



Florida Statewide Agricultural Irrigation Demand

Appendix D – Other Agricultural Water Use Projections



Appendix D – Other Agricultural Water Use Projections

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Table D-1. Freeze Protection Estimates by crop for each water management district

NFWWMD							
Crop	2019	2020	2025	2030	2035	2040	2045
Citrus	0.04	0.04	0.04	0.04	0.04	0.04	0.04
Fruit (Non-citrus)	0.02	0.10	0.12	0.19	0.27	0.47	0.58
Greenhouse/Nursery	-	-	-	-	-	-	-
Total	0.05	0.13	0.16	0.22	0.30	0.50	0.61
SFWMD							
Crop	2019	2020	2025	2030	2035	2040	2045
Citrus	17.91	17.82	18.22	18.88	18.84	18.59	18.29
Fruit (Non-citrus)	0.30	0.34	0.33	0.33	0.63	0.88	1.23
Greenhouse/Nursery	-	-	-	-	-	-	-
Total	18.22	18.16	18.55	19.21	19.47	19.46	19.52
SJRWMD							
Crop	2019	2020	2025	2030	2035	2040	2045
Citrus	5.27	5.26	5.19	5.13	4.97	4.76	4.59
Fruit (Non-citrus)	1.79	1.81	1.81	1.85	1.91	2.14	2.29
Greenhouse/Nursery	7.83	7.83	7.83	7.83	7.82	7.82	7.80
Total	14.90	14.90	14.84	14.82	14.71	14.72	14.69
SRWMD							
Crop	2019	2020	2025	2030	2035	2040	2045
Citrus	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Fruit (Non-citrus)	1.07	1.76	2.20	2.84	4.02	5.25	6.20
Greenhouse/Nursery	-	-	-	-	-	-	-
Total	1.09	1.78	2.22	2.86	4.04	5.27	6.22
SWFWMD							
Crop	2019	2020	2025	2030	2035	2040	2045
Citrus	39.35	39.32	39.23	38.99	38.54	38.17	37.78
Fruit (Non-citrus)	9.17	9.36	9.09	9.20	9.08	9.17	9.07
Greenhouse/Nursery	-	-	-	-	-	-	-
Total	48.53	48.68	48.32	48.19	47.62	47.34	46.85

Table D-2. Freeze Protection Estimates by County

Freeze Demands, MGD							
County	2019	2020	2025	2030	2035	2040	2045
Alachua	1.62	1.66	1.72	1.78	1.84	1.92	1.94
Baker	-	-	-	-	-	-	-
Bay	-	-	-	-	-	-	-
Bradford	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Brevard	0.17	0.17	0.16	0.15	0.13	0.12	0.10
Broward	-	-	-	-	-	-	-
Calhoun	-	-	0.02	0.02	0.04	0.14	0.18
Charlotte	1.18	1.18	1.20	1.23	1.25	1.25	1.26
Citrus	0.38	0.38	0.38	0.38	0.38	0.38	0.38
Clay	-	-	-	-	-	-	-
Collier	2.39	2.39	2.35	2.35	2.34	2.30	2.29
Columbia	-	0.04	0.16	0.35	0.56	0.91	1.14
DeSoto	10.41	10.41	10.46	10.49	10.49	10.49	10.49
Dixie	-	0.02	0.02	0.03	0.11	0.22	0.30
Duval	-	-	-	-	-	-	-
Escambia	0.01	0.02	0.02	0.02	0.03	0.03	0.04
Franklin	-	-	-	-	-	-	-
Flagler	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Gadsden	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Gilchrist	0.06	0.06	0.08	0.09	0.25	0.31	0.39
Glades	1.12	1.07	1.82	2.44	2.69	2.94	3.32
Gulf	-	-	-	-	-	-	-
Hamilton	0.05	0.07	0.11	0.11	0.35	0.61	0.65
Hardee	11.00	10.95	10.77	10.56	10.34	10.10	9.85
Hendry	5.37	5.39	5.61	5.82	5.89	5.94	5.99
Hernando	0.17	0.17	0.22	0.26	0.28	0.28	0.31
Highlands	7.64	7.59	7.53	7.41	7.32	7.24	7.16
Hillsborough	5.80	5.77	5.53	5.30	5.04	4.80	4.59
Holmes	-	-	-	-	-	-	-
Indian River	2.34	2.33	2.29	2.22	2.17	2.10	2.06
Jackson	0.00	0.01	0.01	0.01	0.03	0.04	0.07
Jefferson	0.04	0.04	0.04	0.04	0.04	0.04	0.04
Lafayette	-	0.17	0.21	0.44	0.58	0.83	1.15
Lake	2.39	2.37	2.24	2.15	2.06	1.93	1.78
Lee	0.78	0.78	0.78	0.78	0.78	0.75	0.75
Leon	-	-	-	-	-	-	-
Levy	0.26	0.91	1.14	1.57	1.93	2.20	2.39

Table D-2. Freeze Protection Estimates by County (continued)

Freeze Demands, MGD							
County	2019	2020	2025	2030	2035	2040	2045
Liberty	-	-	-	-	-	-	-
Madison	0.01	0.03	0.03	0.06	0.07	0.08	0.11
Manatee	2.70	2.73	2.82	2.92	2.94	3.00	3.07
Marion	0.69	0.71	0.73	0.81	0.83	0.97	1.02
Martin	1.83	1.83	1.47	1.47	1.47	1.47	1.32
Miami-Dade	0.17	0.17	0.16	0.15	0.15	0.12	0.10
Monroe	-	-	-	-	-	-	-
Nassau	-	-	-	-	-	-	-
Okaloosa	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Okeechobee	0.35	0.35	0.33	0.33	0.32	0.32	0.32
Orange	0.25	0.24	0.20	0.15	0.13	0.09	0.05
Osceola	1.58	1.58	1.58	1.58	1.58	1.58	1.58
Palm Beach	0.06	0.06	0.06	0.06	0.06	0.06	0.06
Pasco	0.32	0.31	0.27	0.24	0.23	0.22	0.20
Pinellas	-	-	-	-	-	-	-
Polk	11.33	11.28	11.12	10.98	10.86	10.75	10.62
Putnam	1.67	1.70	1.84	1.97	2.01	2.07	2.15
Santa Rosa	0.00	0.01	0.02	0.02	0.05	0.06	0.07
Sarasota	0.10	0.09	0.08	0.08	0.08	0.07	0.07
Seminole	0.07	0.07	0.07	0.06	0.05	0.04	0.04
St. Johns	-	-	-	-	-	-	-
St. Lucie	1.83	1.83	1.71	1.60	1.54	1.38	1.25
Sumter	0.23	0.23	0.23	0.23	0.23	0.23	0.23
Suwannee	0.02	0.04	0.06	0.09	0.13	0.20	0.26
Taylor	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Union	0.02	0.02	0.02	0.02	0.03	0.03	0.03
Volusia	6.32	6.32	6.32	6.32	6.33	6.42	6.45
Wakulla	-	-	-	-	-	-	-
Walton	-	-	-	-	-	-	-
Washington	-	0.05	0.05	0.11	0.11	0.18	0.21
Total	82.78	83.65	84.08	85.30	86.15	87.29	87.89

Table D-3. Conservation Estimates by Crop, NFWWMD

NFWWMD						
Crop	2020	2025	2030	2035	2040	2045
Citrus	-	-	-	-	-	-
Field Crops	0.29	1.47	2.03	2.29	2.36	2.36
Fruit (Non-citrus)	0.01	0.03	0.03	0.04	0.04	0.05
Greenhouse/Nursery	0.06	0.41	0.71	1.01	1.38	1.72
Hay	0.02	0.12	0.19	0.23	0.26	0.28
Potatoes	-	0.00	0.01	0.01	0.02	0.02
Sod	0.03	0.17	0.29	0.39	0.48	0.60
Sugarcane	-	-	-	-	-	-
Vegetables (Fresh Market)	0.02	0.07	0.07	0.07	0.07	0.07
Total	0.43	2.25	3.34	4.04	4.61	5.10

Table D-4. Conservation Estimates by Crop, SFWMD

SFWMD						
Crop	2020	2025	2030	2035	2040	2045
Citrus	0.45	1.18	1.60	1.78	1.85	1.85
Field Crops	0.02	0.13	0.25	0.62	1.16	1.20
Fruit (Non-citrus)	0.28	1.31	2.04	2.48	2.75	2.92
Greenhouse/Nursery	0.79	4.44	7.57	10.35	13.00	15.61
Hay	0.25	1.15	1.80	2.09	2.31	2.42
Potatoes	0.09	0.49	0.85	1.11	1.18	1.16
Sod	0.25	1.43	2.52	3.37	4.16	4.98
Sugarcane	2.09	2.05	2.04	2.03	2.01	2.01
Vegetables (Fresh Market)	2.17	12.11	15.14	15.89	16.16	16.22
Total	6.39	24.29	33.80	39.72	44.59	48.35

Table D-5. Conservation Estimates by Crop, SJRWMD

SJRWMD						
Crop	2020	2025	2030	2035	2040	2045
Citrus	-	0.01	0.03	0.03	0.03	0.03
Field Crops	0.09	0.50	0.78	0.91	1.11	1.15
Fruit (Non-citrus)	0.06	0.30	0.46	0.55	0.61	0.66
Greenhouse/Nursery	0.48	2.76	4.71	6.34	7.88	9.11
Hay	0.18	0.91	1.48	1.81	2.10	2.30
Potatoes	0.32	1.82	3.17	4.17	4.81	5.23
Sod	0.14	0.82	1.48	1.99	2.50	2.99
Sugarcane	-	-	-	-	-	-
Vegetables (Fresh Market)	0.23	0.92	0.97	0.95	0.92	0.87
Total	1.52	8.02	13.08	16.75	19.95	22.33

Table D-6. Conservation Estimates by Crop, SRWMD

SRWMD						
Crop	2020	2025	2030	2035	2040	2045
Citrus	0.00	0.00	0.01	0.01	0.01	0.01
Field Crops	1.04	6.08	11.04	15.24	17.21	18.03
Fruit (Non-citrus)	0.04	0.23	0.32	0.38	0.42	0.45
Greenhouse/Nursery	0.12	0.90	1.58	2.35	3.28	4.21
Hay	0.20	1.27	2.19	2.70	3.10	3.45
Potatoes	0.01	0.08	0.17	0.23	0.26	0.26
Sod	0.01	0.04	0.08	0.11	0.13	0.25
Sugarcane	-	-	-	-	-	-
Vegetables (Fresh Market)	0.23	0.89	1.31	1.39	1.42	1.43
Total	1.65	9.50	16.69	22.41	25.83	28.09

Table D-7. Conservation Estimates by Crop, SWFWMD

SWFWMD						
Primary Crop	2020	2025	2030	2035	2040	2045
Citrus	-	-	-	-	-	-
Field Crops	0.10	0.57	0.87	1.01	1.23	1.24
Fruit (Non-citrus)	0.44	1.82	2.83	3.54	4.03	4.43
Greenhouse/Nursery	0.17	1.04	1.80	2.58	3.38	4.04
Hay	0.09	0.47	0.77	0.91	1.02	1.12
Potatoes	0.03	0.15	0.26	0.36	0.39	0.42
Sod	0.09	0.54	0.94	1.26	1.54	1.94
Sugarcane	-	-	-	-	-	-
Vegetables (Fresh Market)	0.56	2.60	2.62	2.63	2.65	2.66
Total	1.47	7.18	10.10	12.30	14.25	15.84

Table D-8. Conservation Estimates by County

County	Conservation Estimates, MGD					
	2020	2025	2030	2035	2040	2045
Alachua	0.16	0.90	1.52	1.99	2.33	2.56
Baker	0.00	0.01	0.02	0.03	0.04	0.04
Bay	0.01	0.06	0.10	0.14	0.17	0.20
Bradford	0.02	0.10	0.18	0.23	0.28	0.31
Brevard	0.12	0.55	0.82	0.94	1.09	1.19
Broward	0.03	0.16	0.23	0.26	0.25	0.24
Calhoun	0.03	0.17	0.27	0.35	0.39	0.45
Charlotte	0.22	1.22	1.62	1.82	1.98	2.07
Citrus	0.01	0.06	0.10	0.13	0.16	0.19
Clay	0.01	0.08	0.12	0.17	0.21	0.25
Collier	0.66	3.52	4.76	5.20	5.42	5.51
Columbia	0.05	0.34	0.62	0.89	1.13	1.30
DeSoto	0.11	0.61	0.73	0.86	0.95	1.03
Dixie	0.07	0.42	0.75	1.03	1.18	1.26
Duval	0.01	0.08	0.14	0.19	0.24	0.26
Escambia	0.02	0.11	0.16	0.21	0.25	0.31
Franklin	-	-	-	-	-	-
Flagler	0.14	0.76	1.20	1.54	1.77	1.92
Gadsden	0.06	0.31	0.53	0.66	0.80	0.92
Gilchrist	0.22	1.26	2.24	2.99	3.44	3.65
Glades	0.74	1.12	1.50	2.23	2.99	3.70
Gulf	0.00	0.00	0.01	0.01	0.01	0.01
Hamilton	0.16	0.89	1.48	1.92	2.25	2.50
Hardee	0.11	0.52	0.74	0.88	0.98	1.07
Hendry	1.83	4.73	5.59	6.13	6.76	7.24
Hernando	0.02	0.11	0.18	0.24	0.33	0.42
Highlands	0.38	1.69	2.68	3.41	3.98	4.48
Hillsborough	0.38	1.67	2.56	3.15	3.58	3.93
Holmes	0.01	0.02	0.03	0.04	0.04	0.04
Indian River	0.15	0.82	1.21	1.43	1.60	1.73
Jackson	0.26	1.34	1.86	2.13	2.27	2.38
Jefferson	0.04	0.21	0.35	0.46	0.52	0.57
Lafayette	0.13	0.78	1.40	1.95	2.29	2.49
Lake	0.13	0.74	1.19	1.51	1.77	1.98
Lee	0.18	0.93	1.39	1.66	1.88	2.04
Leon	0.00	0.01	0.02	0.02	0.03	0.03

Table D-8. Conservation Estimates by County (continued)

County	Conservation Estimates, MGD					
	2020	2025	2030	2035	2040	2045
Levy	0.29	1.74	2.94	3.88	4.63	5.14
Liberty	0.00	0.00	0.00	0.00	0.00	0.00
Madison	0.24	1.33	2.34	3.16	3.46	3.67
Manatee	0.42	1.86	2.14	2.39	2.62	2.81
Marion	0.09	0.57	0.96	1.26	1.64	1.89
Martin	0.62	2.05	2.69	3.17	3.57	3.87
Miami-Dade	0.78	3.90	6.12	7.44	8.38	9.04
Monroe	0.00	0.00	0.00	0.00	0.00	0.00
Nassau	0.01	0.04	0.08	0.09	0.09	0.10
Okaloosa	0.00	0.01	0.02	0.03	0.03	0.04
Okeechobee	0.21	1.08	1.55	1.87	2.11	2.29
Orange	0.07	0.32	0.51	0.62	0.73	0.78
Osceola	0.27	1.18	2.00	2.58	3.09	3.54
Palm Beach	0.32	1.78	2.78	3.34	3.80	4.22
Pasco	0.02	0.07	0.12	0.15	0.18	0.18
Pinellas	0.00	0.00	0.00	0.00	0.00	0.00
Polk	0.13	0.62	1.01	1.31	1.55	1.78
Putnam	0.18	0.97	1.68	2.28	2.87	3.37
Santa Rosa	0.01	0.10	0.18	0.26	0.40	0.47
Sarasota	0.03	0.19	0.25	0.28	0.31	0.32
Seminole	0.03	0.14	0.24	0.31	0.36	0.38
St. Johns	0.31	1.66	2.66	3.34	3.83	4.16
St. Lucie	0.33	1.67	2.08	2.22	2.36	2.42
Sumter	0.04	0.21	0.35	0.46	0.56	0.65
Suwannee	0.41	2.30	4.05	5.41	6.14	6.69
Taylor	0.01	0.03	0.05	0.05	0.06	0.06
Union	0.01	0.08	0.13	0.16	0.19	0.22
Volusia	0.16	0.95	1.67	2.25	2.76	3.18
Wakulla	0.00	0.01	0.01	0.01	0.01	0.02
Walton	0.00	0.02	0.03	0.04	0.04	0.04
Washington	0.01	0.04	0.06	0.08	0.11	0.13
Total	11.46	51.25	77.01	95.23	109.23	119.72

Table D-9. County Totals of Livestock and Aquaculture Water Demand, MGD, 2019

County	Dairy Cows	Beef and Other Cows	Chickens, broilers	Chickens, layers	Equine	Goats	Hogs	Sheep	Aquaculture
Alachua	0.25	0.54	0.00	0.00	0.03	0.01	0.00	0.00	0.08
Baker	-	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.03
Bay	-	0.01	-	0.00	0.00	0.00	0.00	0.00	0.01
Bradford	0.00	0.11	-	-	0.01	0.00	0.00	0.00	0.16
Brevard	-	0.27	0.00	0.00	0.01	0.00	0.00	0.00	0.26
Broward	-	0.01	0.00	0.00	0.03	0.00	0.00	0.00	0.08
Calhoun	-	0.06	0.00	0.00	0.00	0.00	0.00	-	0.36
Charlotte	0.00	0.18	-	0.00	0.00	0.00	-	0.00	0.26
Citrus	0.00	0.10	0.00	0.00	0.01	0.00	0.00	0.00	0.01
Clay	-	0.05	0.00	0.00	0.01	0.00	0.00	0.00	-
Collier	-	0.12	0.00	-	0.00	0.00	0.00	0.00	0.05
Columbia	0.00	0.31	0.00	-	0.01	0.00	0.00	0.00	0.02
DeSoto	0.64	1.14	0.00	0.00	0.01	0.00	0.00	0.00	0.55
Dixie	-	0.05	0.00	-	0.00	0.00	0.00	0.00	0.04
Duval	-	0.07	0.00	0.00	0.01	0.00	0.00	0.00	0.13
Escambia	0.02	0.06	0.00	0.00	0.01	0.00	0.00	0.00	0.38
Flagler	-	0.07	-	0.00	0.00	0.00	0.00	0.00	-
Franklin	-	-	-	-	0.00	-	-	-	0.01
Gadsden	0.00	0.07	0.00	-	0.01	0.00	0.00	0.00	0.01
Gilchrist	1.78	0.34	0.00	0.00	0.01	0.00	0.00	0.00	-
Glades	-	0.78	-	0.00	0.01	0.00	0.00	0.00	0.68
Gulf	-	0.02	-	-	0.00	-	-	-	0.23
Hamilton	-	0.16	0.05	0.00	0.00	0.00	-	0.00	0.00
Hardee	2.66	0.97	0.00	0.00	0.01	0.00	0.00	0.00	0.01
Hendry	0.00	0.69	0.00	0.00	0.01	0.00	0.00	0.00	0.33
Hernando	0.00	0.11	-	0.00	0.02	0.00	0.00	0.00	-
Highlands	0.92	1.03	0.00	0.00	0.01	0.00	0.00	0.00	0.15
Hillsborough	0.12	0.47	0.00	0.00	0.04	0.00	-	0.00	3.10
Holmes	0.16	0.25	0.03	0.00	0.01	0.00	0.00	0.00	0.13
Indian River	0.00	0.24	0.00	0.00	0.01	0.00	0.00	0.00	0.00
Jackson	0.01	0.45	0.00	0.00	0.01	0.00	0.00	0.00	2.81
Jefferson	-	0.31	0.00	0.00	0.01	0.00	0.00	0.00	0.05
Lafayette	1.26	0.25	0.14	0.01	0.00	0.00	0.00	0.00	0.01
Lake	0.00	0.34	0.00	-	0.03	0.00	0.00	0.00	0.02
Lee	0.00	0.13	0.00	0.00	0.01	0.00	0.00	0.00	0.09
Leon	-	0.03	0.00	0.00	0.01	0.00	0.00	0.00	-
Levy	-	0.66	0.00	0.00	0.06	0.00	0.00	0.00	-

Table D-9. County Totals of Livestock and Aquaculture Water Demand, MGD, 2019 (continued)

County	Dairy Cows	Beef and Other Cows	Chickens, Broilers	Chickens, Layers	Equine	Goats	Hogs	Sheep	Aquaculture
Liberty	-	0.02	-	0.00	0.00	0.00	-	-	0.06
Madison	0.71	0.36	0.12	0.00	0.01	0.00	0.00	0.00	0.02
Manatee	1.35	0.47	0.00	0.00	0.02	0.00	0.00	0.00	0.07
Marion	0.02	0.63	0.00	0.00	0.28	0.01	0.00	0.00	0.09
Martin	0.00	0.35	0.00	0.00	0.01	0.00	0.00	0.00	0.04
Miami-Dade	0.01	0.08	0.00	0.00	0.03	0.00	0.00	0.00	0.80
Monroe	-	-	-	-	-	-	-	-	0.01
Nassau	0.04	0.08	-	0.00	0.00	0.00	0.00	0.00	0.07
Okaloosa	0.01	0.04	0.01	0.00	0.01	0.00	0.00	0.00	0.07
Okeechobee	4.85	1.61	-	-	0.02	0.00	0.00	0.00	0.13
Orange	0.00	0.18	0.00	0.00	0.01	0.00	0.00	0.00	0.02
Osceola	-	1.26	0.00	0.00	0.01	0.00	0.00	0.00	0.29
Palm Beach	0.01	0.09	0.00	0.00	0.07	0.00	0.00	0.00	0.05
Pasco	0.16	0.42	0.00	-	0.03	0.00	0.00	0.00	-
Pinellas	-	-	-	0.00	0.00	0.00	-	0.00	-
Polk	0.03	1.00	0.00	-	0.02	0.00	0.00	0.00	0.77
Putnam	0.14	0.13	0.00	-	0.01	0.00	0.00	0.00	0.21
Santa Rosa	0.00	0.12	0.00	0.00	0.01	0.00	0.00	0.00	0.49
Sarasota	0.00	0.21	-	0.00	0.01	0.00	0.00	0.00	-
Seminole	0.00	0.05	0.00	0.00	0.01	0.00	0.00	0.00	-
St. Johns	0.00	0.04	0.00	0.00	0.01	0.00	0.00	0.00	0.02
St. Lucie	-	0.46	-	0.00	0.00	0.00	0.00	0.00	0.01
Sumter	-	0.39	0.00	-	0.02	0.00	0.00	0.00	1.58
Suwannee	1.12	0.48	0.73	0.01	0.02	0.00	0.00	0.00	0.01
Taylor	-	0.08	-	0.00	0.00	0.00	0.00	-	0.01
Union	0.00	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Volusia	0.22	0.17	0.00	0.00	0.04	0.01	0.00	0.00	0.51
Wakulla	-	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.02
Walton	0.00	0.16	0.06	0.00	0.01	0.00	0.00	0.00	0.02
Washington	0.05	0.07	0.00	0.00	0.01	0.00	0.00	0.00	0.16
Total	16.6	19.6	1.1	0.0	1.1	0.1	0.0	0.0	15.6

Table D-10. Livestock and Aquaculture Water Demand - Current to Future Estimates by County

County	Livestock water use totals, MGD; 2019	Aquaculture water use totals, MGD; 2019	Livestock water use totals, MGD; 2020	Aquaculture water use totals, MGD; 2020	Livestock water use totals, MGD; 2025	Aquaculture water use totals, MGD; 2025	Livestock water use totals, MGD; 2030	Aquaculture water use totals, MGD; 2030	Livestock water use totals, MGD; 2035	Aquaculture water use totals, MGD; 2035	Livestock water use totals, MGD; 2040	Aquaculture water use totals, MGD; 2040	Livestock water use totals, MGD; 2045	Aquaculture water use totals, MGD; 2045
Alachua	0.83	0.08	0.83	0.08	0.83	0.08	0.83	0.08	0.83	0.08	0.83	0.08	0.83	0.08
Baker	0.07	0.03	0.07	0.03	0.07	0.03	0.07	0.03	0.07	0.03	0.07	0.03	0.07	0.03
Bay	0.02	0.01	0.02	0.01	0.02	0.01	0.02	0.01	0.02	0.01	0.02	0.01	0.02	0.01
Bradford	0.13	0.16	0.13	0.16	0.13	0.16	0.13	0.16	0.13	0.16	0.13	0.16	0.13	0.16
Brevard	0.28	0.26	0.28	0.26	0.28	0.26	0.28	0.26	0.28	0.26	0.28	0.26	0.28	0.26
Broward	0.04	0.08	0.04	0.08	0.04	0.08	0.04	0.08	0.04	0.08	0.04	0.08	0.04	0.08
Calhoun	0.06	0.36	0.06	0.36	0.06	0.36	0.06	0.36	0.06	0.36	0.06	0.36	0.06	0.36
Charlotte	0.18	0.26	0.18	0.26	0.18	0.26	0.18	0.26	0.18	0.26	0.18	0.26	0.18	0.26
Citrus	0.12	0.01	0.12	0.01	0.12	0.01	0.12	0.01	0.12	0.01	0.12	0.01	0.12	0.01
Clay	0.06	0.00	0.06	0.00	0.06	0.00	0.06	0.00	0.06	0.00	0.06	0.00	0.06	0.00
Collier	0.13	0.05	0.13	0.05	0.13	0.05	0.13	0.05	0.13	0.05	0.13	0.05	0.13	0.05
Columbia	0.34	0.02	0.34	0.02	0.34	0.02	0.34	0.02	0.34	0.02	0.34	0.02	0.34	0.02
Desoto	1.78	0.55	1.78	0.55	1.78	0.55	1.78	0.55	1.78	0.55	1.78	0.55	1.78	0.55
Dixie	0.05	0.04	0.05	0.04	0.05	0.04	0.05	0.04	0.05	0.04	0.05	0.04	0.05	0.04
Duval	0.08	0.13	0.08	0.13	0.08	0.13	0.08	0.13	0.08	0.13	0.08	0.13	0.08	0.13
Escambia	0.09	0.38	0.09	0.38	0.09	0.38	0.09	0.38	0.09	0.38	0.09	0.38	0.09	0.38
Flagler	0.07	0.00	0.07	0.00	0.07	0.00	0.07	0.00	0.07	0.00	0.07	0.00	0.07	0.00
Franklin	0.00	0.01	0.00	0.01	0.00	0.01	0.00	0.01	0.00	0.01	0.00	0.01	0.00	0.01
Gadsden	0.09	0.01	0.09	0.01	0.09	0.01	0.09	0.01	0.09	0.01	0.09	0.01	0.09	0.01
Gilchrist	2.13	0.00	2.13	0.00	2.13	0.00	2.13	0.00	2.13	0.00	2.13	0.00	2.13	0.00
Glades	0.79	0.68	0.79	0.68	0.79	0.68	0.79	0.68	0.79	0.68	0.79	0.68	0.79	0.68
Gulf	0.02	0.23	0.02	0.23	0.02	0.23	0.02	0.23	0.02	0.23	0.02	0.23	0.02	0.23
Hamilton	0.21	0.00	0.21	0.00	0.21	0.00	0.21	0.00	0.21	0.00	0.21	0.00	0.21	0.00
Hardee	3.64	0.01	3.64	0.01	3.64	0.01	3.64	0.01	3.64	0.01	3.64	0.01	3.64	0.01
Hendry	0.70	0.33	0.70	0.33	0.70	0.33	0.70	0.33	0.70	0.33	0.70	0.33	0.70	0.33
Hernando	0.14	0.00	0.14	0.00	0.14	0.00	0.14	0.00	0.14	0.00	0.14	0.00	0.14	0.00

County	Livestock water use totals, MGD; 2019	Aquaculture water use totals, MGD; 2019	Livestock water use totals, MGD; 2020	Aquaculture water use totals, MGD; 2020	Livestock water use totals, MGD; 2025	Aquaculture water use totals, MGD; 2025	Livestock water use totals, MGD; 2030	Aquaculture water use totals, MGD; 2030	Livestock water use totals, MGD; 2035	Aquaculture water use totals, MGD; 2035	Livestock water use totals, MGD; 2040	Aquaculture water use totals, MGD; 2040	Livestock water use totals, MGD; 2045	Aquaculture water use totals, MGD; 2045
Highlands	1.96	0.15	1.96	0.15	1.96	0.15	1.96	0.15	1.96	0.15	1.96	0.15	1.96	0.15
Hillsborough	0.63	3.10	0.63	3.10	0.63	3.10	0.63	3.10	0.63	3.10	0.63	3.10	0.63	3.10
Holmes	0.46	0.13	0.46	0.13	0.46	0.13	0.46	0.13	0.46	0.13	0.46	0.13	0.46	0.13
Indian River	0.25	0.00	0.25	0.00	0.25	0.00	0.25	0.00	0.25	0.00	0.25	0.00	0.25	0.00
Jackson	0.48	2.81	0.48	2.81	0.48	2.81	0.48	2.81	0.48	2.81	0.48	2.81	0.48	2.81
Jefferson	0.32	0.05	0.32	0.05	0.32	0.05	0.32	0.05	0.32	0.05	0.32	0.05	0.32	0.05
Lafayette	1.67	0.01	1.67	0.01	1.67	0.01	1.67	0.01	1.67	0.01	1.67	0.01	1.67	0.01
Lake	0.37	0.02	0.37	0.02	0.37	0.02	0.37	0.02	0.37	0.02	0.37	0.02	0.37	0.02
Lee	0.15	0.09	0.15	0.09	0.15	0.09	0.15	0.09	0.15	0.09	0.15	0.09	0.15	0.09
Leon	0.04	0.00	0.04	0.00	0.04	0.00	0.04	0.00	0.04	0.00	0.04	0.00	0.04	0.00
Levy	0.73	0.00	0.73	0.00	0.73	0.00	0.73	0.00	0.73	0.00	0.73	0.00	0.73	0.00
Liberty	0.02	0.06	0.02	0.06	0.02	0.06	0.02	0.06	0.02	0.06	0.02	0.06	0.02	0.06
Madison	1.20	0.02	1.20	0.02	1.20	0.02	1.20	0.02	1.20	0.02	1.20	0.02	1.20	0.02
Manatee	1.85	0.07	1.85	0.07	1.85	0.07	1.85	0.07	1.85	0.07	1.85	0.07	1.85	0.07
Marion	0.95	0.09	0.95	0.09	0.95	0.09	0.95	0.09	0.95	0.09	0.95	0.09	0.95	0.09
Martin	0.38	0.04	0.38	0.04	0.38	0.04	0.38	0.04	0.38	0.04	0.38	0.04	0.38	0.04
Miami-Dade	0.12	0.80	0.12	0.80	0.12	1.11	0.12	1.11	0.12	1.11	0.12	1.11	0.12	1.11
Monroe	0.00	0.01	0.00	0.01	0.00	0.01	0.00	0.01	0.00	0.01	0.00	0.01	0.00	0.01
Nassau	0.12	0.07	0.12	0.07	0.12	0.07	0.12	0.07	0.12	0.07	0.12	0.07	0.12	0.07
Okaloosa	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
Okeechobee	6.48	0.13	6.48	0.13	6.48	0.13	6.48	0.13	6.48	0.13	6.48	0.13	6.48	0.13
Orange	0.19	0.02	0.19	0.02	0.19	0.02	0.19	0.02	0.19	0.02	0.19	0.02	0.19	0.02
Osceola	1.28	0.29	1.28	0.29	1.28	0.29	1.28	0.29	1.28	0.29	1.28	0.29	1.28	0.29
Palm Beach	0.17	0.05	0.17	0.05	0.17	0.05	0.17	0.05	0.17	0.05	0.17	0.05	0.17	0.05
Pasco	0.62	0.00	0.62	0.00	0.62	0.00	0.62	0.00	0.62	0.00	0.62	0.00	0.62	0.00
Pinellas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Polk	1.06	0.77	1.06	0.77	1.06	0.77	1.06	0.77	1.06	0.77	1.06	0.77	1.06	0.77
Putnam	0.29	0.21	0.29	0.21	0.29	0.21	0.29	0.21	0.29	0.21	0.29	0.21	0.29	0.21

County	Livestock water use totals, MGD; 2019	Aquaculture water use totals, MGD; 2019	Livestock water use totals, MGD; 2020	Aquaculture water use totals, MGD; 2020	Livestock water use totals, MGD; 2025	Aquaculture water use totals, MGD; 2025	Livestock water use totals, MGD; 2030	Aquaculture water use totals, MGD; 2030	Livestock water use totals, MGD; 2035	Aquaculture water use totals, MGD; 2035	Livestock water use totals, MGD; 2040	Aquaculture water use totals, MGD; 2040	Livestock water use totals, MGD; 2045	Aquaculture water use totals, MGD; 2045
Santa Rosa	0.14	0.49	0.14	0.49	0.14	0.49	0.14	0.49	0.14	0.49	0.14	0.49	0.14	0.49
Sarasota	0.22	0.00	0.22	0.00	0.22	0.00	0.22	0.00	0.22	0.00	0.22	0.00	0.22	0.00
Seminole	0.06	0.00	0.06	0.00	0.06	0.00	0.06	0.00	0.06	0.00	0.06	0.00	0.06	0.00
St. Johns	0.05	0.02	0.05	0.02	0.05	0.02	0.05	0.02	0.05	0.02	0.05	0.02	0.05	0.02
St. Lucie	0.47	0.01	0.47	0.01	0.47	0.01	0.47	0.01	0.47	0.01	0.47	0.01	0.47	0.01
Sumter	0.42	1.58	0.42	1.58	0.42	1.58	0.42	1.58	0.42	1.58	0.42	1.58	0.42	1.58
Suwannee	2.36	0.01	2.36	0.01	2.36	0.01	2.36	0.01	2.36	0.01	2.36	0.01	2.36	0.01
Taylor	0.08	0.01	0.08	0.01	0.08	0.01	0.08	0.01	0.08	0.01	0.08	0.01	0.08	0.01
Union	0.16	0.00	0.16	0.00	0.16	0.00	0.16	0.00	0.16	0.00	0.16	0.00	0.16	0.00
Volusia	0.44	0.51	0.44	0.51	0.44	0.51	0.44	0.51	0.44	0.51	0.44	0.51	0.44	0.51
Wakulla	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Walton	0.24	0.02	0.24	0.02	0.24	0.02	0.24	0.02	0.24	0.02	0.24	0.02	0.24	0.02
Washington	0.13	0.16	0.13	0.16	0.13	0.16	0.13	0.16	0.13	0.16	0.13	0.16	0.13	0.16
TOTAL	38.7	15.6	38.7	15.6	38.7	15.9	38.7	15.9	38.7	15.9	38.7	15.9	38.7	15.9
Livestock and Aquaculture Total		54.2		54.2		54.6		54.6		54.6		54.6		54.6

Table D-11. Total Water Use by County - Irrigation Demand, Livestock/Aquaculture, Freeze Totals

County	Total Water Use						
	2019	2020	2025	2030	2035	2040	2045
Alachua	16.52	16.75	16.92	17.22	17.75	18.23	18.57
Baker	0.42	0.42	0.43	0.43	0.43	0.43	0.44
Bay	0.89	0.89	0.89	0.89	0.89	0.89	0.90
Bradford	1.96	1.95	1.92	1.93	1.95	1.95	1.96
Brevard	15.04	14.80	14.42	13.88	13.17	12.66	12.07
Broward	2.61	2.58	2.43	2.24	2.11	1.78	1.59
Calhoun	2.83	2.87	3.10	3.22	3.35	3.63	3.87
Charlotte	33.62	33.55	34.09	34.57	35.11	35.59	35.92
Citrus	2.39	2.37	2.37	2.37	2.38	2.39	2.40
Clay	1.19	1.19	1.19	1.19	1.20	1.21	1.22
Collier	84.52	84.19	83.38	83.13	82.88	82.46	81.59
Columbia	4.17	4.48	5.59	6.72	7.96	9.63	10.99
DeSoto	81.78	80.79	82.25	83.51	83.67	83.60	83.52
Dixie	5.84	6.00	6.28	6.66	7.22	7.87	8.38
Duval	1.57	1.57	1.57	1.57	1.57	1.58	1.57
Escambia	2.49	2.60	2.98	3.25	3.58	3.96	4.33
Flagler	12.03	11.98	11.80	11.74	11.64	11.53	11.30
Franklin	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Gadsden	5.81	5.82	5.83	5.83	5.86	5.87	5.91
Gilchrist	20.39	20.66	21.10	21.64	22.53	23.37	24.10
Glades	79.68	79.62	81.32	86.54	93.84	100.88	108.44
Gulf	0.30	0.30	0.30	0.30	0.30	0.30	0.30
Hamilton	13.90	14.12	14.78	15.29	16.27	17.23	18.07
Hardee	63.52	62.38	62.05	61.96	60.59	59.04	57.40
Hendry	263.06	263.32	266.89	270.23	274.13	277.96	282.10
Hernando	2.12	2.18	2.43	2.62	2.85	3.09	3.38
Highlands	104.04	102.82	102.83	102.57	101.31	100.08	98.70
Hillsborough	47.65	48.07	46.21	45.21	43.88	42.63	41.32
Holmes	1.12	1.12	1.12	1.12	1.13	1.13	1.14
Indian River	46.22	45.63	45.18	44.63	43.54	42.45	41.35
Jackson	29.65	30.02	30.24	30.56	31.27	31.87	32.50
Jefferson	3.67	3.68	3.69	3.69	3.72	3.74	3.76
Lafayette	11.80	12.31	13.27	14.35	15.47	16.82	18.12
Lake	21.55	21.07	20.44	19.41	18.37	17.25	16.03
Lee	24.70	24.56	24.29	23.98	23.58	22.98	22.52
Leon	0.44	0.44	0.44	0.43	0.44	0.43	0.44
Levy	27.00	28.58	31.59	34.37	37.60	40.52	43.12
Liberty	0.10	0.09	0.09	0.09	0.09	0.09	0.09
Madison	22.66	22.99	23.50	24.22	25.03	25.88	26.92
Manatee	67.28	67.51	68.38	69.65	70.66	71.97	73.15
Marion	11.34	11.52	13.21	14.41	15.87	17.57	18.96
Martin	65.73	65.13	62.95	61.08	59.27	57.56	55.81

County	Total Water Use						
	2019	2020	2025	2030	2035	2040	2045
Miami-Dade	72.48	71.92	69.59	66.86	64.25	61.62	58.93
Monroe	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Nassau	0.86	0.86	0.87	0.87	0.87	0.88	0.88
Okaloosa	0.41	0.43	0.43	0.43	0.44	0.44	0.44
Okeechobee	30.96	30.64	30.33	30.02	29.83	29.38	28.96
Orange	6.89	6.70	5.99	5.44	4.88	4.40	3.72
Osceola	32.24	33.77	34.41	34.99	35.45	35.85	35.84
Palm Beach	474.85	474.87	455.77	455.79	455.83	455.88	455.93
Pasco	3.65	3.53	3.27	3.16	3.03	2.88	2.67
Pinellas	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Polk	85.30	83.19	83.78	84.90	83.38	81.76	79.84
Putnam	17.16	17.35	18.11	18.91	19.78	20.85	21.82
Santa Rosa	1.81	1.97	2.39	2.84	3.49	4.27	4.78
Sarasota	4.55	4.42	4.35	4.26	4.12	3.98	3.89
Seminole	2.82	2.70	2.62	2.53	2.35	2.16	1.92
St. Johns	25.51	25.44	24.96	24.49	24.11	23.56	23.20
St. Lucie	54.41	53.28	50.61	47.57	44.46	41.41	38.50
Sumter	6.70	6.70	6.69	6.73	6.75	6.78	6.82
Suwannee	36.40	37.04	38.66	40.10	41.81	43.85	45.75
Taylor	0.56	0.56	0.55	0.54	0.55	0.55	0.55
Union	1.23	1.27	1.47	1.61	1.72	1.84	1.99
Volusia	22.48	22.54	22.85	23.07	23.44	23.99	24.42
Wakulla	0.13	0.14	0.14	0.13	0.13	0.13	0.14
Walton	0.53	0.54	0.54	0.54	0.54	0.54	0.55
Washington	0.95	1.06	1.13	1.32	1.41	1.65	1.81
Total	2,087	2,084	2,073	2,086	2,097	2,109	2,118