



Current Status of the Sparta Aquifer, North-Central Louisiana

**Water Resources Commission Meeting
Baton Rouge, LA, September 27, 2017**

Sparta Facts:

Water Supply Source:

14 Parishes in north-central LA,
supplying over 200K people.

Total Water Use in 2014:

54.91 million gallons per day,
mainly for public supply and
industrial uses (*Preliminary total
water use in 2015 is 57.22 Mgal/d*)

Sustainable Use:

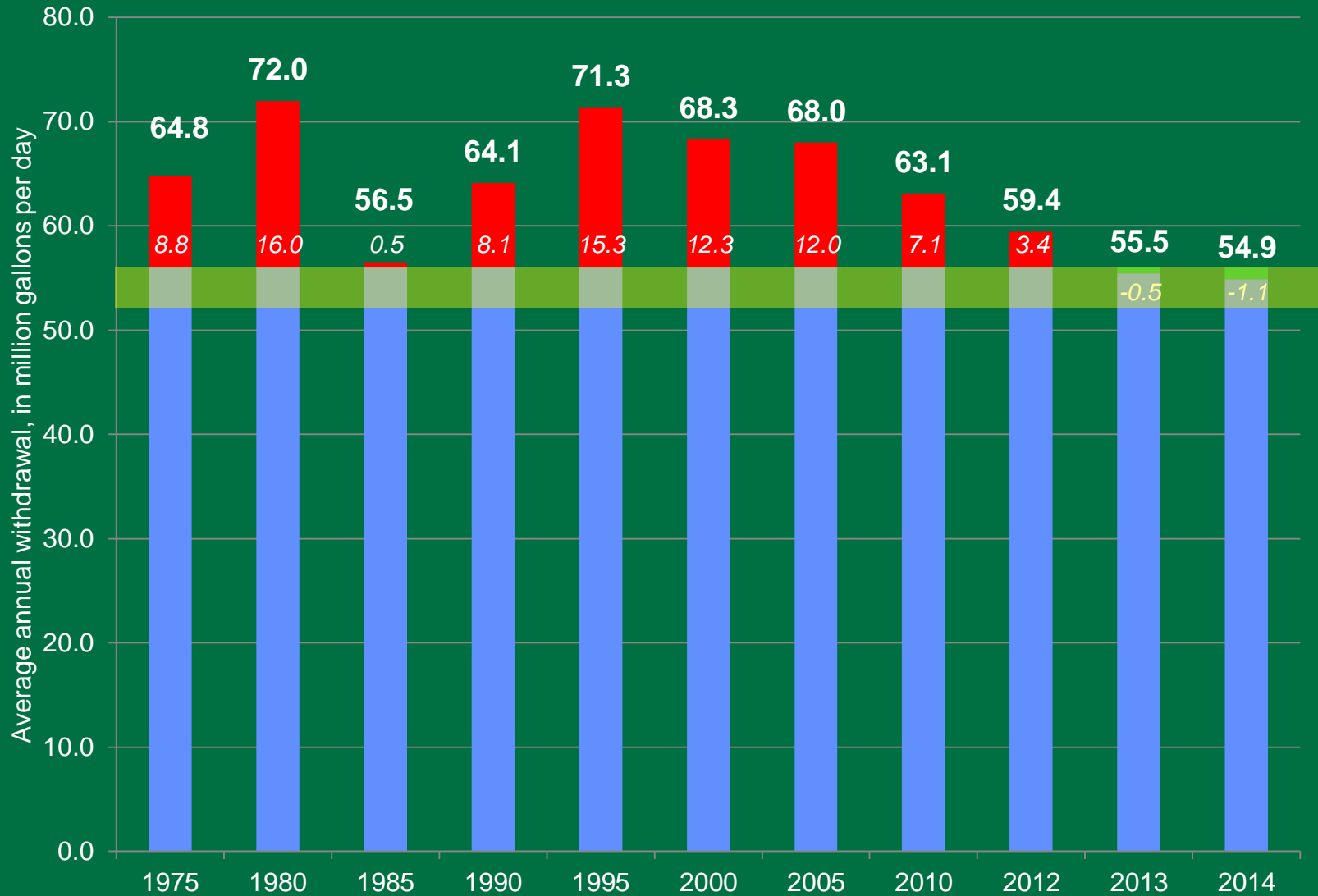
Approximately 52-56 Mgal/day,
currently at or close to no net
loss of water from the Sparta
aquifer in Louisiana.

Average Estimated Water Use
from the Sparta in Louisiana for
public supply is about 130
gallons per person per day.

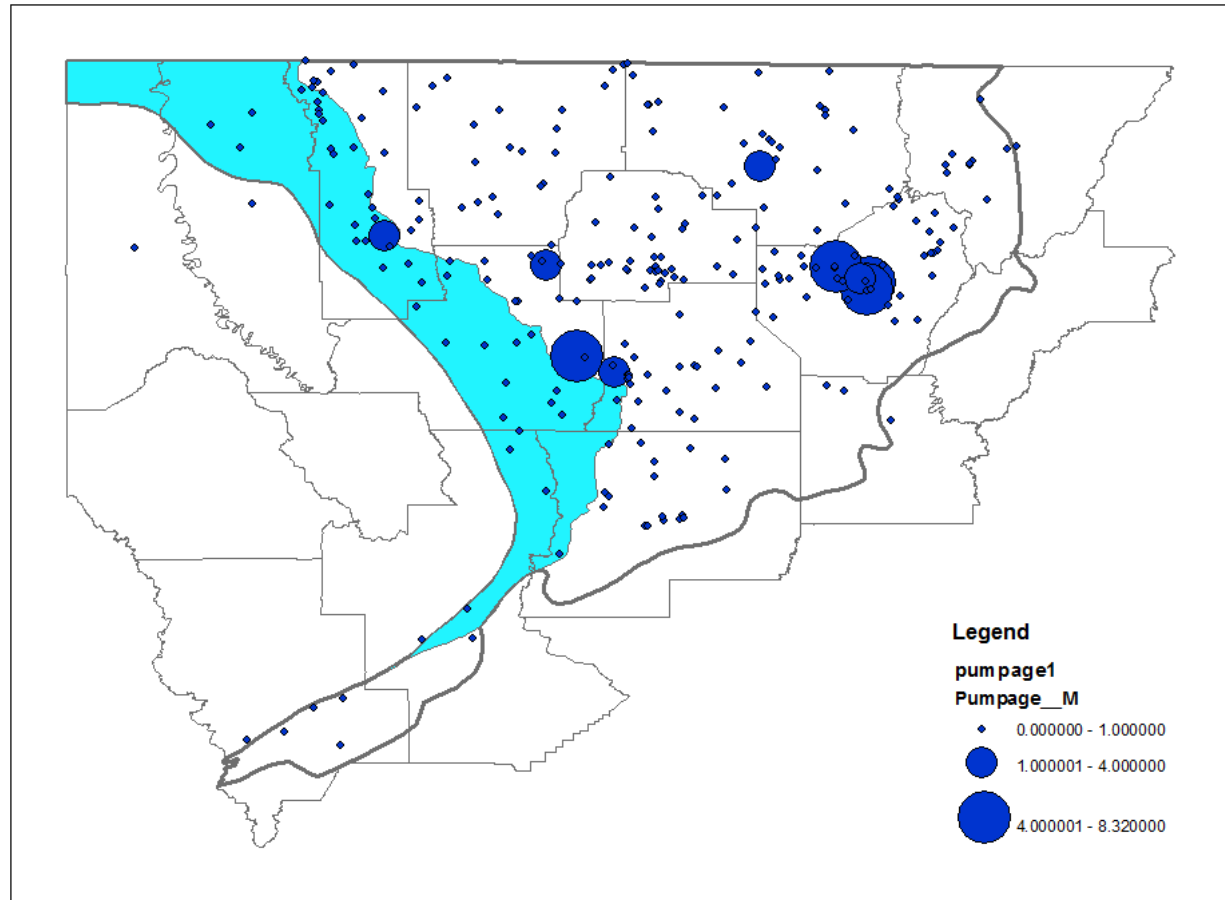


2014 Sparta Withdrawals, Million gal/day	
Bienville	9.06
Bossier	0.21
Caddo	0.21
Caldwell	0.03
Claiborne	1.92
Jackson	3.53
Lincoln	7.67
Morehouse	0.24
Natchitoches	1.49
Ouachita	18.47
Sabine	0.17
Union	4.64
Webster	4.85
Winn	2.43

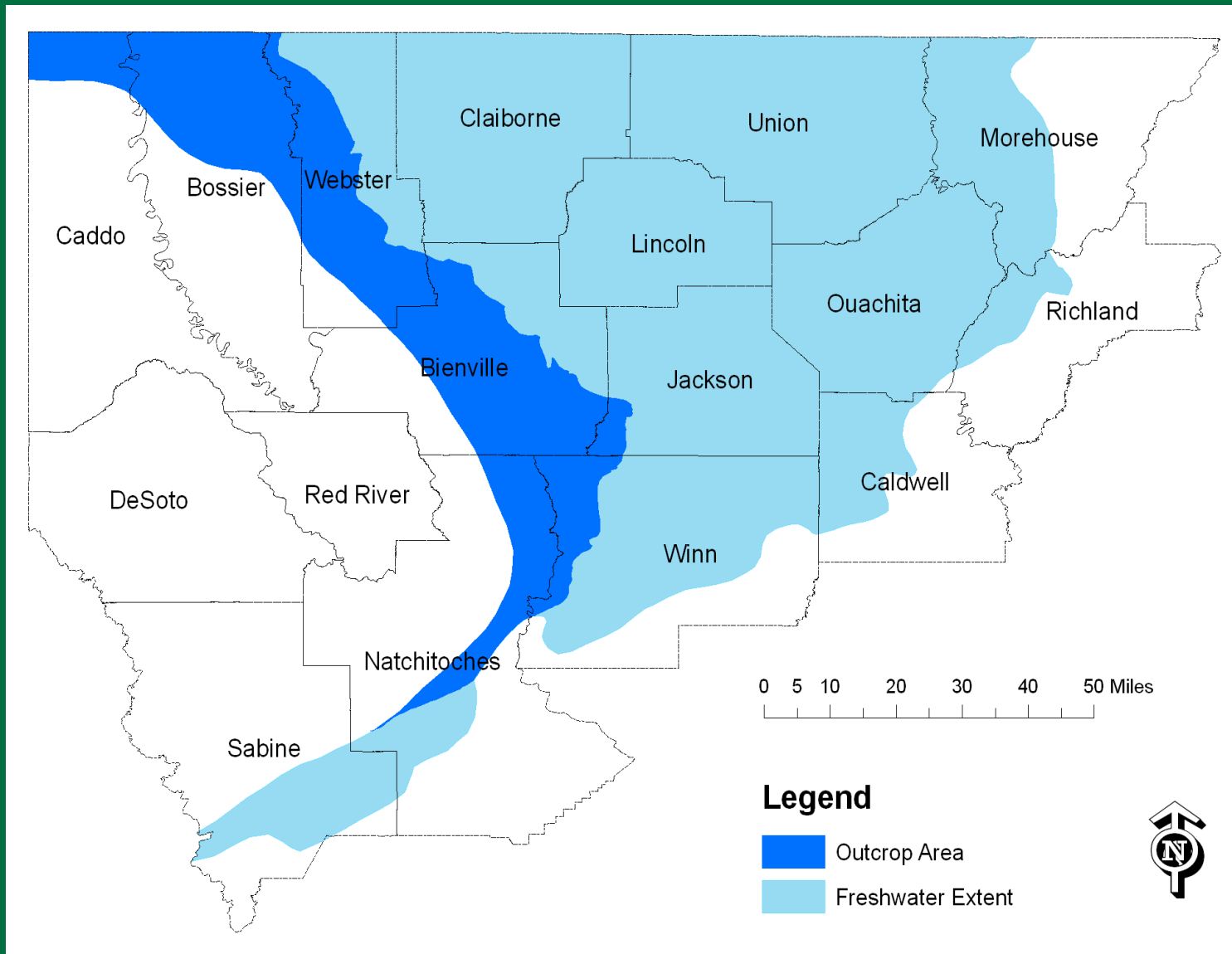
Sparta Water Use History in Louisiana

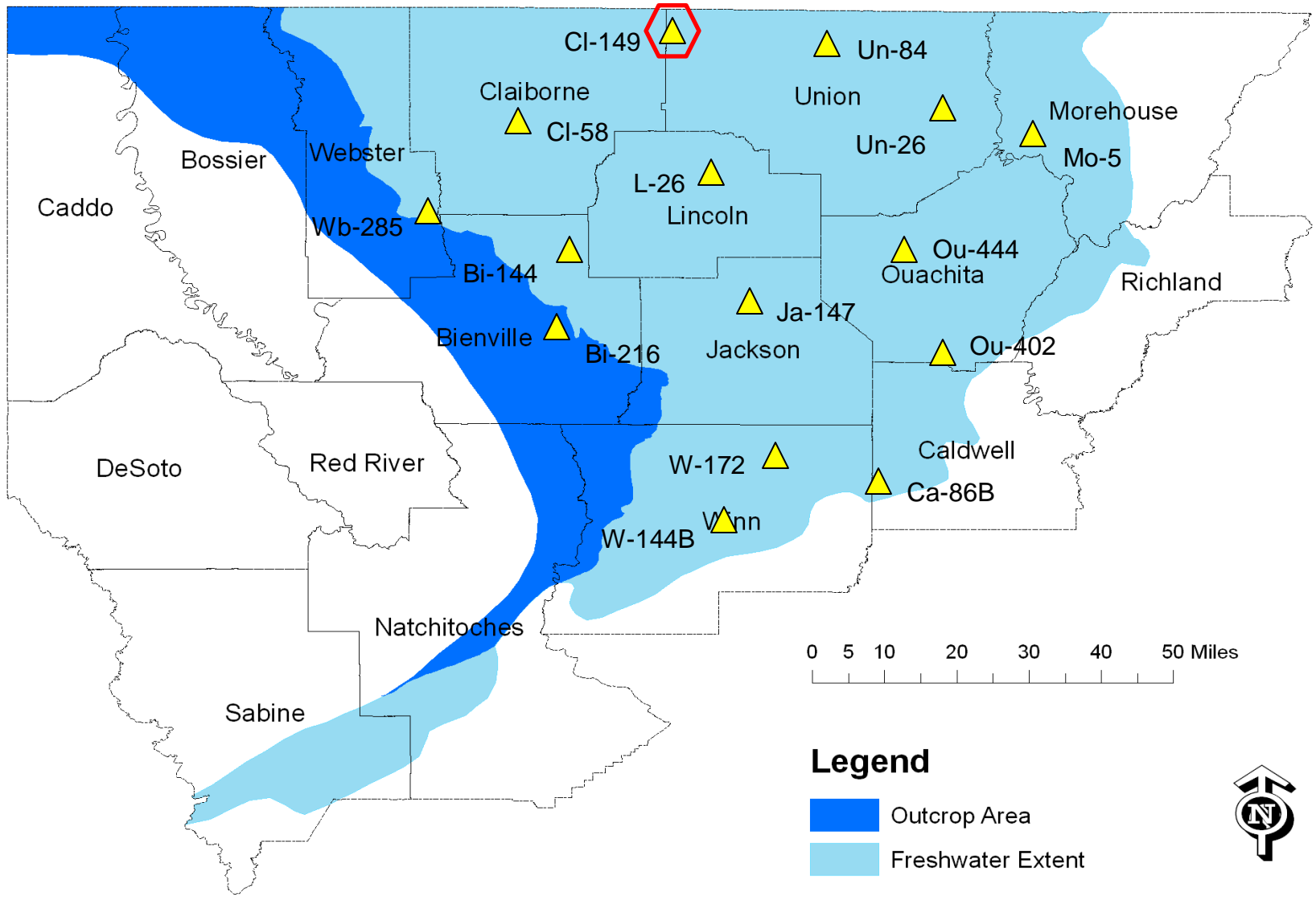


Centers of Pumpage in the Sparta, 2012



Sparta Aquifer Extent in Louisiana

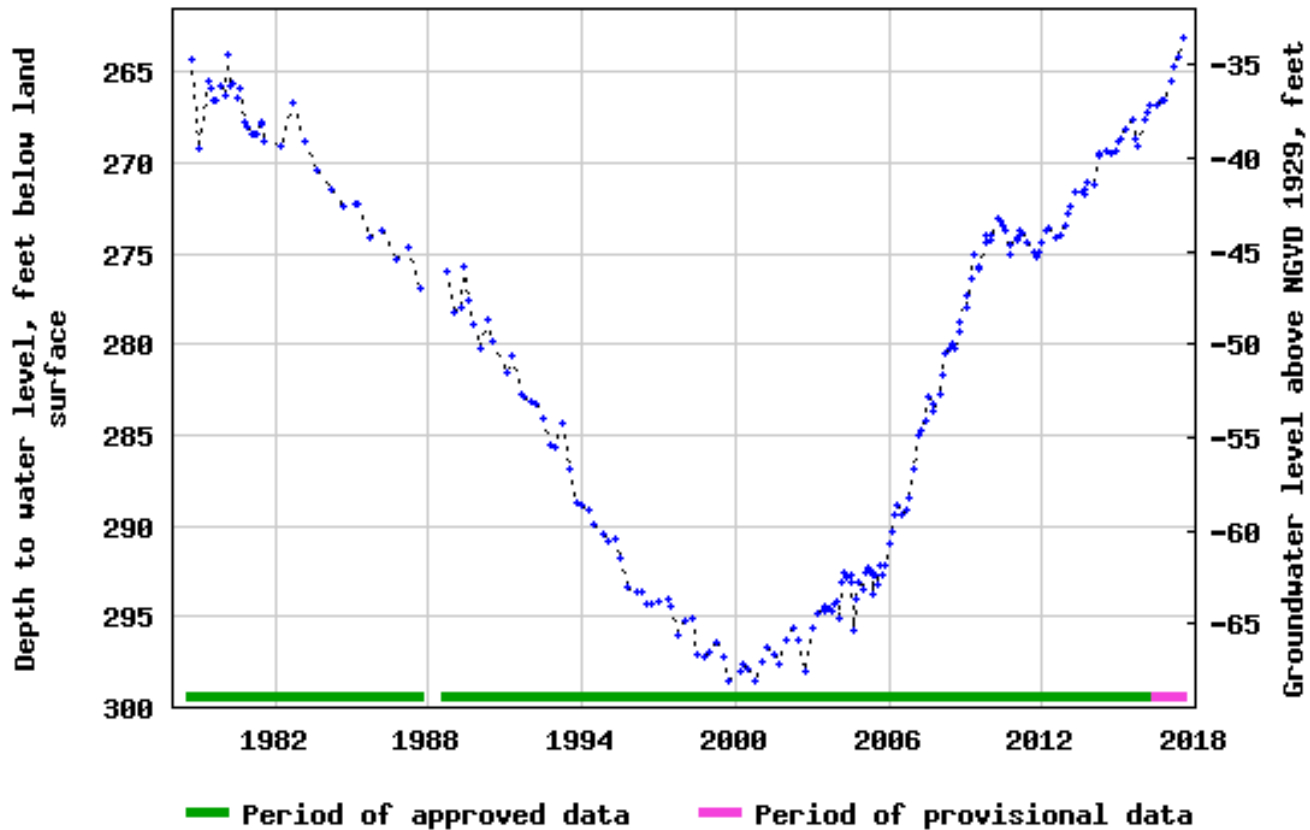


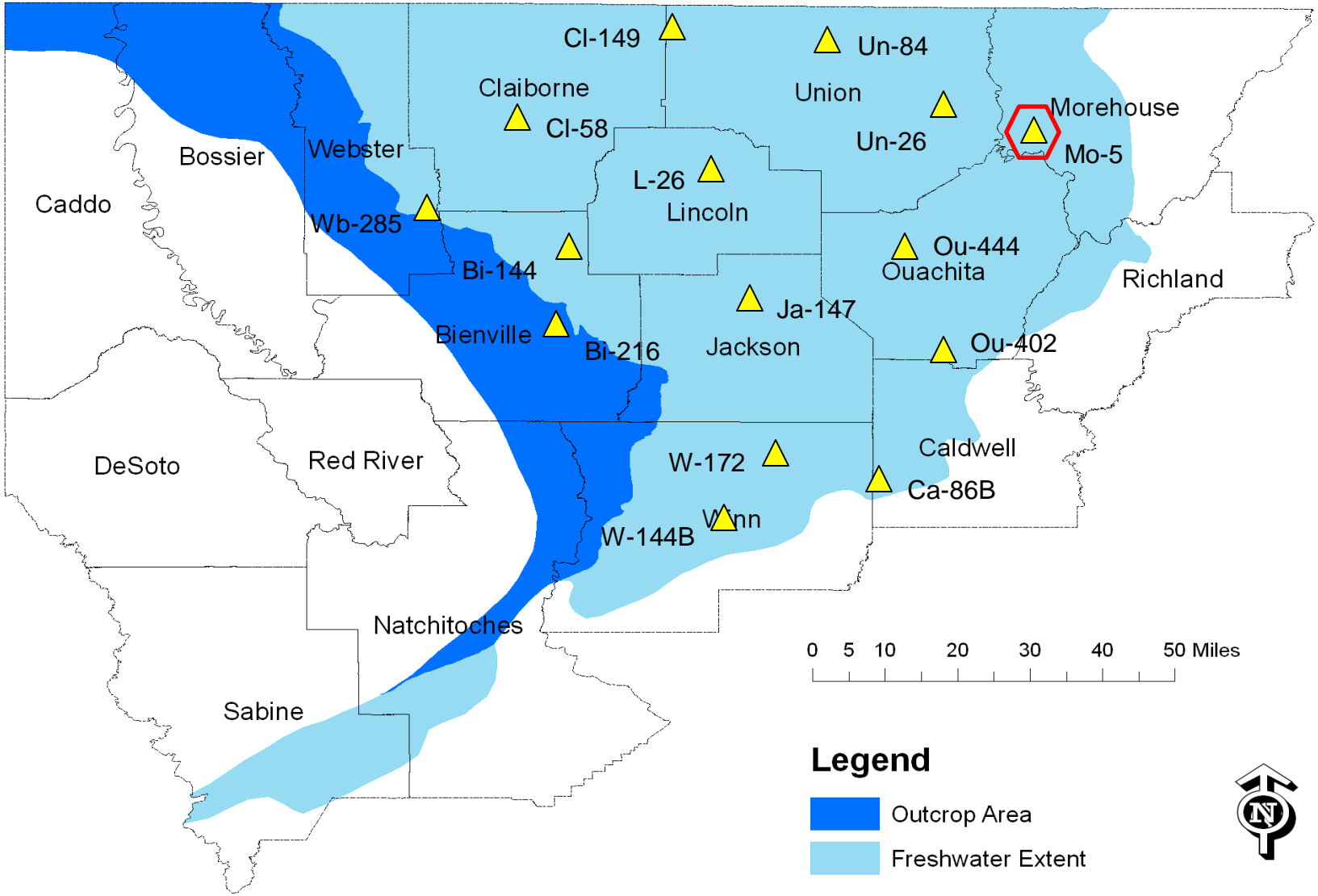


Water Levels - Louisiana CI-149 (Junction City)



USGS 330002092445901 CI-149



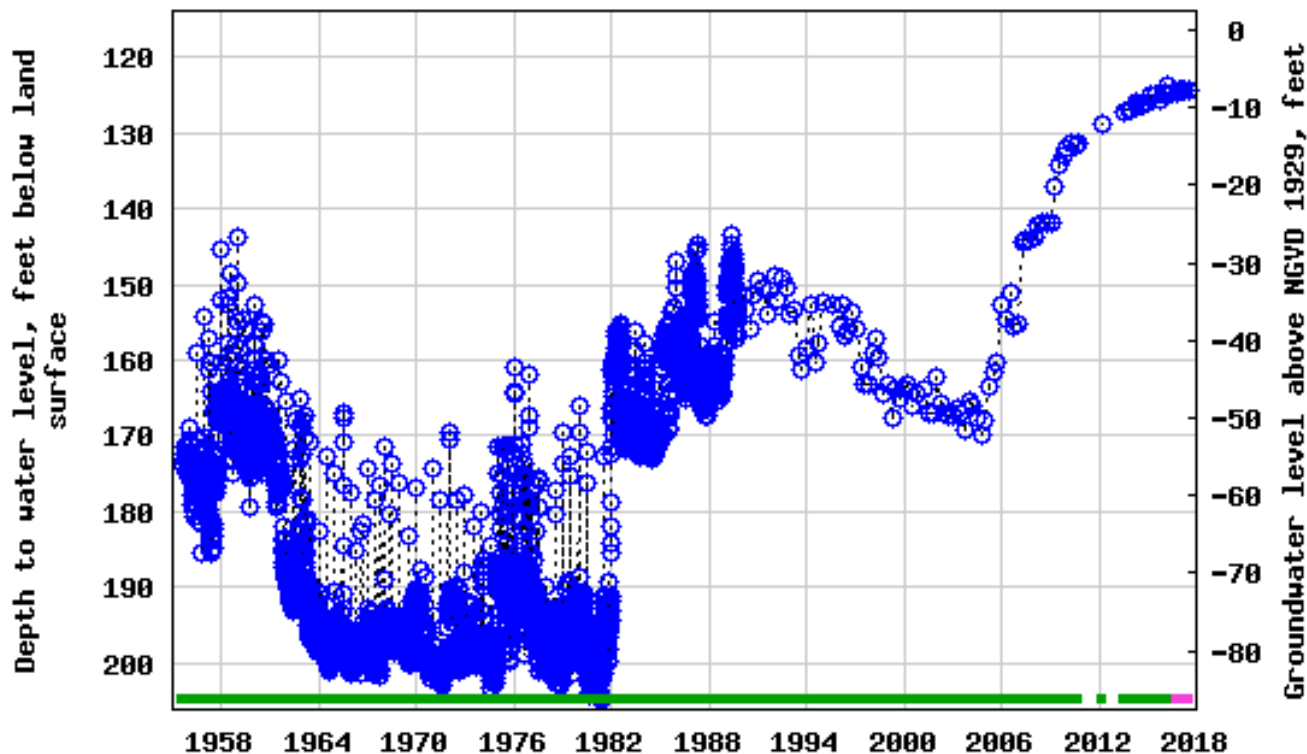


Water Levels - Louisiana

Mo-5 (Bastrop)

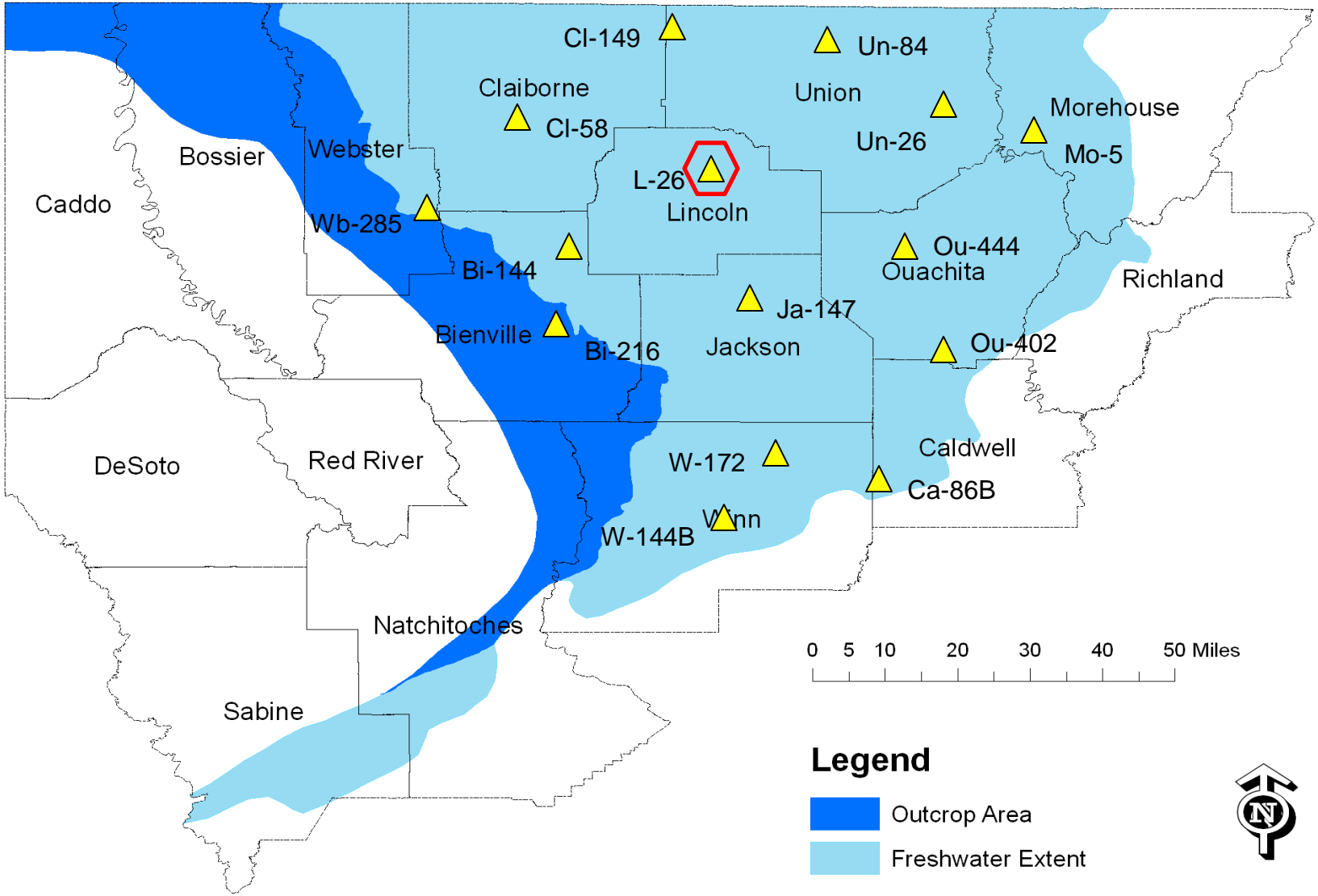


USGS 324626091543901 Mo-5



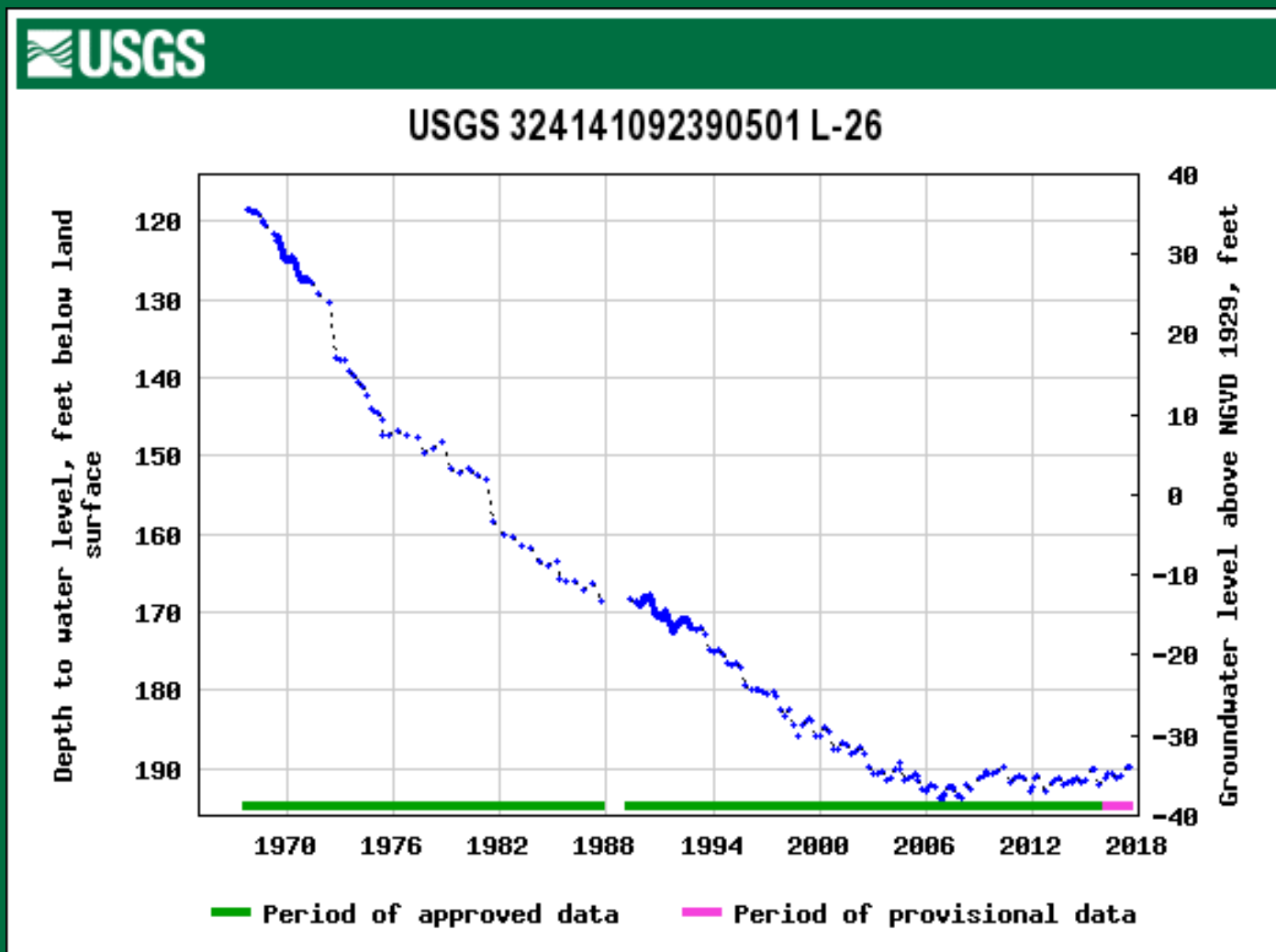
— Period of approved data

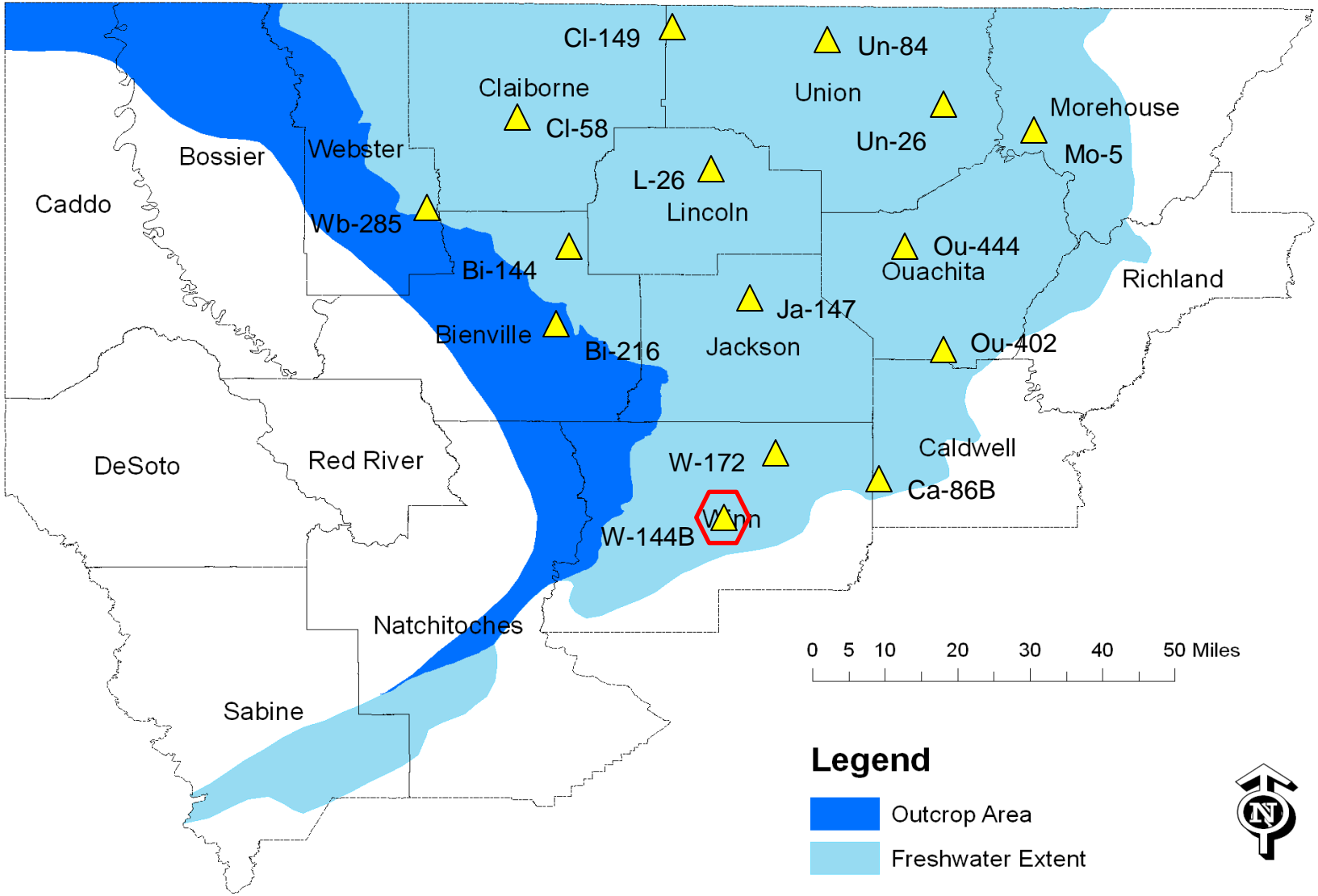
— Period of provisional data



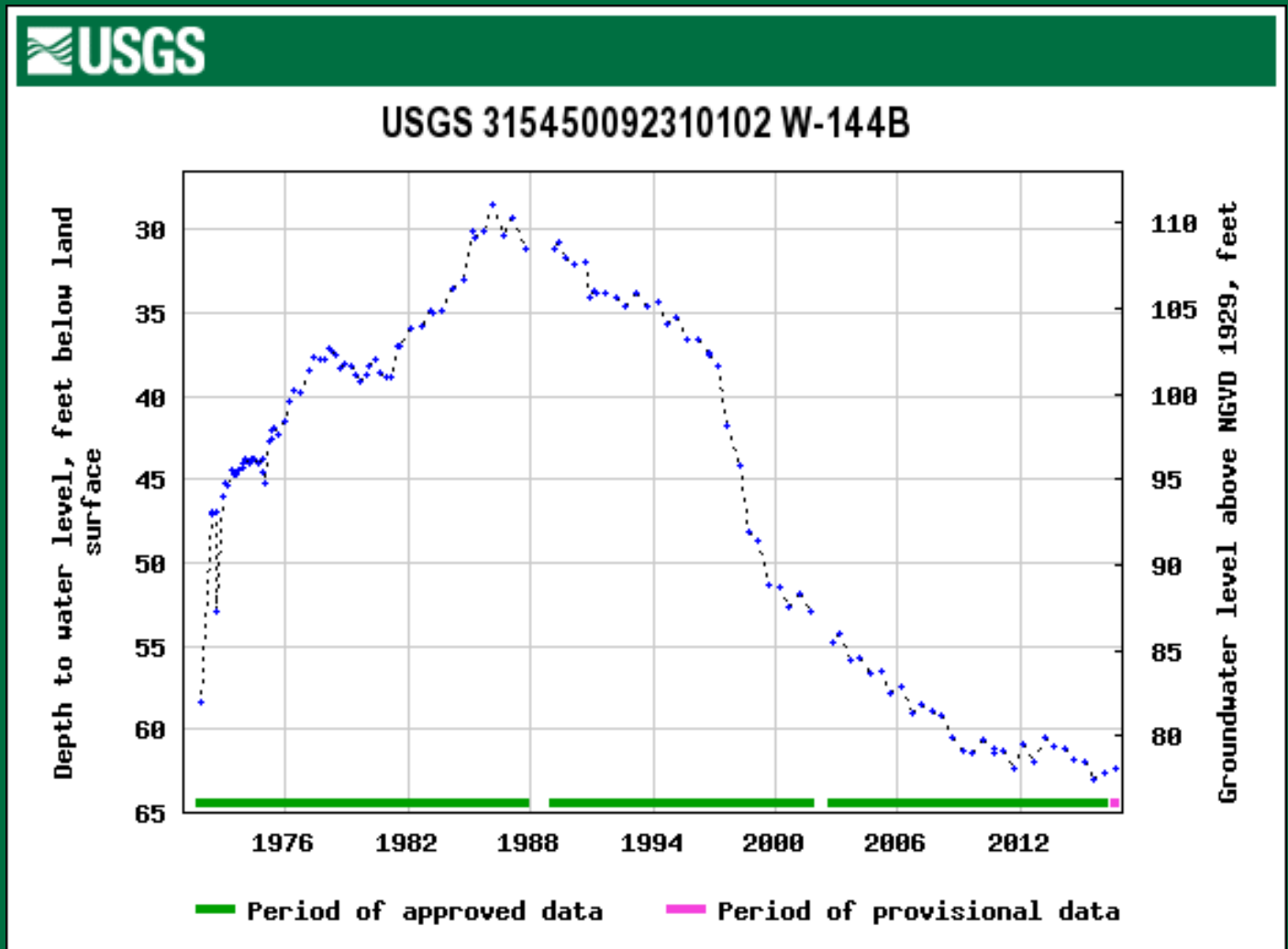
Water Levels - Louisiana

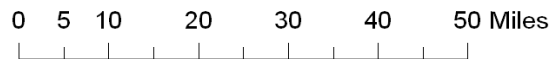
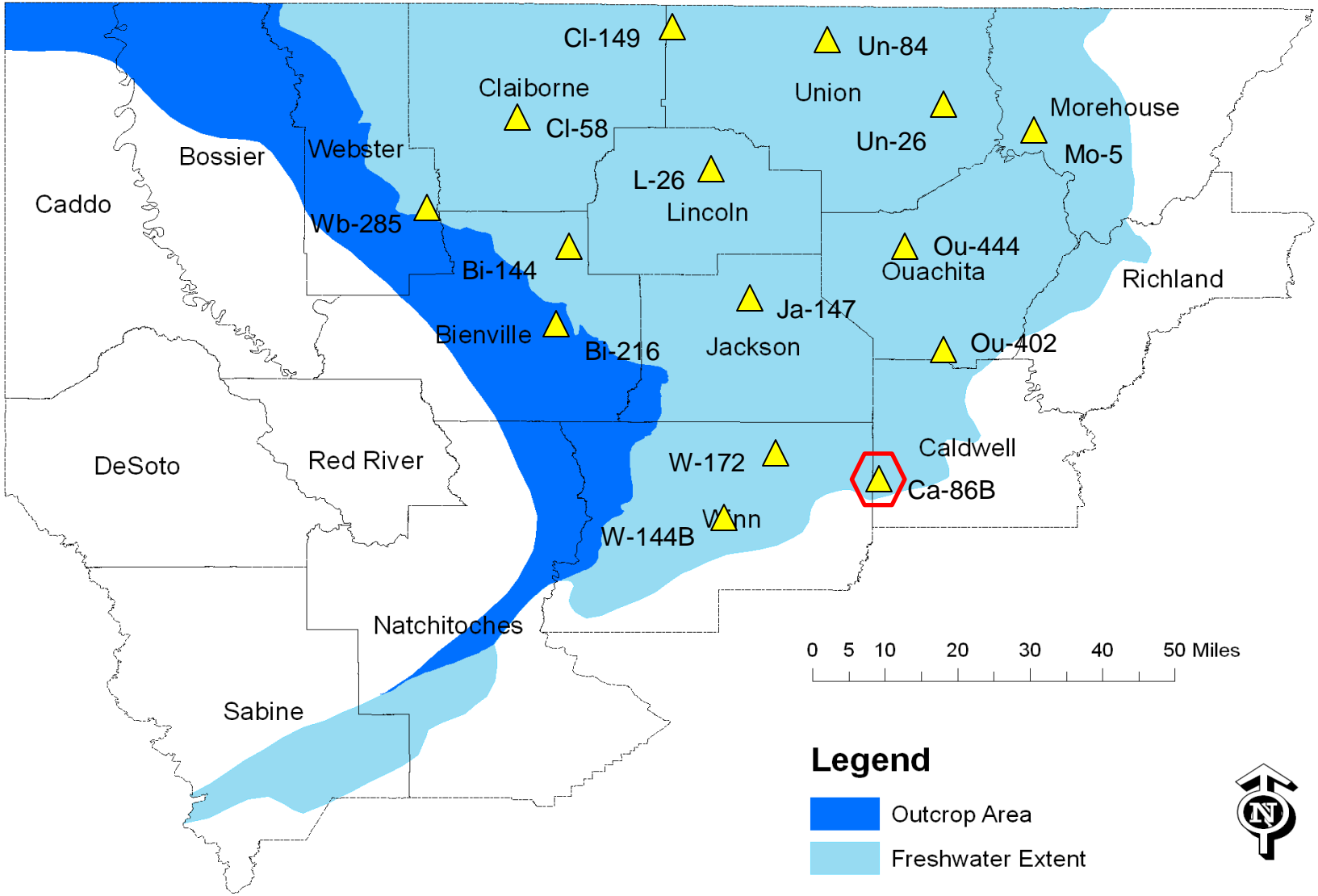
L-26 (Dubach)





Water Levels - Louisiana W-144B (Winnfield)



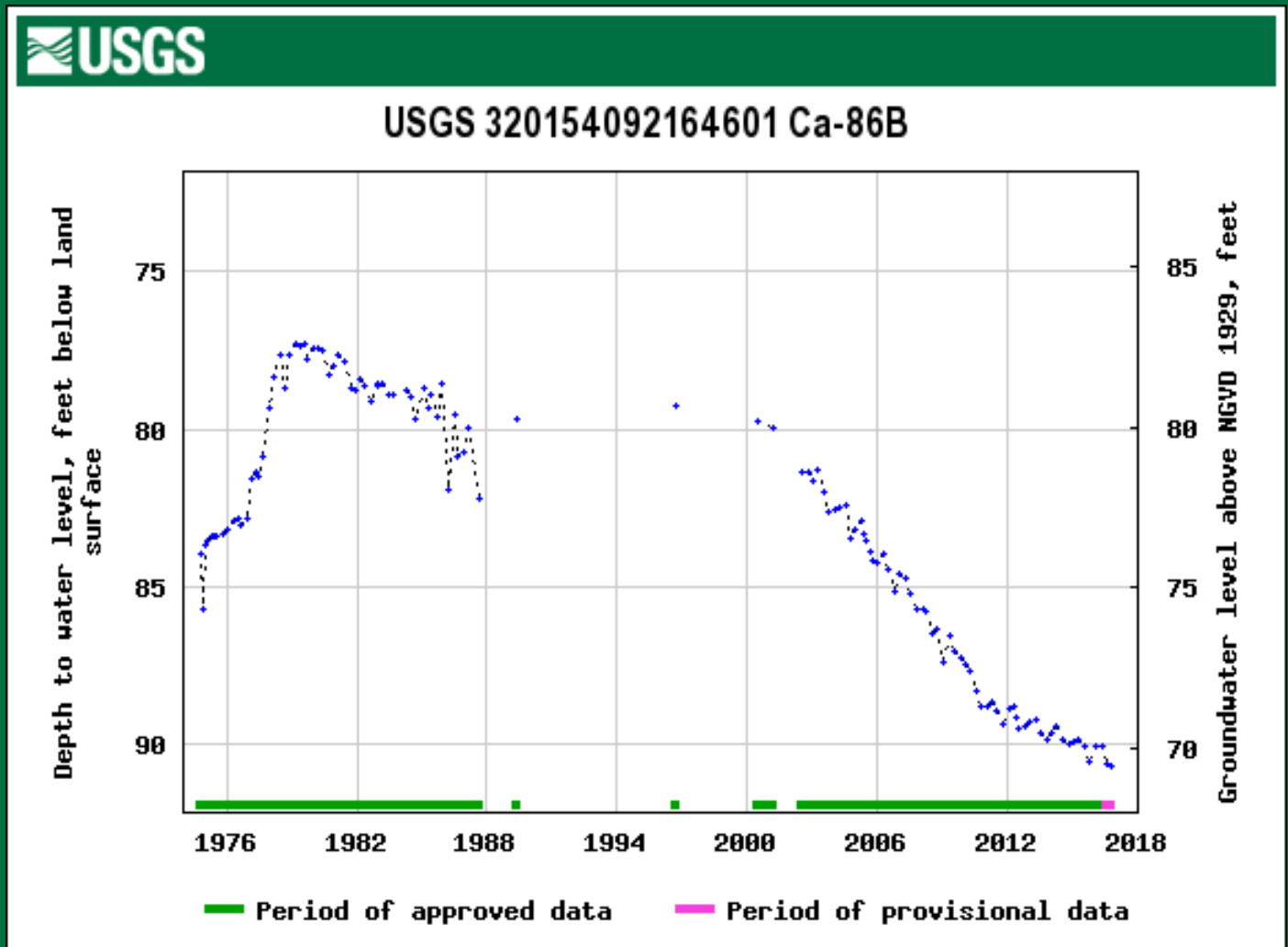


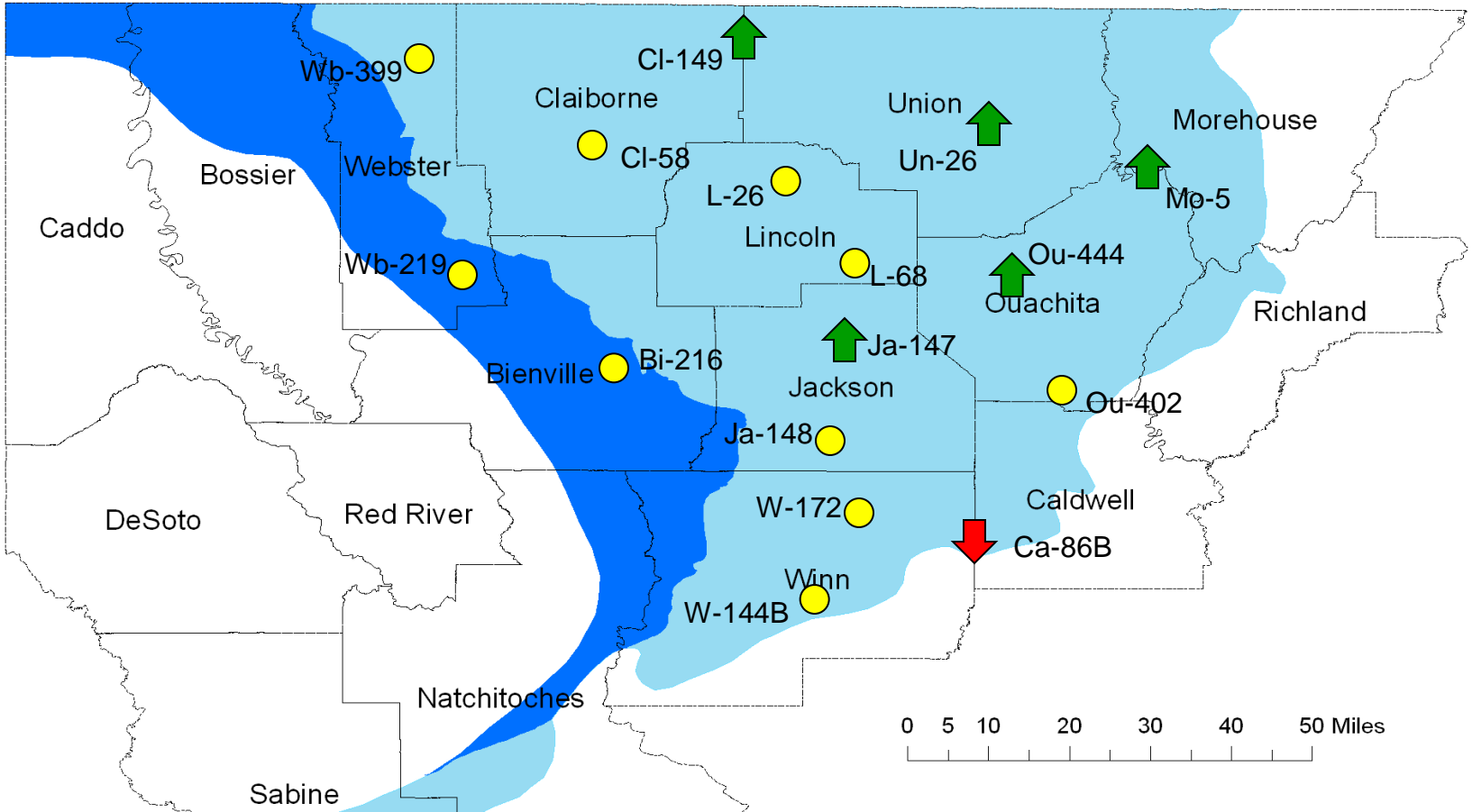
Legend




- Outcrop Area
- Freshwater Extent





Water Levels - Louisiana Ca-86B (Vixen)



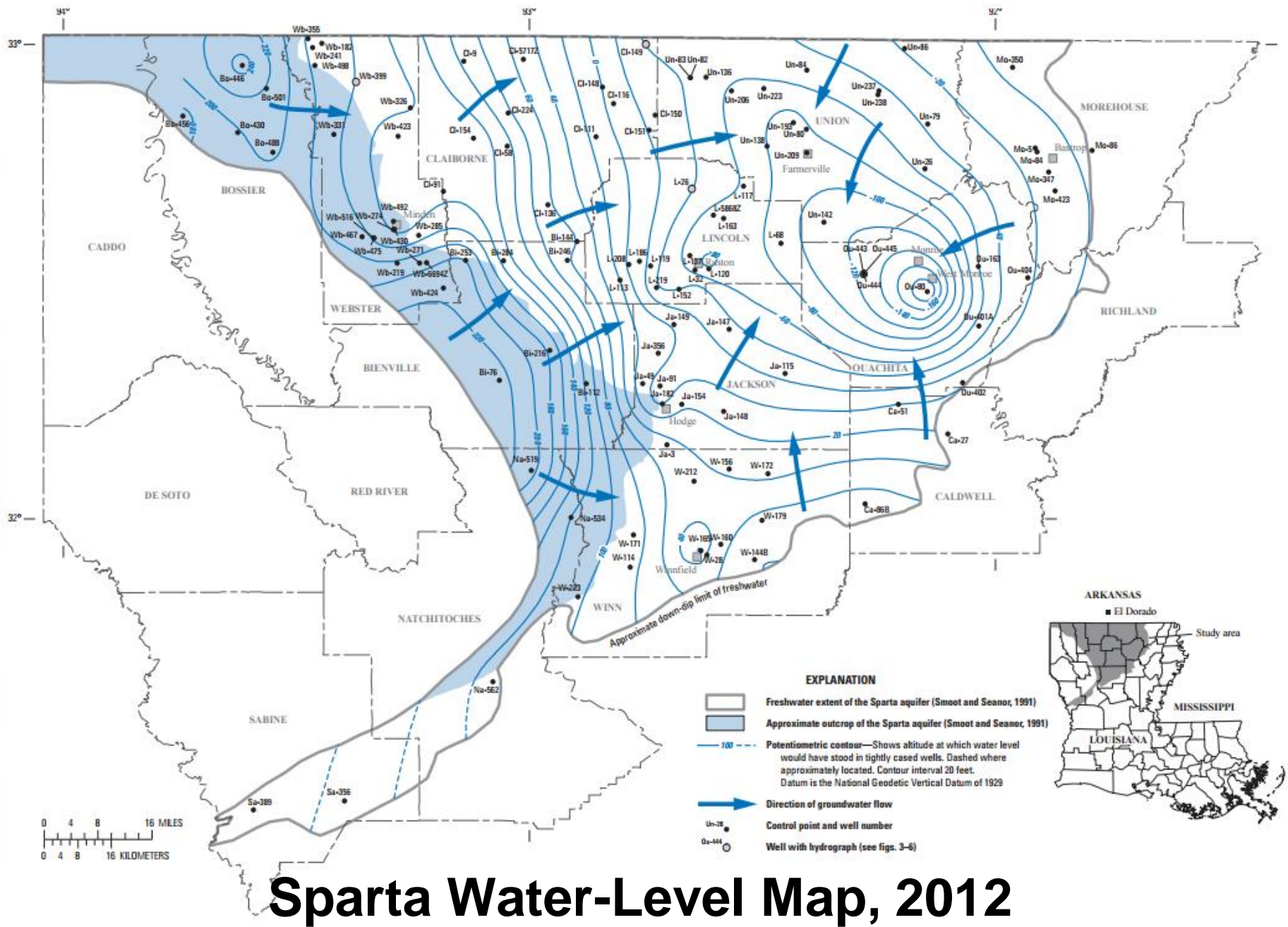


-  Increasing Water Level Trend (2012-current)
-  Decreasing Water Level Trend (2012-current)
-  No Substantial Water Level Trend (2012-current)

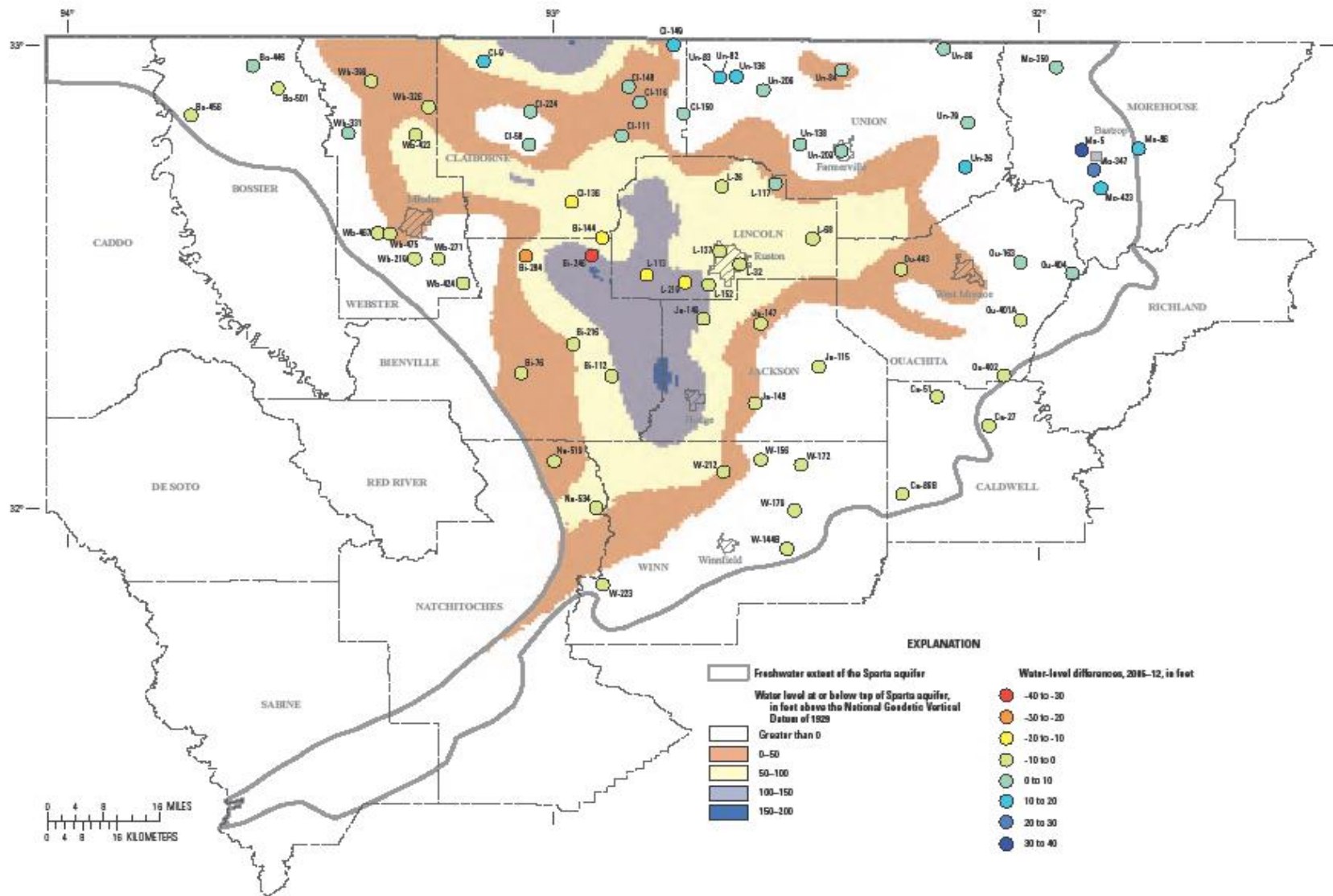
Legend

-  Outcrop Area
-  Freshwater Extent





Sparta Water-Level Map, 2012

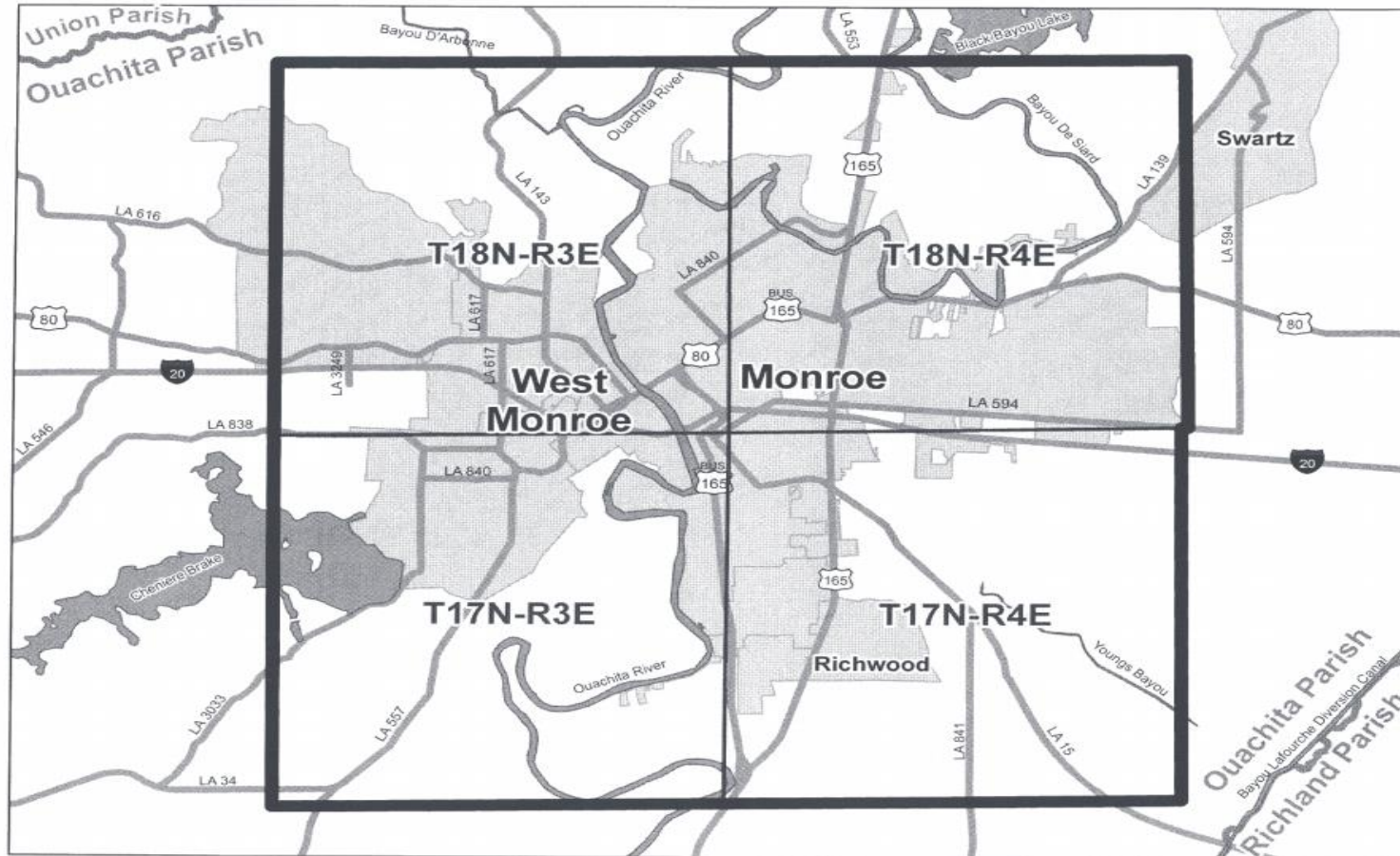


Sparta Water Levels Below TOS Map, 2012

Areas of GW Concern - Sparta

Monroe-West Monroe Area of Ground Water Concern

Order AGC-1-05

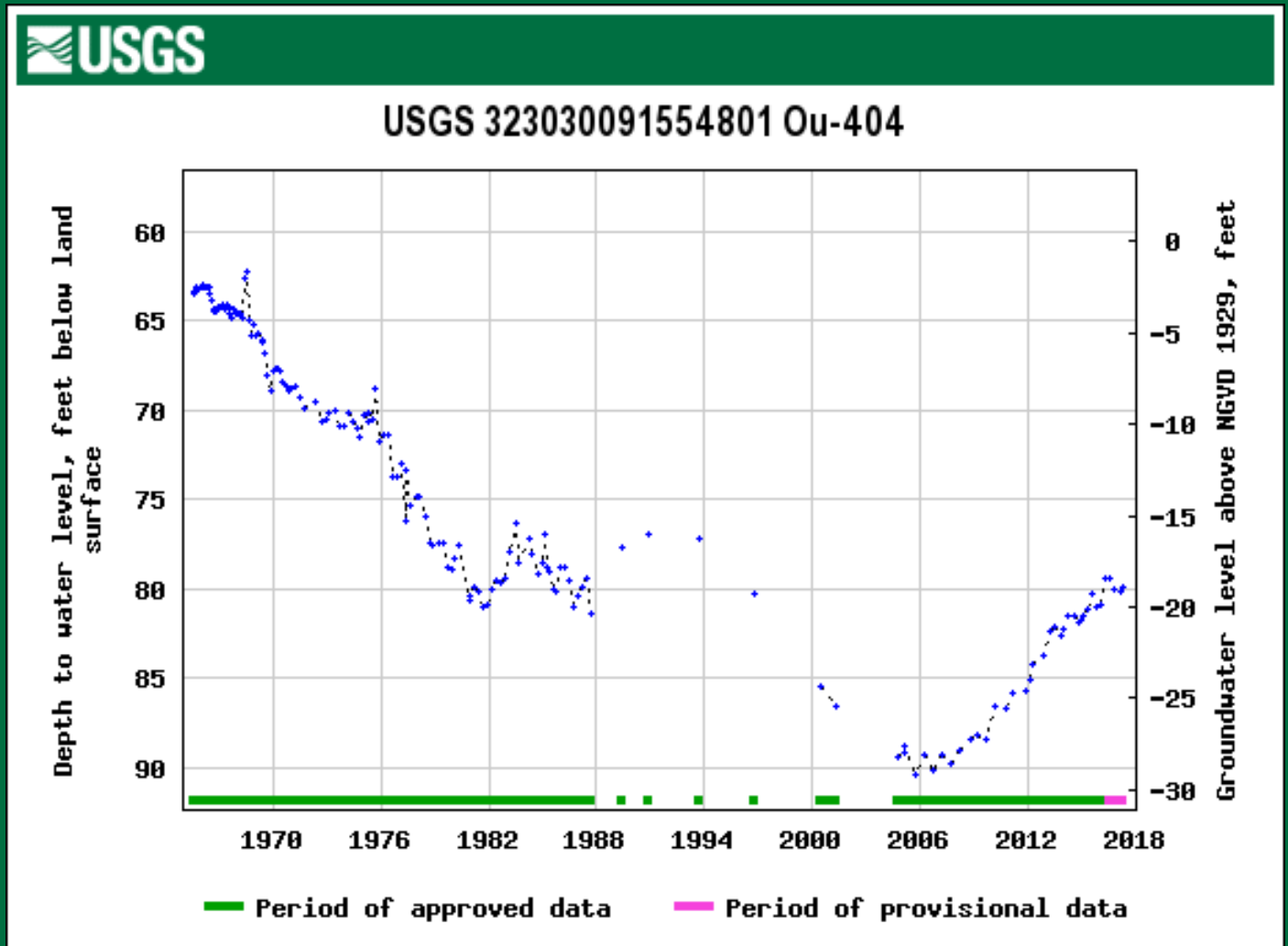


0 1.5 3 6 Miles

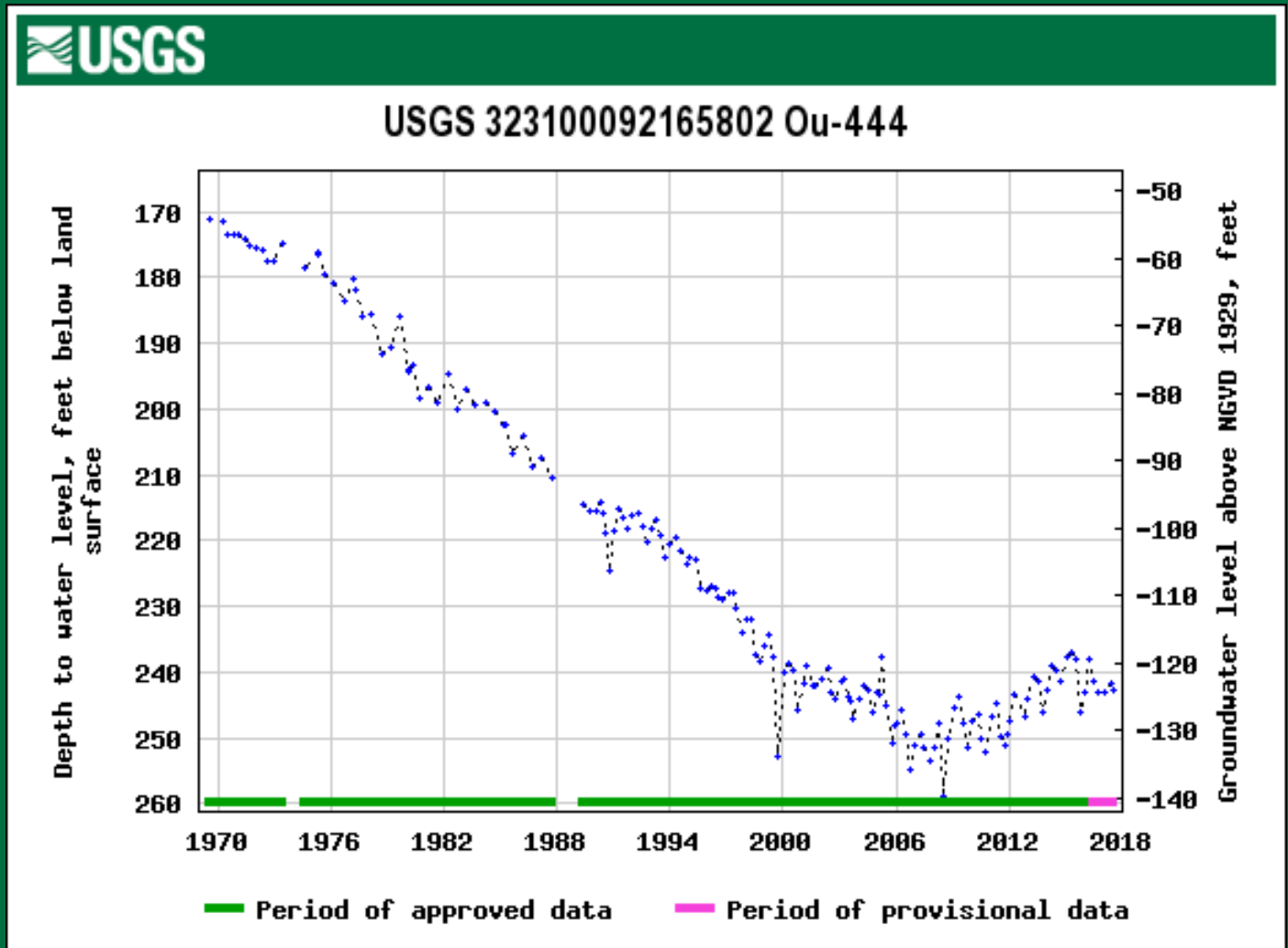


Attachment "A"

Monroe-W. Monroe Area of GW Concern Ou-404 (Monroe)



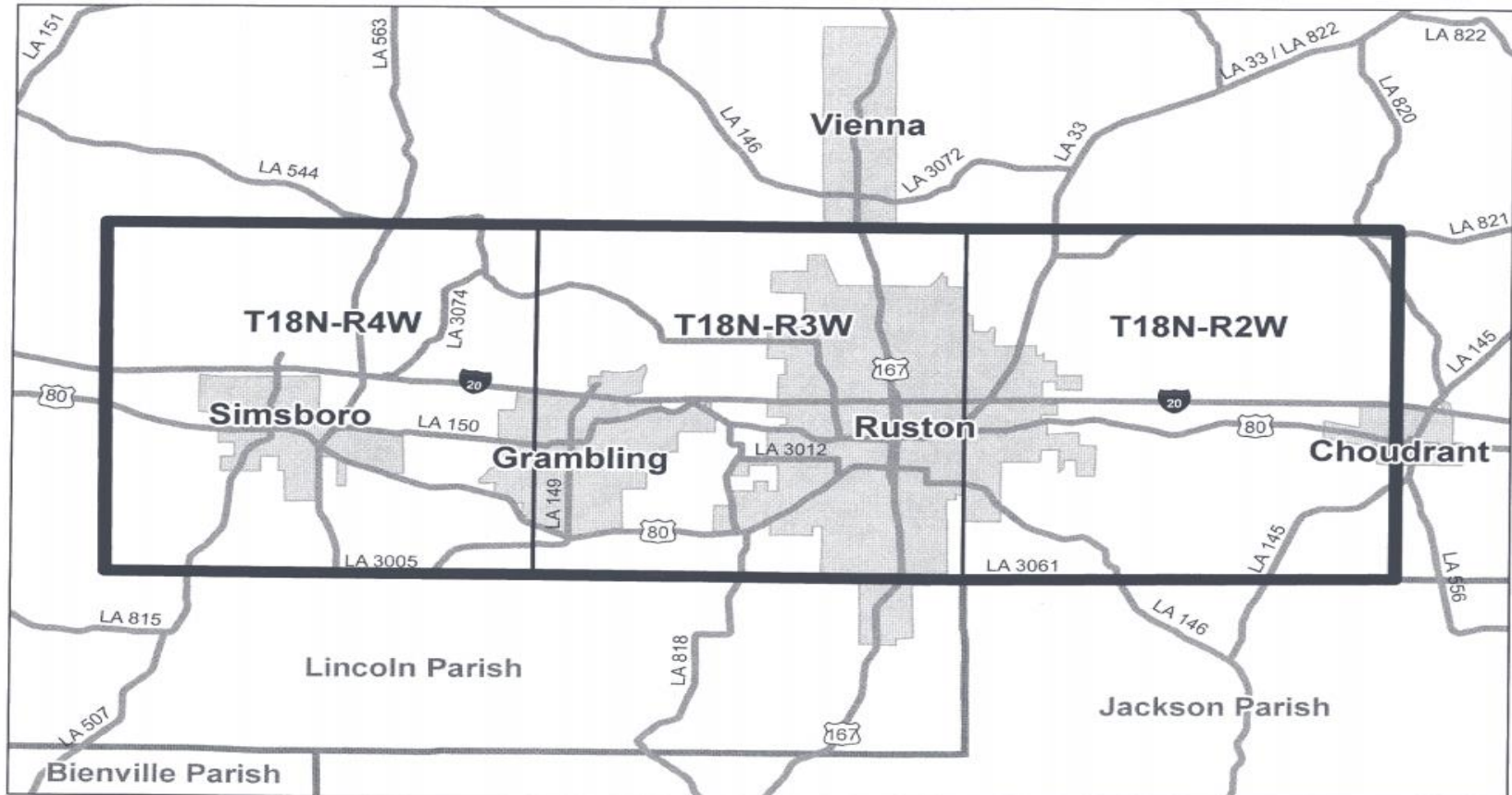
Monroe-W. Monroe Area of GW Concern Ou-444 (West Monroe)



Areas of GW Concern - Sparta

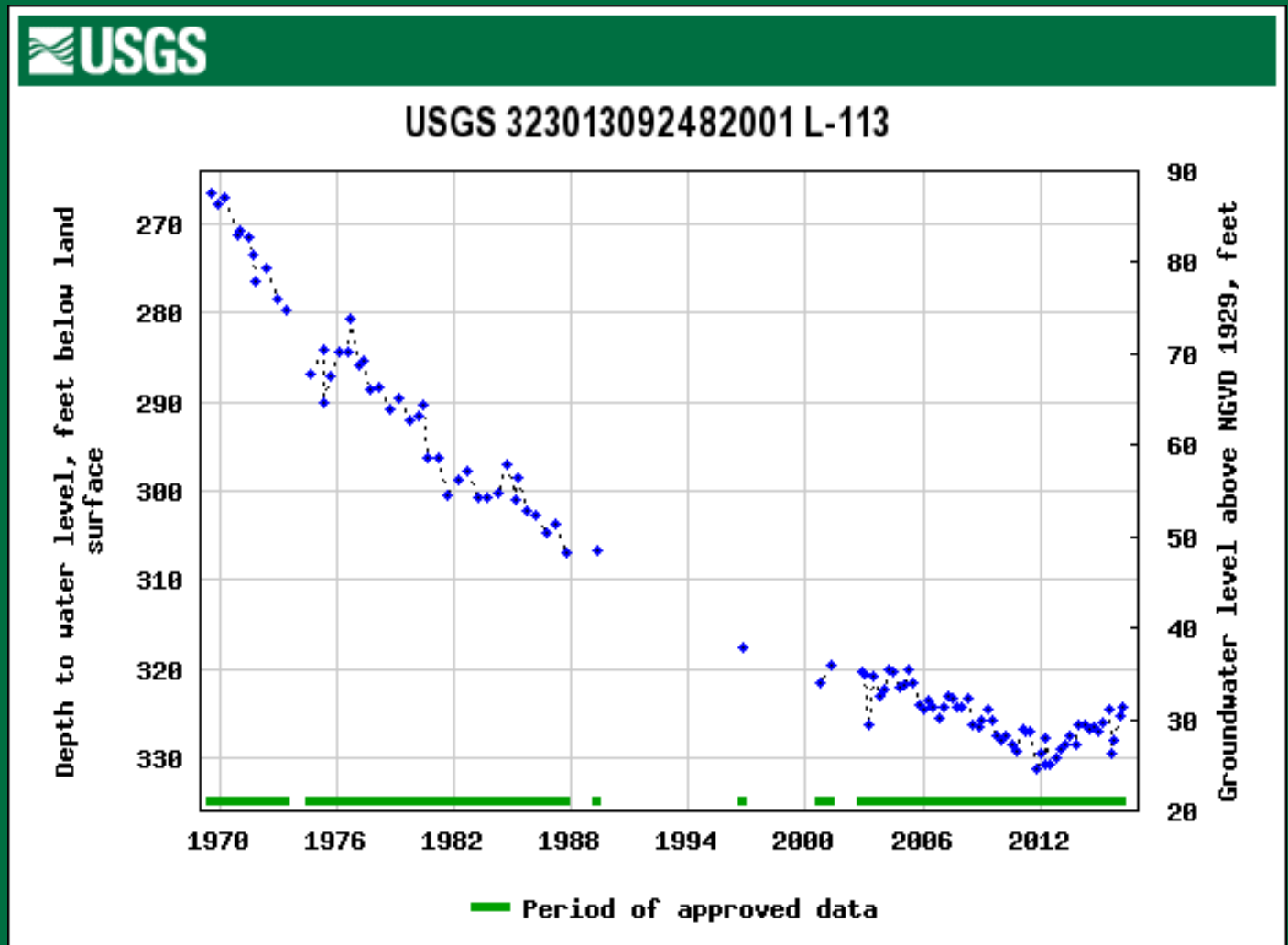
Ruston Area of Ground Water Concern

Order AGC-1-05

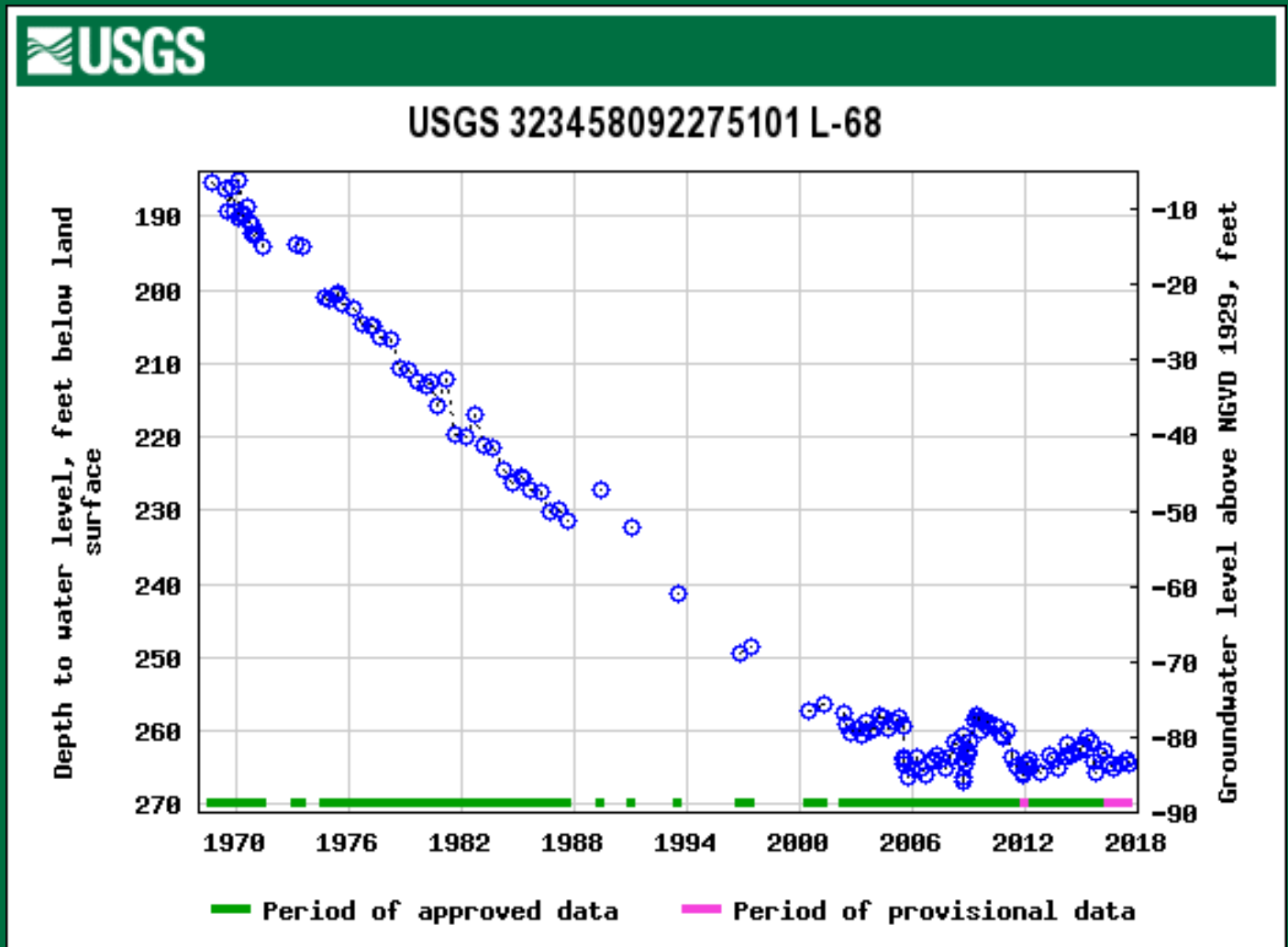


Attachment "B"

Ruston Area of GW Concern L-113 (Simsboro)



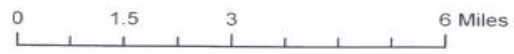
Ruston Area of GW Concern L-68 (Sibley)



Areas of GW Concern - Sparta

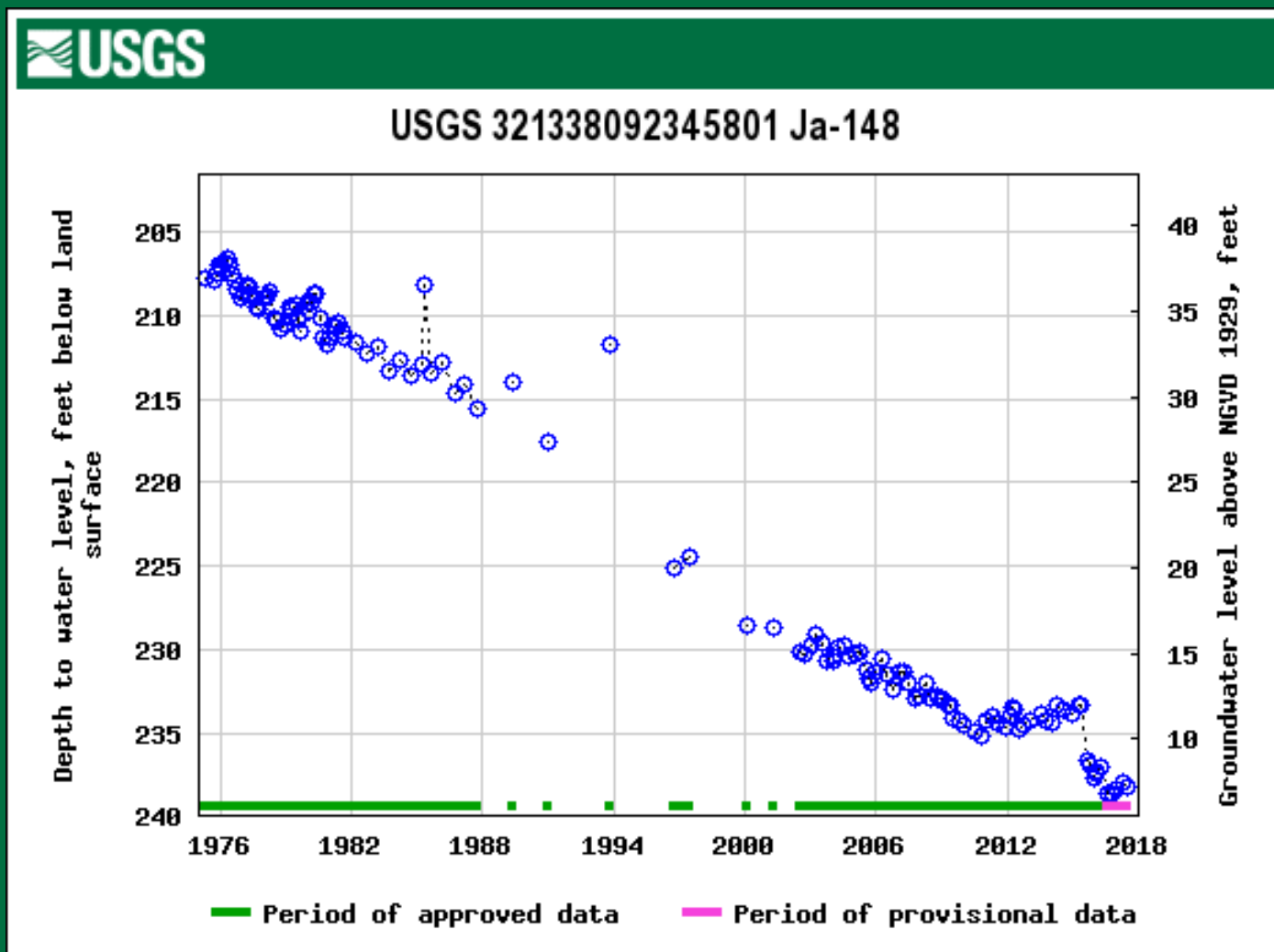
Jonesboro-Hodge Area of Ground Water Concern

Order AGC-1-05

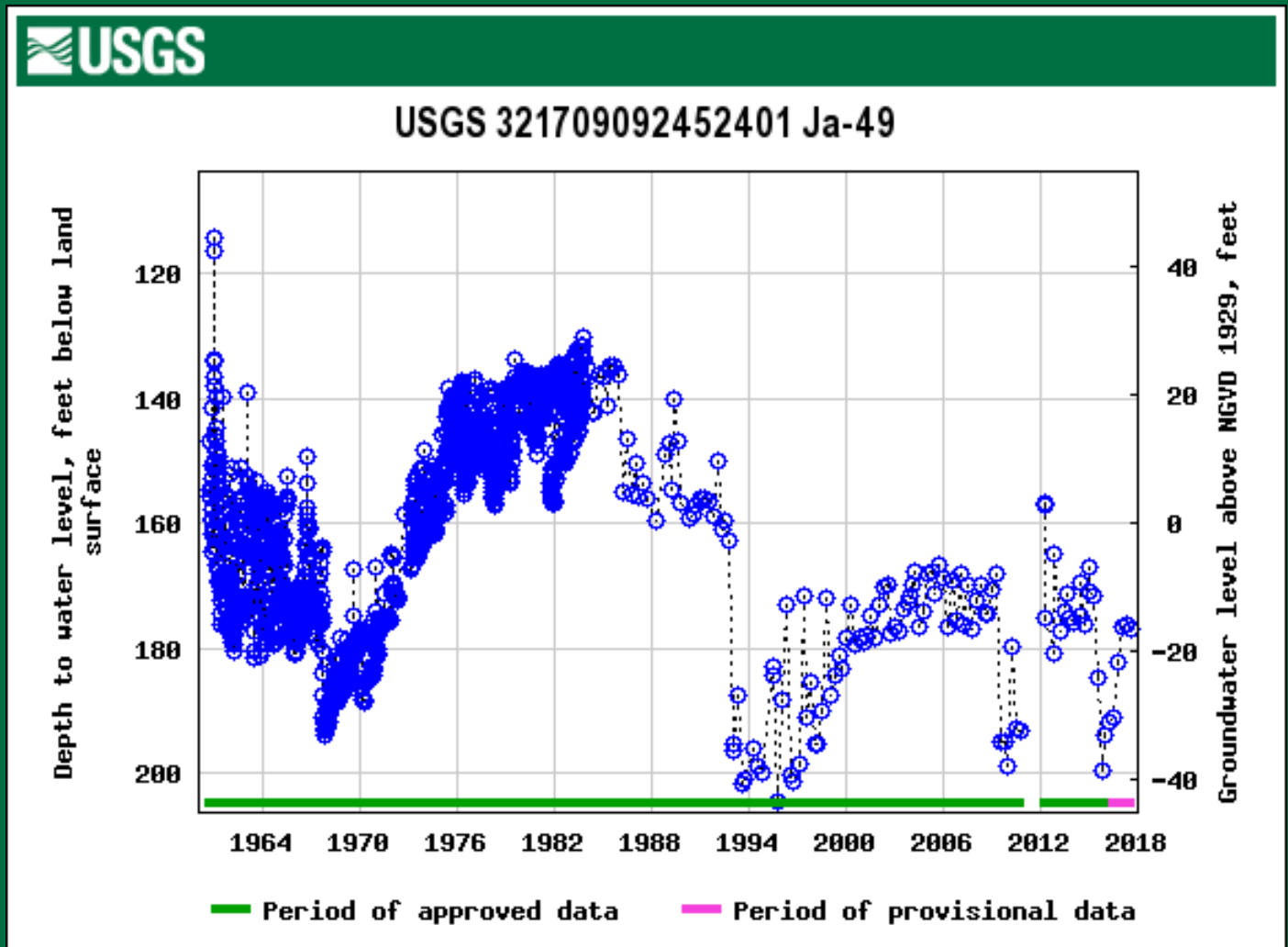


Attachment "C"

Jonesboro-Hodge Area of GW Concern Ja-148 (Jonesboro)



Jonesboro-Hodge Area of GW Concern Ja-49 (Hodge)



Summary & Issues going forward...

- For the first time, we are NOT over-pumping the Sparta in Louisiana!!
- Conservation and education investments are paying dividends.
- Continued water use and conservation of the Sparta aquifer- still work to do in the Sparta!
- Continued monitoring of Louisiana's water resources.

Questions??

