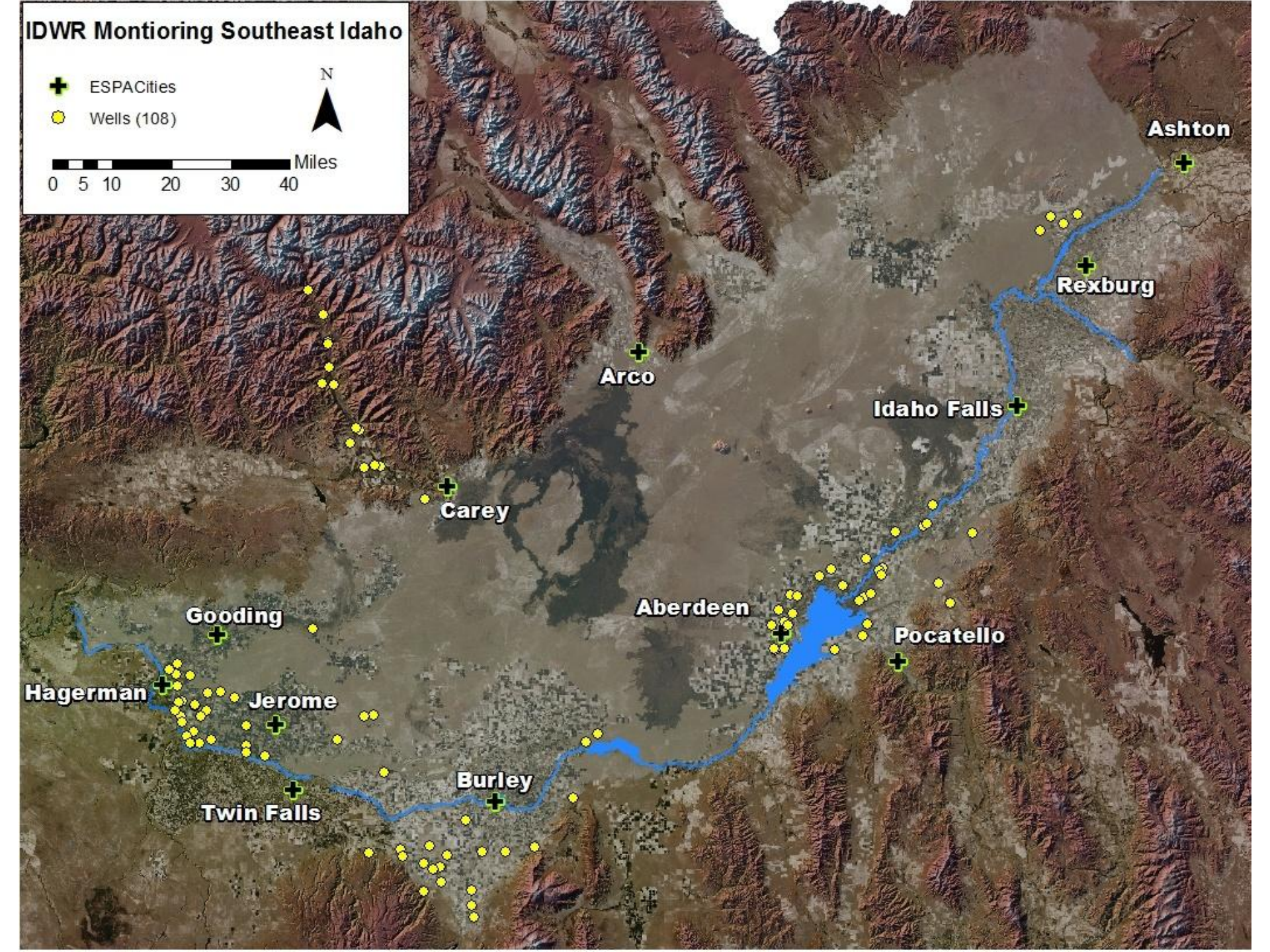
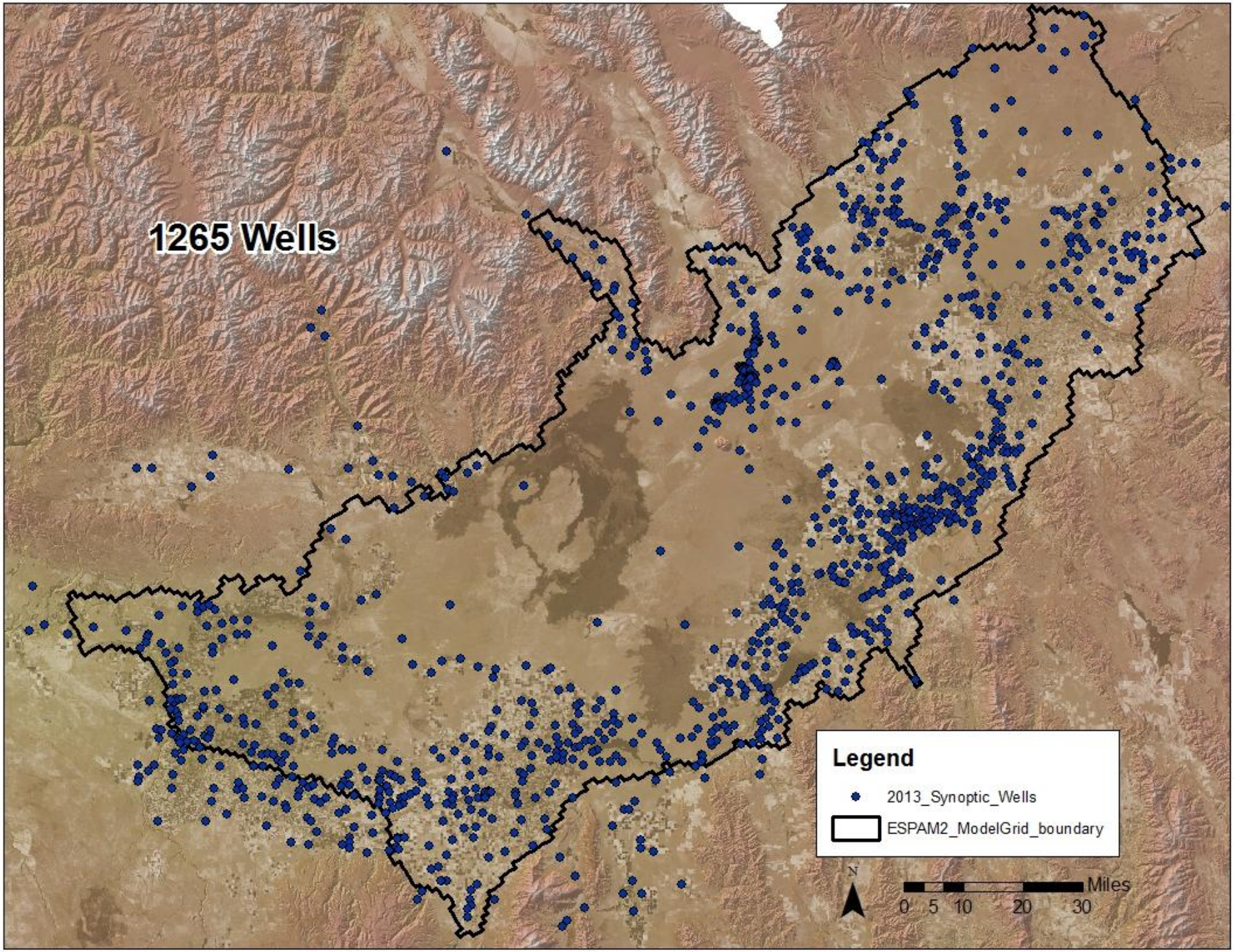
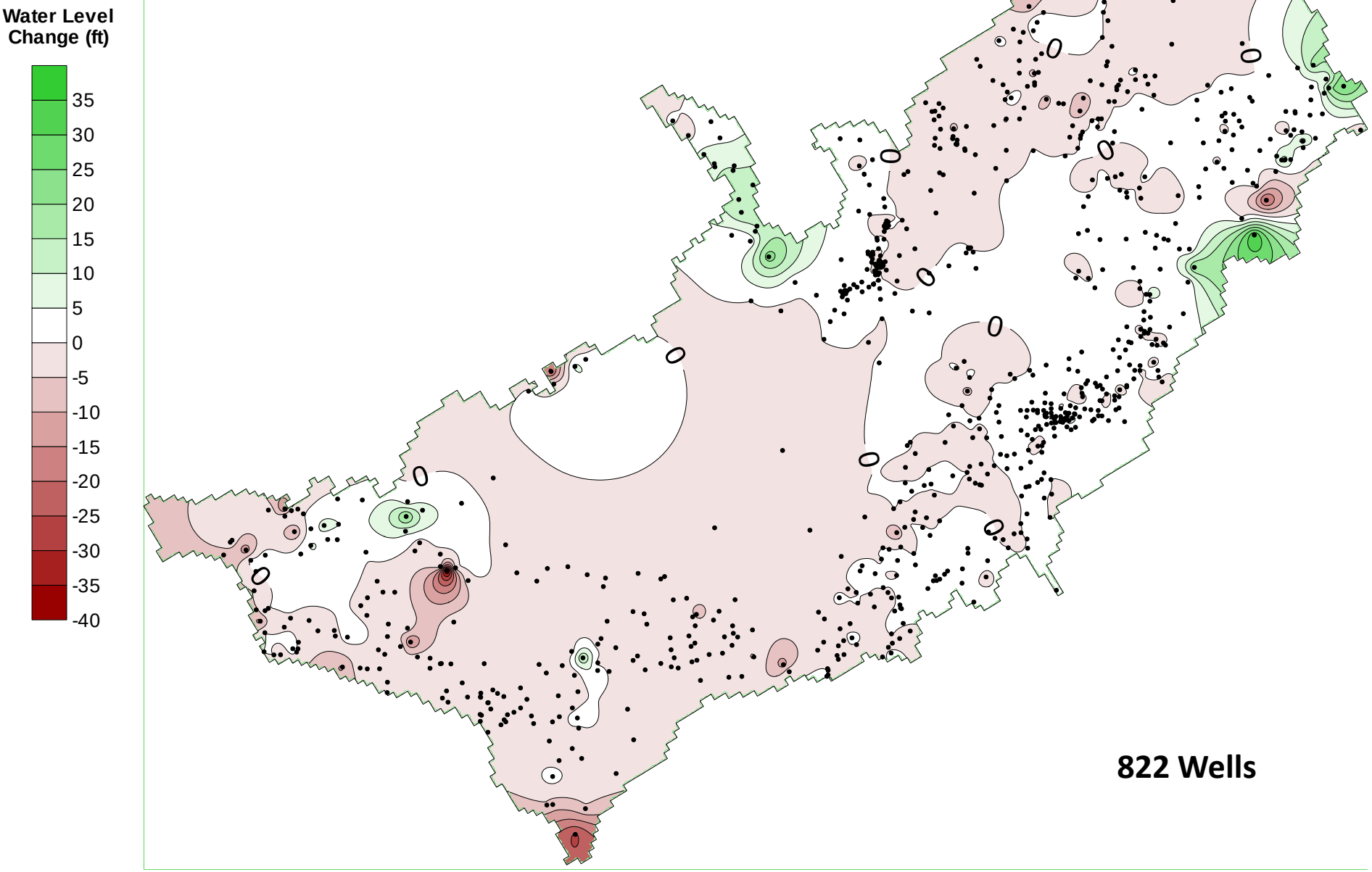
ESPA Aquifer Storage Changes – Updated to 2013

Presented by Mike McVay, P.E., P.G.
January 31, 2014

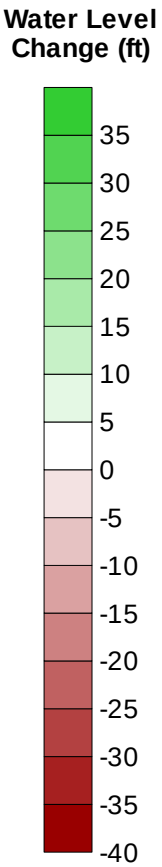

IDWR Montioring Southeast Idaho
ESPACities
Wells (108)
N
Miles
0 5 10 20 30 40
Ashton
Rexburg
Arco
Idaho Falls
Carey
Aberdeen
Pocatello
Gooding
Hagerman
Jerome
Burley
Twin Falls


1265 Wells
Legend
2013_Synoptic_Wells
ESPAM2_ModelGrid_boundary
N
Miles
0 5 10 20 30

Water Level Change - Spring 2008 to Spring 2013

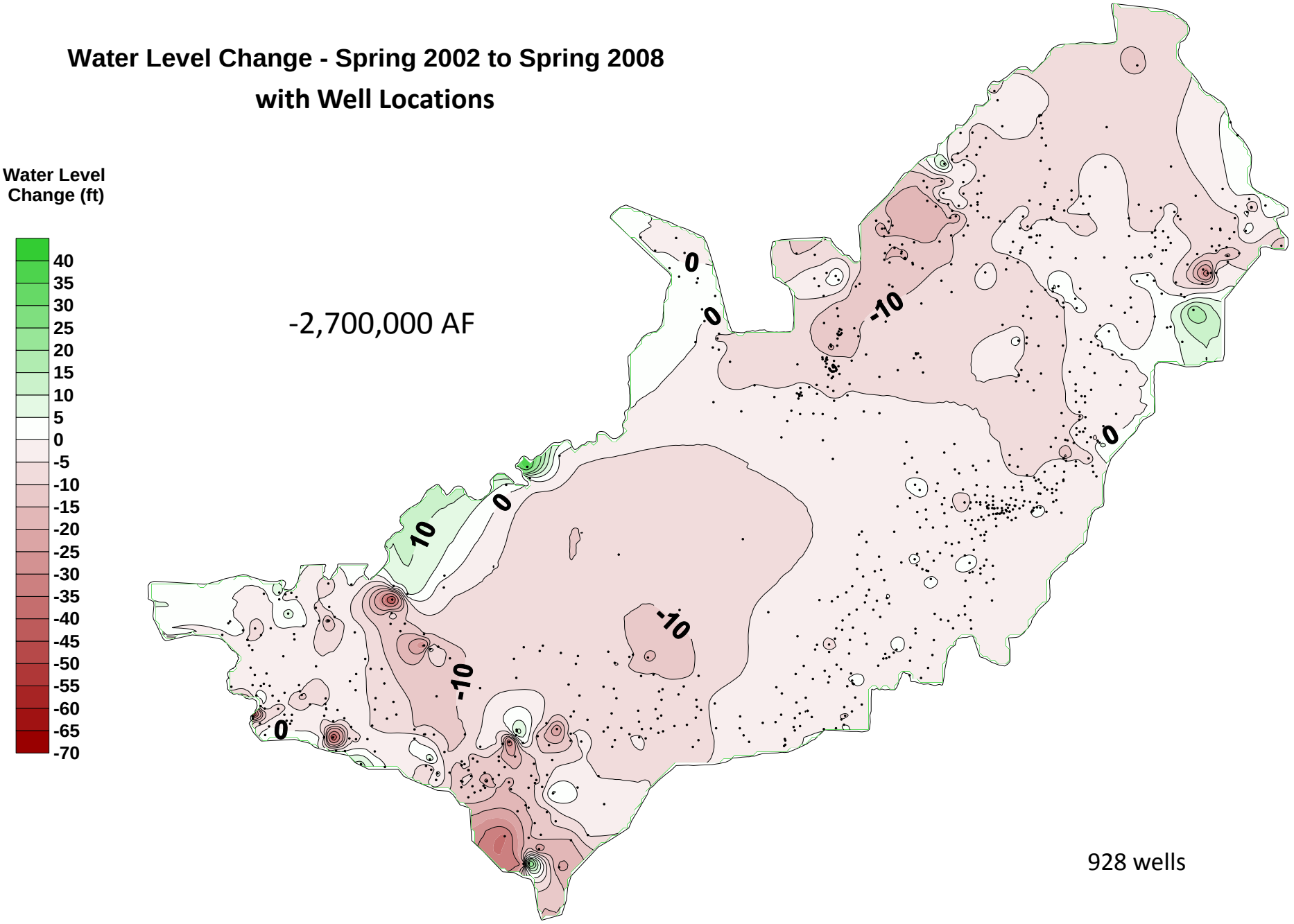


Water Level Change - Spring 2008 to Spring 2013

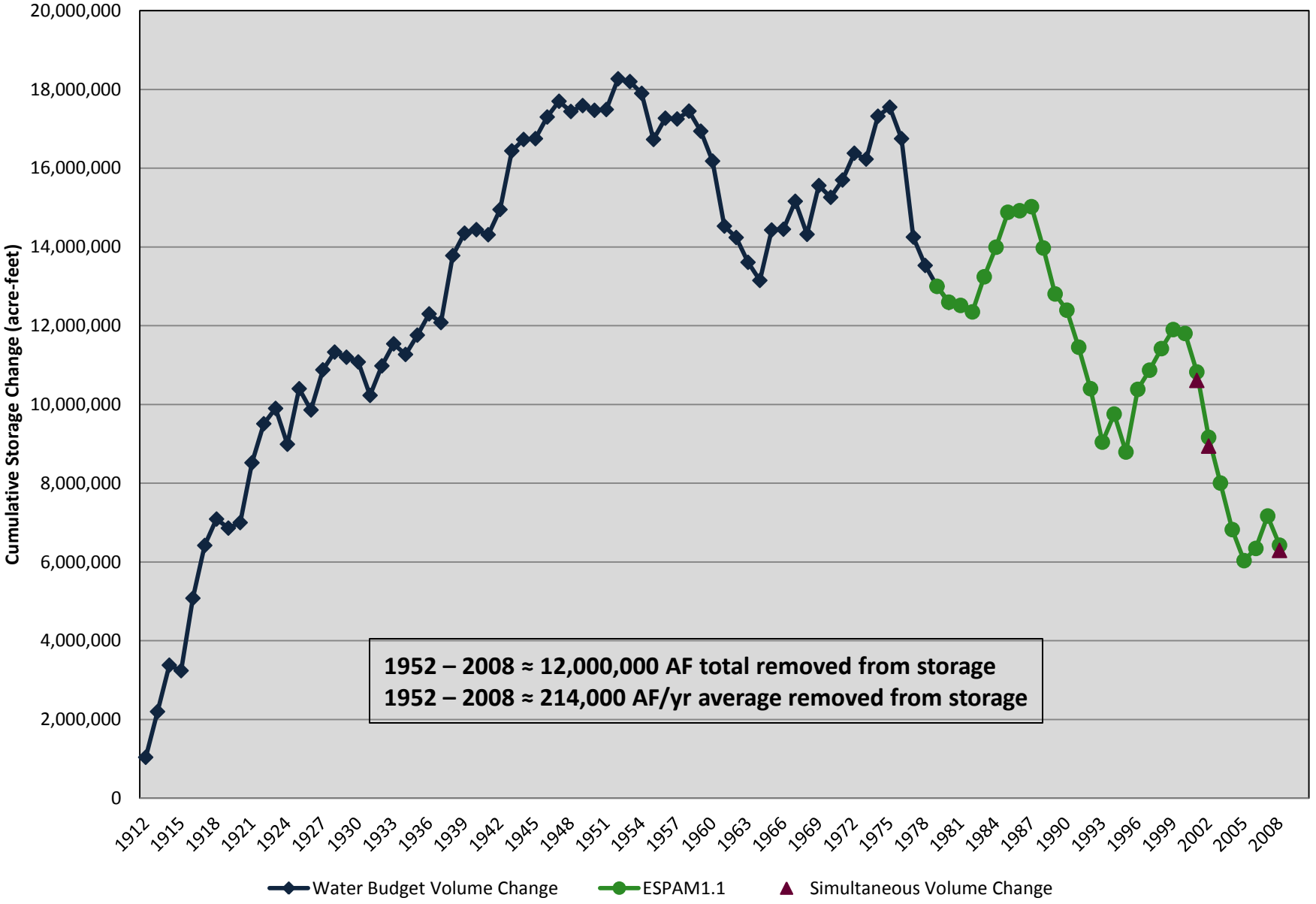


-243,000 AF

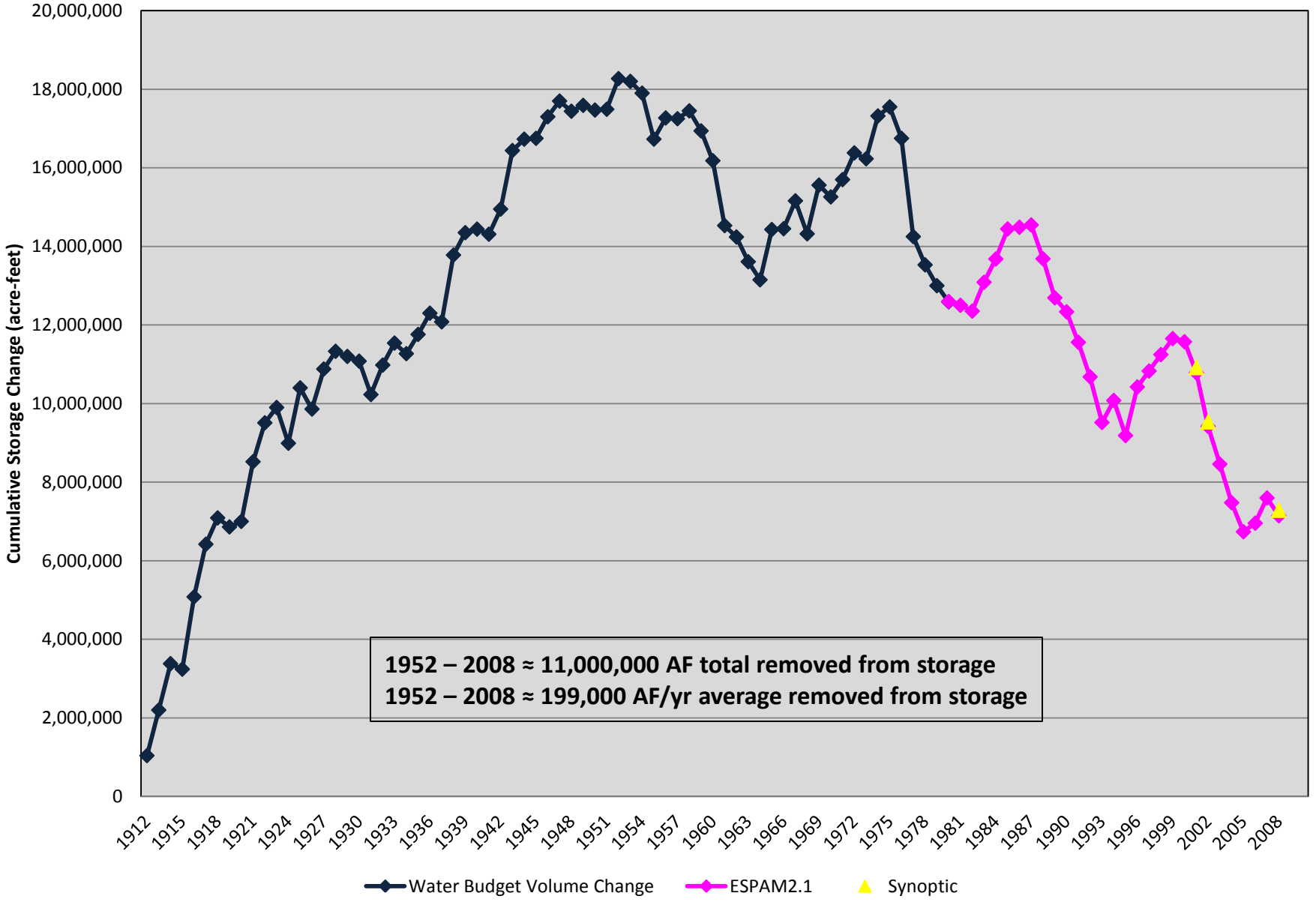
Water Level Change - Spring 2002 to Spring 2008 with Well Locations

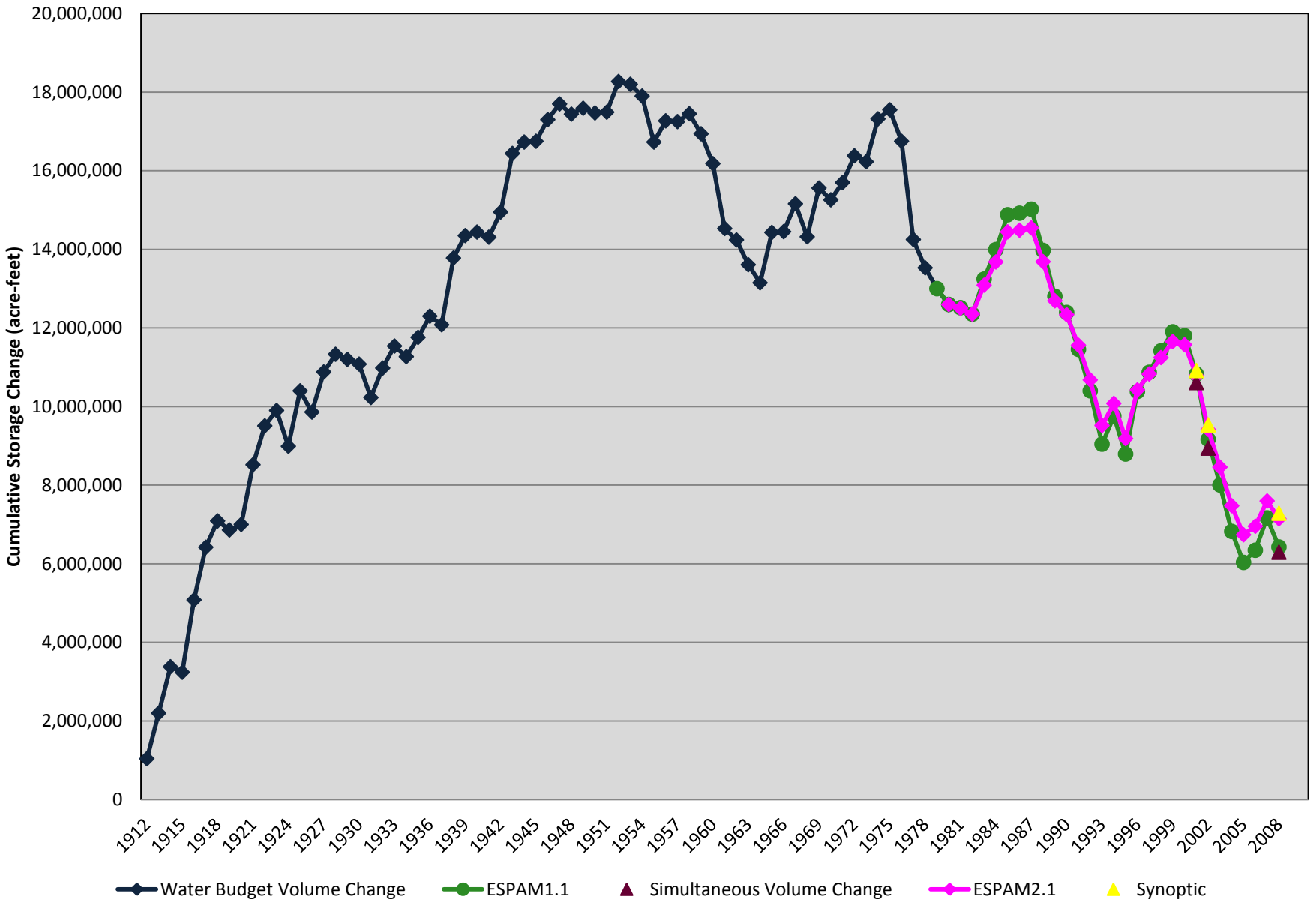


Cumulative Volume Change of Water Stored Within ESPA – ESPAM1.1

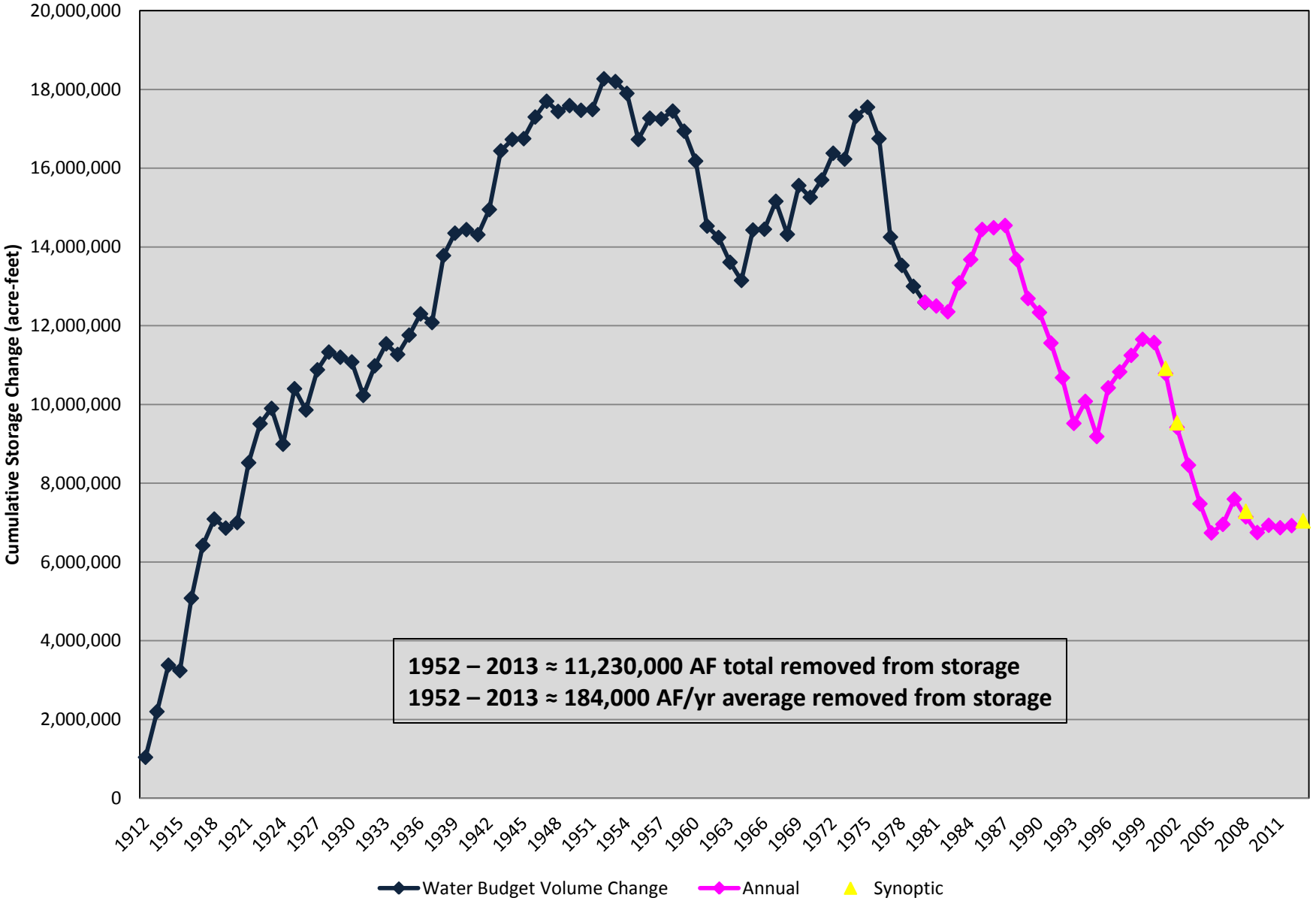


Cumulative Volume Change of Water Stored Within ESPA – ESPAM2.1

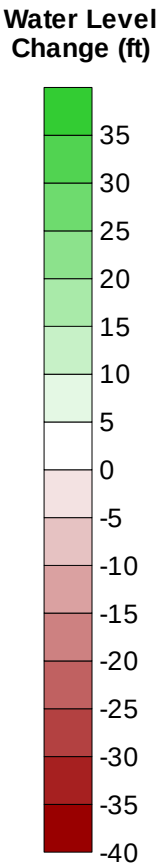


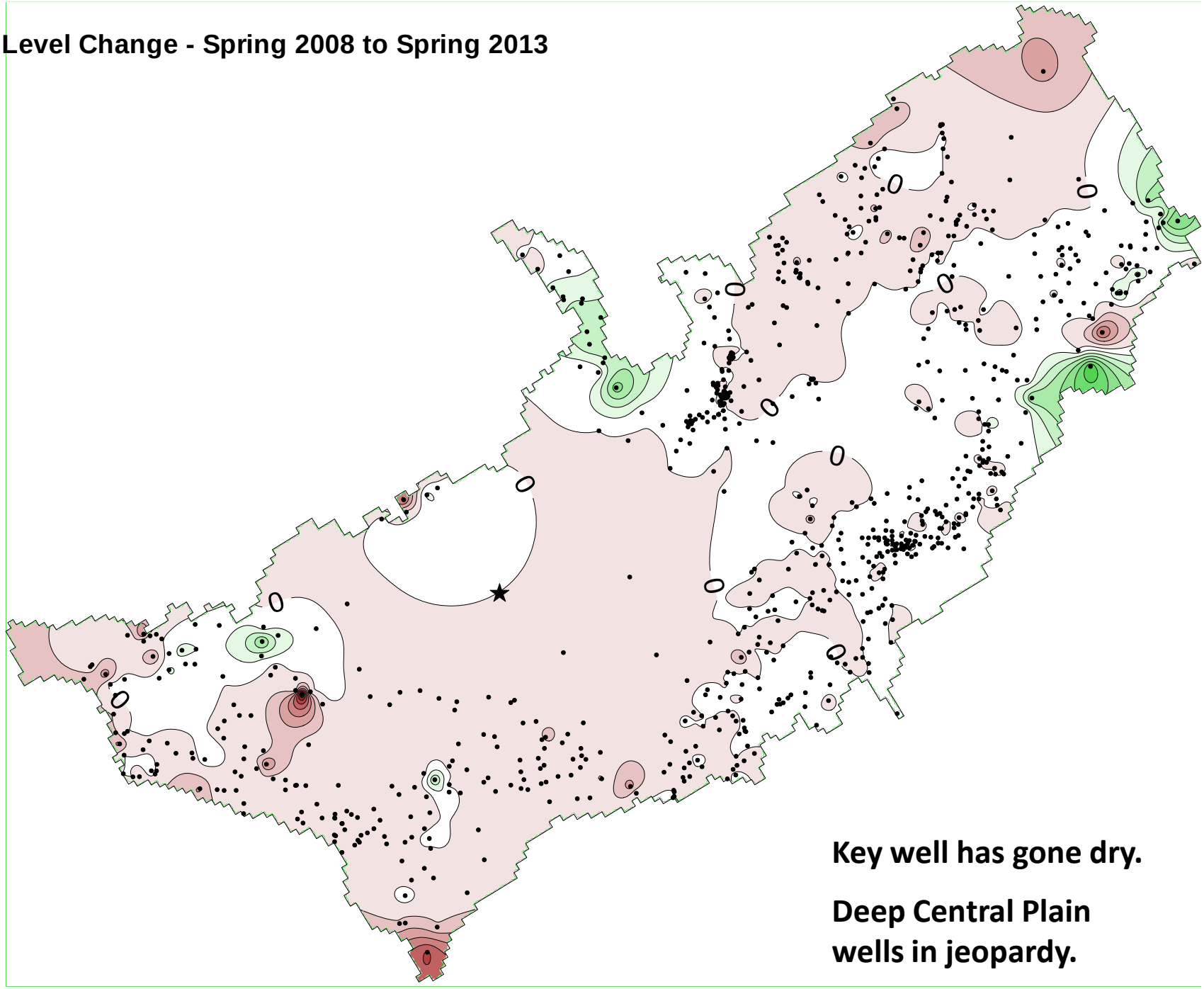

Cumulative Volume Change of Water Stored Within ESPA – Compare
Cumulative Storage Change (acre-feet)
20,000,000
18,000,000
16,000,000
14,000,000
12,000,000
10,000,000
8,000,000
6,000,000
4,000,000
2,000,000
0
1912
1915
1918
1921
1924
1927
1930
1933
1936
1939
1942
1945
1948
1951
1954
1957
1960
1963
1966
1969
1972
1975
1978
1981
1984
1987
1990
1993
1996
1999
2002
2005
2008
Water Budget Volume Change
ESPAM1.1
Simultaneous Volume Change
ESPAM2.1
Synoptic

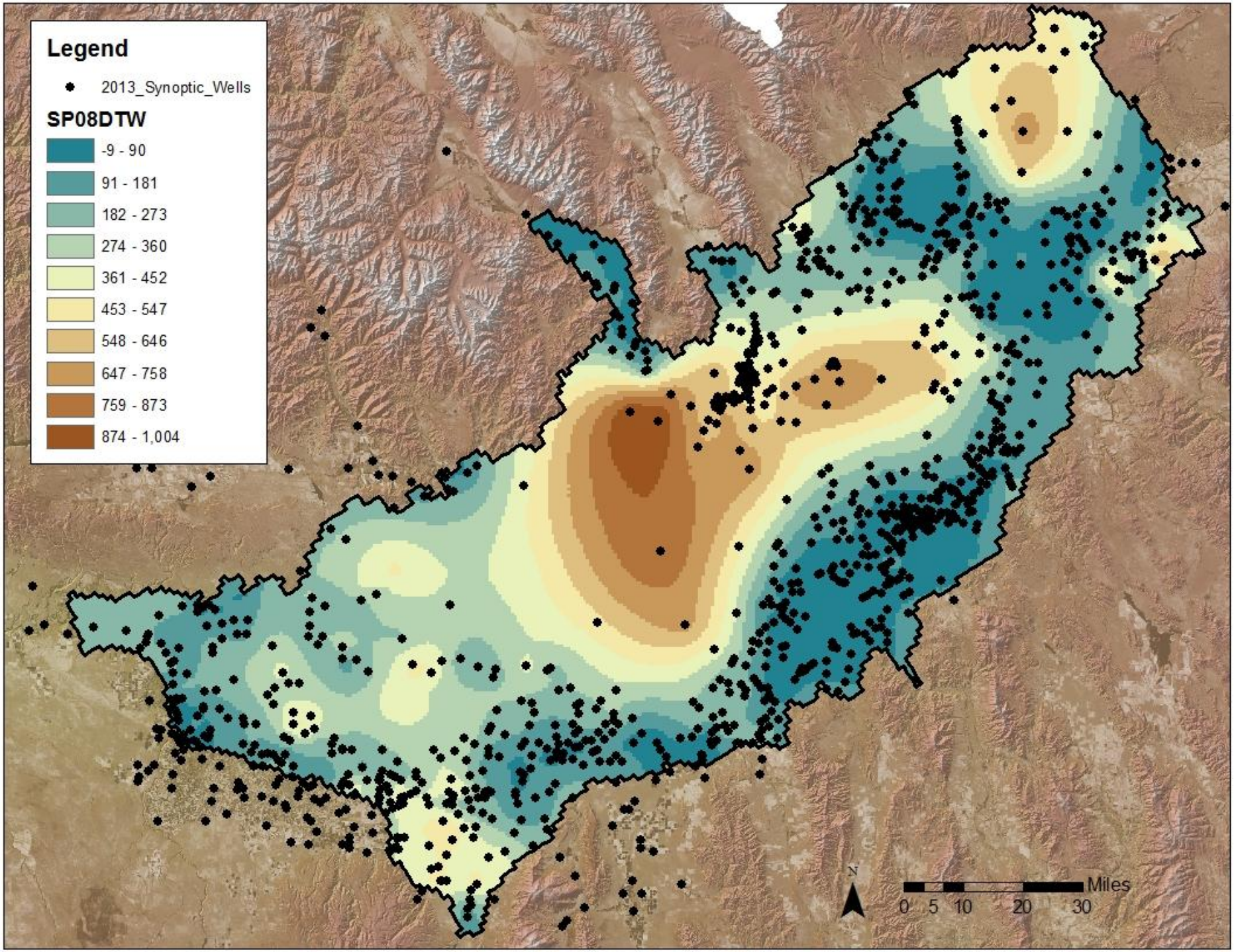
Cumulative Volume Change of Water Stored Within ESPA – ESPAM2.1



Water Level Change - Spring 2008 to Spring 2013






Legend
2013_Synoptic_Wells
SP08DTW
-9 - 90
91 - 181
182 - 273
274 - 360
361 - 452
453 - 547
548 - 646
647 - 758
759 - 873
874 - 1,004
N
Miles
0 5 10 20 30

Discussion.