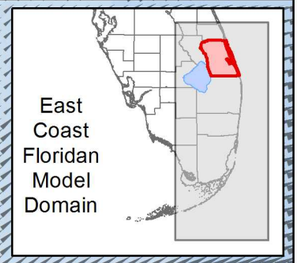
Floridan Aquifer System Modeling Results

Flow Vector Map
2013 Model Run
Upper Floridan Aquifer
(Layer 1)



Public Water Supply Wells *

Agricultural and Other Wells *

UEC Planning Area

Direction and Magnitude of Flow at the end of the model run (month 288)

Gallons per day

- 0 to 75,000
- 75,000 to 150,000
- 150,000 to 250,000
- 250,000 to 500,000
- > 500,000

DRAFT COPY

* Only wells in Layer 1 are shown

N
W E
S

0 2.5 5 10 15 20 Miles

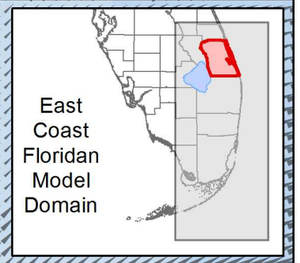
Sources: Esri, GEBCO, NOAA, National Geographic, DeLorme, HERE, Geonames.org, and other contributors

Document Path: \\ad.sfwmd.gov\DFSRoot\data\wsd\GIS\GISP_2012\WorkingDirectory\JFC\Model_Work\ECFM\maps\FlowVectors_y2013m288_Lyr1.mxd

Prepared By: Resource Evaluation

Floridan Aquifer System Modeling Results

Flow Vector Map
2040 Model Run
Upper Floridan Aquifer
(Layer 1)



OSCEOLA
INDIAN RIVER
OKEECHOBEE
ST. LUCIE
MARTIN
PALM BEACH
GLADES
Lake
Okeechobee
FLORIDA TURNPIKE
FLA 60
FLA 512
FLA 609
FLA 68
FLA 712
FLA 701
US 441
US 98
FLA 70
FLA 710
FLA 76
FLA 714
FLA 711
FLA 706
FLA 78
FLA 729
FLA 811
FLA 809
INT 95
TPK
KISSIMMEE RIVER
TAYLOR CREEK
MOSQUITO CREEK
NUBBIN SLOUGH
POPASH SLOUGH
HENEY CREEK
LETTUCE CREEK
Jupiter Inlet

Indian River Co. Oslo
St. Lucie Co. North
Ft. Pierce
Okeechobee Correctional
St. Lucie Co. Central
Port St. Lucie JEA
St. Lucie West
Port St. Lucie Prineville
Port St. Lucie Southwest
Martin Co. N. Jensen
Martin Co. Indian River Plantation
Sailfish Point
Tequesta
Jupiter

Public Water Supply Wells *

Agricultural and Other Wells *

UEC Planning Area

Direction and Magnitude of Flow at the end of the model run (month 288)

Gallons per day

- 0 to 75,000
- 75,000 to 150,000
- 150,000 to 250,000
- 250,000 to 500,000
- > 500,000

DRAFT COPY

* Only wells in Layer 1 are shown

N
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0 2.5 5 10 15 20 Miles

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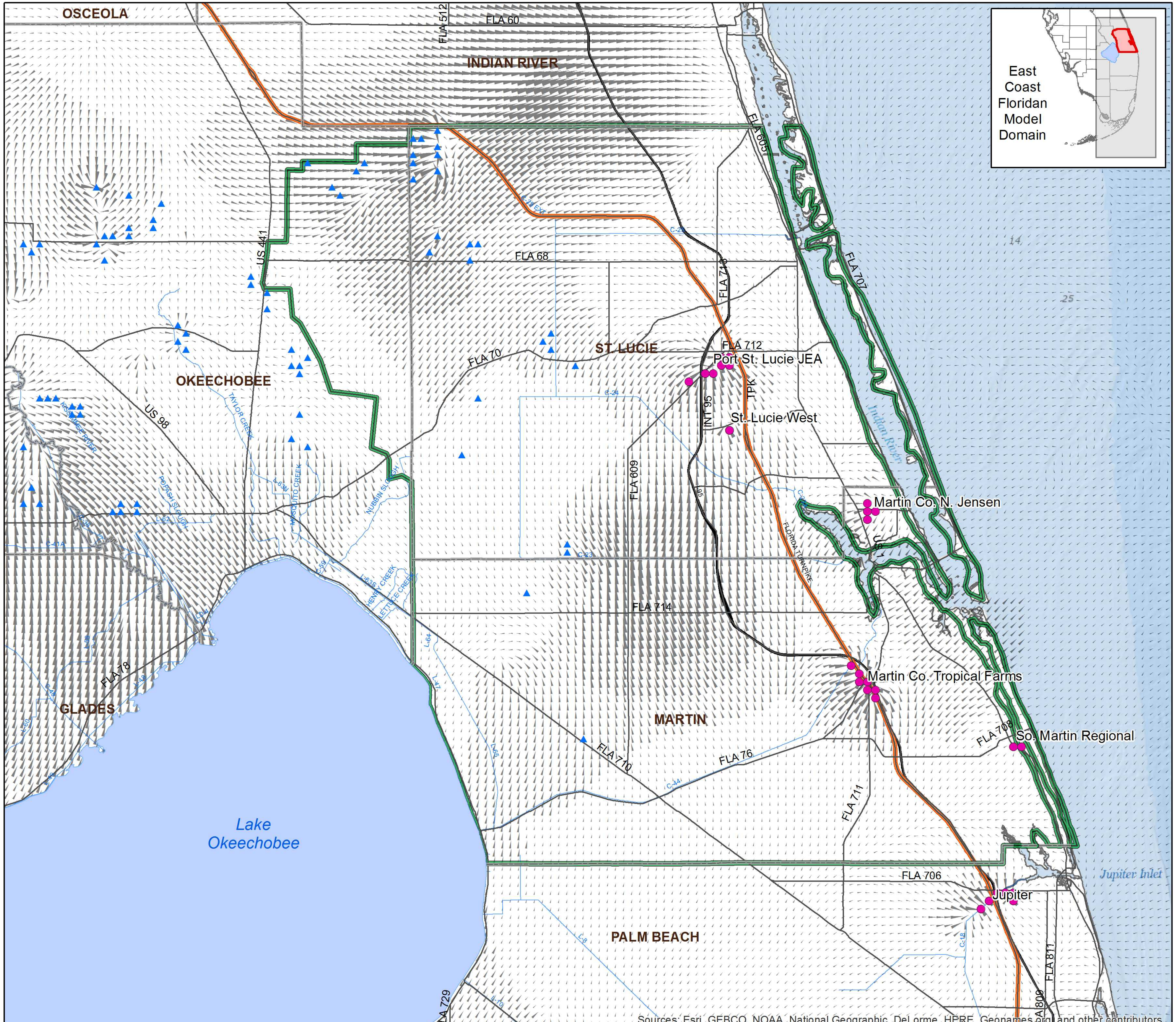
Prepared By: Resource Evaluation



Floridan Aquifer System Modeling Results

Flow Vector Map
2013 Model Run
Avon Park Permeable Zone
(Layer 3)

Public Water Supply Wells *

Agricultural and Other Wells *

UEC Planning Area

Direction and Magnitude of Flow at the end of the model run (month 288)

Gallons per day

- 0 to 75,000
- 75,000 to 150,000
- 150,000 to 250,000
- 250,000 to 500,000
- > 500,000

DRAFT COPY

* Only wells in Layer 3 are shown

N W E S

0 2.5 5 10 15 20 Miles

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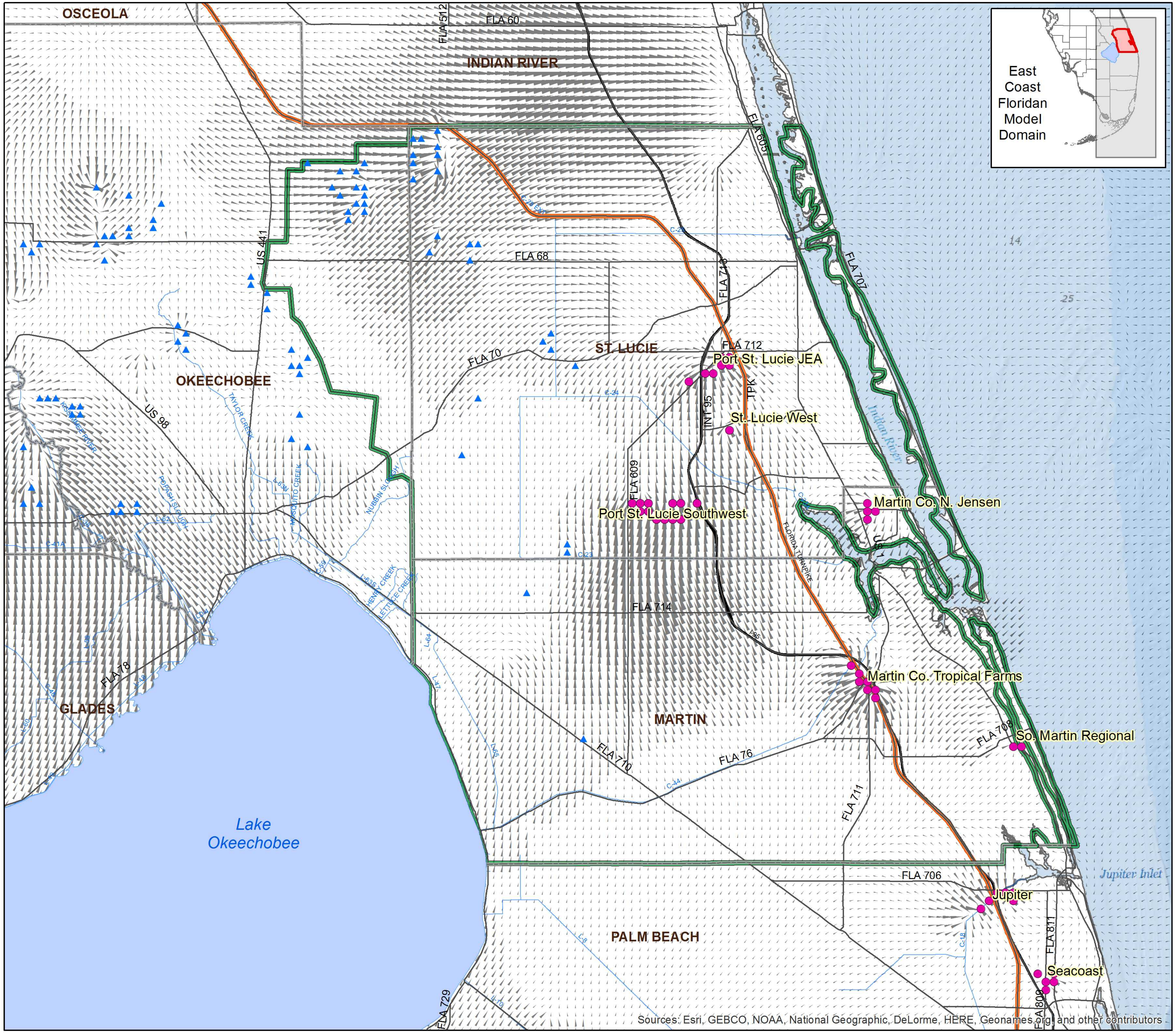
Prepared By: Resource Evaluation


OSCEOLA
FLA 60
FLA 512
INDIAN RIVER
East Coast Floridan Model Domain
FLA 606
FLA 68
US 441
FLA 713
FLA 707
FLA 712
ST LUCIE
FLA 70
Port St. Lucie JEA
OKEECHOBEE
US 98
INT 95
TPK
St. Lucie West
Indian River
FLA 609
Martin Co. N. Jensen
Port St. Lucie Southwest
FLORIDA TURNPIKE
FLA 714
FLA 78
GLADES
Martin Co. Tropical Farms
MARTIN
FLA 708
So. Martin Regional
FLA 710
FLA 76
FLA 711
Lake Okeechobee
Jupiter Inlet
FLA 706
Jupiter
PALM BEACH
FLA 811
Seacoast
FLA 729
FLA 809
Sources: Esri, GEBCO, NOAA, National Geographic, DeLorme, HERE, Geonames.org, and other contributors

Floridan Aquifer System Modeling Results

Flow Vector Map
2040 Model Run
Avon Park Permeable Zone
(Layer 3)

- ● **Public Water Supply Wells ***
- ▲ **Agricultural and Other Wells ***
- ▭ **UEC Planning Area**

Direction and Magnitude of Flow at the end of the model run (month 288)

Gallons per day

- 0 to 75,000
- 75,000 to 150,000
- 150,000 to 250,000
- 250,000 to 500,000
- > 500,000

DRAFT COPY

* Only wells in Layer 3 are shown

N W E S

0 2.5 5 10 15 20 Miles

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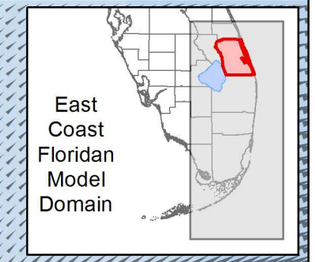
Floridan Aquifer System Modeling Results

Flow Vector Map
2013 Model Run
Upper Floridan Aquifer
(Layer 1)



- Public Water Supply Wells *
- Agricultural and Other Wells *
- UEC Planning Area

Direction and Magnitude of Flow in a 1 in 10 year rainfall deficit condition during the 2013 model run (month 220)

Gallons per day

- 0 to 75,000
- 75,000 to 150,000
- 150,000 to 250,000
- 250,000 to 500,000
- > 500,000

DRAFT COPY

* Only wells in Layer 1 are shown

N W E S

0 2.5 5 10 15 20 Miles

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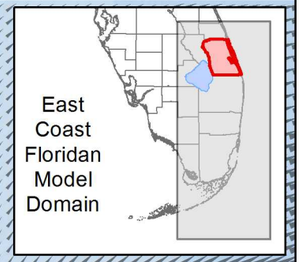
Floridan Aquifer System Modeling Results

Flow Vector Map
2040 Model Run
Upper Floridan Aquifer
(Layer 1)



Public Water Supply Wells *

Agricultural and Other Wells *

UEC Planning Area

Direction and Magnitude of Flow in a 1 in 10 year rainfall deficit condition during the 2040 model run (month 220)

Gallons per day

- 0 to 75,000
- 75,000 to 150,000
- 150,000 to 250,000
- 250,000 to 500,000
- > 500,000

* Only wells in Layer 1 are shown

N W E S

0 2.5 5 10 15 20 Miles

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OSCEOLA
INDIAN RIVER
OKEECHOBEE
ST. LUCIE
MARTIN
PALM BEACH
GLADES
Lake Okeechobee
Jupiter Inlet
FLORIDA TURNPIKE
FLA 60
FLA 512
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FLA 68
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FLA 706
FLA 707
FLA 708
FLA 809
FLA 811
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POPASH SLOUGH
MOSQUITO CREEK
NUBBIN SLOUGH
HENEY CREEK
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St. Lucie West
Port St. Lucie Prineville
Port St. Lucie Southwest
Martin Co. N. Jensen
Martin Co. Indian River Plantation
Sailfish Point
Tequesta
Jupiter

Sources: Esri, GEBCO, NOAA, National Geographic, DeLorme, HERE, Geonames.org, and other contributors

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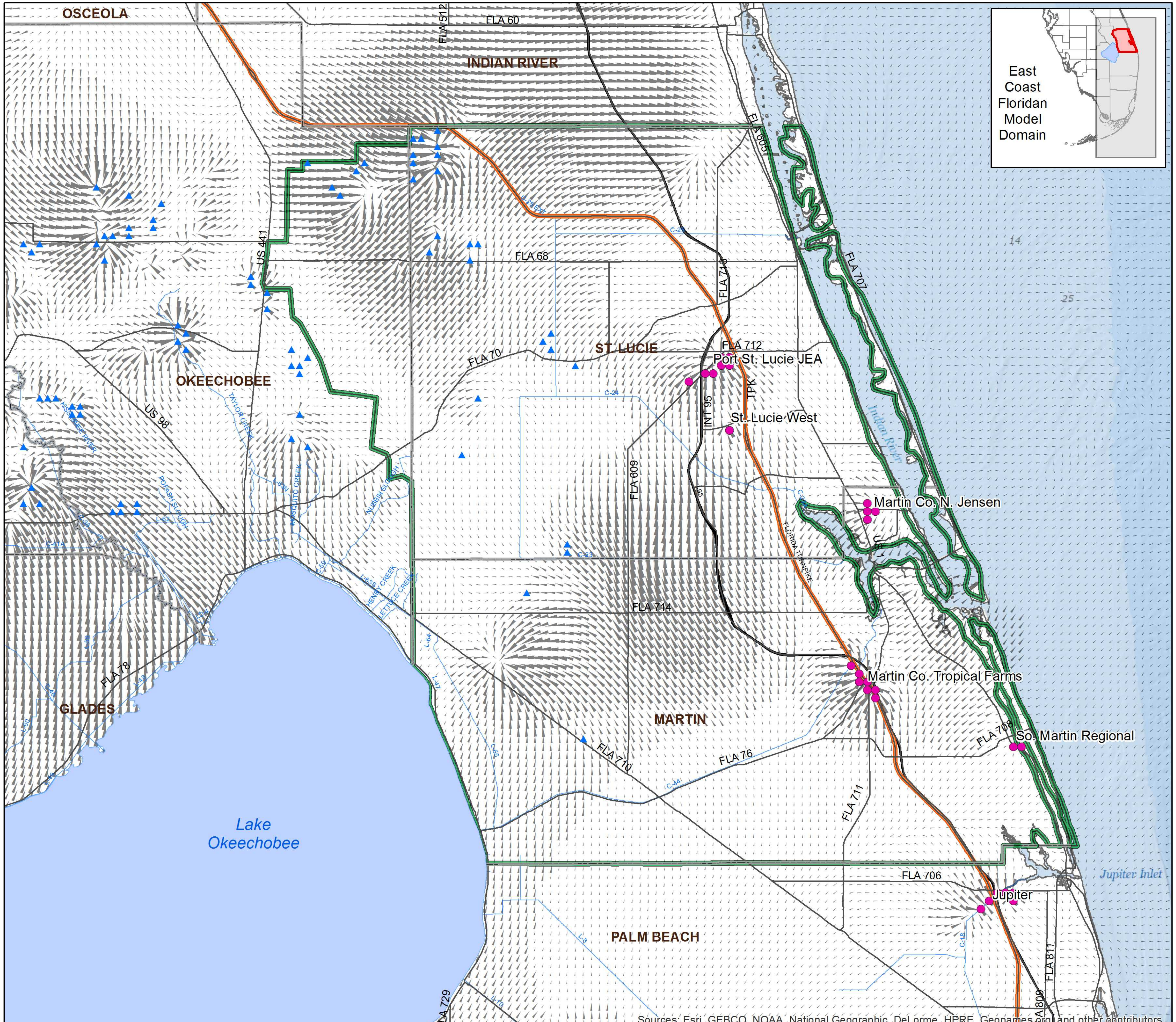
Prepared By: Resource Evaluation



Floridan Aquifer System Modeling Results

Flow Vector Map
2013 Model Run
Avon Park Permeable Zone
(Layer 3)

- Public Water Supply Wells *
- Agricultural and Other Wells *
- UEC Planning Area

Direction and Magnitude of Flow in a 1 in 10 year rainfall deficit condition during the 2013 model run (month 220)

Gallons per day

- 0 to 75,000
- 75,000 to 150,000
- 150,000 to 250,000
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- > 500,000

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* Only wells in Layer 3 are shown

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0 2.5 5 10 15 20 Miles

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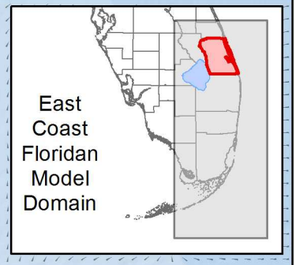
Prepared By: Resource Evaluation

Floridan Aquifer System Modeling Results

Flow Vector Map
2040 Model Run
Avon Park Permeable Zone (Layer 3)



- Public Water Supply Wells *
- Agricultural and Other Wells *
- UEC Planning Area

Direction and Magnitude of Flow in a 1 in 10 year rainfall deficit condition during the 2040 model run (month 220)

Gallons per day

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0 2.5 5 10 15 20 Miles

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Prepared By: Resource Evaluation