EXPLANATION  
MAJOR RIVER BASIN DRAINAGE DIVIDE  
RIVER BASIN BOUNDARY  
SUBBASIN BOUNDARY  
RIVER BASIN DESIGNATION  
SUBBASIN IDENTIFICATION NUMBER

Duval County in northeastern Florida and adjacent to the Atlantic Ocean contains approximately 840 square miles of which approximately 80 square miles are covered by water. The county is drained by three major rivers, the St. Johns, Nassau, and St. Marys. In addition, the coastal areas are drained by numerous small streams that empty into the Intracoastal Waterway or the Atlantic Ocean.

A drainage basin consists of a major surface stream, its tributaries, and the surrounding land that they drain. Drainage basins are bounded by drainage divides, which are ridges or topographically high areas that separate adjacent stream drainage systems. Parts of Duval County have very little topographic relief and the drainage divides in these areas are indistinct and low enough to be inundated during floods, with the result that water occasionally can move from one drainage system to another.

A drainage basin comprises smaller subdivisions called subbasins. Subbasins are tributary streams and the surrounding land that they drain. Basins and subbasins vary in size from many square miles to less than 1 square mile.

The drainage basins and major subbasins in Duval County, Fla., are delineated on this map and the area of each is shown in the accompanying table. Each basin is shown by an identifying letter on the map and the subbasins in each drainage basin are shown by identifying numbers. The hydrologic-unit codes shown in the table for each major basin are part of the numerical classification used by the U.S. Geological Survey for managing the National Water Data Network.

Drainage areas may be revised periodically as more detailed information becomes available or as development changes the drainage patterns in a basin. Drainage areas at U.S. Geological Survey gaging stations are included in the U.S. Geological Survey annual report, "Water Resources Data for Florida."

Table 1.—Drainage basins in Duval County, Florida

Map Reference No.				Drainage area in square miles			
Stream basin				Duval County			
Total				Total			
A.	St. Johns River	Hydrologic unit 03080103	113	9,430			
1.	Black Creek		72	488			
2.	North Fork Black Creek		12.5	(a)			
3.	Long Branch		30.8	62			
4.	Yellow Water Creek		26.5	29			
5.	Sal Taylor Creek		0.71	(a)			
6.	Little Black Creek		1.08	8			
7.	North Prong Double Branch		23	100			
8.	Junglinton Creek		4.9	4.9			
9.	Sweetwater Creek		16	16			
10.	Big Davis Creek		4.6	4.6			
11.	Oldfield Creek		16	44			
12.	Durbin Creek		2.36	2.36			
13.	Cormorant Branch		1.34	1.34			
14.	St. Johns River Tributary No. 1		0.94	0.94			
15.	St. Johns River Tributary No. 2		1.66	1.66			
16.	Deep Bottom Creek		0.79	0.79			
17.	St. Johns River Tributary No. 3		5.03	5.03			
18.	Goodfry Creek		1.43	1.43			
19.	Christopher Creek		1.82	1.82			
20.	New Rose Creek		0.94	0.94			
21.	St. Johns River Tributary No. 4		80	88			
22.	Ortega River						
23.	Cedar Creek		7.66	10.4 (b)			
24.	Wills Branch		2.70	2.70			
25.	South Fork Wills Branch		1.54	1.54			
26.	Williamson Creek		1.39	1.39			
27.	Butcher Pen Creek		5.73	5.73			
28.	Fishing Creek						
29.	St. Johns River—Continued						
30.	Big Fishweir Creek		3.11	4.14(b)			
31.	Little Fishweir Creek		1.03	1.03			
32.	Willow Branch		0.55	0.55			
33.	Craig Creek		0.86	0.86			
34.	McCoy Creek		5.47	5.47			
35.	Hagen Creek		3.84	3.84			
36.	Miller Creek		0.94	0.94			
37.	Arlington River (also known as Pottsburg Creek)		31.9	31.9			
38.	Pottsburg Creek (continuation of Arlington River)		19.2	19.2			
39.	Silversmith Creek		2.32	2.32			
40.	Strawberry Creek		4.73	6.78(b)			
41.	Red Bay Branch		2.05	2.05			
42.	Little Pottsburg Creek		3.66	3.66			
43.	Deer Creek		1.04	1.04			
44.	Long Branch		2.05	2.05			
45.	Trout River		48.2	94			
46.	Little Trout River		1.77	1.77			
47.	Nimrod Creek		7.08	7.08			
48.	Ribault River		10.1	28.8 (b)			
49.	Sixmile Creek		16.9	18.7 (b)			
50.	Little Sixmile Creek		1.77	1.77			
51.	Moncrief Creek		5.90	5.90			
52.	Drummond Creek		2.86	2.86			
53.	Long River		23.6 (b)	23.6 (b)			
54.	Cedar Creek		6.27	6.27			
55.	Pickett Branch		4.06	4.06			
56.	Little Cedar Creek		6.52	6.52			
57.	Dunn Creek		13.6	21.9 (b)			
58.	St. Johns River—Continued						
59.	Caney Branch		3.16	7.09(b)			
60.	Rushing Branch		1.52	3.73(b)			
61.	Sample Swamp		2.21	2.21			
62.	Terrapin Creek		1.20	1.20			
63.	Newcastle Creek		1.12	1.12			
64.	Nichols Creek		0.74	0.74			
65.	Browns-San Carlos Creeks		6.37	6.37			
66.	Jones Creek		3.13	3.13			
67.	Gibhouse Creek		1.86	1.86			
68.	Cowhead Creek		1.00	1.00			
69.	Shipyard Creek		0.60	0.60			
70.	Mt. Pleasant Creek		5.49	5.49			
71.	Greenfield Creek		3.62	9.11			
	Intracoastal Waterway		37.4	(a)			
	Pablo Creek		40.7	(a)			
	Cedar Swamp Creek		4.10	4.10			
	Intracoastal Waterway Tributary		1.47	1.47			
	Hopkins Creek		3.77	3.77			
	Sherman Creek		7.24	7.24			
	Coastal Area	Hydrologic unit 03080201					
	Intracoastal Waterway—Atlantic Ocean		1.40	(a)			
	St. Marys River	Hydrologic unit 03080204	59	1,480			
	Deep Creek		21.8	48.5			
	Brandy Branch		36.8	66.9			
	Nassau River	Hydrologic unit 03070205	11	(a)			
	Thomas Creek		51.7	109			
	Nassau River		39.6	400			
	Sisters Creek—Intracoastal Waterway		22.2	(a)			

(a) Not determined.  
(b) Includes drainage area of tributaries.

Base from U.S. Geological Survey  
1:24,000 and 1:62,500 quadrangles

For additional information  
write to:  
District Chief  
U.S. Geological Survey  
Room 9015, Hobbs Federal Building  
227 North Bronough Street  
Tallahassee, Florida 32301

Black and white copies of this  
map may be purchased from:  
Open-File Services Section  
Western Distribution Branch  
U.S. Geological Survey  
Box 25425, Federal Center  
Denver, Colorado 80225  
(Telephone: (303) 234-5888)

DRAINAGE BASINS IN DUVAL COUNTY, FLORIDA

By  
Roy B. Stone and Joseph B. Largen  
1983