



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	2018	2020	2025	2030	2035	2040	2045
Citrus	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Fruit (Non-citrus)	0.03	0.10	0.28	0.48	0.60	0.71	0.82
Greenhouse/Nursery	-	-	-	-	-	-	-
Total	0.06	0.13	0.31	0.51	0.63	0.74	0.85
SFWMD							
Crop	2018	2020	2025	2030	2035	2040	2045
Citrus	18.33	18.35	18.36	18.36	18.47	18.66	18.32
Fruit (Non-citrus)	0.39	0.39	0.39	0.35	0.35	0.35	0.35
Greenhouse/Nursery	-	-	-	-	-	-	-
Total	18.72	18.74	18.75	18.72	18.82	19.01	18.67
SJRWMD							
Crop	2018	2020	2025	2030	2035	2040	2045
Citrus	5.99	5.87	5.69	5.48	5.25	5.01	4.77
Fruit (Non-citrus)	1.91	1.89	1.94	2.18	2.28	2.33	2.32
Greenhouse/Nursery	8.48	8.48	8.48	8.48	8.48	8.43	8.41
Total	16.38	16.24	16.10	16.13	16.01	15.77	15.50
SRWMD							
Crop	2018	2020	2025	2030	2035	2040	2045
Citrus	0.04	0.04	0.04	0.04	0.04	0.04	0.04
Fruit (Non-citrus)	1.59	2.49	4.28	5.84	6.97	8.11	9.46
Greenhouse/Nursery	-	-	-	-	-	-	-
Total	1.62	2.52	4.31	5.88	7.01	8.14	9.49
SWFWMD							
Crop	2018	2020	2025	2030	2035	2040	2045
Citrus	40.42	40.28	39.97	39.63	39.24	38.90	38.46
Fruit (Non-citrus)	9.42	9.47	9.28	9.24	9.25	9.14	9.25
Greenhouse/Nursery	-	-	-	-	-	-	-
Total	49.84	49.75	49.25	48.87	48.49	48.04	47.71

Table D- 2. Freeze Protection Estimates by County

Freeze Demands, MGD							
County	2018	2020	2025	2030	2035	2040	2045
Alachua	1.84	1.88	1.88	1.88	1.89	1.89	1.92
Baker	-	-	-	-	-	-	-
Bay	-	-	-	-	-	-	-
Bradford	0.04	0.04	0.04	0.04	0.04	0.04	0.04
Brevard	0.35	0.34	0.34	0.33	0.32	0.28	0.25
Broward	-	-	-	-	-	-	-
Calhoun	-	0.02	0.02	0.05	0.05	0.06	0.17
Charlotte	1.20	1.20	1.22	1.23	1.25	1.27	1.27
Citrus	0.44	0.44	0.44	0.44	0.44	0.44	0.44
Clay	-	-	-	-	-	-	-
Collier	2.38	2.35	2.35	2.28	2.23	2.23	2.16
Columbia	-	0.24	0.39	0.55	0.77	0.98	1.12
DeSoto	10.58	10.58	10.59	10.62	10.62	10.64	10.68
Dixie	-	-	-	0.05	0.12	0.12	0.22
Duval	-	-	-	-	-	-	-
Escambia	0.03	0.03	0.13	0.25	0.30	0.32	0.32
Franklin	-	-	-	-	-	-	-
Flagler	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	-	0.07	0.19	0.33	0.37	0.43	0.43
Glades	1.13	1.18	1.33	1.56	1.83	2.09	2.31
Gulf	-	-	-	-	-	-	-
Hamilton	-	0.06	0.17	0.27	0.31	0.44	0.49
Hardee	11.44	11.38	11.15	10.93	10.70	10.52	10.28
Hendry	5.36	5.39	5.48	5.61	5.74	5.82	5.91
Hernando	0.17	0.17	0.17	0.19	0.19	0.24	0.24
Highlands	7.77	7.72	7.65	7.56	7.48	7.39	7.27
Hillsborough	5.92	5.82	5.58	5.41	5.16	4.91	4.69
Holmes	-	-	-	-	-	-	-
Indian River	2.37	2.36	2.30	2.22	2.18	2.11	2.04
Jackson	0.00	0.01	0.02	0.02	0.03	0.05	0.05
Jefferson	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Lafayette	-	0.15	0.44	0.69	0.71	0.94	1.04
Lake	2.66	2.58	2.47	2.39	2.23	2.07	1.92
Lee	0.80	0.80	0.80	0.77	0.76	0.76	0.76
Leon	-	-	-	-	-	-	-
Levy	0.30	0.48	1.09	1.57	2.31	2.51	3.11

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

Freeze Demands, MGD							
County	2018	2020	2025	2030	2035	2040	2045
Liberty	-	-	-	-	-	-	-
Madison	0.09	0.13	0.43	0.64	0.81	1.04	1.30
Manatee	2.84	2.84	2.87	2.90	2.95	3.00	3.01
Marion	0.74	0.74	0.80	0.95	1.01	1.04	1.12
Martin	2.10	2.10	2.10	2.05	2.05	2.05	1.65
Miami-Dade	0.20	0.20	0.19	0.17	0.11	0.11	0.10
Monroe	-	-	-	-	-	-	-
Nassau	-	-	-	-	-	-	-
Okaloosa	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Okeechobee	0.36	0.36	0.36	0.36	0.34	0.34	0.33
Orange	0.35	0.32	0.28	0.23	0.18	0.15	0.09
Osceola	1.68	1.68	1.68	1.68	1.68	1.68	1.68
Palm Beach	0.06	0.06	0.06	0.06	0.06	0.06	0.06
Pasco	0.32	0.29	0.26	0.25	0.23	0.19	0.17
Pinellas	-	-	-	-	-	-	-
Polk	11.60	11.55	11.33	11.17	11.01	10.85	10.70
Putnam	2.33	2.33	2.38	2.55	2.61	2.67	2.67
Santa Rosa	0.00	0.00	0.03	0.05	0.05	0.05	0.05
Sarasota	0.10	0.10	0.10	0.09	0.09	0.09	0.09
Seminole	0.07	0.07	0.06	0.05	0.05	0.04	0.04
St. Johns	-	-	-	-	-	-	-
St. Lucie	1.83	1.81	1.63	1.47	1.32	1.16	1.05
Sumter	0.29	0.29	0.29	0.29	0.29	0.29	0.29
Suwannee	0.22	0.49	0.79	0.99	1.13	1.26	1.63
Taylor	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Union	0.24	0.28	0.35	0.35	0.35	0.42	0.42
Volusia	6.36	6.36	6.38	6.40	6.40	6.40	6.40
Wakulla	-	-	-	-	-	-	-
Walton	-	-	-	-	-	-	-
Washington	-	0.03	0.07	0.10	0.16	0.23	0.23
Total	86.63	87.38	88.72	90.11	90.96	91.70	92.22

Table D- 3. Conservation Estimates by Crop, NFWWMD

NFWWMD						
Crop	2020	2025	2030	2035	2040	2045
Citrus	-	-	-	-	-	-
Field Crops	0.62	2.05	3.25	3.70	4.01	4.19
Fruit (Non-citrus)	0.01	0.06	0.07	0.08	0.09	0.10
Greenhouse/Nursery	0.13	0.48	0.78	1.08	1.50	1.93
Hay	0.05	0.16	0.25	0.30	0.33	0.35
Potatoes	-	0.01	0.01	0.03	0.03	0.03
Sod	0.06	0.19	0.32	0.41	0.51	0.59
Sugarcane	-	-	-	-	-	-
Vegetables (Fresh Market)	0.05	0.10	0.10	0.10	0.10	0.10
Total	0.92	3.05	4.78	5.71	6.57	7.29

Table D- 4. Conservation Estimates by Crop, SFWMD

SFWMD						
Crop	2020	2025	2030	2035	2040	2045
Citrus	0.43	0.78	0.99	1.17	1.30	1.39
Field Crops	0.04	0.23	0.49	0.75	1.16	1.19
Fruit (Non-citrus)	0.54	1.55	2.32	2.77	3.04	3.29
Greenhouse/Nursery	1.55	5.16	8.21	10.61	12.53	14.12
Hay	0.53	1.52	2.06	2.39	2.52	2.55
Potatoes	0.17	0.57	0.94	1.16	1.17	1.16
Sod	0.50	1.68	2.78	3.60	4.40	5.17
Sugarcane	0.56	0.56	0.55	0.54	0.54	0.54
Vegetables (Fresh Market)	4.46	14.53	19.52	20.94	21.45	21.42
Total	8.79	26.58	37.85	43.94	48.11	50.82

Table D- 5. Conservation Estimates by Crop, SJRWMD

SJRWMD						
Crop	2020	2025	2030	2035	2040	2045
Citrus	0.02	0.03	0.05	0.12	0.15	0.19
Field Crops	0.18	0.63	1.02	1.37	1.57	1.58
Fruit (Non-citrus)	0.13	0.40	0.62	0.77	0.88	0.97
Greenhouse/Nursery	1.07	3.62	5.80	7.70	9.44	11.09
Hay	0.39	1.16	1.77	2.09	2.34	2.54
Potatoes	0.63	2.14	3.48	4.41	5.09	5.56
Sod	0.26	0.88	1.45	1.91	2.37	2.79
Sugarcane	-	-	-	-	-	-
Vegetables (Fresh Market)	0.52	1.40	1.70	1.76	1.77	1.76
Total	3.21	10.27	15.90	20.12	23.61	26.48

Table D- 6. Conservation Estimates by Crop, SRWMD

SRWMD						
Crop	2020	2025	2030	2035	2040	2045
Citrus	0.00	0.00	0.00	0.00	0.00	0.00
Field Crops	1.83	6.32	10.73	14.58	17.69	18.95
Fruit (Non-citrus)	0.08	0.38	0.47	0.54	0.59	0.63
Greenhouse/Nursery	0.25	0.96	1.61	2.37	3.33	4.47
Hay	0.39	1.36	2.31	2.83	3.22	3.54
Potatoes	0.05	0.18	0.33	0.40	0.40	0.41
Sod	0.00	0.02	0.03	0.03	0.04	0.05
Sugarcane	-	-	-	-	-	-
Vegetables (Fresh Market)	0.47	1.14	1.68	1.90	2.00	2.07
Total	3.08	10.35	17.15	22.65	27.27	30.10

Table D- 7. Conservation Estimates by Crop, SWFWMD

SWFWMD						
Primary Crop	2020	2025	2030	2035	2040	2045
Citrus	-	-	-	-	-	-
Field Crops	0.15	0.55	0.81	1.04	1.27	1.29
Fruit (Non-citrus)	0.91	2.71	4.18	5.17	5.95	6.49
Greenhouse/Nursery	0.36	1.23	2.00	2.74	3.46	4.17
Hay	0.18	0.57	0.89	1.04	1.15	1.19
Potatoes	0.06	0.19	0.30	0.39	0.43	0.46
Sod	0.21	0.69	1.11	1.44	1.74	2.06
Sugarcane	-	-	-	-	-	-
Vegetables (Fresh Market)	1.13	3.43	3.72	3.89	4.03	4.14
Total	2.99	9.36	13.00	15.71	18.03	19.79

Table D- 8. Conservation Estimates by County

County	Conservation Estimates, MGD					
	2020	2025	2030	2035	2040	2045
Alachua	0.31	1.03	1.70	2.19	2.62	2.91
Baker	0.01	0.02	0.03	0.04	0.05	0.05
Bay	0.02	0.07	0.11	0.14	0.18	0.21
Bradford	0.04	0.12	0.19	0.24	0.29	0.32
Brevard	0.24	0.77	1.15	1.44	1.60	1.68
Broward	0.06	0.20	0.27	0.28	0.27	0.24
Calhoun	0.06	0.21	0.35	0.45	0.54	0.61
Charlotte	0.43	1.42	2.01	2.23	2.36	2.47
Citrus	0.03	0.09	0.14	0.17	0.20	0.23
Clay	0.03	0.10	0.17	0.22	0.27	0.32
Collier	1.26	4.10	5.86	6.56	6.83	6.97
Columbia	0.09	0.37	0.62	0.87	1.13	1.31
DeSoto	0.22	0.73	0.90	1.02	1.12	1.20
Dixie	0.13	0.43	0.73	0.99	1.26	1.37
Duval	0.03	0.10	0.16	0.21	0.26	0.29
Escambia	0.05	0.17	0.28	0.34	0.40	0.45
Franklin	-	-	-	-	-	-
Flagler	0.26	0.85	1.30	1.62	1.84	2.00
Gadsden	0.13	0.39	0.63	0.80	0.94	1.07
Gilchrist	0.40	1.35	2.25	2.98	3.62	4.00
Glades	0.51	1.00	1.46	1.82	2.18	2.34
Gulf	0.00	0.00	0.01	0.01	0.01	0.01
Hamilton	0.31	1.01	1.64	2.15	2.58	2.88
Hardee	0.23	0.69	0.94	1.12	1.23	1.31
Hendry	1.64	4.91	6.67	7.38	7.98	8.29
Hernando	0.04	0.14	0.23	0.32	0.42	0.52
Highlands	0.63	1.94	2.99	3.68	4.22	4.82
Hillsborough	0.83	2.50	3.76	4.61	5.26	5.68
Holmes	0.01	0.03	0.05	0.05	0.06	0.06
Indian River	0.32	1.00	1.51	1.74	1.98	2.20
Jackson	0.58	1.89	2.91	3.33	3.66	3.91
Jefferson	0.07	0.25	0.40	0.52	0.60	0.65
Lafayette	0.23	0.81	1.35	1.80	2.18	2.42
Lake	0.28	0.88	1.28	1.62	1.86	2.09
Lee	0.35	1.13	1.67	2.04	2.23	2.41
Leon	0.01	0.02	0.03	0.04	0.04	0.05

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

County	Conservation Estimates, MGD					
	2020	2025	2030	2035	2040	2045
Levy	0.49	1.74	2.81	3.79	4.61	5.14
Liberty	0.00	0.00	0.00	0.00	0.00	0.00
Madison	0.45	1.44	2.39	3.19	3.70	3.97
Manatee	0.84	2.57	3.06	3.45	3.79	4.10
Marion	0.20	0.67	1.01	1.36	1.70	1.90
Martin	0.75	2.10	2.82	3.27	3.63	3.67
Miami-Dade	1.53	4.66	6.94	8.36	9.35	10.06
Monroe	-	-	-	-	-	-
Nassau	0.02	0.05	0.09	0.10	0.11	0.12
Okaloosa	0.01	0.02	0.03	0.03	0.03	0.04
Okeechobee	0.43	1.31	1.87	2.23	2.45	2.62
Orange	0.12	0.36	0.54	0.66	0.71	0.80
Osceola	0.47	1.35	2.16	2.75	3.26	3.70
Palm Beach	0.55	1.81	2.75	3.18	3.45	3.67
Pasco	0.03	0.09	0.12	0.14	0.15	0.16
Pinellas	0.00	0.00	0.00	0.00	0.00	0.00
Polk	0.26	0.76	1.18	1.51	1.83	2.11
Putnam	0.38	1.28	2.10	2.81	3.49	4.10
Santa Rosa	0.03	0.13	0.20	0.28	0.42	0.56
Sarasota	0.07	0.24	0.31	0.35	0.36	0.38
Seminole	0.06	0.18	0.29	0.36	0.42	0.43
St. Johns	0.61	1.99	3.00	3.65	4.10	4.40
St. Lucie	0.57	1.78	2.05	2.23	2.31	2.31
Sumter	0.09	0.28	0.45	0.58	0.70	0.80
Suwannee	0.78	2.57	4.27	5.55	6.64	7.29
Taylor	0.01	0.03	0.05	0.05	0.06	0.06
Union	0.03	0.08	0.13	0.15	0.17	0.18
Volusia	0.39	1.34	2.21	2.94	3.67	4.35
Wakulla	0.00	0.01	0.02	0.02	0.03	0.03
Walton	0.01	0.03	0.04	0.06	0.07	0.07
Washington	0.01	0.04	0.05	0.06	0.08	0.09
Total	18.99	59.61	88.69	108.13	123.57	134.48

Table D- 9. County Totals of Livestock and Aquaculture Water Demand, MGD, 2018

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	-
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	0.33
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, 2018 (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	0.56
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	0.15
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	15.7

Table D- 10. Livestock and Aquaculture Water Demand - Current to future estimates by county

County	Livestock water use totals, MGD; 2018	Aquaculture water use totals, MGD; 2018	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	0.00	0.04	0.00	0.04	0.00	0.04	0.00	0.04	0.00	0.04	0.00	0.04	0.00
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
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

County	Livestock water use totals, MGD; 2018	Aquaculture water use totals, MGD; 2018	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
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
INDIANRIVER	0.25	0.33	0.25	0.33	0.25	0.33	0.25	0.33	0.25	0.33	0.25	0.33	0.25	0.33
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
MIAMIDADE	0.12	0.56	0.12	0.70	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
PALMBEACH	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
SANTAROSA	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	0.15	0.22	0.15	0.22	0.15	0.22	0.15	0.22	0.15	0.22	0.15	0.22	0.15

County	Livestock water use totals, MGD; 2018	Aquaculture water use totals, MGD; 2018	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
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
STJOHNS	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
STLUCIE	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	15.7	38.7	15.9	38.7	16.3	38.7	16.3	38.7	16.3	38.7	16.3	38.7	16.3
Livestock and Aquaculture Total		54.4		54.5		54.9		54.9		54.9		54.9		54.9

Table D- 11. Total water use by county - irrigation demand, livestock/aquaculture, freeze totals

County	Total Water Use						
	2018	2020	2025	2030	2035	2040	2045
Alachua	16.00	16.26	16.52	16.71	17.07	17.37	17.71
Baker	0.42	0.43	0.44	0.44	0.44	0.46	0.46
Bay	0.90	0.90	0.90	0.89	0.90	0.90	0.91
Bradford	1.90	1.93	1.91	1.89	1.91	1.90	1.89
Brevard	15.38	15.10	14.64	14.16	13.77	13.23	12.53
Broward	2.84	2.72	2.52	2.29	1.97	1.73	1.36
Calhoun	2.83	2.95	3.16	3.32	3.56	3.69	4.01
Charlotte	34.12	34.11	34.48	34.91	35.42	35.82	36.16
Citrus	2.43	2.44	2.44	2.47	2.49	2.49	2.50
Clay	1.35	1.36	1.38	1.37	1.39	1.41	1.42
Collier	85.90	85.62	84.65	83.51	82.99	82.09	80.93
Columbia	3.82	4.56	5.86	6.96	8.13	9.48	10.76
DeSoto	82.22	81.54	82.25	83.14	84.12	84.99	85.79
Dixie	5.38	5.55	6.00	6.49	6.98	7.47	8.05
Duval	1.62	1.60	1.62	1.61	1.61	1.61	1.61
Escambia	2.55	2.70	3.18	3.63	4.04	4.47	4.84
Flagler	11.39	11.24	11.13	11.00	10.98	10.86	10.77
Franklin	0.02	0.02	0.02	0.02	0.02	0.01	0.01
Gadsden	5.98	5.98	6.05	6.08	6.14	6.20	6.24
Gilchrist	18.61	19.07	19.85	20.63	21.43	22.22	23.01
Glades	82.24	83.55	87.10	90.42	94.14	97.64	101.01
Gulf	0.30	0.30	0.30	0.30	0.30	0.30	0.30
Hamilton	13.55	14.00	14.86	15.62	16.42	17.30	18.03
Hardee	64.86	63.82	62.99	62.39	61.77	61.27	60.40
Hendry	272.65	273.72	277.31	280.70	284.41	287.64	290.76
Hernando	2.16	2.23	2.44	2.70	2.93	3.31	3.67
Highlands	105.36	104.44	103.89	103.01	102.67	101.98	101.31
Hillsborough	51.63	51.61	50.58	49.84	48.50	46.96	45.32
Holmes	1.11	1.12	1.12	1.13	1.14	1.15	1.15
Indian River	46.19	45.52	44.47	43.37	42.64	41.92	41.09
Jackson	30.20	30.65	31.15	31.68	32.45	33.24	33.87
Jefferson	3.65	3.68	3.70	3.71	3.75	3.79	3.82
Lafayette	10.91	11.55	12.87	14.06	14.99	16.25	17.28
Lake	23.58	22.83	21.68	20.42	19.64	18.65	17.64
Lee	25.94	25.59	25.30	24.91	24.77	24.29	24.02
Leon	0.44	0.44	0.44	0.44	0.45	0.45	0.46
Levy	23.22	24.46	27.67	30.41	34.10	36.91	40.17
Liberty	0.10	0.09	0.09	0.09	0.09	0.09	0.09

County	Total Water Use						
	2018	2020	2025	2030	2035	2040	2045
Madison	21.09	21.64	22.86	23.82	24.90	26.09	27.31
Manatee	68.18	68.82	70.05	71.36	72.88	74.34	75.69
Marion	11.54	12.15	13.64	15.11	16.60	18.10	19.52
Martin	66.59	65.28	63.31	61.43	59.38	57.55	54.69
Miami-Dade	71.12	70.47	68.60	66.41	63.97	61.29	58.58
Monroe	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Nassau	0.95	0.95	0.96	0.97	0.98	0.99	1.00
Okaloosa	0.40	0.40	0.40	0.43	0.43	0.44	0.44
Okeechobee	31.73	31.70	31.43	31.05	30.79	30.32	29.79
Orange	7.71	7.32	6.53	5.86	5.25	4.62	3.96
Osceola	33.10	34.63	35.19	35.86	36.48	37.04	37.13
Palm Beach	476.32	473.25	453.91	453.21	452.41	451.62	450.93
Pasco	3.70	3.59	3.28	3.16	2.95	2.70	2.45
Pinellas	0.01	0.01	0.01	0.01	0.02	0.02	0.02
Polk	85.87	84.58	83.38	83.18	83.57	83.66	83.56
Putnam	18.91	19.37	20.40	21.50	22.40	23.39	24.33
Santa Rosa	1.65	1.97	2.51	3.04	3.49	4.17	4.84
Sarasota	4.95	4.86	4.77	4.63	4.51	4.39	4.30
Seminole	2.98	2.91	2.77	2.68	2.52	2.36	2.07
St. Johns	25.86	25.78	25.36	24.91	24.48	23.94	23.43
St. Lucie	54.33	52.23	48.72	45.15	42.01	38.76	35.46
Sumter	6.93	6.99	7.02	7.04	7.05	7.08	7.11
Suwannee	35.61	36.86	39.26	40.97	42.96	44.90	47.20
Taylor	0.53	0.53	0.53	0.52	0.52	0.52	0.51
Union	1.50	1.61	1.88	2.03	2.13	2.37	2.48
Volusia	24.52	24.78	25.32	25.51	25.96	26.47	26.99
Wakulla	0.20	0.21	0.21	0.21	0.21	0.22	0.22
Walton	0.57	0.57	0.57	0.57	0.57	0.58	0.58
Washington	0.71	0.80	0.98	1.13	1.31	1.53	1.63
Total	2,111	2,110	2,101	2,109	2,121	2,131	2,138