# Sub-basin Water Level Change Map Book

**Arizona Department of Water Resources – Hydrology Division**

**Statewide Hydrologic Monitoring Report**

**(Late 1980s Early/Mid 1990s to Mid/Late 2000s)**

**May 2012**

**Dianne Yunker & Frank Corkhill**

# Introduction

This water level change map book is presented as a supplement to ADWR's recently published Statewide Hydrologic Monitoring Report (available at www.azwater.gov) The water level data that are presented in this report were selected from measurements compiled in the ADWR Groundwater Site Inventory (GWSI) database. The beginning and ending years that were selected for data analysis for each basin generally corresponded to water level "sweep" years that covered the period from the late 1980s and early 1990s to the mid-to-late 2000s. Statistical analyses and a detailed discussion of observed water level changes, and other data, can be found in the main report which is referenced as:

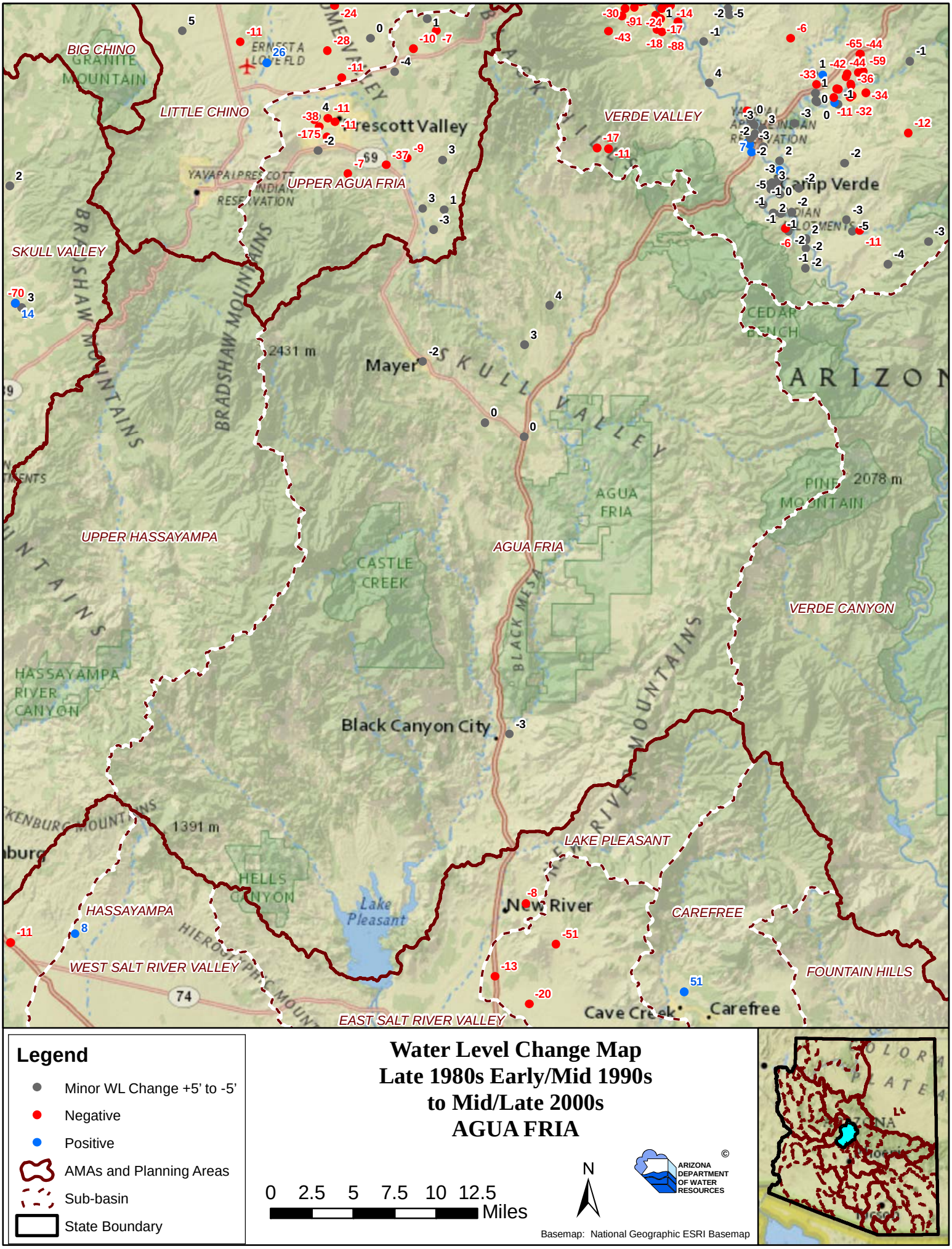
Corkhill, 2012. Arizona Department of Water Resources – Hydrology Division, Final Report, Statewide Hydrologic Monitoring Report (Late 1980s Early/Mid 1990s to Mid/Late 2000s)

The following table provides a list of the sub-basins in this map book along with the associated basins and planning area or AMA and the periods over which water level data was collected in that sub-basin. The 83 Arizona Sub-basins are listed and presented in the following maps in alphabetical order.

| Sub-Basin | Name | Begining Mo/Yr | Ending Mo/Yr | Basin | Planning Area or AMA |
|---|---|---|---|---|---|
| AGF | AGUA FRIA | Oct-91 | May-08 | AGUA FRIA | CENTRAL HIGHLANDS |
| AGV | AGUIRRE VALLEY | Nov-93 | Dec-07 | PINAL AMA | PINAL AMA |
| ALR | ALAMO RESERVOIR | Oct-91 | Nov-09 | BILL WILLIAMS | UPPER COLORADO |
| ALF | ALLEN FLAT | Nov-90 | Dec-06 | UPPER SAN PEDRO | SOUTH EASTERN |
| ARA | ARAVAIPA CANYON | Dec-90 | Nov-07 | ARAVAIPA CANYON | SOUTH EASTERN |
| AVR | AVRA VALLEY | Dec-94 | Mar-10 | TUCSON AMA | TUCSON AMA |
| BIC | BIG CHINO | Feb-92 | Apr-09 | VERDE RIVER | CENTRAL HIGHLANDS |
| BRB | BLACK RIVER | 0/0 | 0/0 | SALT RIVER | CENTRAL HIGHLANDS |
| BON | BONITA CREEK | 0/0 | 0/0 | BONITA CREEK | SOUTH EASTERN |
| BUR | BURRO CREEK | Nov-95 | Jan-08 | BILL WILLIAMS | UPPER COLORADO |
| BUT | BUTLER VALLEY | Nov-90 | Jan-08 | BUTLER VALLEY | LOWER COLORADO |
| CGW | CAMP GRANT WASH | Oct-94 | Nov-06 | LOWER SAN PEDRO | SOUTH EASTERN |
| CRF | CAREFREE | Nov-91 | Dec-09 | PHOENIX AMA | PHOENIX AMA |
| CHV | CHILDS VALLEY | Nov-92 | Dec-07 | LOWER GILA | LOWER COLORADO |
| CIB | CIBOLA VALLEY | Jan-91 | Nov-09 | PARKER | LOWER COLORADO |
| CCK | CIENEGA CREEK | Dec-87 | Mar-05 | CIENEGA CREEK | SOUTH EASTERN |
| CLA | CLARA PEAK | Oct-91 | Nov-08 | BILL WILLIAMS | UPPER COLORADO |
| COP | COCONINO PLATEAU | Apr-94 | Nov-09 | COCONINO PLATEAU | WESTERN PLATEAU |
| CRI | COLORADO RIVER INDIAN RES. | Dec-91 | Nov-09 | PARKER | LOWER COLORADO |
| DEN | DENDORA VALLEY | Nov-92 | Nov-09 | LOWER GILA | LOWER COLORADO |
| DET | DETRITAL VALLEY | Oct-95 | Apr-06 | DETRITAL VALLEY | UPPER COLORADO |
| DON | DONNELLY WASH | Nov-96 | Apr-04 | DONNELLY WASH | SOUTH EASTERN |
| DOU | DOUGLAS | Jan-90 | Dec-04 | DOUGLAS | SOUTH EASTERN |

| Sub-Basin | Name | Begining Mo/Yr | Ending Mo/Yr | Basin | Planning Area or AMA |
|---|---|---|---|---|---|
| DIN | DOUGLAS INA | Dec-90 | Nov-09 | DOUGLAS INA | SOUTH EASTERN |
| DSW | DRIPPINGS SPRING WASH | Dec-90 | Nov-09 | DRIPPING SPRINGS WASH | SOUTH EASTERN |
| DUN | DUNCAN VALLEY | Dec-90 | Nov-07 | DUNCAN VALLEY | SOUTH EASTERN |
| ESR | EAST SALT RIVER | Nov-91 | Feb-09 | PHOENIX AMA | PHOENIX AMA |
| ELO | ELOY | Nov-93 | Jan-08 | PINAL AMA | PINAL AMA |
| FTR | FORT ROCK | Nov-95 | Mar-08 | BIG SANDY | UPPER COLORADO |
| FNH | FOUNTAIN HILLS | Nov-91 | Dec-09 | PHOENIX AMA | PHOENIX AMA |
| GIL | GILA BEND | Nov-93 | Feb-08 | GILA BEND | LOWER COLORADO |
| SAF | GILA VALLEY | Dec-90 | Feb-08 | SAFFORD | SOUTH EASTERN |
| GWA | GRAND WASH | Oct-91 | Oct-09 | GRAND WASH | WESTERN PLATEAU |
| HAR | HARQUAHALA INA | Nov-93 | Nov-09 | HARQUAHALA INA | LOWER COLORADO |
| HAS | HASSAYAMPA | Oct-91 | Mar-09 | PHOENIX AMA | PHOENIX AMA |
| HUA | HUALAPAI VALLEY | Jan-91 | Mar-06 | HUALAPAI VALLEY | UPPER COLORADO |
| JCI | JOSEPH CITY INA | Aug-87 | Oct-08 | JOSEPH CITY INA | EASTERN PLATEAU |
| KAN | KANAB PLATEAU | Oct-92 | Oct-09 | KANAB PLATEAU | WESTERN PLATEAU |
| LPC | LA POSA PLAINS | Nov-92 | Nov-09 | PARKER | LOWER COLORADO |
| LKH | LAKE HAVASU | Oct-91 | Oct-09 | LAKE HAVASU | UPPER COLORADO |
| MHV | LAKE MOHAVE | Oct-91 | Oct-09 | LAKE MOHAVE | UPPER COLORADO |
| LKP | LAKE PLEASANT | Nov-91 | Dec-09 | PHOENIX AMA | PHOENIX AMA |
| LIC | LITTLE CHINO VALLEY | Feb-94 | Mar-10 | PRESCOTT AMA | PRESCOTT AMA |
| LCR | LITTLE COLORADO RIVER | Jan-91 | Dec-04 | LITTLE COLORADO RIVER PLATEAU | EASTERN PLATEAU |
| MAM | MAMMOTH | Oct-94 | Dec-06 | LOWER SAN PEDRO | SOUTH EASTERN |
| MST | MARICOPA - STANFIELD | Nov-93 | Jan-08 | PINAL AMA | PINAL AMA |
| MMU | MCMULLEN VALLEY | Nov-89 | Dec-04 | MCMULLEN VALLEY | LOWER COLORADO |
| MEA | MEADVIEW | Nov-95 | Feb-06 | MEADVIEW | UPPER COLORADO |
| MOR | MORENCI | Nov-90 | Oct-07 | MORENCI | SOUTH EASTERN |
| PAR | PARIA | Oct-91 | Mar-07 | PARIA | WESTERN PLATEAU |
| PSC | PEACH SPRINGS | Oct-95 | Oct-09 | PEACH SPRINGS | UPPER COLORADO |
| WAT | RAINBOW VALLEY | Nov-91 | Jan-08 | PHOENIX AMA | PHOENIX AMA |
| RAN | RANEGRAS PLAIN | Jan-88 | Dec-04 | RANEGRAS PLAIN | LOWER COLORADO |
| SAC | SACRAMENTO VALLEY | Jan-90 | Mar-06 | SACRAMENTO VALLEY | UPPER COLORADO |
| USR | SALT RIVER CANYON | Oct-91 | Oct-07 | SALT RIVER | CENTRAL HIGHLANDS |
| SRL | SALT RIVER LAKES | Jan-91 | Nov-03 | SALT RIVER | CENTRAL HIGHLANDS |
| SBV | SAN BERNADINO VALLEY | Dec-90 | Mar-07 | SAN BERNARDINO VALLEY | SOUTH EASTERN |
| GSK | SAN CARLOS VALLEY | Jan-92 | Nov-07 | SAFFORD | SOUTH EASTERN |
| SRF | SAN RAFAEL | Dec-87 | Jan-08 | SAN RAFAEL | SOUTH EASTERN |
| SSI | SAN SIMON VALLEY | Jan-87 | Mar-07 | SAFFORD | SOUTH EASTERN |
| SSW | SAN SIMON WASH | Jan-89 | Apr-04 | SAN SIMON WASH | LOWER COLORADO |
| SCA | SANTA CRUZ AMA | Dec-87 | Feb-10 | SANTA CRUZ AMA | SANTA CRUZ AMA |
| SMR | SANTA MARIA | Oct-91 | Dec-09 | BILL WILLIAMS | UPPER COLORADO |
| SRO | SANTA ROSA | 0/0 | 0/0 | PINAL AMA | PINAL AMA |
| SHV | SHIVWITS PLATEAU | Oct-92 | Mar-05 | SHIVWITS PLATEAU | WESTERN PLATEAU |
| SEV | SIERRA VISTA | Nov-90 | Mar-07 | UPPER SAN PEDRO | SOUTH EASTERN |
| SKU | SKULL VALLEY | Oct-91 | Dec-09 | BILL WILLIAMS | UPPER COLORADO |

| Sub-Basin | Name | Begining Mo/Yr | Ending Mo/Yr | Basin | Planning Area or AMA |
|---|---|---|---|---|---|
| TIG | TIGER WASH | Nov-93 | Dec-07 | TIGER WASH | LOWER COLORADO |
| TON | TONTO CREEK | Jan-90 | Apr-08 | TONTO CREEK | CENTRAL HIGHLANDS |
| UAG | UPPER AGUA FRIA | Feb-94 | Nov-09 | PRESCOTT AMA | PRESCOTT AMA |
| UHA | UPPER HASSAYAMPA | Nov-90 | Apr-08 | UPPER HASSAYAMPA | CENTRAL HIGHLANDS |
| USC | UPPER SANTA CRUZ | Dec-94 | Mar-10 | TUCSON AMA | TUCSON AMA |
| VEK | VEKOL VALLEY | Nov-93 | Dec-07 | PINAL AMA | PINAL AMA |
| LVR | VERDE CANYON | Jan-90 | Nov-09 | VERDE RIVER | CENTRAL HIGHLANDS |
| VER | VERDE VALLEY | Apr-94 | May-09 | VERDE RIVER | CENTRAL HIGHLANDS |
| VRG | VIRGIN RIVER | Apr-90 | Dec-09 | VIRGIN RIVER | WESTERN PLATEAU |
| WEM | WELLTON - MOHAWK | Oct-92 | Dec-07 | LOWER GILA | LOWER COLORADO |
| WSR | WEST SALT RIVER | Oct-91 | Feb-09 | PHOENIX AMA | PHOENIX AMA |
| WMD | WESTERN MEXICAN DRAINAGE | Oct-91 | Apr-04 | WESTERN MEXICAN DRAINAGE | LOWER COLORADO |
| WRB | WHITE RIVER | 0/0 | 0/0 | SALT RIVER | CENTRAL HIGHLANDS |
| WIK | WIKIEUP | Nov-95 | Mar-08 | BIG SANDY | UPPER COLORADO |
| WIL | WILLCOX | Jan-90 | Dec-05 | WILLCOX | SOUTH EASTERN |
| YUM | YUMA | Nov-92 | Nov-09 | YUMA | LOWER COLORADO |




## Legend

- Minor WL Change +5' to -5'
- Negative
- Positive
- AMAs and Planning Areas
- Sub-basin
- State Boundary

# Water Level Change Map
# Late 1980s Early/Mid 1990s to Mid/Late 2000s
# AGUA FRIA

0 2.5 5 7.5 10 12.5 Miles

N

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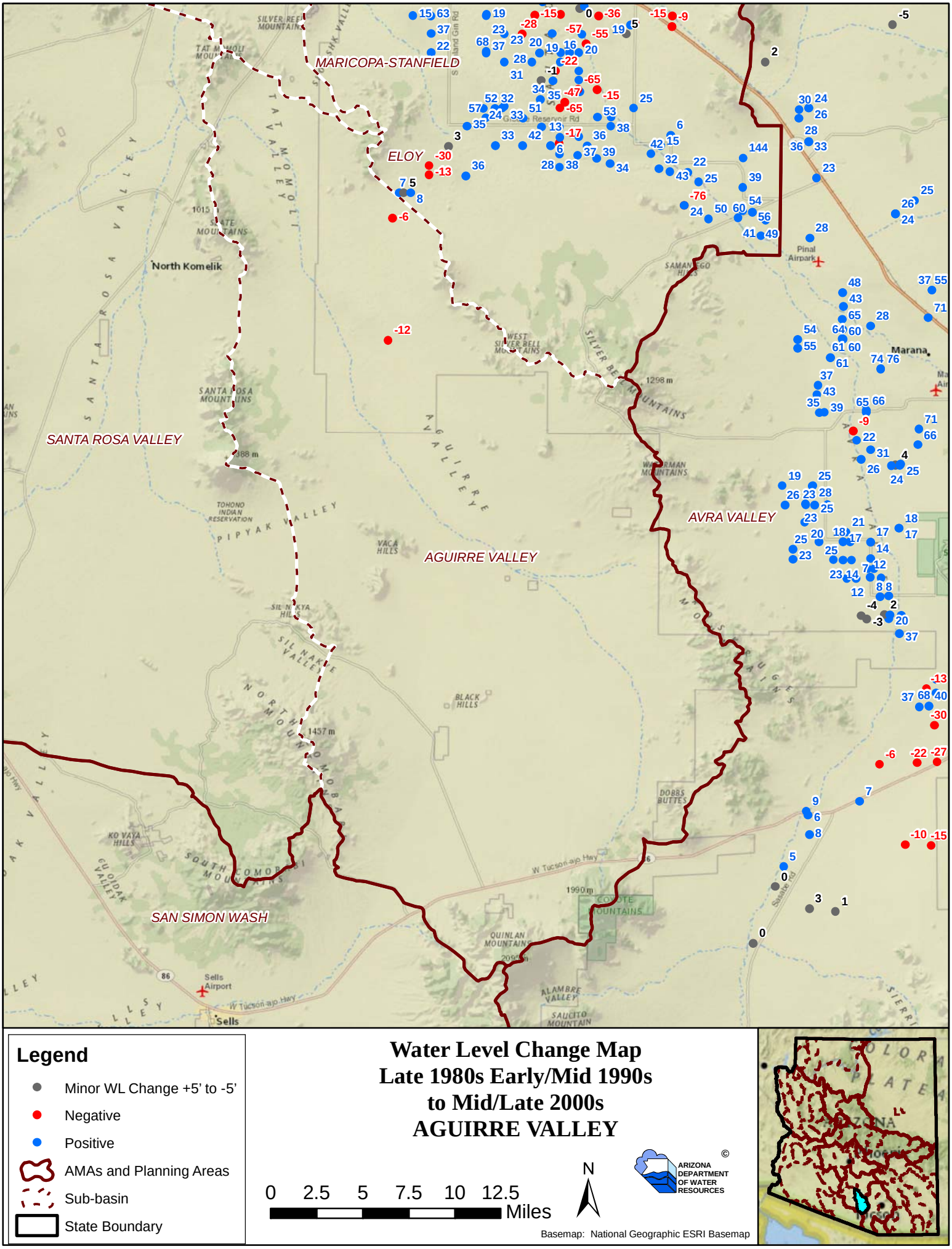
Basemap: National Geographic ESRI Basemap




## Legend

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- Positive
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- State Boundary

# Water Level Change Map
# Late 1980s Early/Mid 1990s to Mid/Late 2000s
# AGUIRRE VALLEY

0 2.5 5 7.5 10 12.5 Miles

N

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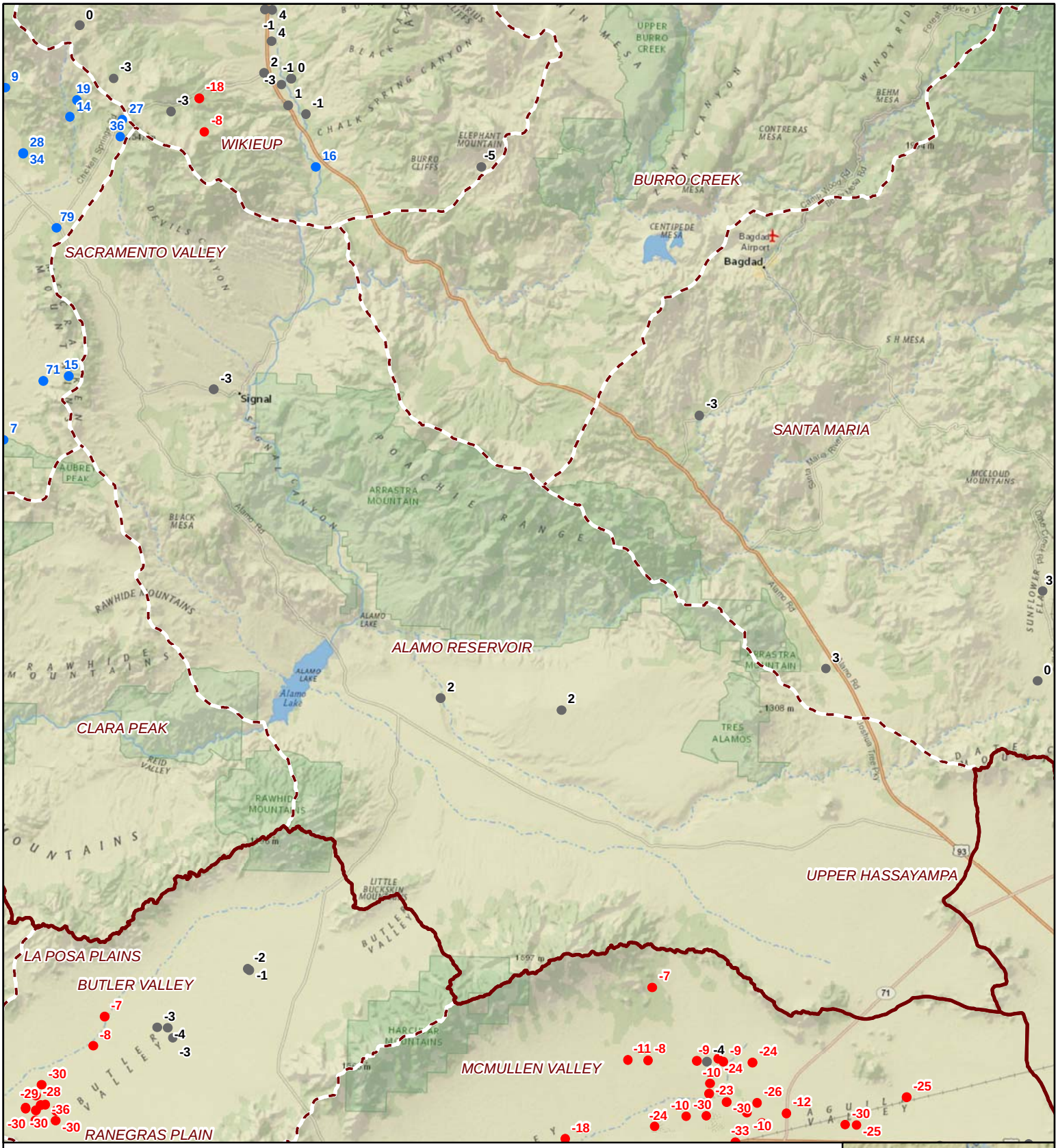
Basemap: National Geographic ESRI Basemap




## Legend

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# Water Level Change Map
# Late 1980s Early/Mid 1990s to Mid/Late 2000s
# ALAMO RESERVOIR

0 2.5 5 7.5 10 12.5 Miles

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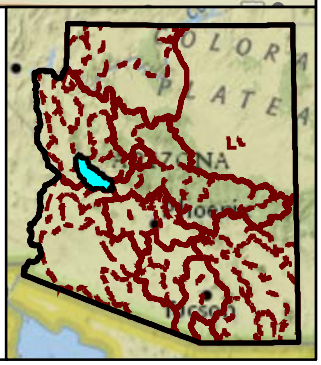
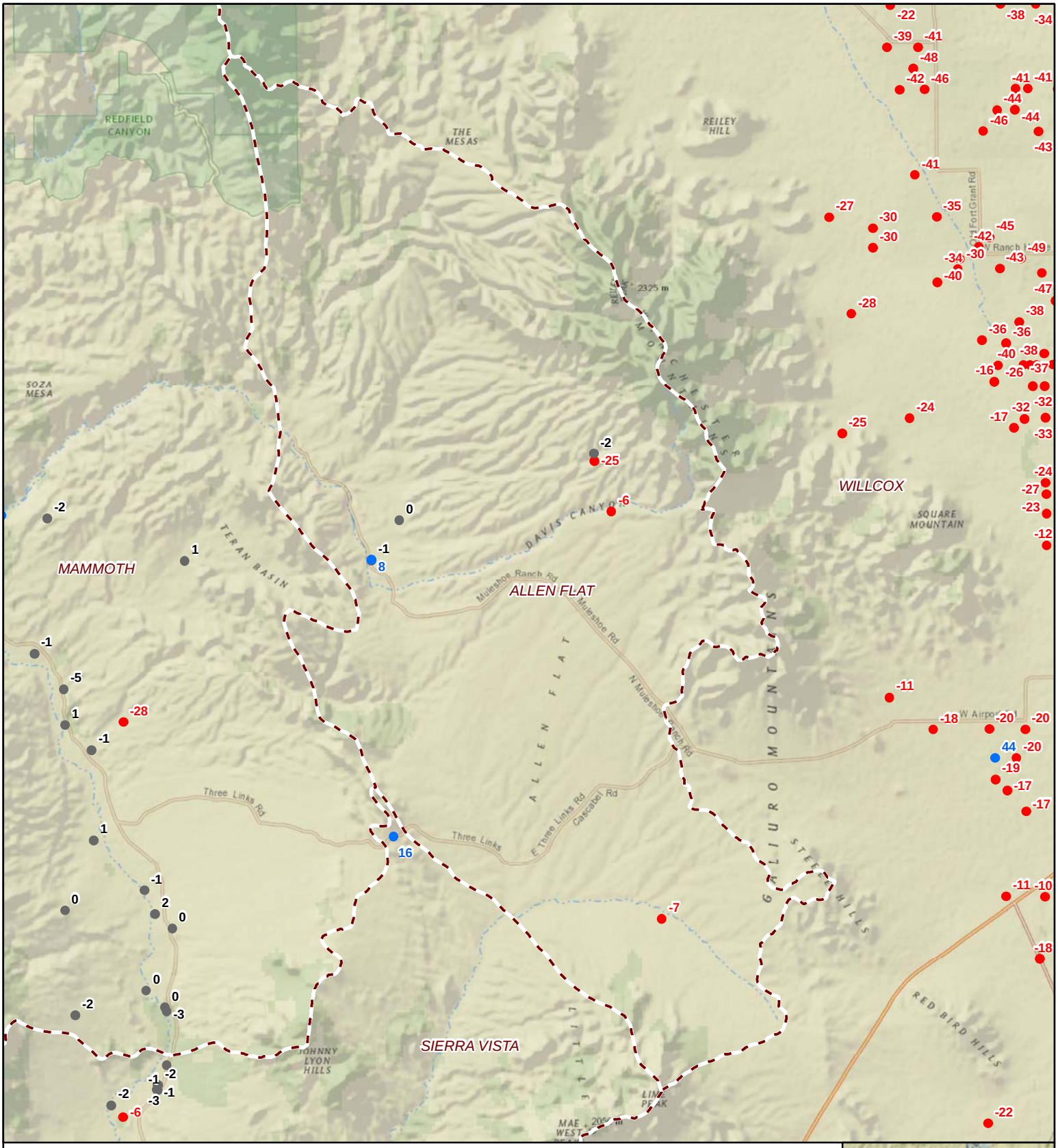
Basemap: National Geographic ESRI Basemap






## Legend

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- Negative
- Positive
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- Sub-basin
- State Boundary

# Water Level Change Map
# Late 1980s Early/Mid 1990s to Mid/Late 2000s
# ALLEN FLAT

0 1 2 3 4 5 Miles

N

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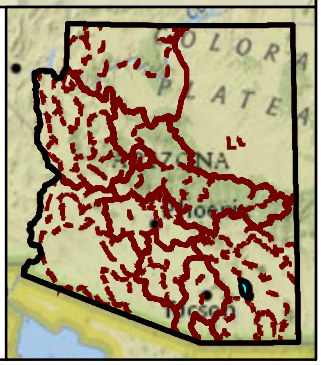
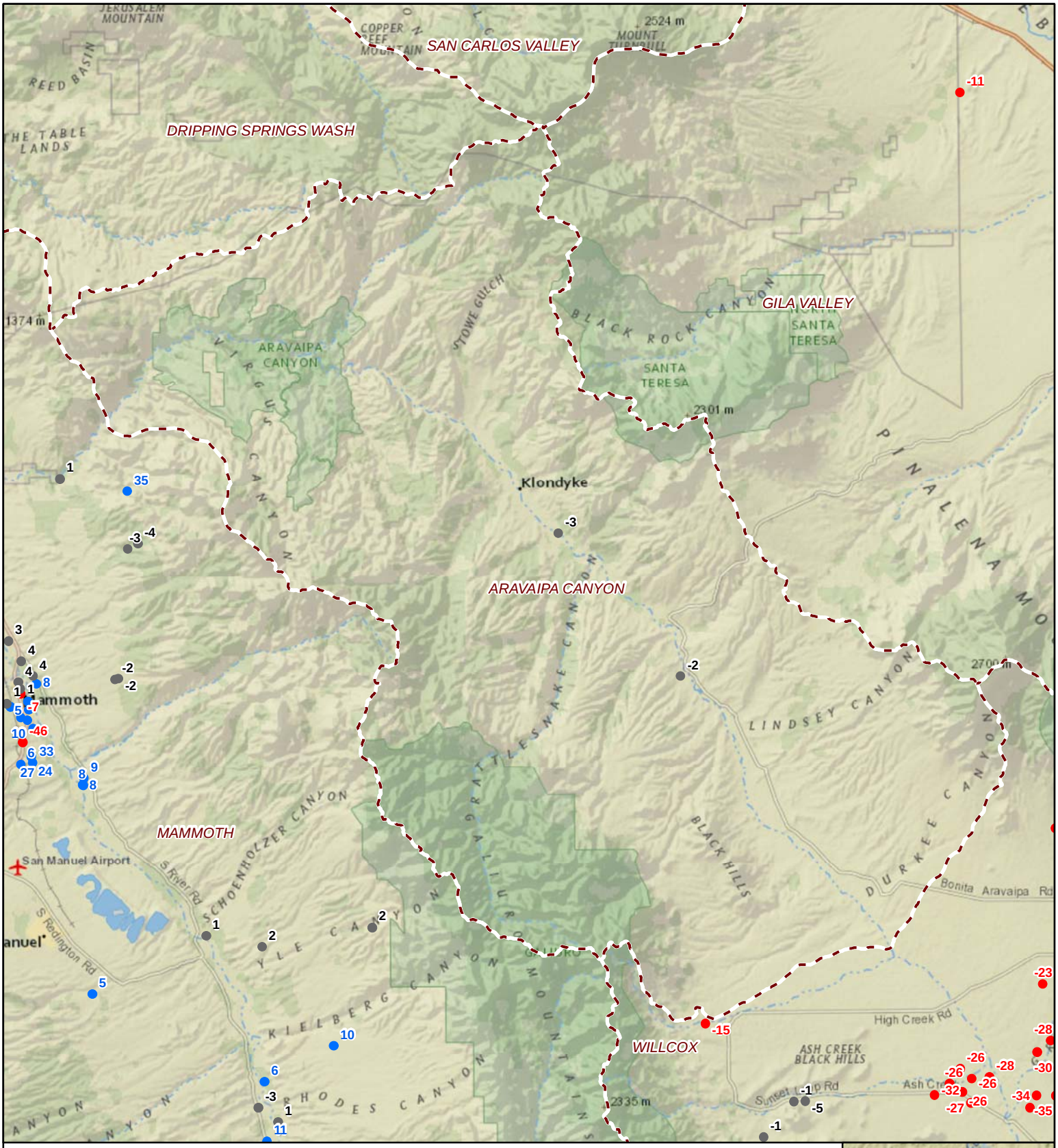
Basemap: National Geographic ESRI Basemap






## Legend

- Minor WL Change +5' to -5'
- Negative
- Positive
- AMAs and Planning Areas
- Sub-basin
- State Boundary

# Water Level Change Map
# Late 1980s Early/Mid 1990s to Mid/Late 2000s
# ARAVAIPA CANYON

0 1.5 3 4.5 6 7.5 Miles

N

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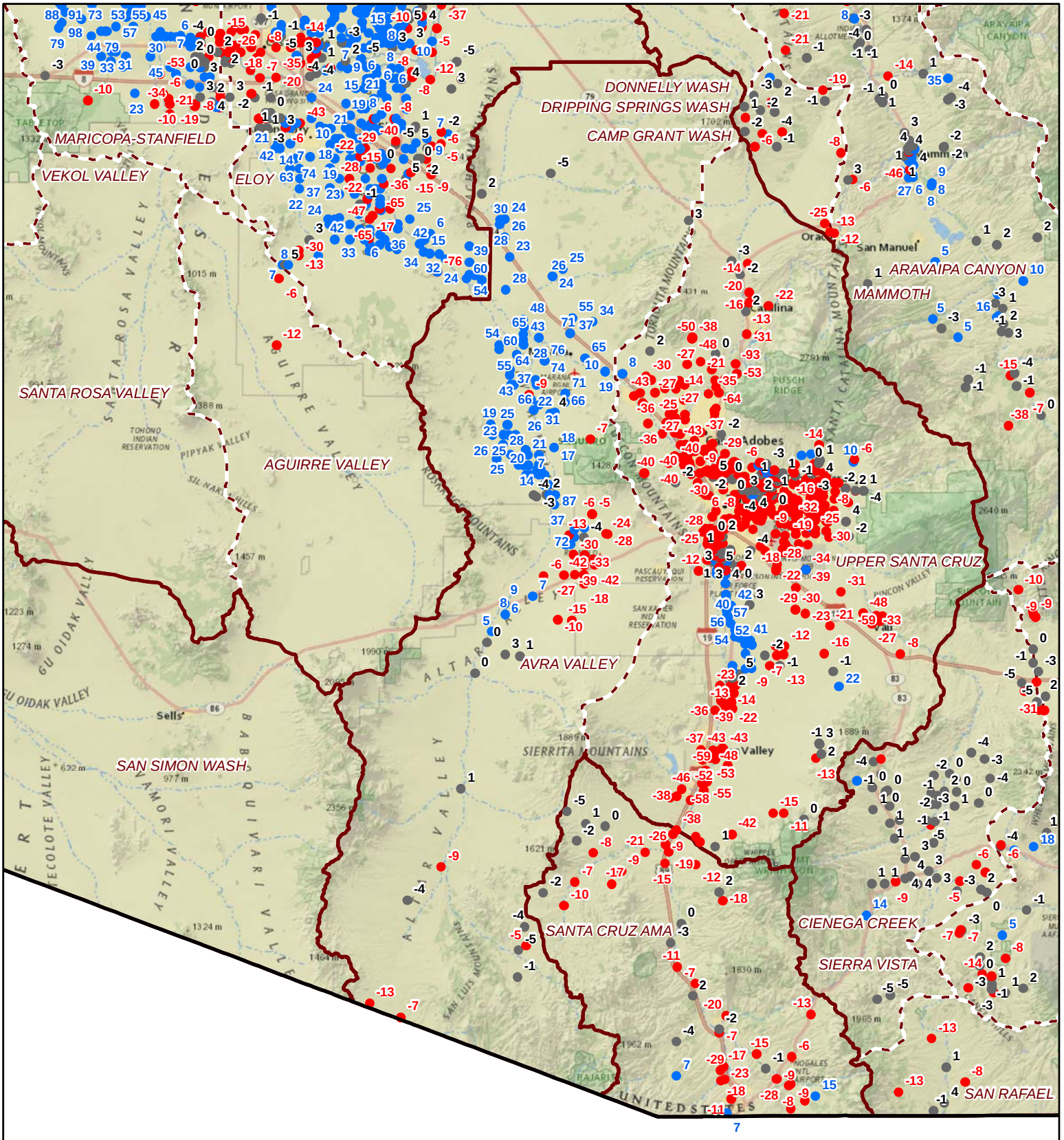
Basemap: National Geographic ESRI Basemap




## Legend

- Minor WL Change +5' to -5'
- Negative
- Positive
- AMAs and Planning Areas
- Sub-basin
- State Boundary

# Water Level Change Map
# Late 1980s Early/Mid 1990s to Mid/Late 2000s
# AVRA VALLEY

0 5 10 15 20 25 Miles

N

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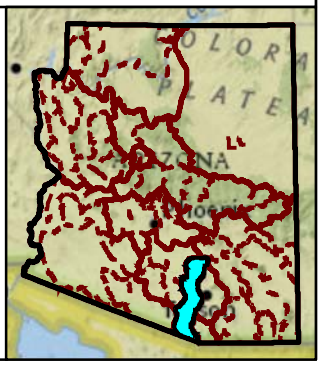
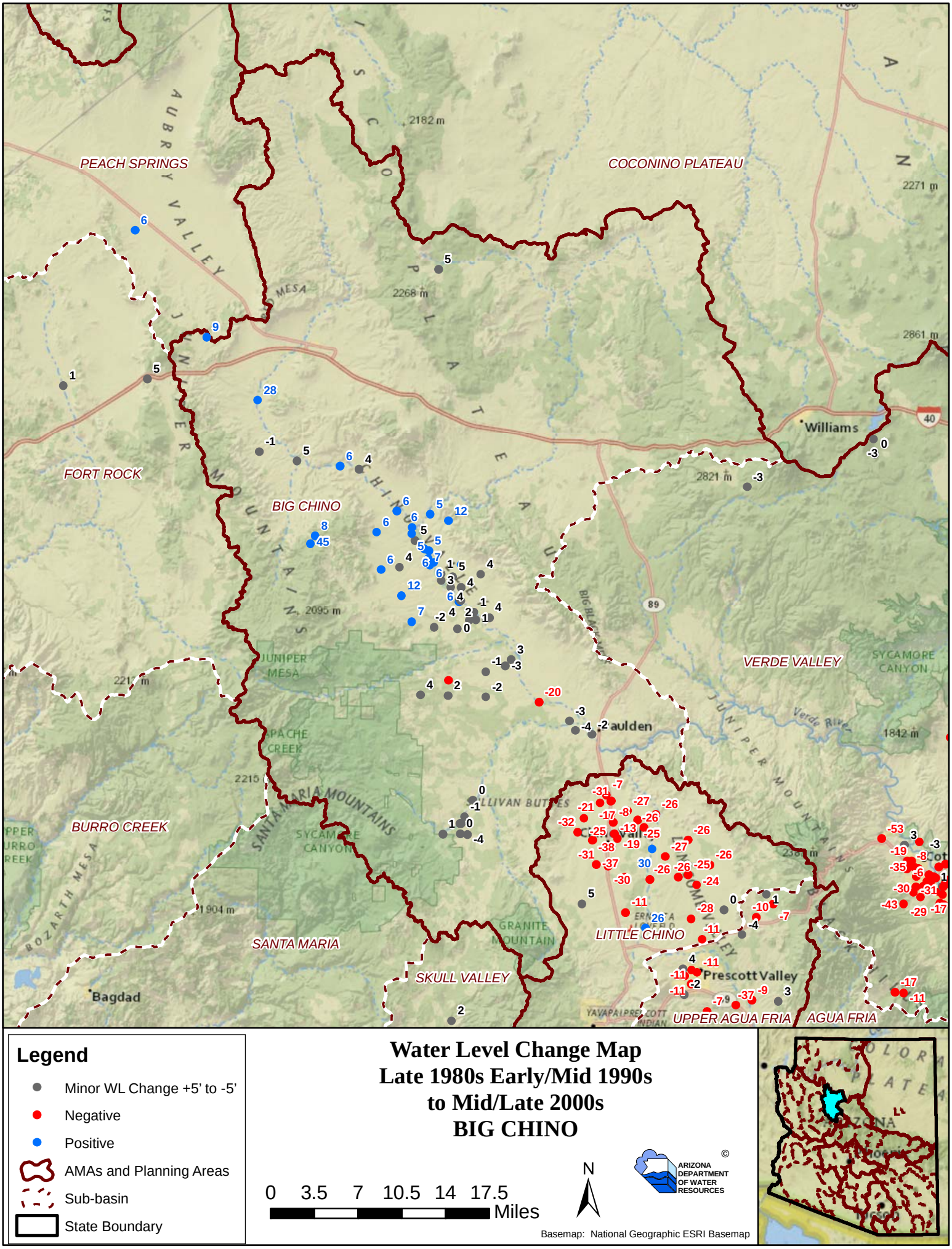
Basemap: National Geographic ESRI Basemap




PEACH SPRINGS
COCONINO PLATEAU
FORT ROCK
BIG CHINO
VERDE VALLEY
BURRO CREEK
SANTA MARIA
SKULL VALLEY
LITTLE CHINO
UPPER AGUA FRIA
AGUA FRIA
Williams
Prescott Valley
Bagdad
Paulden
AUBRY VALLEY
JUNIPER MOUNTAINS
JUNIPER MESA
APACHE CREEK
SYCAMORE CANYON
GRANITE MOUNTAIN
SANTA MARIA MOUNTAINS
BIG BLACK MESA
ROZARTH MESA
2182 m
2271 m
2268 m
2861 m
2821 m
2095 m
2215 m
1904 m
1842 m
Legend
Minor WL Change +5' to -5'
Negative
Positive
AMAs and Planning Areas
Sub-basin
State Boundary
Water Level Change Map
Late 1980s Early/Mid 1990s
to Mid/Late 2000s
BIG CHINO
0 3.5 7 10.5 14 17.5
Miles
N
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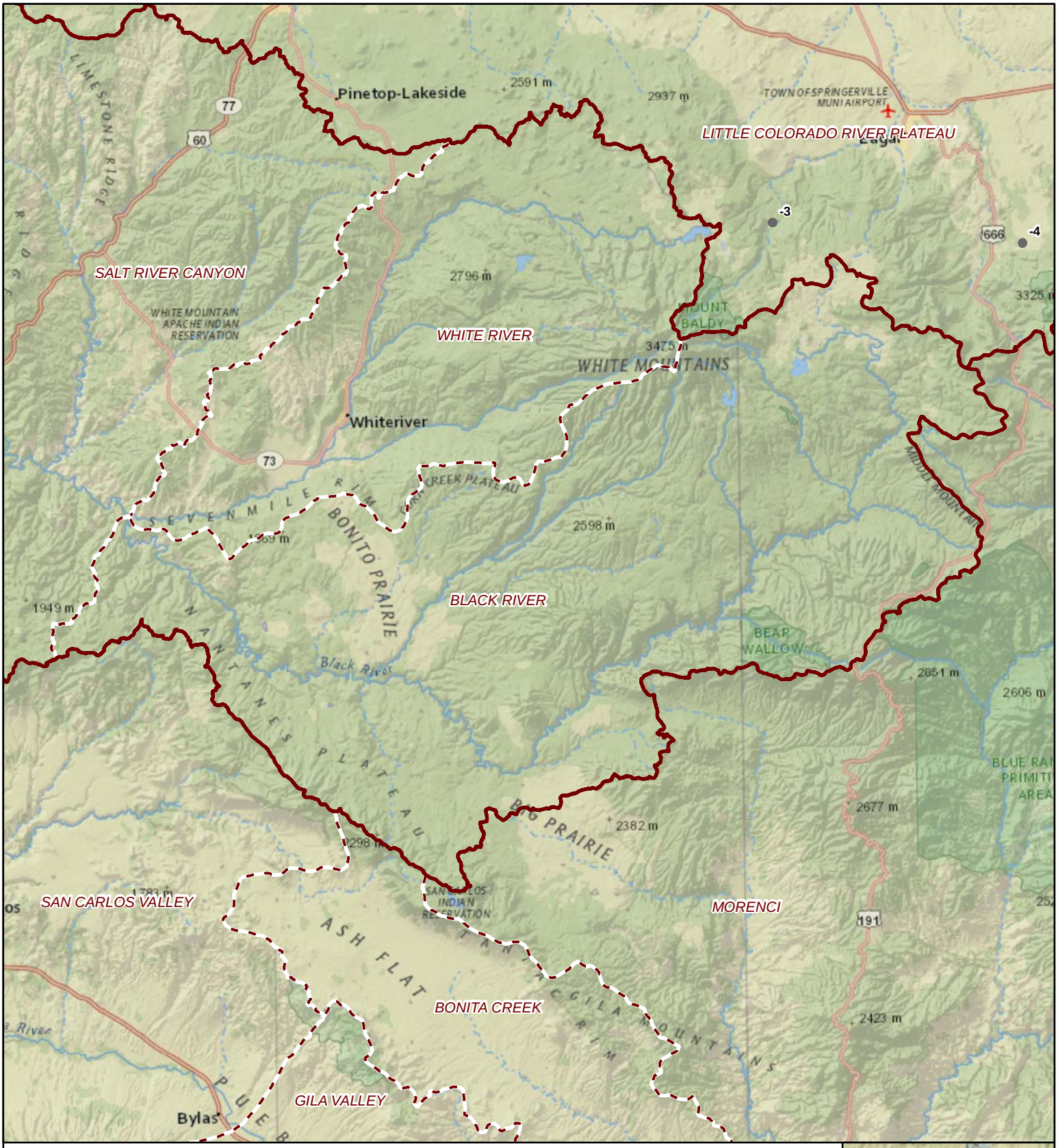
Basemap: National Geographic ESRI Basemap




## Legend

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- Negative
- Positive
- AMAs and Planning Areas
- Sub-basin
- State Boundary

# Water Level Change Map
# Late 1980s Early/Mid 1990s to Mid/Late 2000s
# BLACK RIVER

0 3.5 7 10.5 14 17.5 Miles

N

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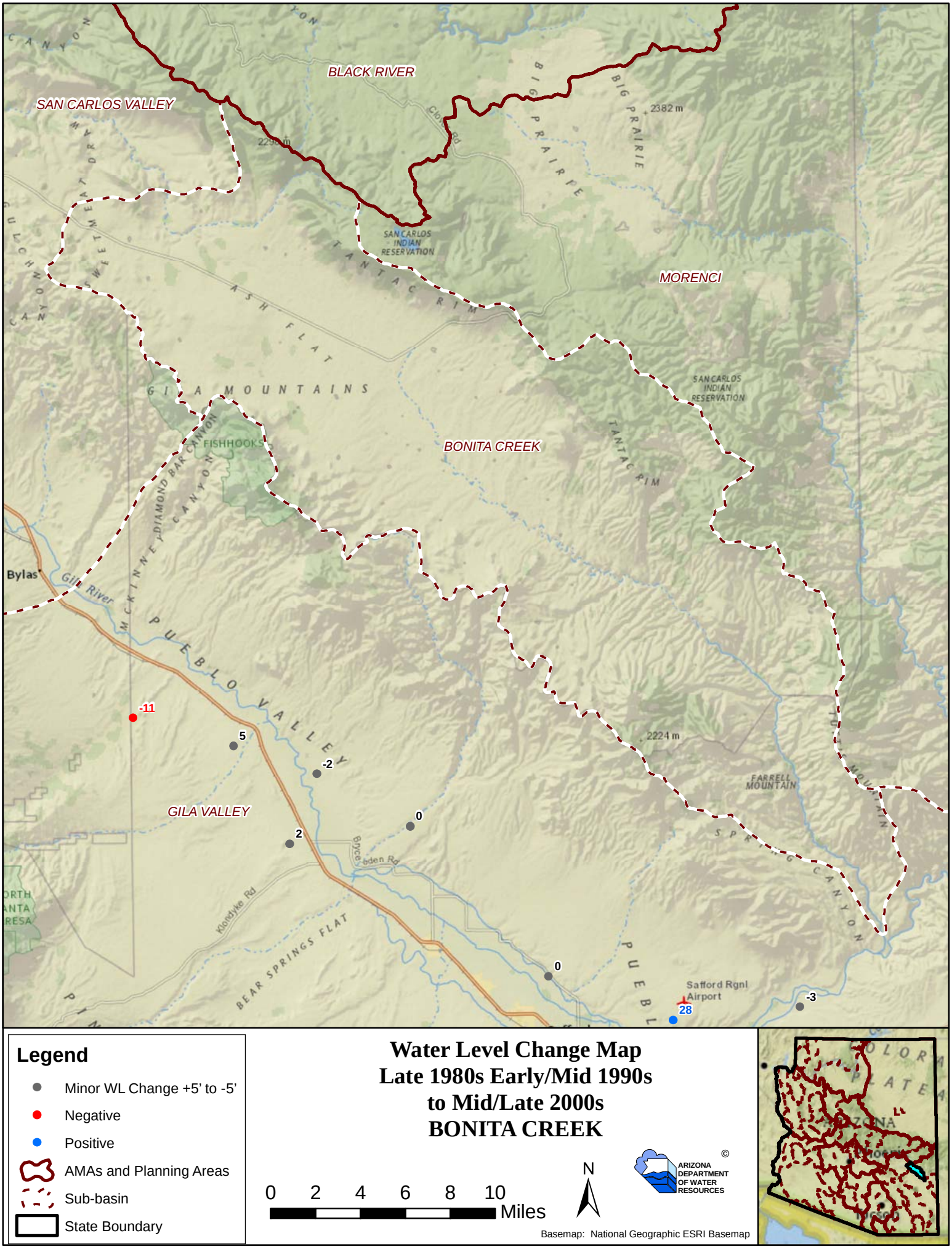
Basemap: National Geographic ESRI Basemap




## Legend

- Minor WL Change +5' to -5'
- Negative
- Positive
- AMAs and Planning Areas
- Sub-basin
- State Boundary

# Water Level Change Map
# Late 1980s Early/Mid 1990s to Mid/Late 2000s
# BONITA CREEK

0 2 4 6 8 10 Miles

N

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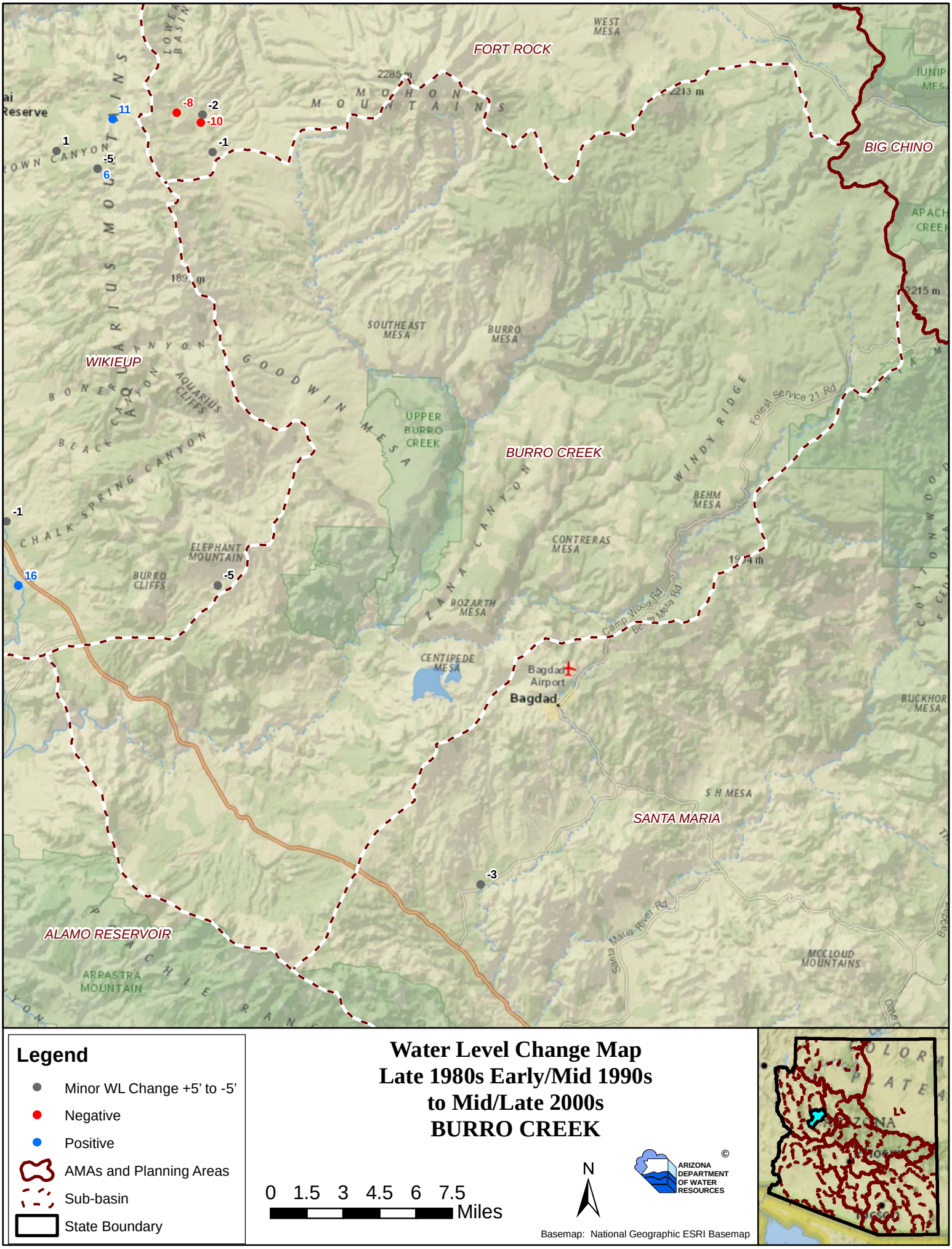
Basemap: National Geographic ESRI Basemap




## Legend

- Minor WL Change +5' to -5'
- Negative
- Positive
- AMAs and Planning Areas
- Sub-basin
- State Boundary

# Water Level Change Map
# Late 1980s Early/Mid 1990s to Mid/Late 2000s
# BURRO CREEK

0 1.5 3 4.5 6 7.5 Miles

N

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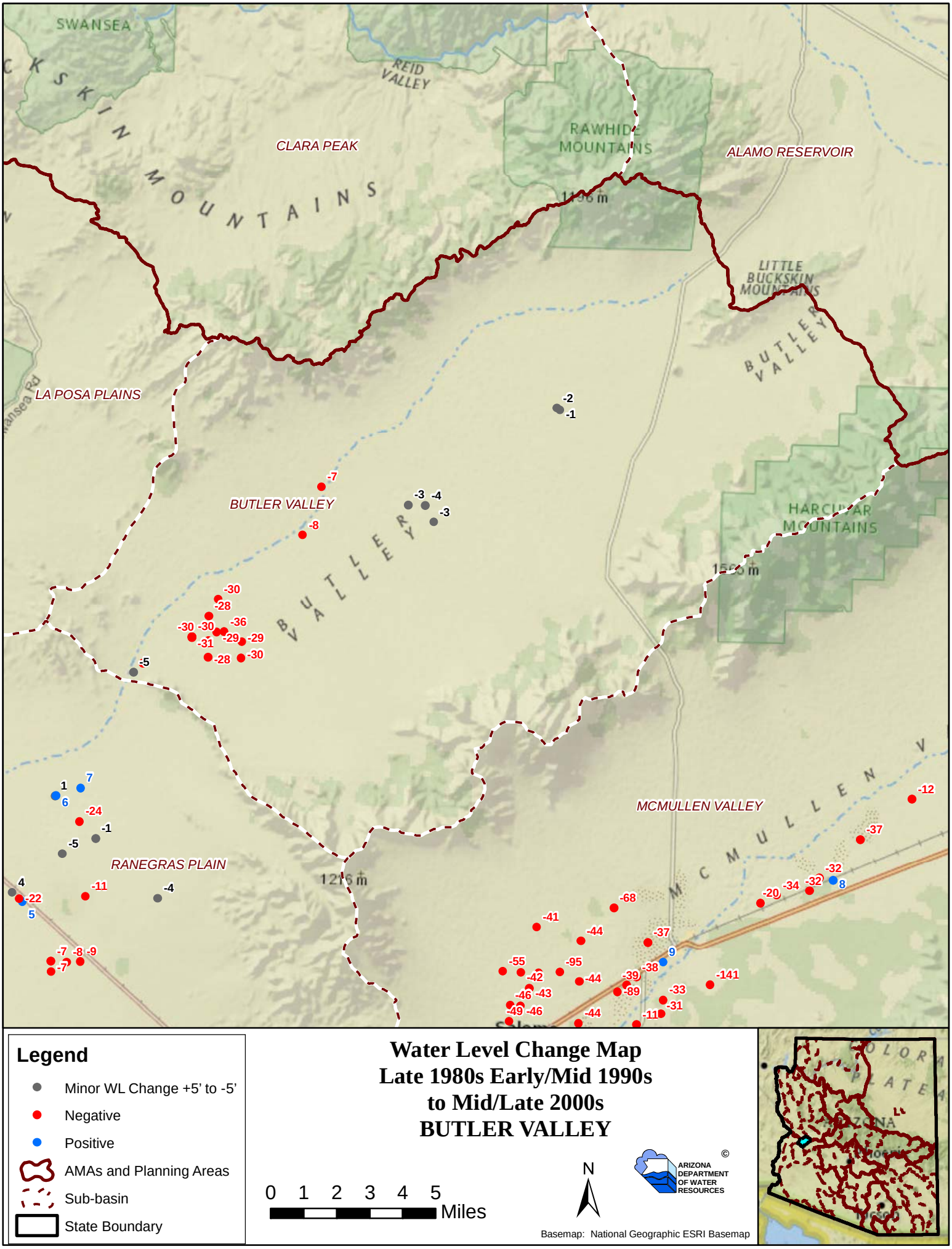
Basemap: National Geographic ESRI Basemap


SWANSEA
REID VALLEY
CLARA PEAK
RAWHIDE MOUNTAINS
ALAMO RESERVOIR
LITTLE BUCKSKIN MOUNTAINS
BUTLER VALLEY
LA POSA PLAINS
BUTLER VALLEY
HARCUVAR MOUNTAINS
MCMULLEN VALLEY
RANEGRAS PLAIN
1216 m
-2
-1
-7
-3
-4
-3
-8
-30
-28
-30
-30
-36
-31
-29
-29
-28
-30
-5
1
7
6
-24
-1
-5
4
-11
-4
-22
5
-7
-8
-9
-7
-12
-37
-32
-34
-32
8
-20
-68
-41
-44
-37
9
-55
-95
-38
-42
-44
-39
-141
-46
-43
-89
-33
-49
-46
-31
-44
-11
Legend
Minor WL Change +5' to -5'
Negative
Positive
AMAs and Planning Areas
Sub-basin
State Boundary
Water Level Change Map
Late 1980s Early/Mid 1990s
to Mid/Late 2000s
BUTLER VALLEY
0 1 2 3 4 5
Miles
N
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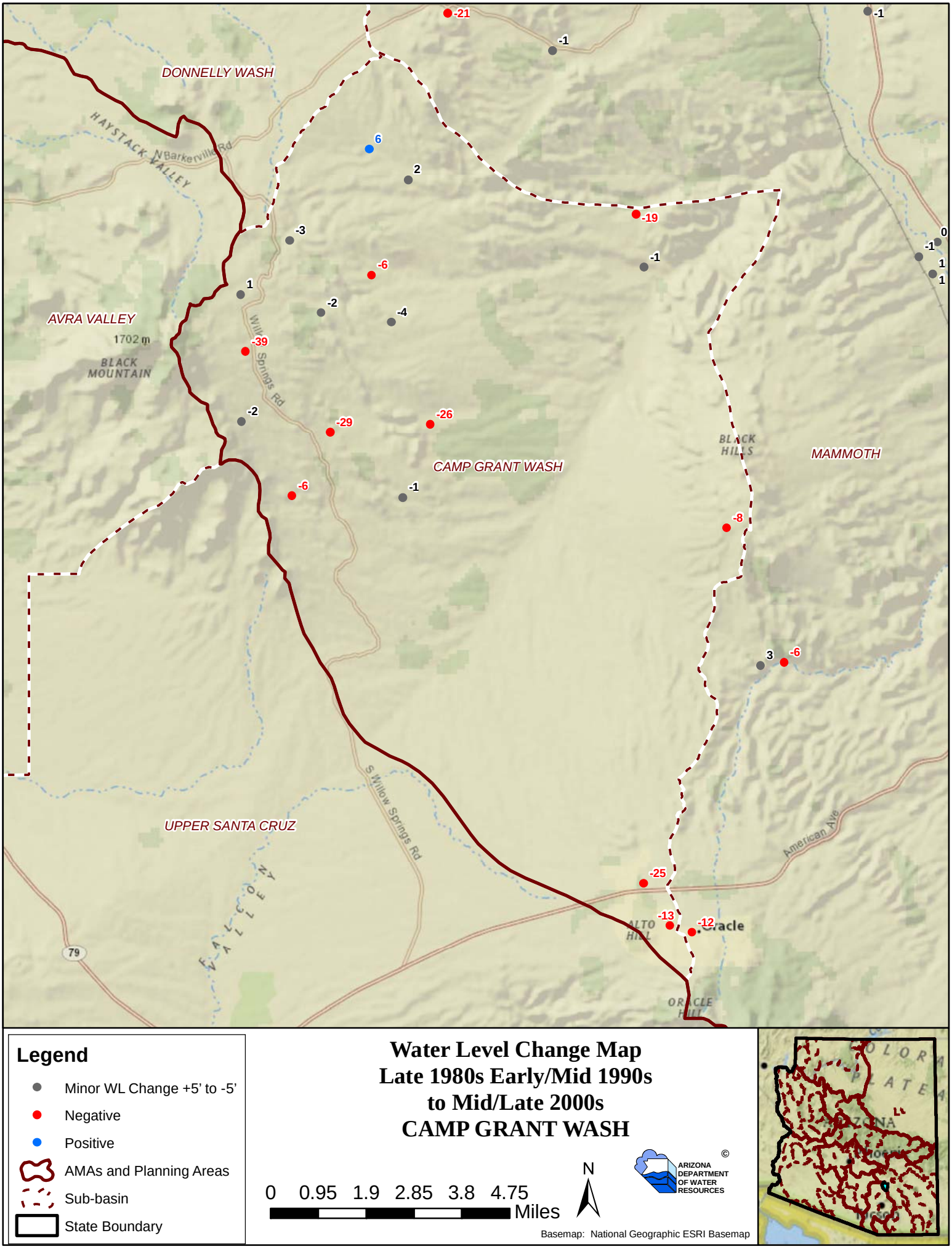
Basemap: National Geographic ESRI Basemap




## Legend

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- Negative
- Positive
- AMAs and Planning Areas
- Sub-basin
- State Boundary

# Water Level Change Map
# Late 1980s Early/Mid 1990s to Mid/Late 2000s
# CAMP GRANT WASH

0 0.95 1.9 2.85 3.8 4.75 Miles

N

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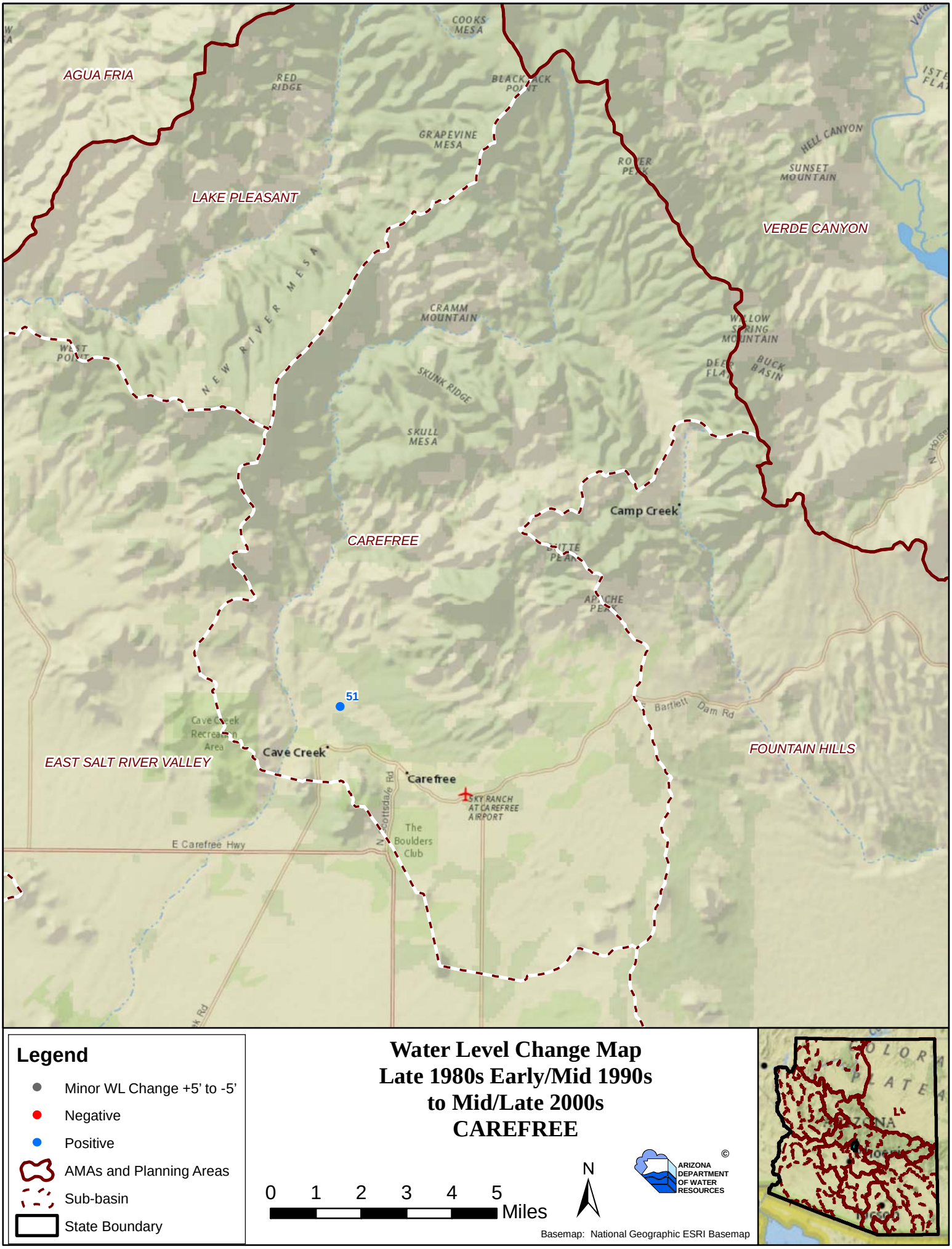
AGUA FRIA
LAKE PLEASANT
VERDE CANYON
CAREFREE
EAST SALT RIVER VALLEY
FOUNTAIN HILLS
COOKS MESA
RED RIDGE
GRAPEVINE MESA
HELL CANYON
SUNSET MOUNTAIN
NEW RIVER MESA
CRAMM MOUNTAIN
WILLOW SPRING MOUNTAIN
BUCK BASIN
SKUNK RIDGE
SKULL MESA
Camp Creek
Cave Creek
Carefree
SKY RANCH AT CAREFREE AIRPORT
The Boulders Club
E Carefree Hwy
Bartlett Dam Rd
51
Legend
Minor WL Change +5' to -5'
Negative
Positive
AMAs and Planning Areas
Sub-basin
State Boundary
Water Level Change Map
Late 1980s Early/Mid 1990s
to Mid/Late 2000s
CAREFREE
0 1 2 3 4 5
Miles
N
ARIZONA DEPARTMENT OF WATER RESOURCES
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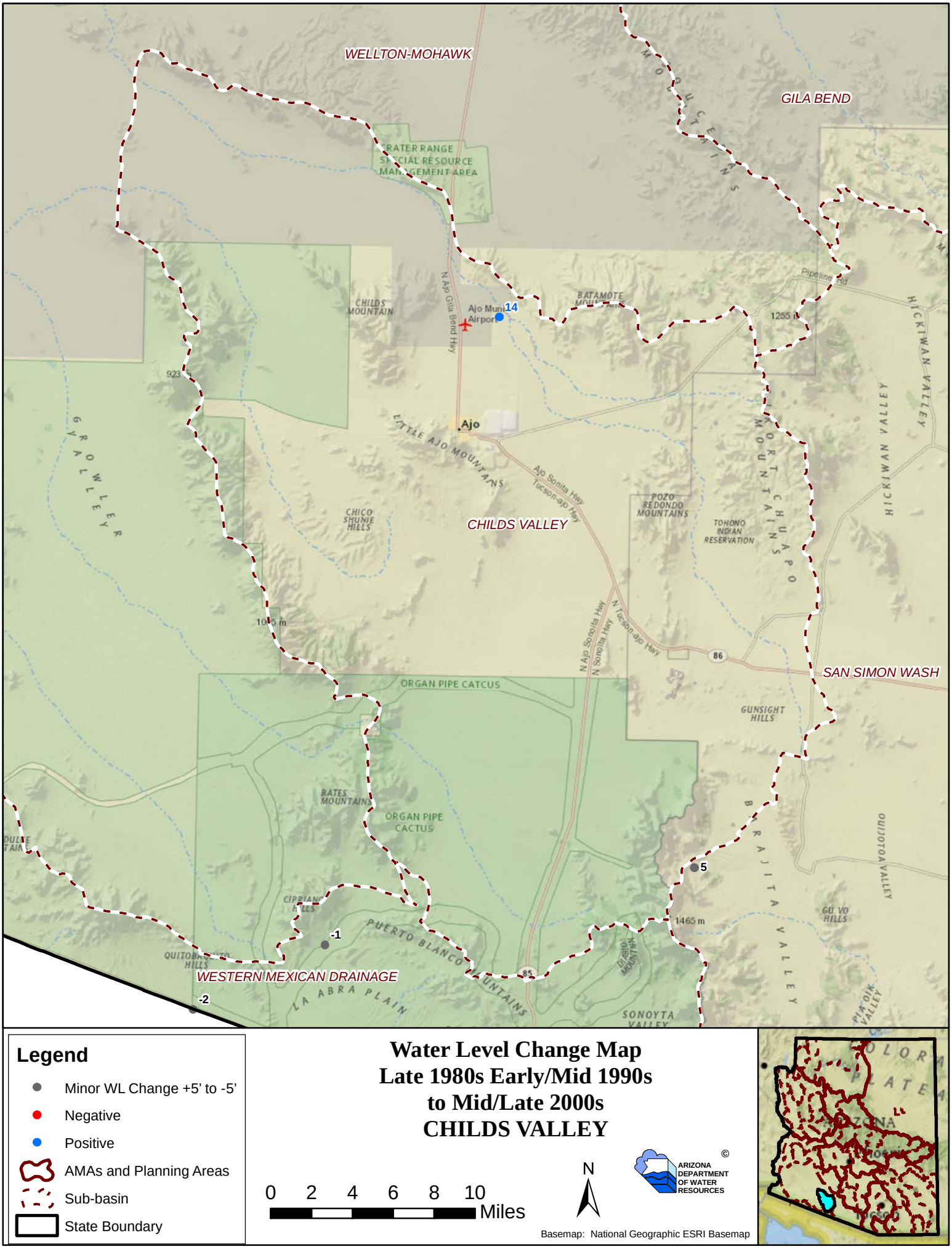
Basemap: National Geographic ESRI Basemap




## Legend

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- Negative
- Positive
- AMAs and Planning Areas
- Sub-basin
- State Boundary

# Water Level Change Map
# Late 1980s Early/Mid 1990s to Mid/Late 2000s
# CHILDS VALLEY

0 2 4 6 8 10 Miles

N

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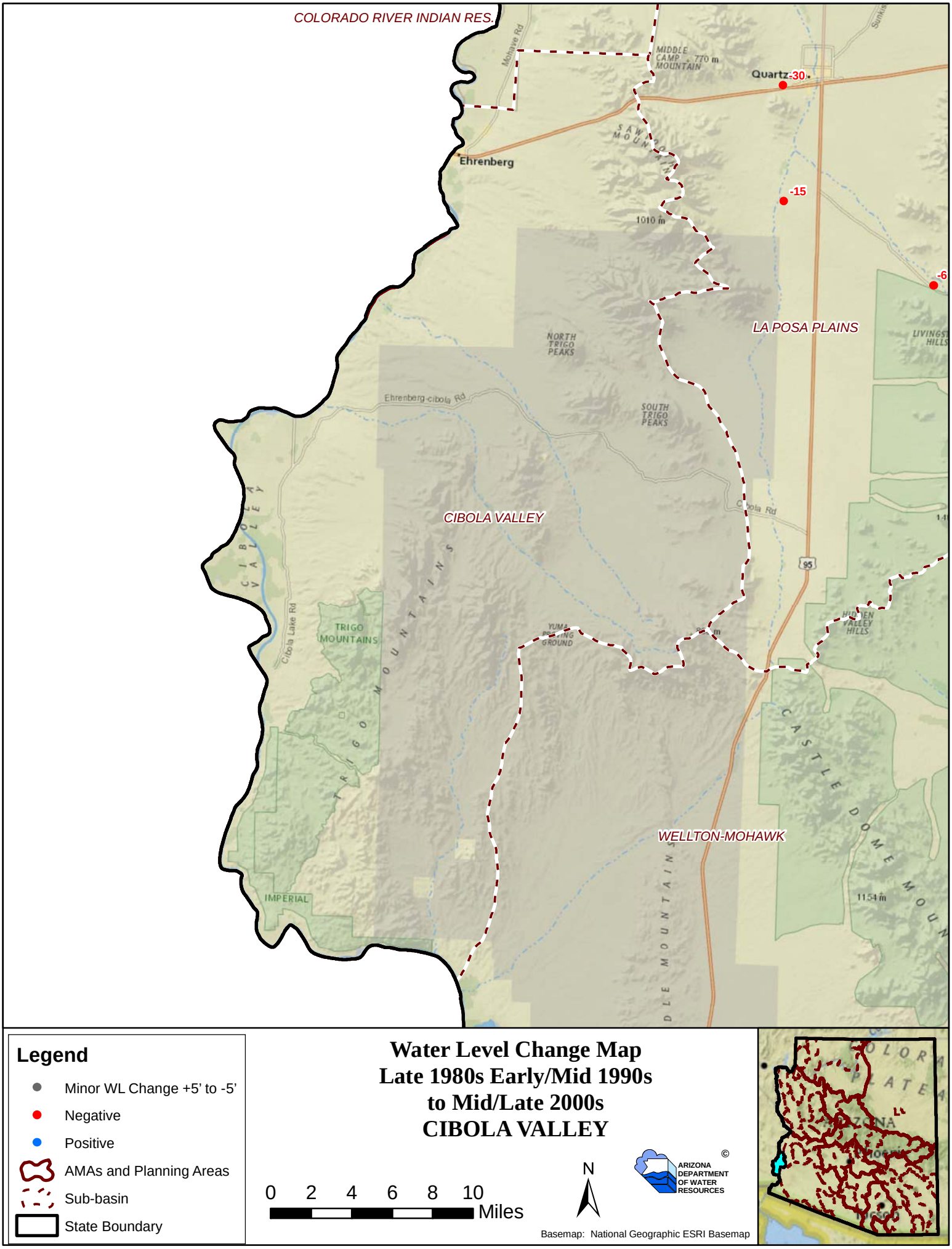
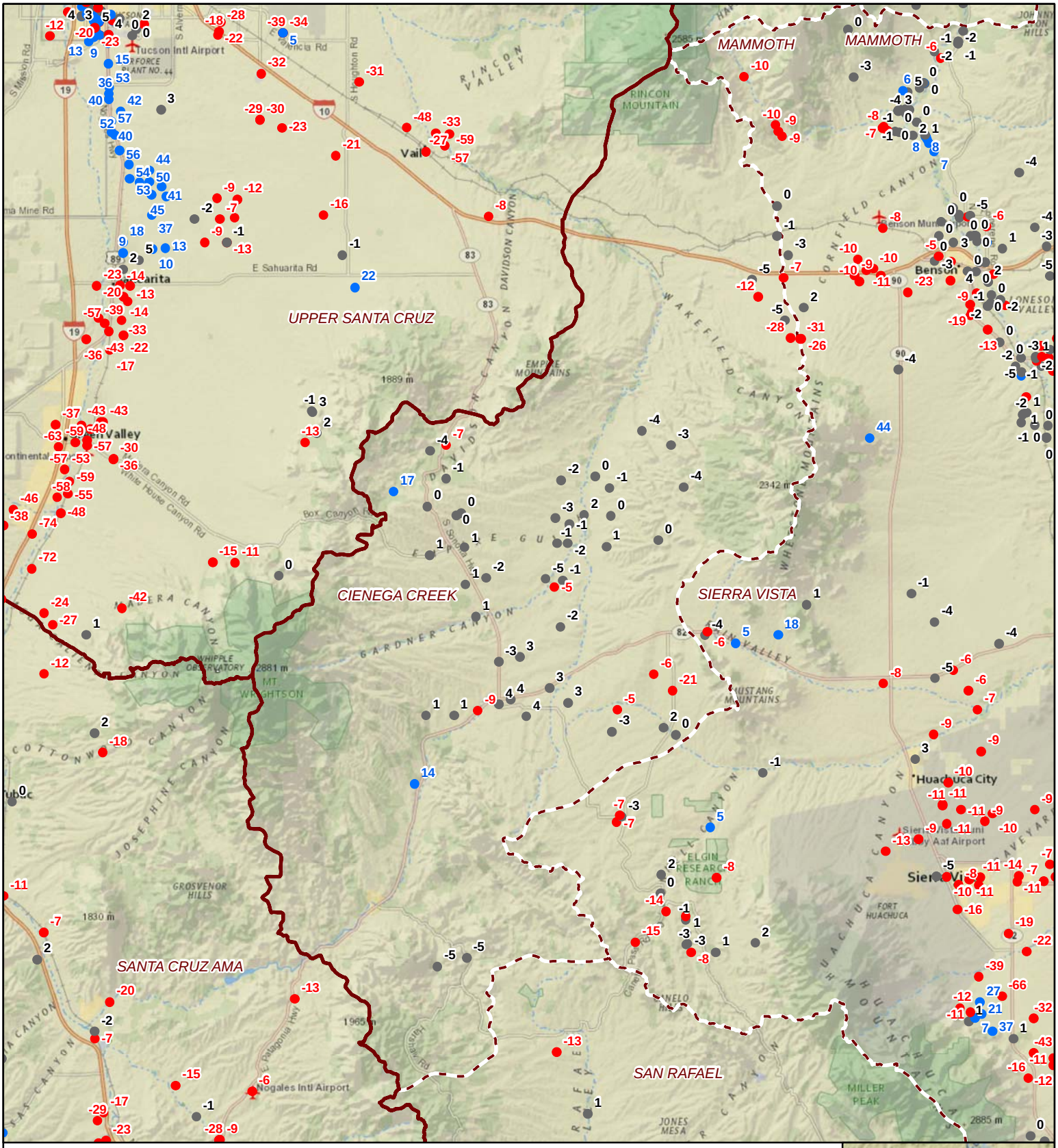
Basemap: National Geographic ESRI Basemap


COLORADO RIVER INDIAN RES.
Mohave Rd
MIDDLE CAMP MOUNTAIN 770 m
Quartz
-30
Ehrenberg
SAWTOOTH MOUNTAINS
-15
1010 m
-6
LA POSA PLAINS
NORTH TRIGO PEAKS
SOUTH TRIGO PEAKS
Ehrenberg-cibola Rd
CIBOLA VALLEY
Cibola Rd
95
TRIGO MOUNTAINS
Cibola Lake Rd
YUMA PROVING GROUND
HIDDEN VALLEY HILLS
CASTLE DOME MOUNTAINS
WELLTON-MOHAWK
IMPERIAL
1154 m
Legend
Minor WL Change +5' to -5'
Negative
Positive
AMAs and Planning Areas
Sub-basin
State Boundary
Water Level Change Map
Late 1980s Early/Mid 1990s
to Mid/Late 2000s
CIBOLA VALLEY
0 2 4 6 8 10
Miles
N
ARIZONA DEPARTMENT OF WATER RESOURCES
©
Basemap: National Geographic ESRI Basemap




## Legend

- Minor WL Change +5' to -5'
- Negative
- Positive
- AMAs and Planning Areas
- Sub-basin
- State Boundary

# Water Level Change Map
# Late 1980s Early/Mid 1990s to Mid/Late 2000s
# CIENEGA CREEK

0 2 4 6 8 10 Miles

N

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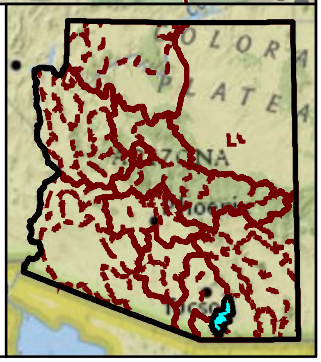
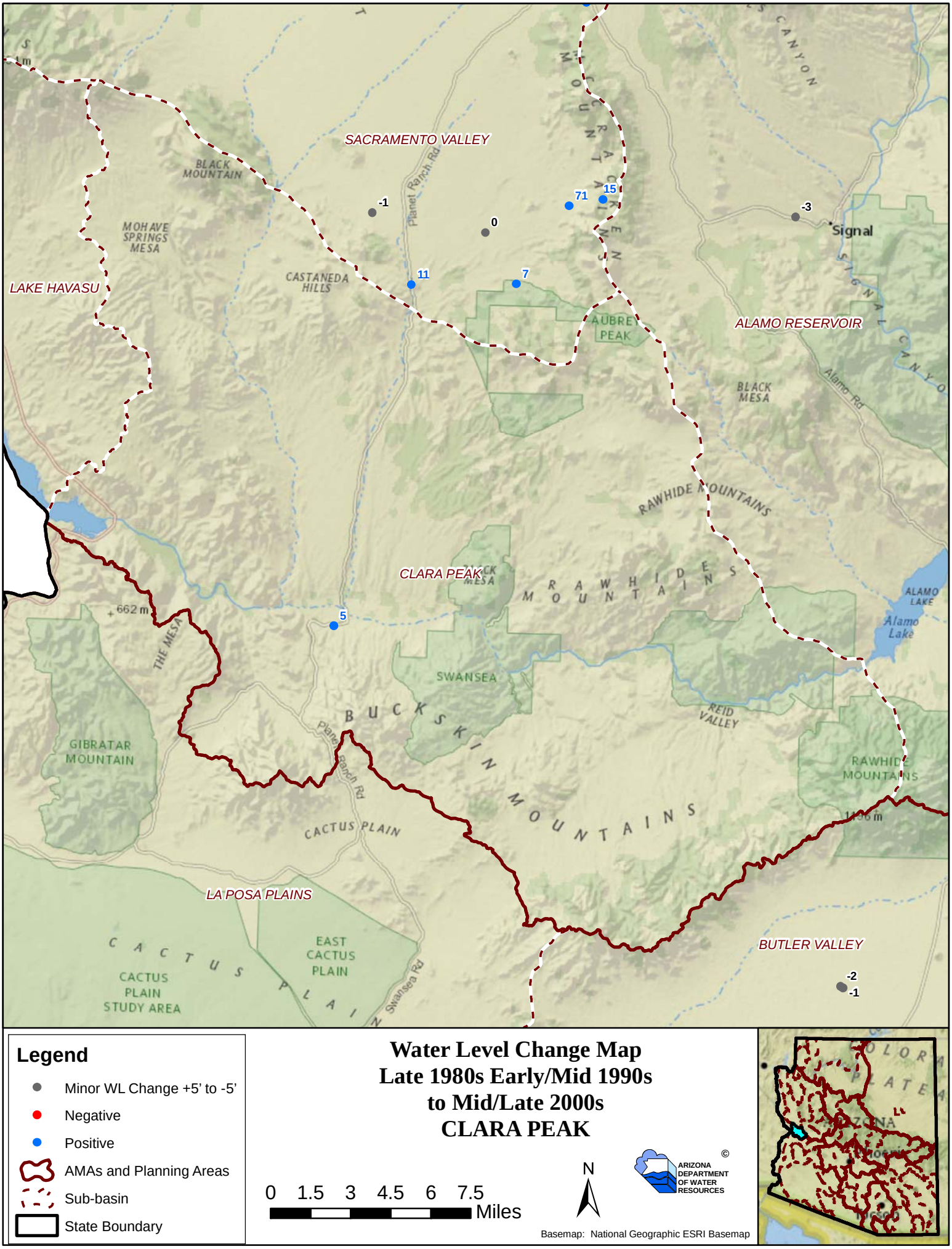
Basemap: National Geographic ESRI Basemap






## Legend

- Minor WL Change +5' to -5'
- Negative
- Positive
- AMAs and Planning Areas
- Sub-basin
- State Boundary

# Water Level Change Map
# Late 1980s Early/Mid 1990s to Mid/Late 2000s
# CLARA PEAK

0 1.5 3 4.5 6 7.5 Miles

N

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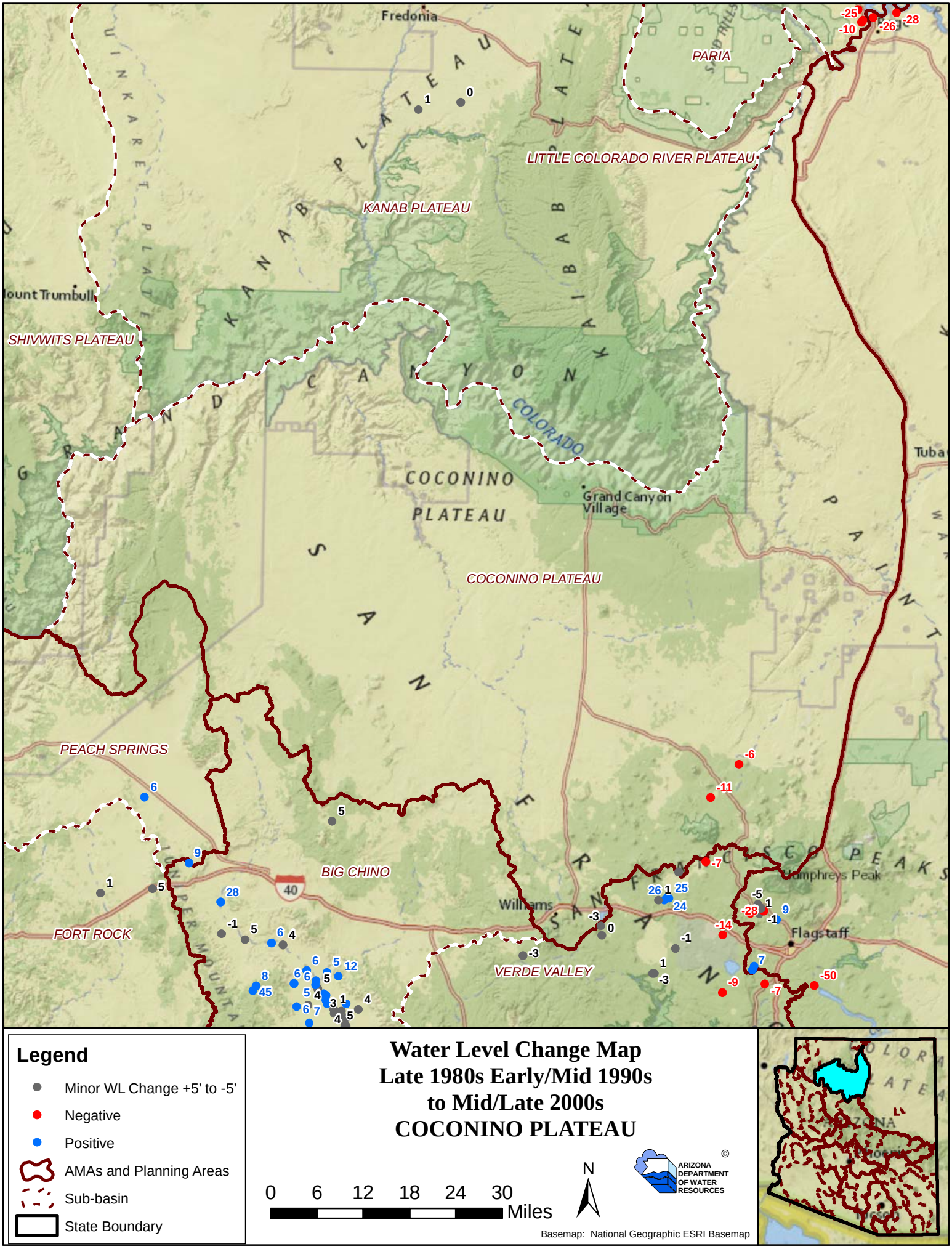
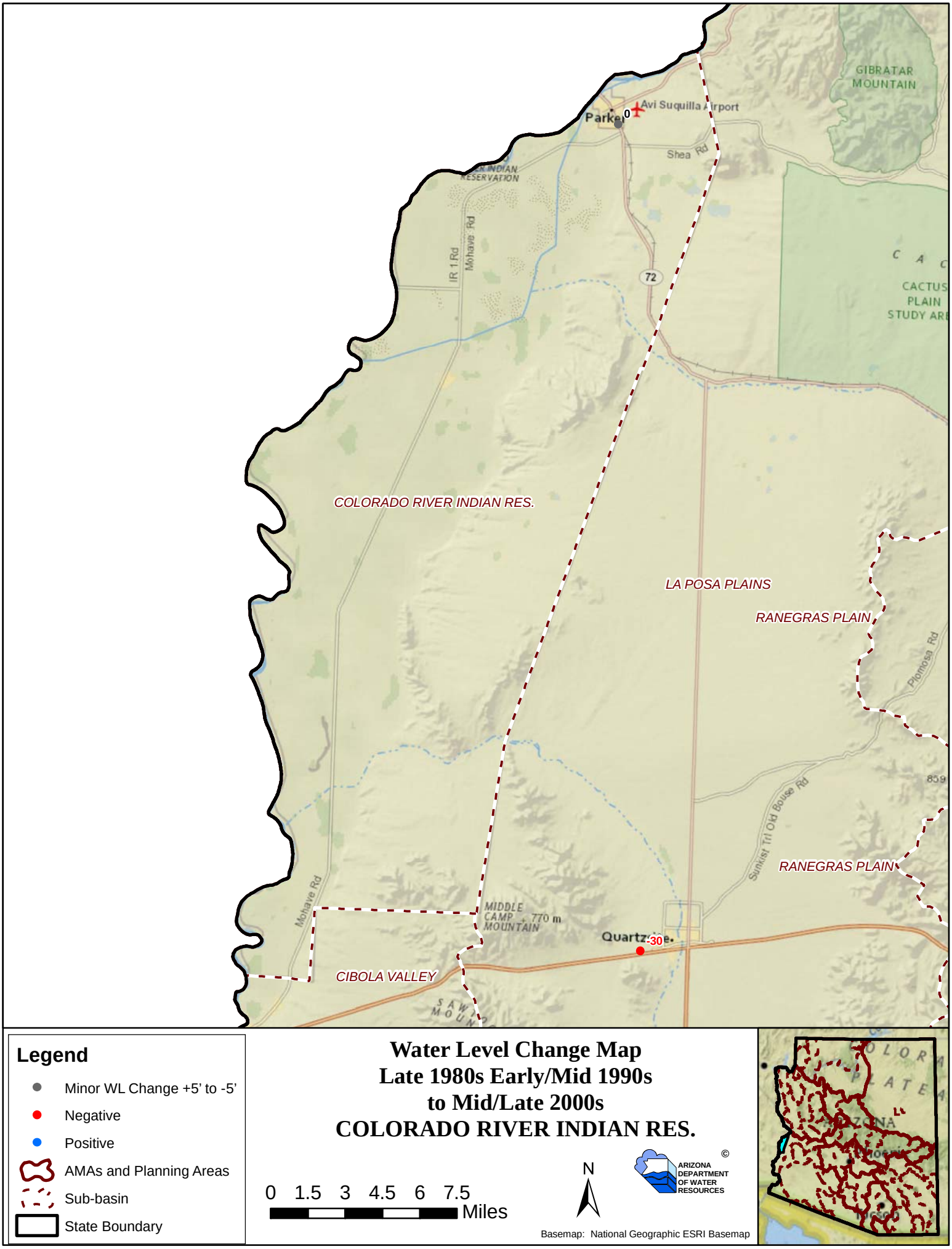
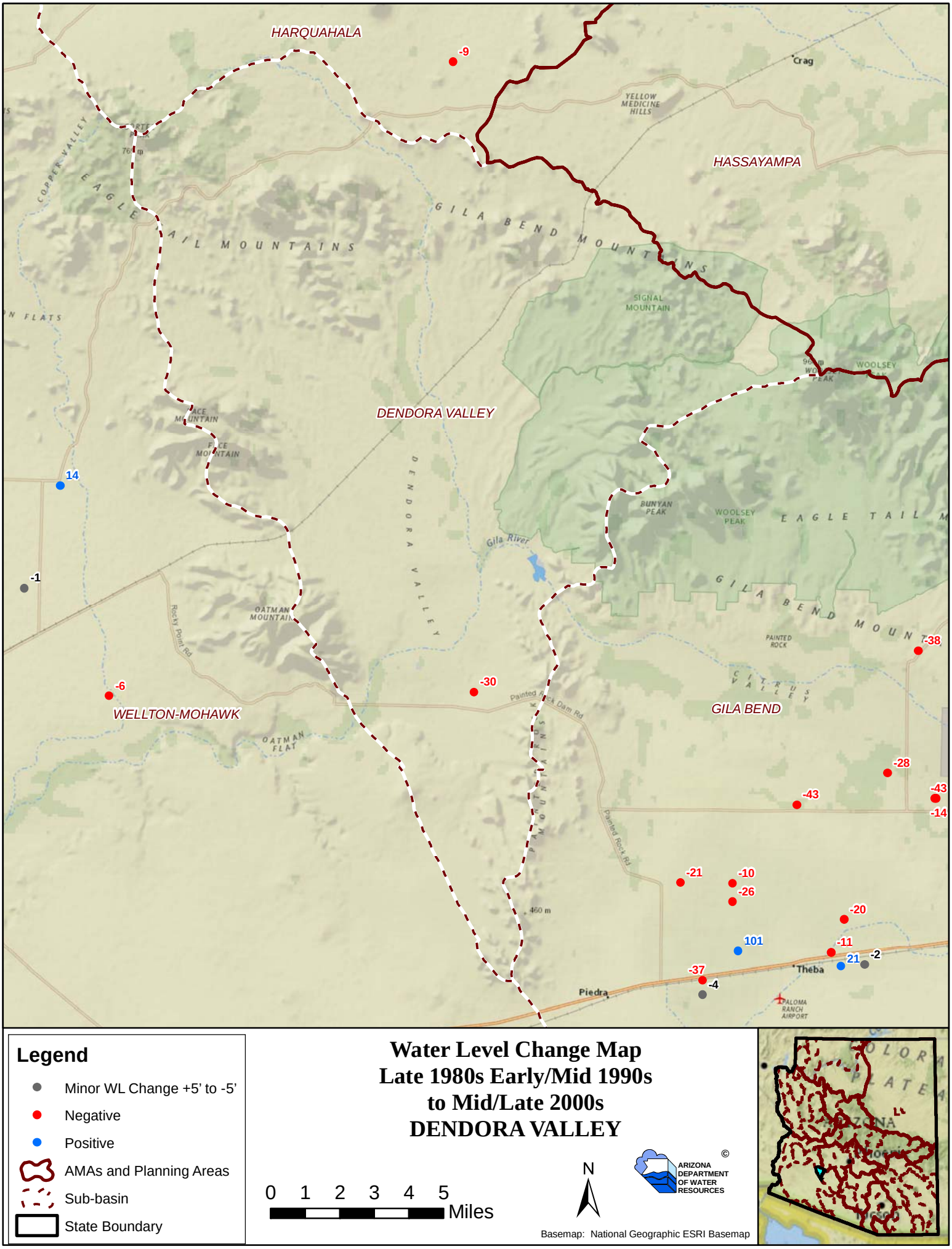
Basemap: National Geographic ESRI Basemap




**Water Level Change Map**
**Late 1980s Early/Mid 1990s**
**to Mid/Late 2000s**
**COCONINO PLATEAU**


GIBRATAR MOUNTAIN
Avi Suquilla Airport
Parker
Shea Rd
IR 1 Rd
Mohave Rd
72
CACTUS PLAIN STUDY AREA
COLORADO RIVER INDIAN RES.
LA POSA PLAINS
RANEGRAS PLAIN
Plomosa Rd
Sunset Trl
Old Bouse Rd
859
RANEGRAS PLAIN
MIDDLE CAMP MOUNTAIN
770 m
Quartzsite
30
CIBOLA VALLEY
Legend
Minor WL Change +5' to -5'
Negative
Positive
AMAs and Planning Areas
Sub-basin
State Boundary
Water Level Change Map
Late 1980s Early/Mid 1990s
to Mid/Late 2000s
COLORADO RIVER INDIAN RES.
0 1.5 3 4.5 6 7.5
Miles
N
ARIZONA DEPARTMENT OF WATER RESOURCES
Basemap: National Geographic ESRI Basemap


HARQUAHALA
HASSAYAMPA
DENDORA VALLEY
WELLTON-MOHAWK
GILA BEND
EAGLE TAIL MOUNTAINS
GILA BEND MOUNTAINS
SIGNAL MOUNTAIN
WOOLSEY PEAK
BUNYAN PEAK
YELLOW MEDICINE HILLS
COPPER VALLEY
OATMAN MOUNTAIN
OATMAN FLAT
PAINTED ROCK
CITRUS VALLEY
Gila River
Rocky Point Rd
Painted Rock Dam Rd
Painted Rock Rd
Crag
Theba
Piedra
PALOMA RANCH AIRPORT
-9
14
-1
-6
-30
-38
-28
-43
-43
-14
-21
-10
-26
-20
101
-11
21
-2
-37
-4
Legend
Minor WL Change +5' to -5'
Negative
Positive
AMAs and Planning Areas
Sub-basin
State Boundary
Water Level Change Map
Late 1980s Early/Mid 1990s
to Mid/Late 2000s
DENDORA VALLEY
0 1 2 3 4 5
Miles
N
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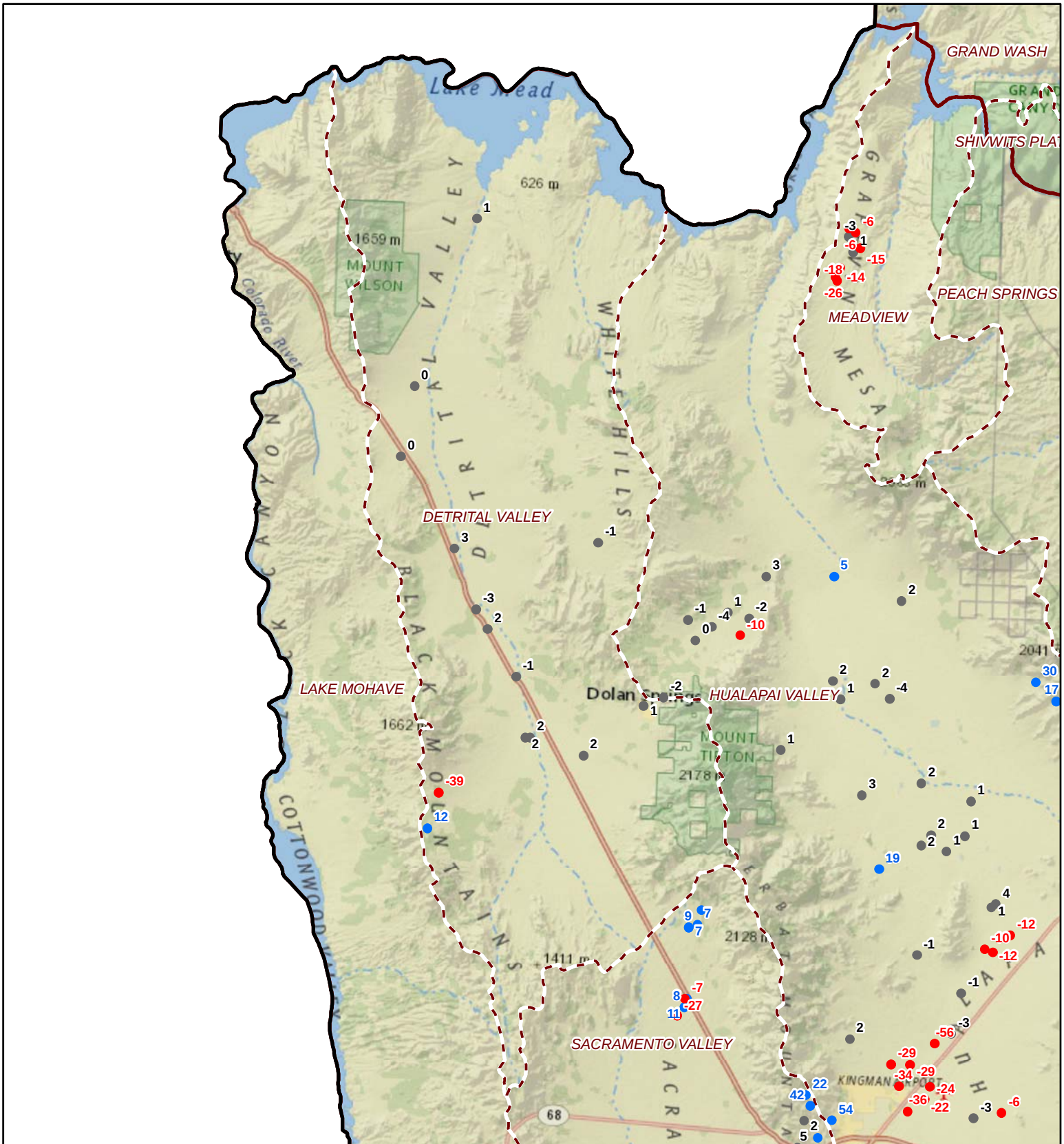
©
Basemap: National Geographic ESRI Basemap




## Legend

- Minor WL Change +5' to -5'
- Negative
- Positive
- AMAs and Planning Areas
- Sub-basin
- State Boundary

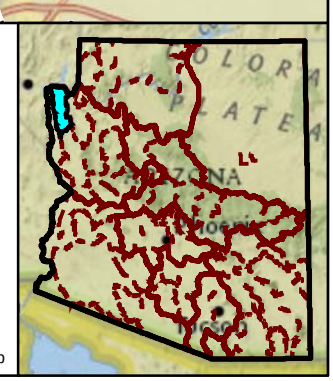
# Water Level Change Map
# Late 1980s Early/Mid 1990s to Mid/Late 2000s
# DETRITAL VALLEY

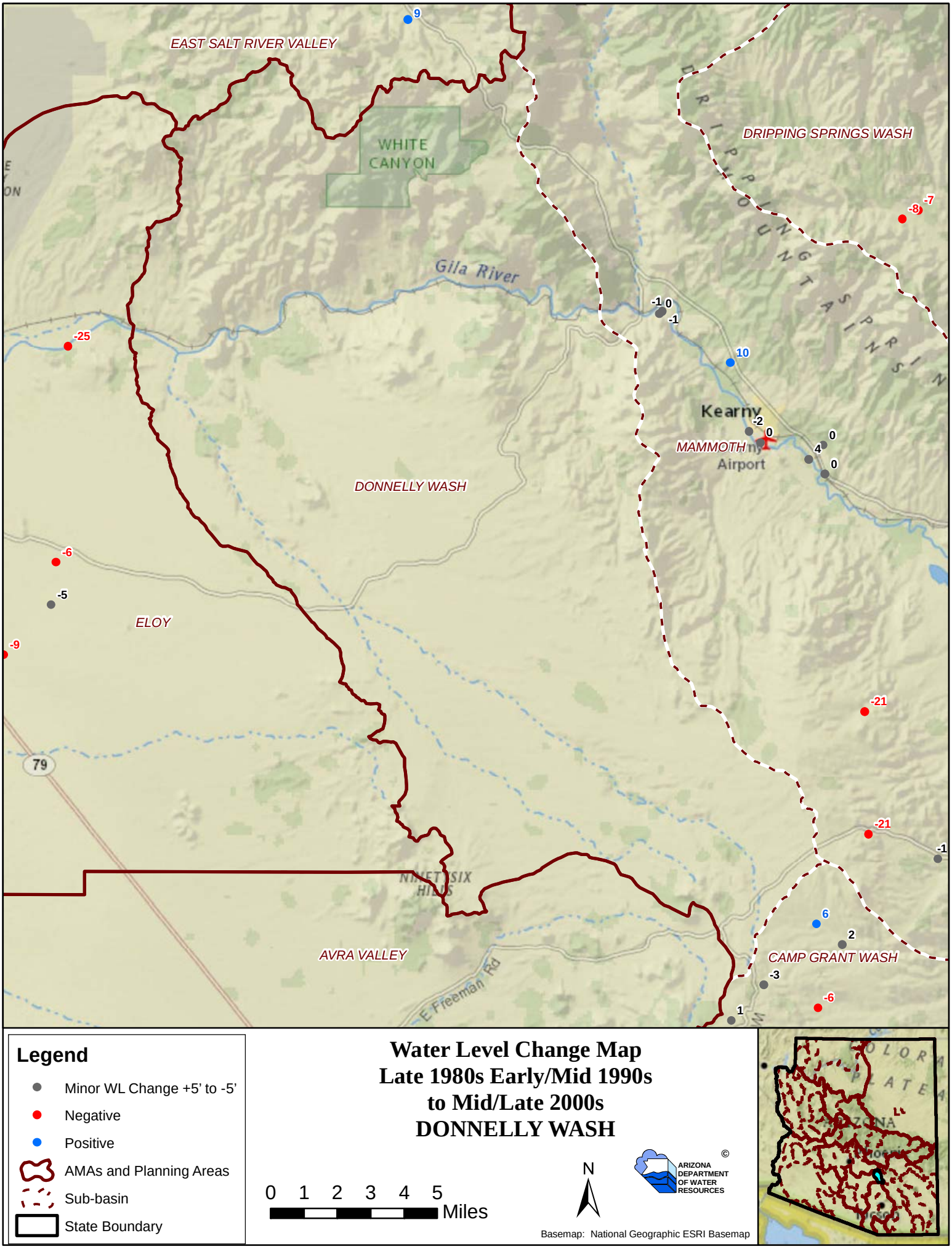
0 3 6 9 12 15 Miles

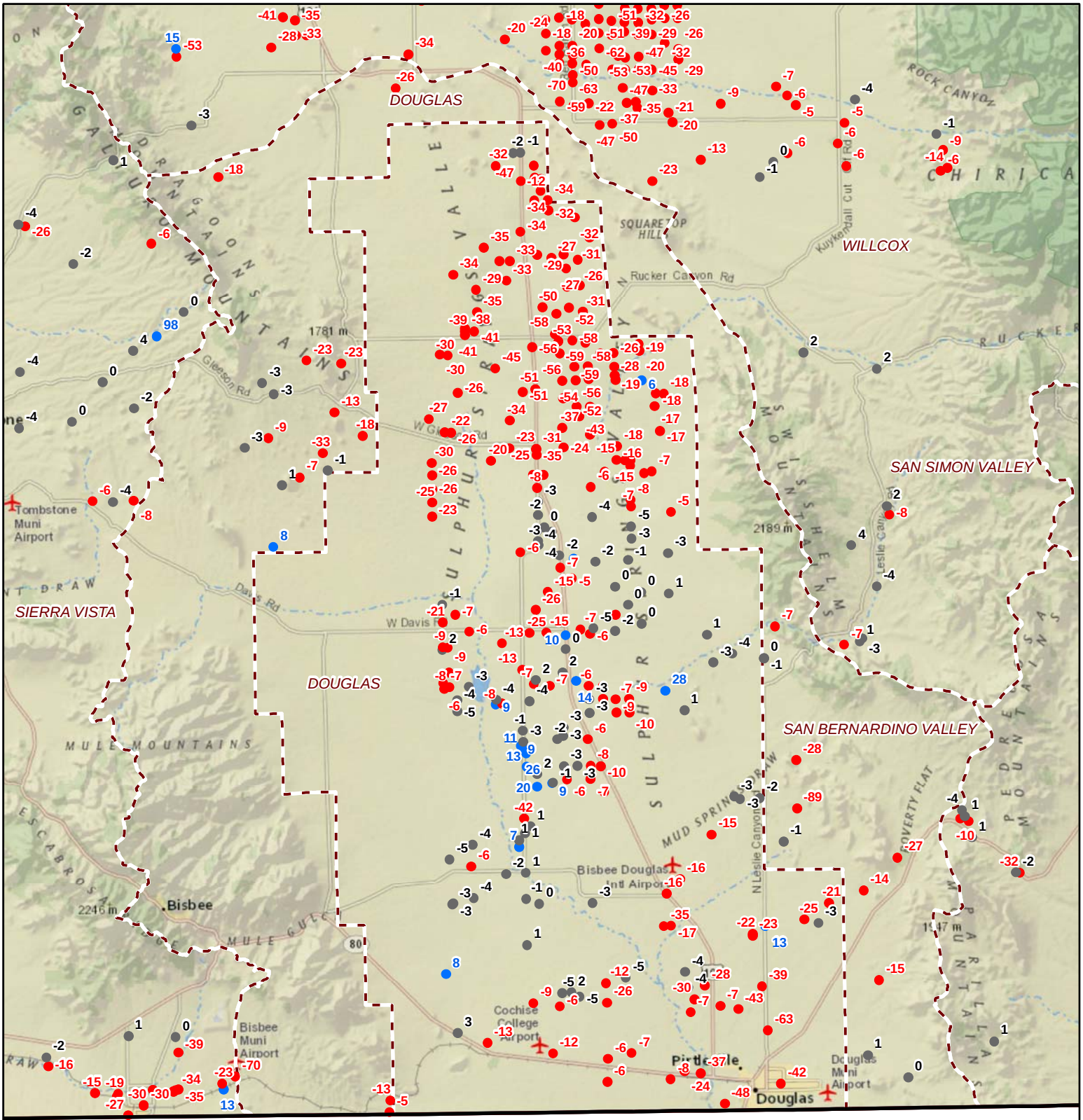
N

ARIZONA DEPARTMENT OF WATER RESOURCES ©

Basemap: National Geographic ESRI Basemap




EAST SALT RIVER VALLEY
WHITE CANYON
DRIPPING SPRINGS WASH
Gila River
Kearny
MAMMOTH
Airport
DONNELLY WASH
ELOY
79
AVRA VALLEY
CAMP GRANT WASH
E Freeman Rd
9
-25
-1
0
-1
10
-2
0
0
4
0
-6
-5
-9
-21
-21
-1
6
2
-3
-6
1
-7
-8
Legend
Minor WL Change +5' to -5'
Negative
Positive
AMAs and Planning Areas
Sub-basin
State Boundary
Water Level Change Map
Late 1980s Early/Mid 1990s
to Mid/Late 2000s
DONNELLY WASH
0 1 2 3 4 5
Miles
N
ARIZONA DEPARTMENT OF WATER RESOURCES
©
Basemap: National Geographic ESRI Basemap




## Legend

- Minor WL Change +5' to -5'
- Negative
- Positive
- AMAs and Planning Areas
- Sub-basin
- State Boundary

# Water Level Change Map
# Late 1980s Early/Mid 1990s to Mid/Late 2000s
# DOUGLAS

0 2 4 6 8 10 Miles

N

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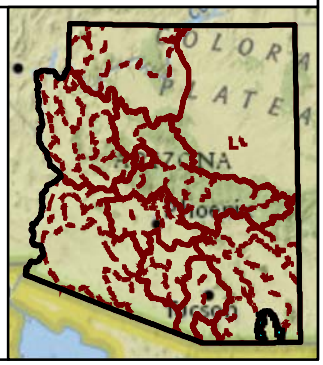
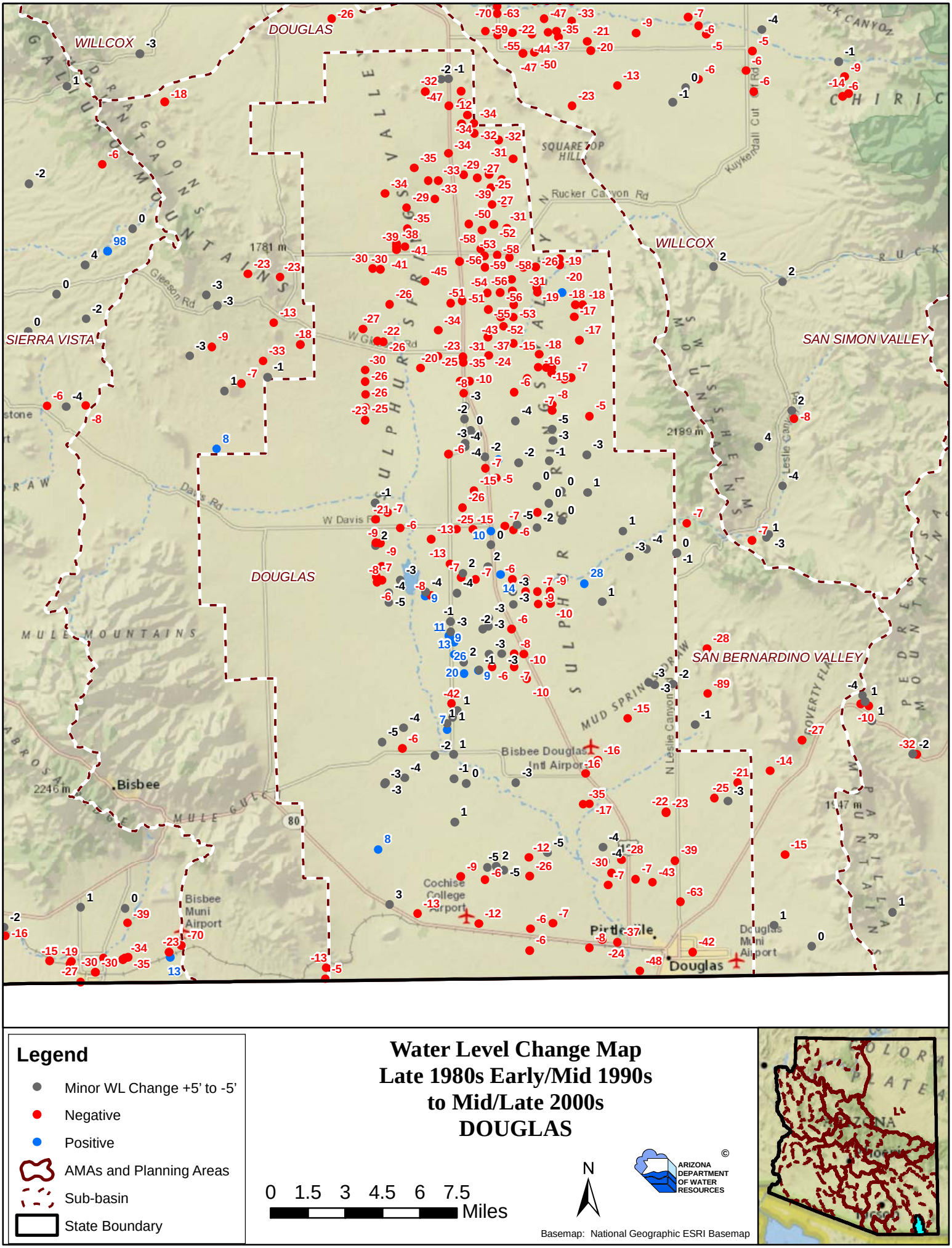
Basemap: National Geographic ESRI Basemap






## Legend

- Minor WL Change +5' to -5'
- Negative
- Positive
- AMAs and Planning Areas
- Sub-basin
- State Boundary

# Water Level Change Map
# Late 1980s Early/Mid 1990s to Mid/Late 2000s
# DOUGLAS

0 1.5 3 4.5 6 7.5 Miles

N

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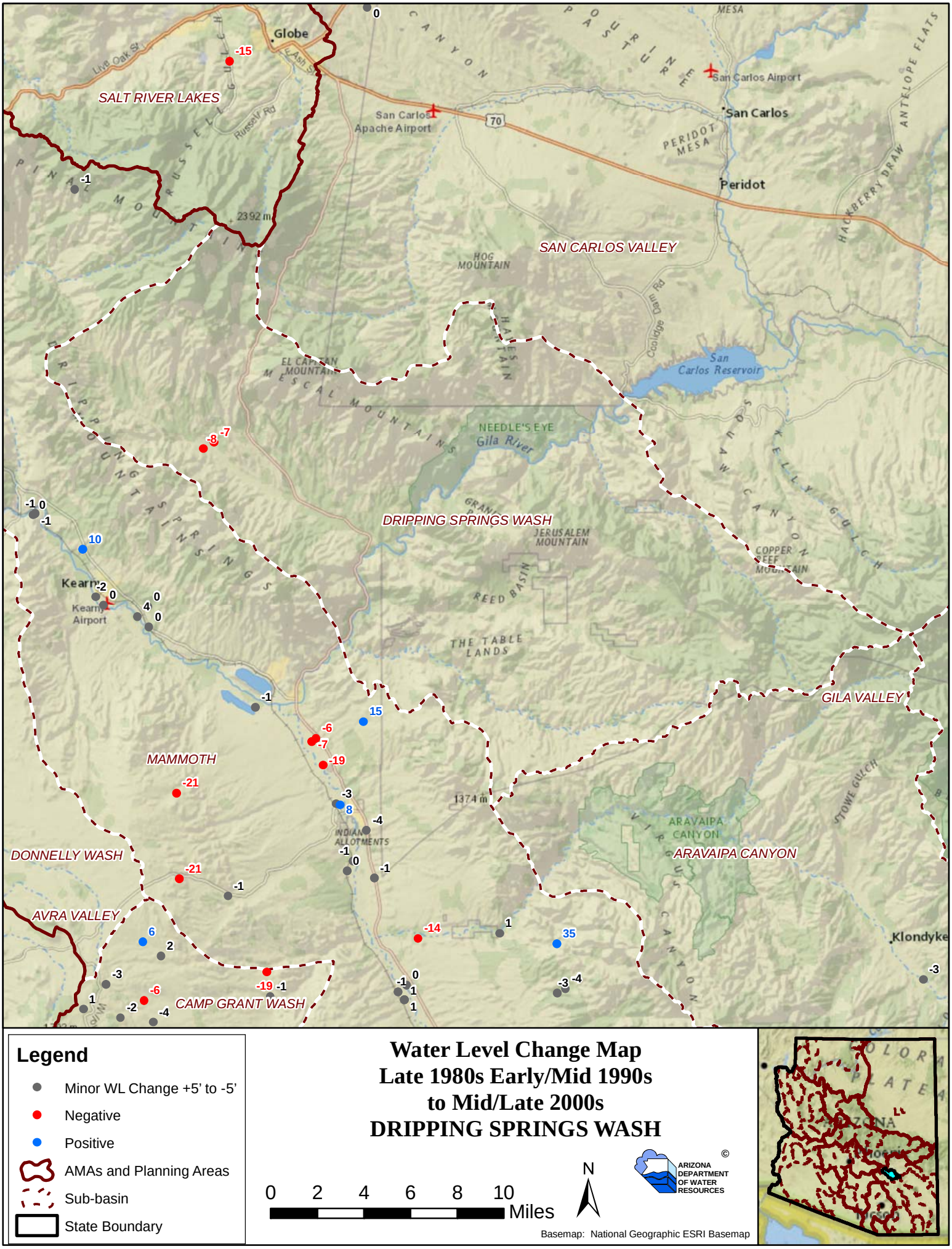
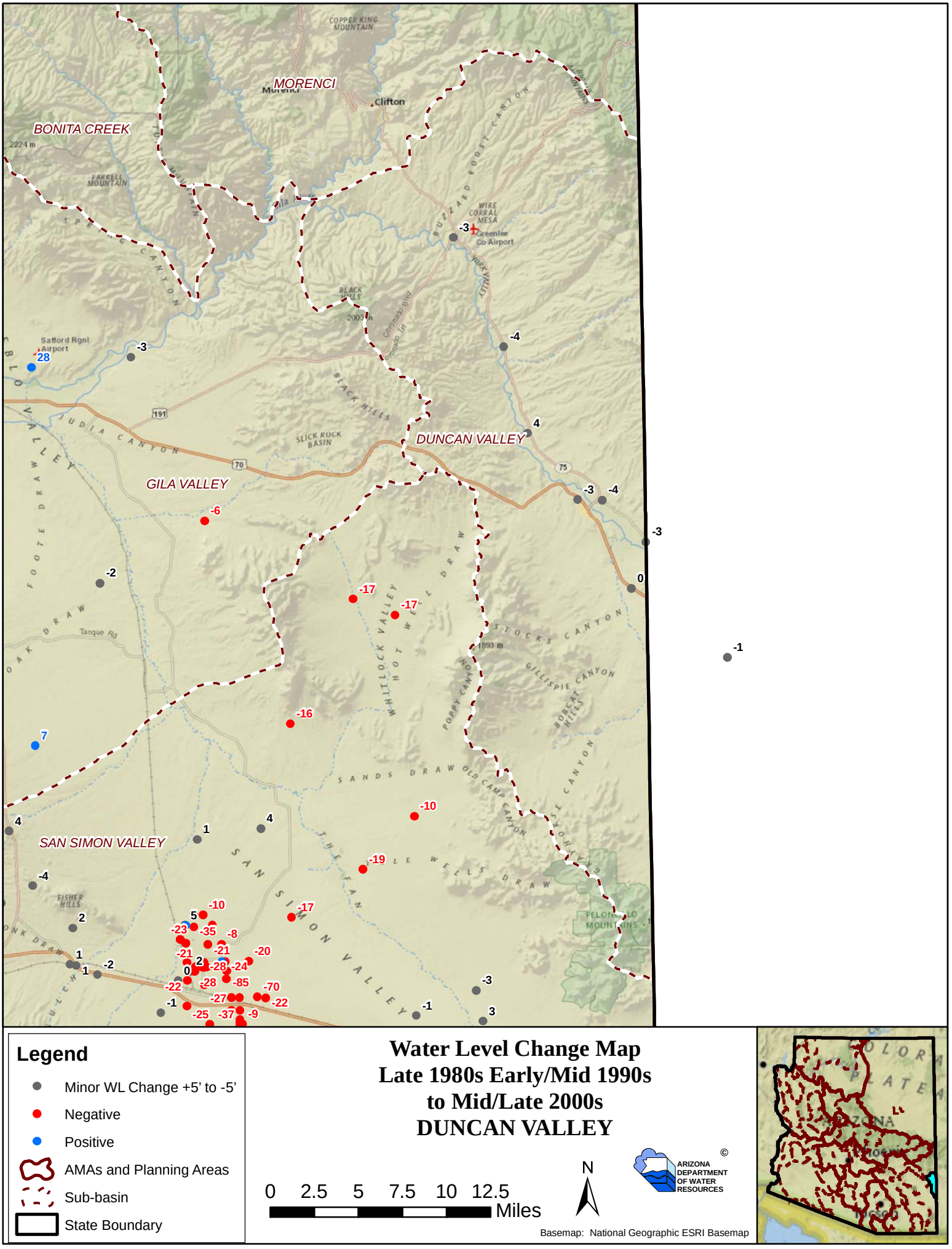
Basemap: National Geographic ESRI Basemap


Globe
SALT RIVER LAKES
San Carlos Apache Airport
San Carlos Airport
San Carlos
Peridot
SAN CARLOS VALLEY
HOG MOUNTAIN
San Carlos Reservoir
NEEDLE'S EYE
Gila River
DRIPPING SPRINGS WASH
JERUSALEM MOUNTAIN
REED BASIN
THE TABLE LANDS
Kearny
Kearny Airport
GILA VALLEY
MAMMOTH
DONNELLY WASH
AVRA VALLEY
CAMP GRANT WASH
ARAVAIPA CANYON
INDIAN ALLOTMENTS
Klondyke
1374 m
2392 m
Legend
Minor WL Change +5' to -5'
Negative
Positive
AMAs and Planning Areas
Sub-basin
State Boundary
Water Level Change Map
Late 1980s Early/Mid 1990s
to Mid/Late 2000s
DRIPPING SPRINGS WASH
0 2 4 6 8 10
Miles
N
ARIZONA DEPARTMENT OF WATER RESOURCES
©
Basemap: National Geographic ESRI Basemap




## Legend

- Minor WL Change +5' to -5'
- Negative
- Positive
- AMAs and Planning Areas
- Sub-basin
- State Boundary

# Water Level Change Map
# Late 1980s Early/Mid 1990s to Mid/Late 2000s
# DUNCAN VALLEY

0 2.5 5 7.5 10 12.5 Miles

N

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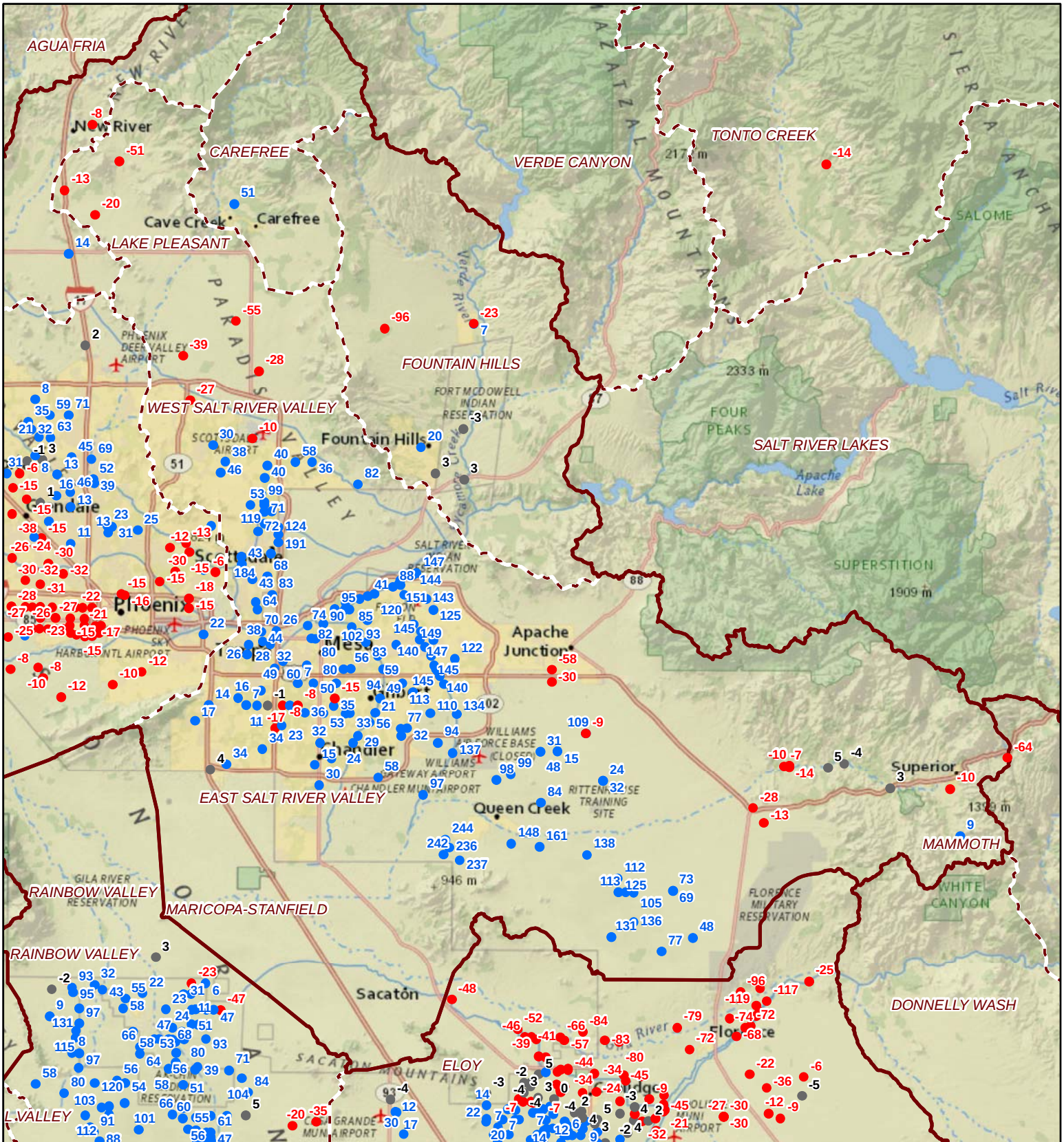
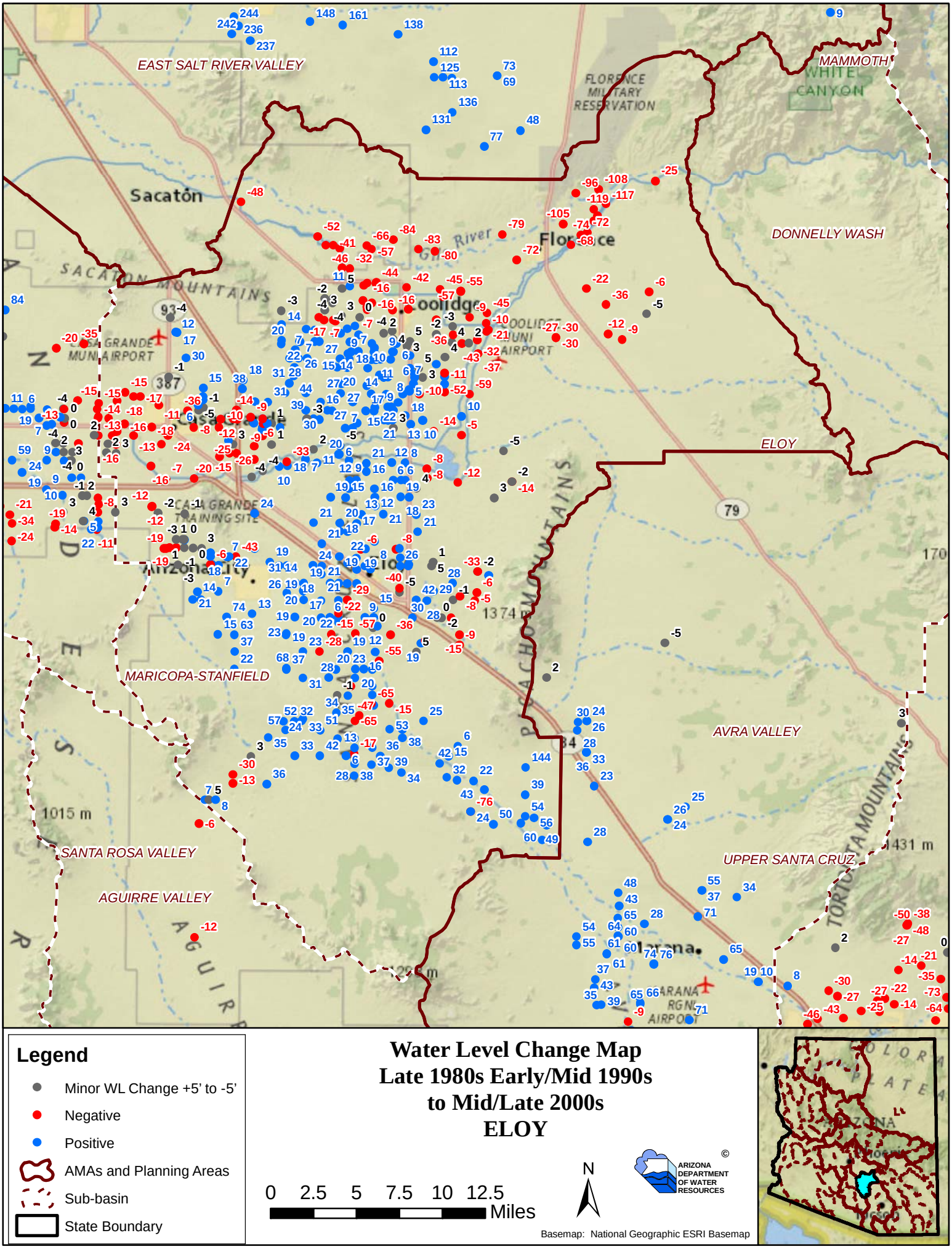
Basemap: National Geographic ESRI Basemap




# Water Level Change Map
# Late 1980s Early/Mid 1990s to Mid/Late 2000s
# EAST SALT RIVER VALLEY




## Legend

- Minor WL Change +5' to -5'
- Negative
- Positive
- AMAs and Planning Areas
- Sub-basin
- State Boundary

# Water Level Change Map
# Late 1980s Early/Mid 1990s to Mid/Late 2000s
# ELOY

0 2.5 5 7.5 10 12.5 Miles

N

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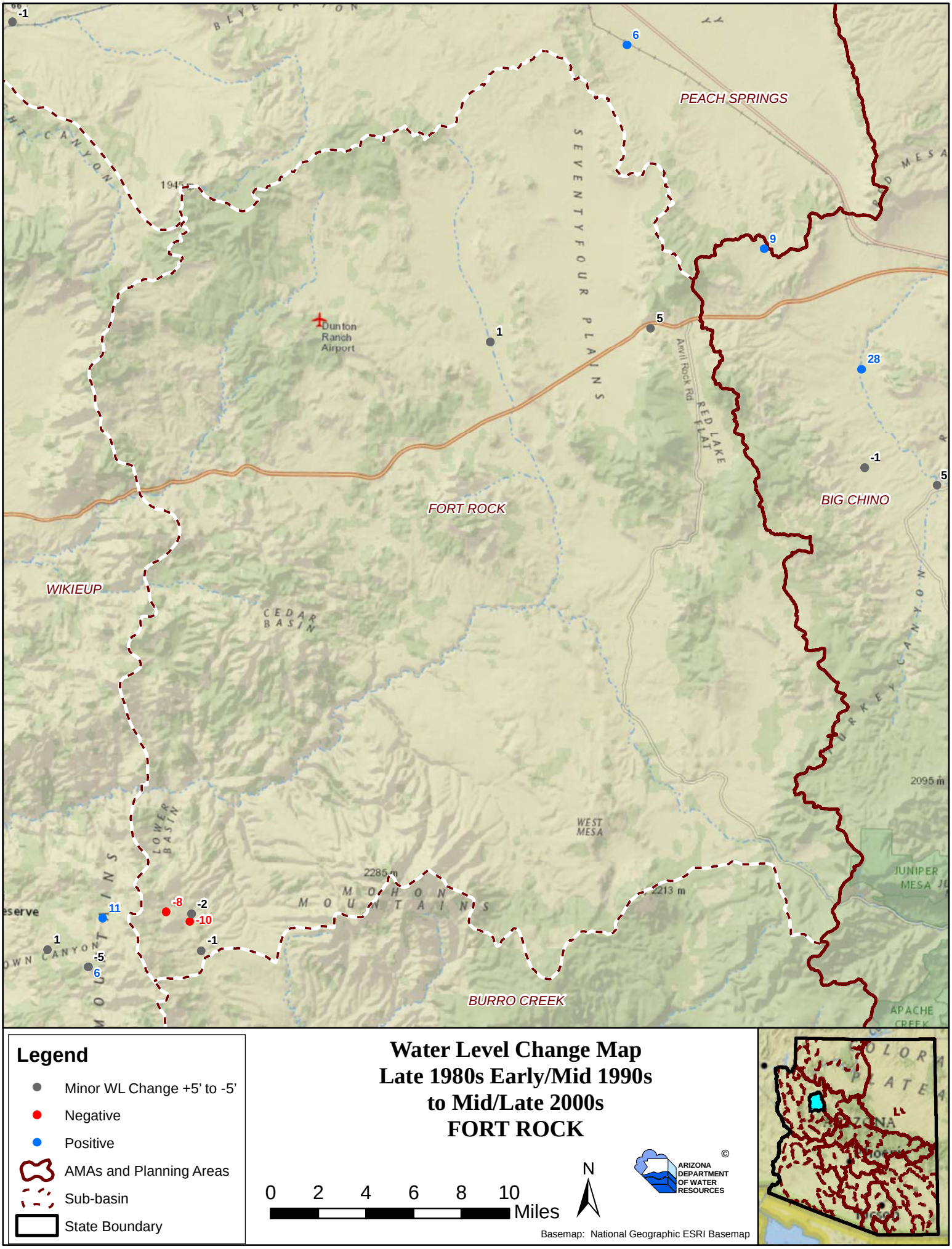
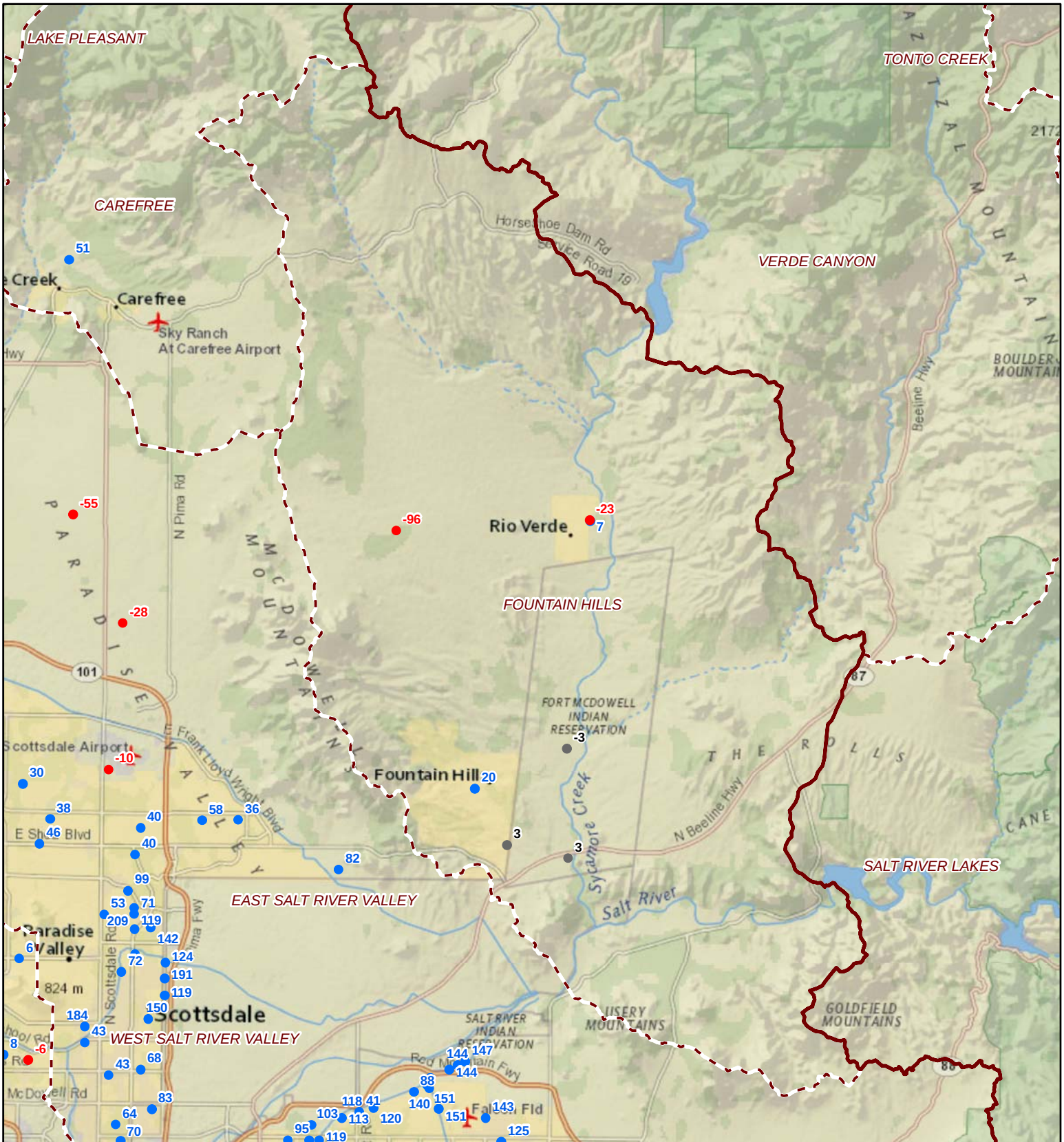
Basemap: National Geographic ESRI Basemap


PEACH SPRINGS
SEVENTY FOUR PLAINS
Dunton Ranch Airport
Anvil Rock Rd
RED LAKE FLAT
FORT ROCK
BIG CHINO
WIKIEUP
CEDAR BASIN
TURKEY CANYON
WEST MESA
JUNIPER MESA
MOHON MOUNTAINS
BURRO CREEK
APACHE CREEK
2285 m
2213 m
2095 m
-1
6
9
1
5
28
-1
5
11
-8
-2
-10
1
-5
6
-1
Legend
Minor WL Change +5' to -5'
Negative
Positive
AMAs and Planning Areas
Sub-basin
State Boundary
Water Level Change Map
Late 1980s Early/Mid 1990s
to Mid/Late 2000s
FORT ROCK
0 2 4 6 8 10
Miles
N
ARIZONA DEPARTMENT OF WATER RESOURCES
©
Basemap: National Geographic ESRI Basemap




## Legend

- Minor WL Change +5' to -5'
- Negative
- Positive
- AMAs and Planning Areas
- Sub-basin
- State Boundary

# Water Level Change Map
# Late 1980s Early/Mid 1990s to Mid/Late 2000s
# FOUNTAIN HILLS

0 1.5 3 4.5 6 7.5 Miles

N

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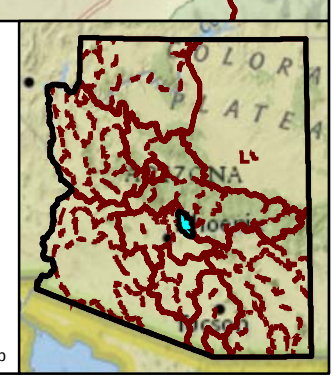
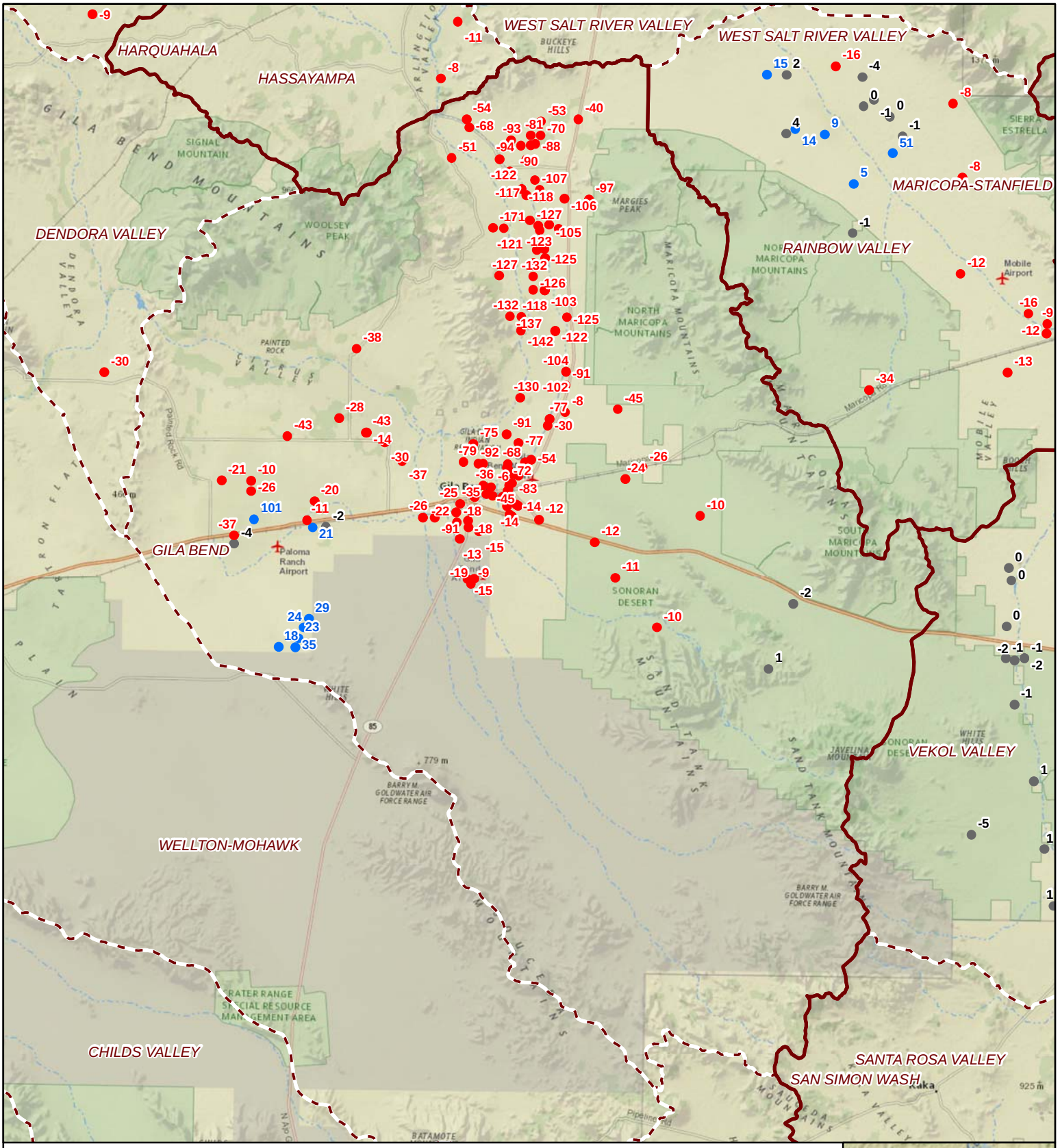
Basemap: National Geographic ESRI Basemap






## Legend

- Minor WL Change +5' to -5'
- Negative
- Positive
- AMAs and Planning Areas
- Sub-basin
- State Boundary

# Water Level Change Map
# Late 1980s Early/Mid 1990s to Mid/Late 2000s
# GILA BEND

0 2.5 5 7.5 10 12.5 Miles

N

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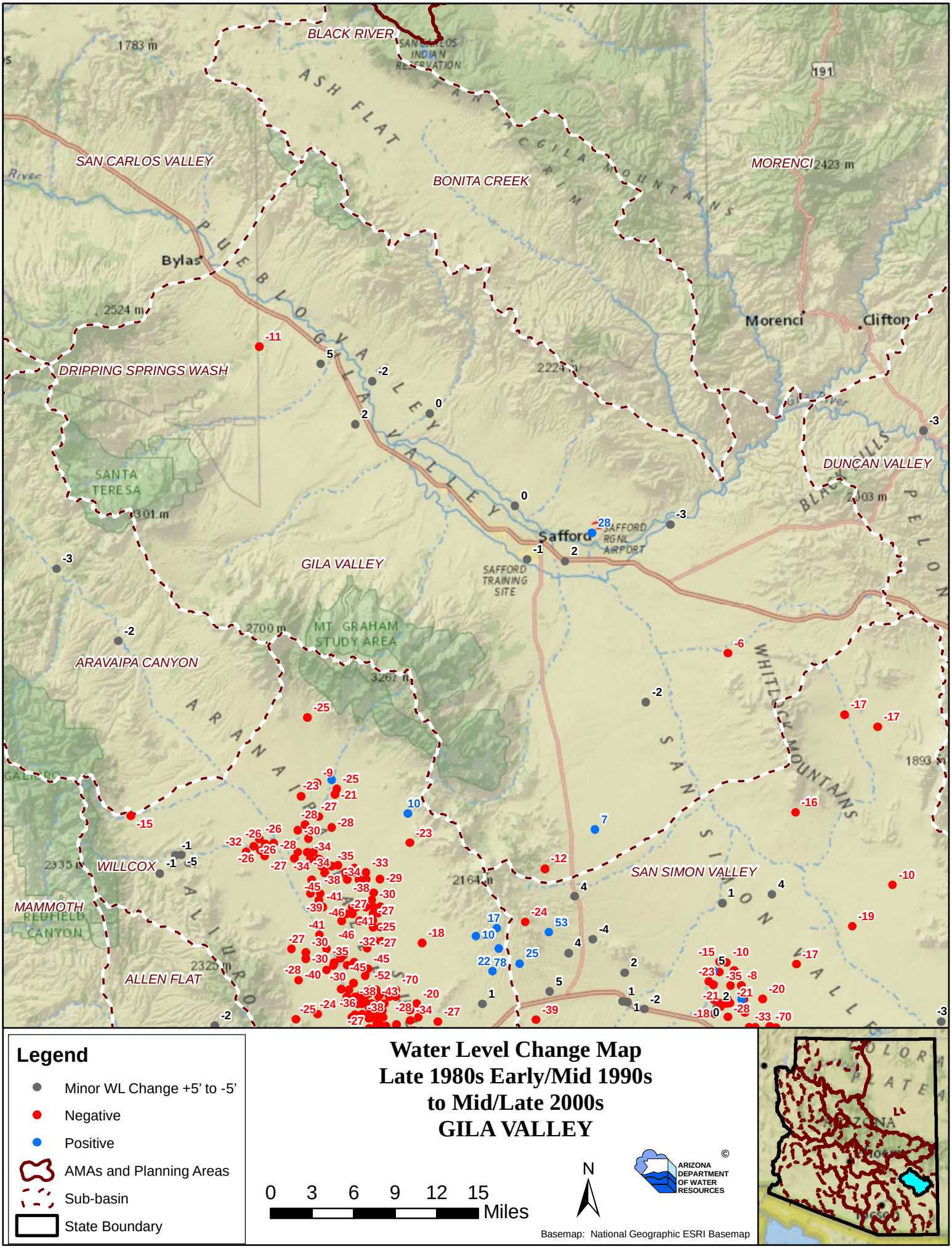
Basemap: National Geographic ESRI Basemap




## Legend

- Minor WL Change +5' to -5'
- Negative
- Positive
- AMAs and Planning Areas
- Sub-basin
- State Boundary

# Water Level Change Map
# Late 1980s Early/Mid 1990s to Mid/Late 2000s
# GILA VALLEY

0 3 6 9 12 15 Miles

N

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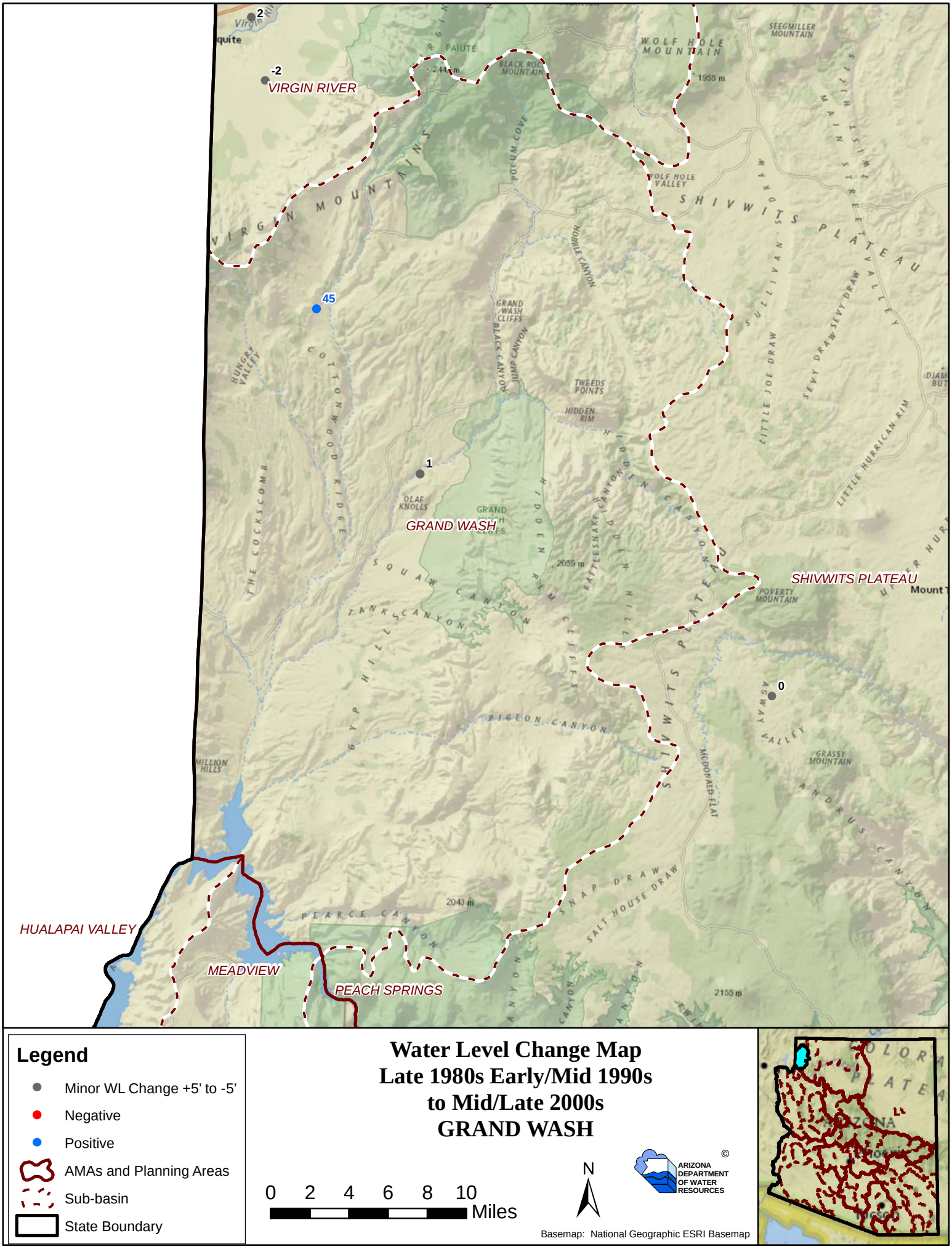
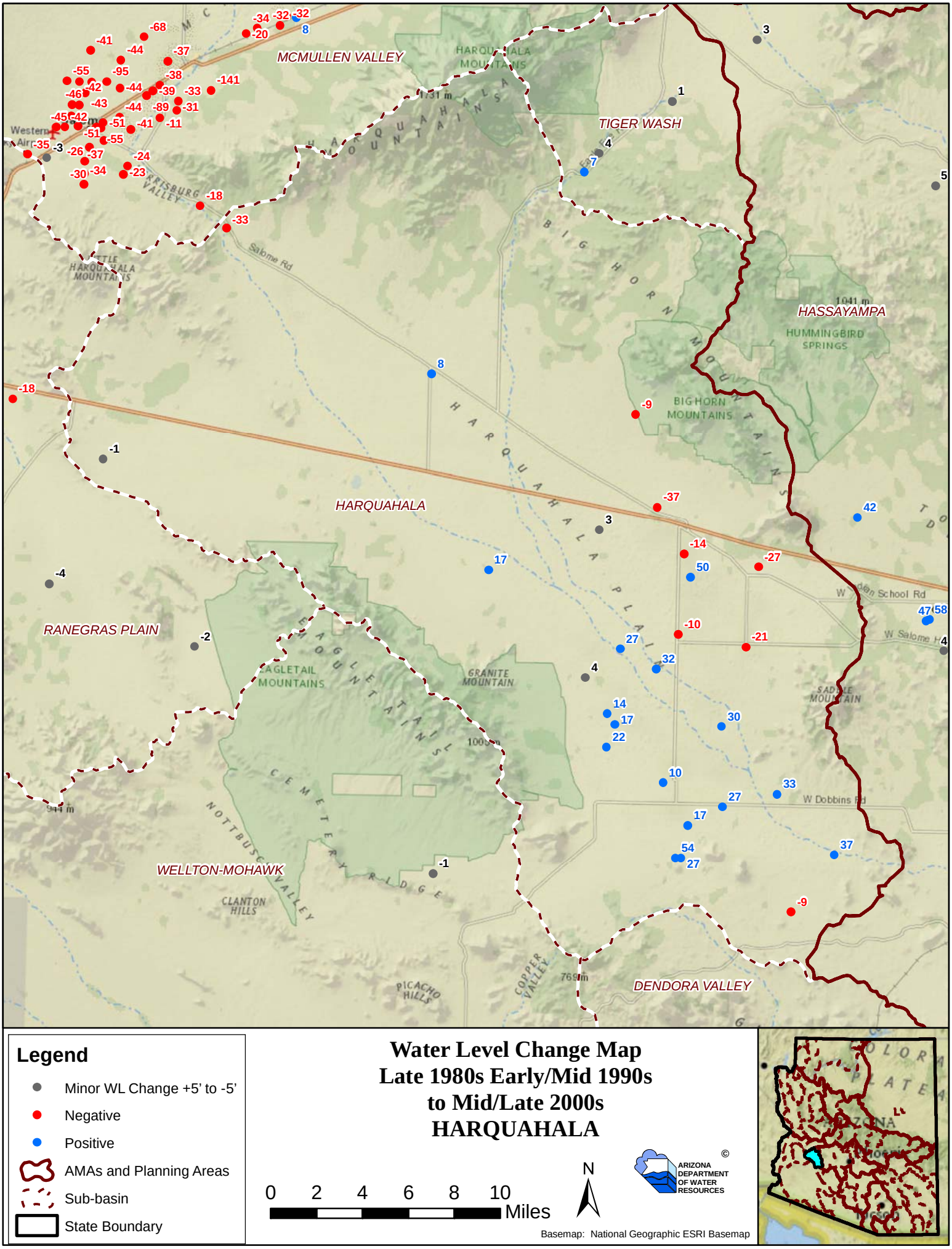
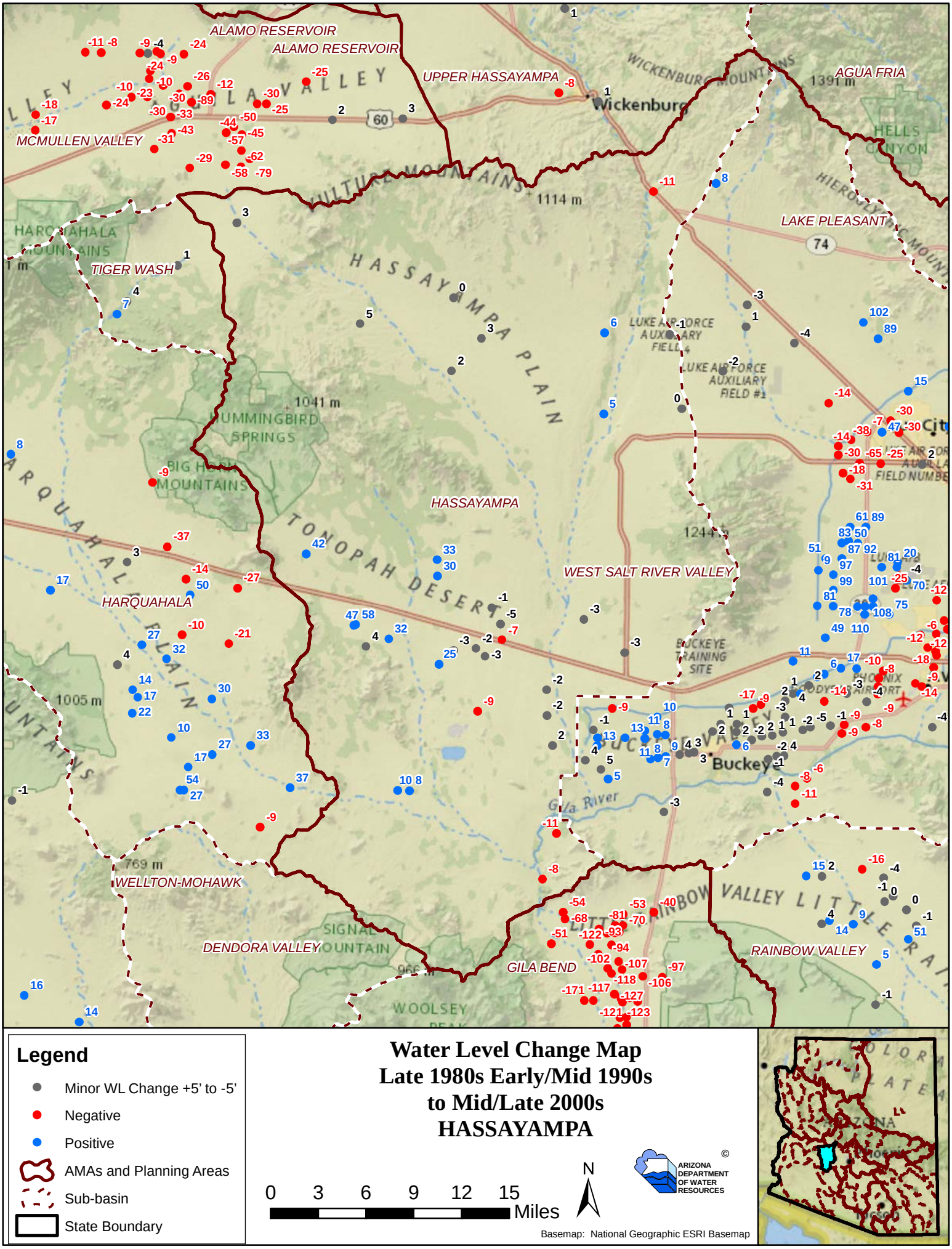
Basemap: National Geographic ESRI Basemap


2
-2
VIRGIN RIVER
45
1
GRAND WASH
SHIVWITS PLATEAU
0
HUALAPAI VALLEY
MEADVIEW
PEACH SPRINGS
Legend
Minor WL Change +5' to -5'
Negative
Positive
AMAs and Planning Areas
Sub-basin
State Boundary
Water Level Change Map
Late 1980s Early/Mid 1990s
to Mid/Late 2000s
GRAND WASH
0 2 4 6 8 10
Miles
N
ARIZONA DEPARTMENT OF WATER RESOURCES
©
Basemap: National Geographic ESRI Basemap


MCMULLEN VALLEY
TIGER WASH
HASSAYAMPA
HUMMINGBIRD SPRINGS
BIGHORN MOUNTAINS
HARQUAHALA
HARQUAHALA PLAIN
RANEGRAS PLAIN
EAGLETAIL MOUNTAINS
GRANITE MOUNTAIN
SADDLE MOUNTAIN
WELLTON-MOHAWK
CLANTON HILLS
PICACHO HILLS
COPPER VALLEY
DENDORA VALLEY
CEMETERY RIDGE
NOTTBUSCH VALLEY
W Dobbins Rd
W Salome Hwy
Salome Rd
Legend
Minor WL Change +5' to -5'
Negative
Positive
AMAs and Planning Areas
Sub-basin
State Boundary
Water Level Change Map
Late 1980s Early/Mid 1990s
to Mid/Late 2000s
HARQUAHALA
0 2 4 6 8 10
Miles
N
ARIZONA DEPARTMENT OF WATER RESOURCES
Basemap: National Geographic ESRI Basemap




## Legend

- Minor WL Change +5' to -5'
- Negative
- Positive
- AMAs and Planning Areas
- Sub-basin
- State Boundary

# Water Level Change Map
# Late 1980s Early/Mid 1990s to Mid/Late 2000s
# HASSAYAMPA

0 3 6 9 12 15 Miles

N

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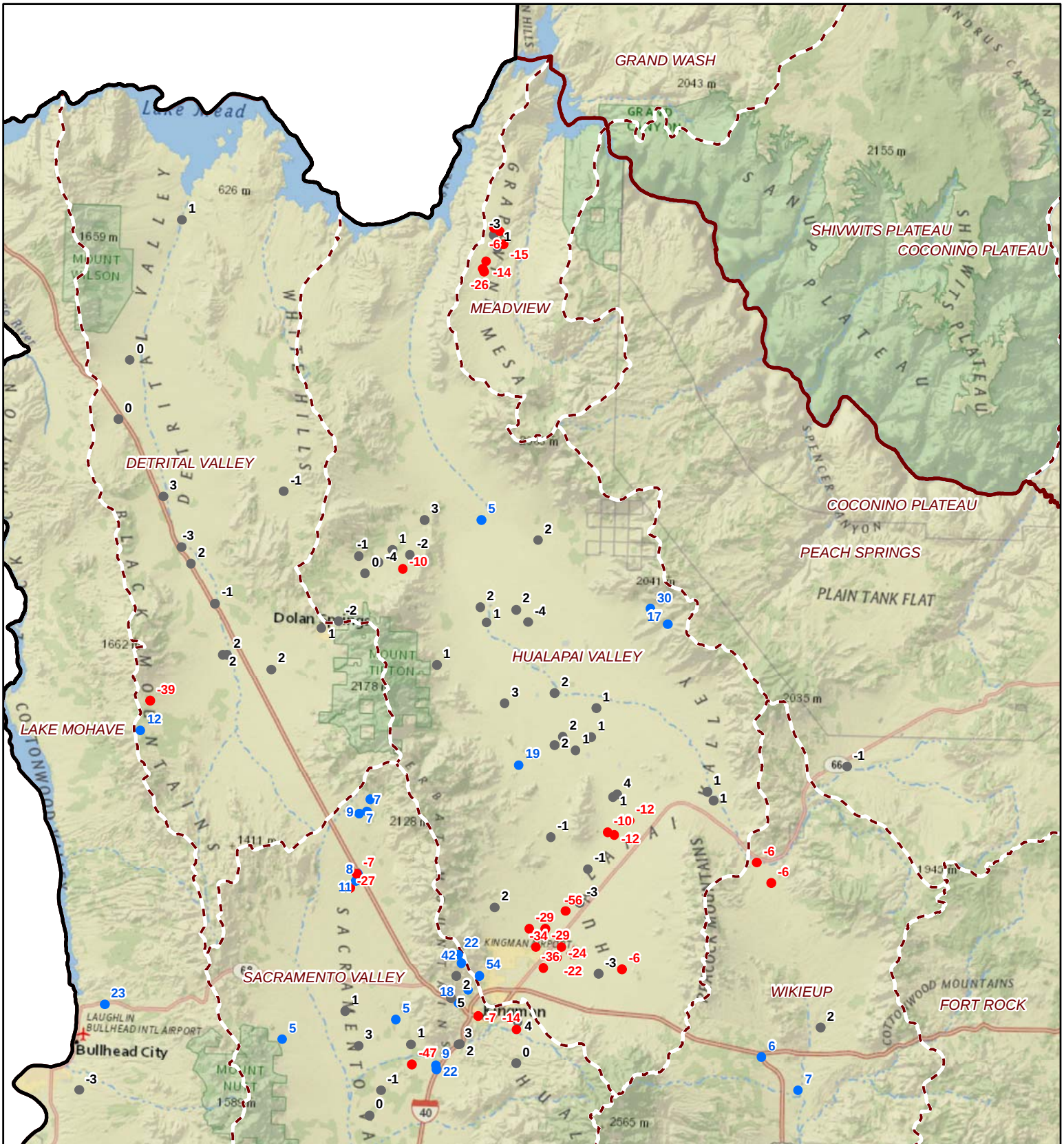
Basemap: National Geographic ESRI Basemap




## Legend

- Minor WL Change +5' to -5'
- Negative
- Positive
- AMAs and Planning Areas
- Sub-basin
- State Boundary

# Water Level Change Map
# Late 1980s Early/Mid 1990s to Mid/Late 2000s
# HUALAPAI VALLEY

0 3.5 7 10.5 14 17.5 Miles

N

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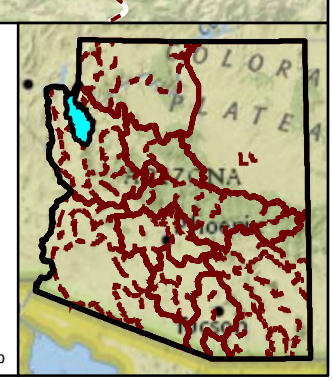
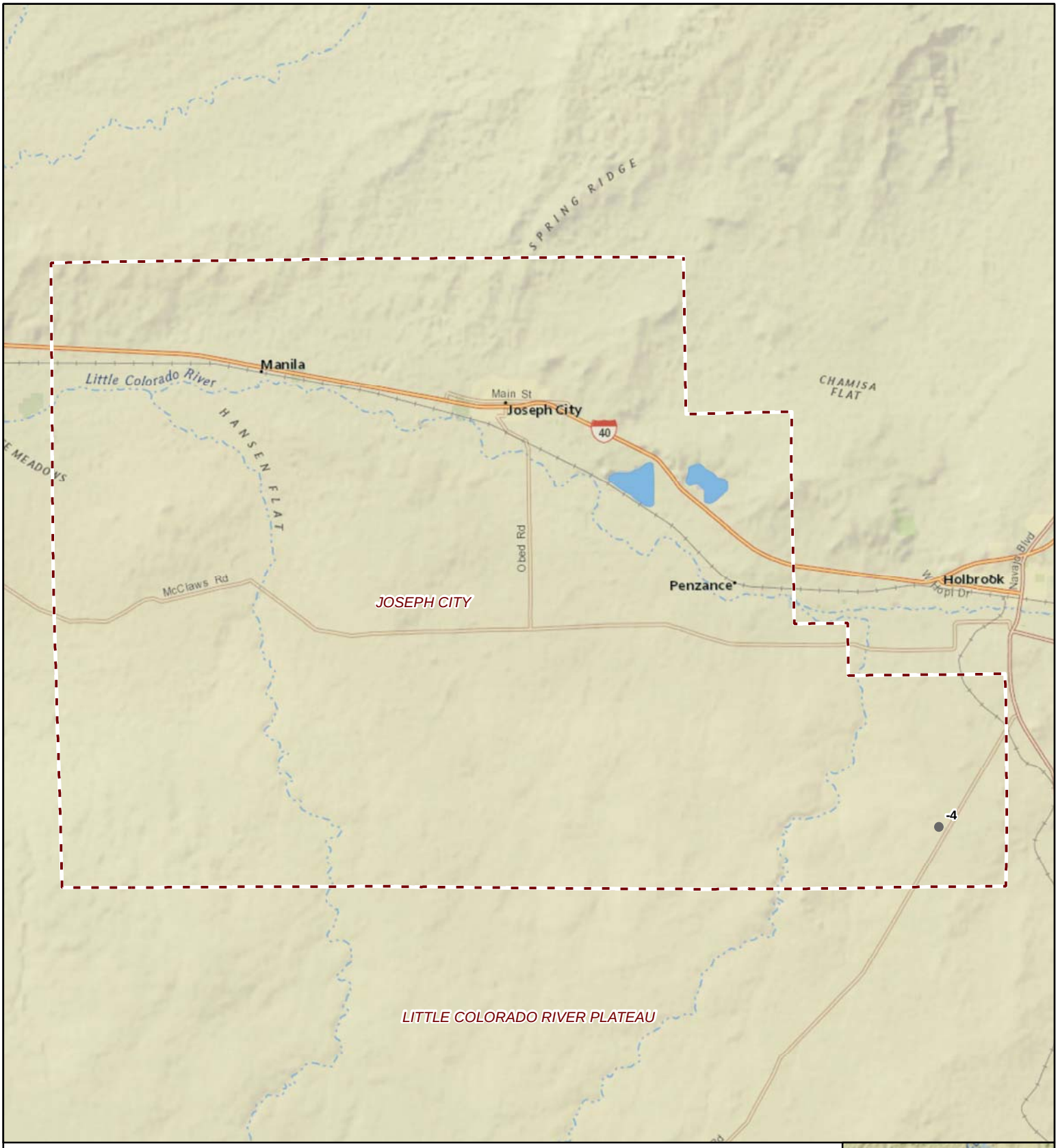
Basemap: National Geographic ESRI Basemap






## Legend

- Minor WL Change +5' to -5'
- Negative
- Positive
- AMAs and Planning Areas
- Sub-basin
- State Boundary

# Water Level Change Map
# Late 1980s Early/Mid 1990s to Mid/Late 2000s
# JOSEPH CITY

0 1 2 3 4 5 Miles

N

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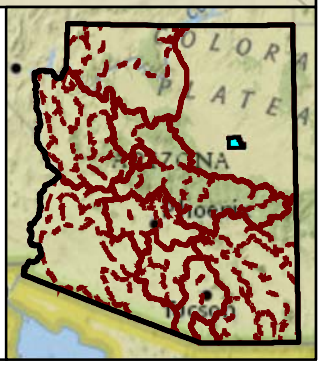
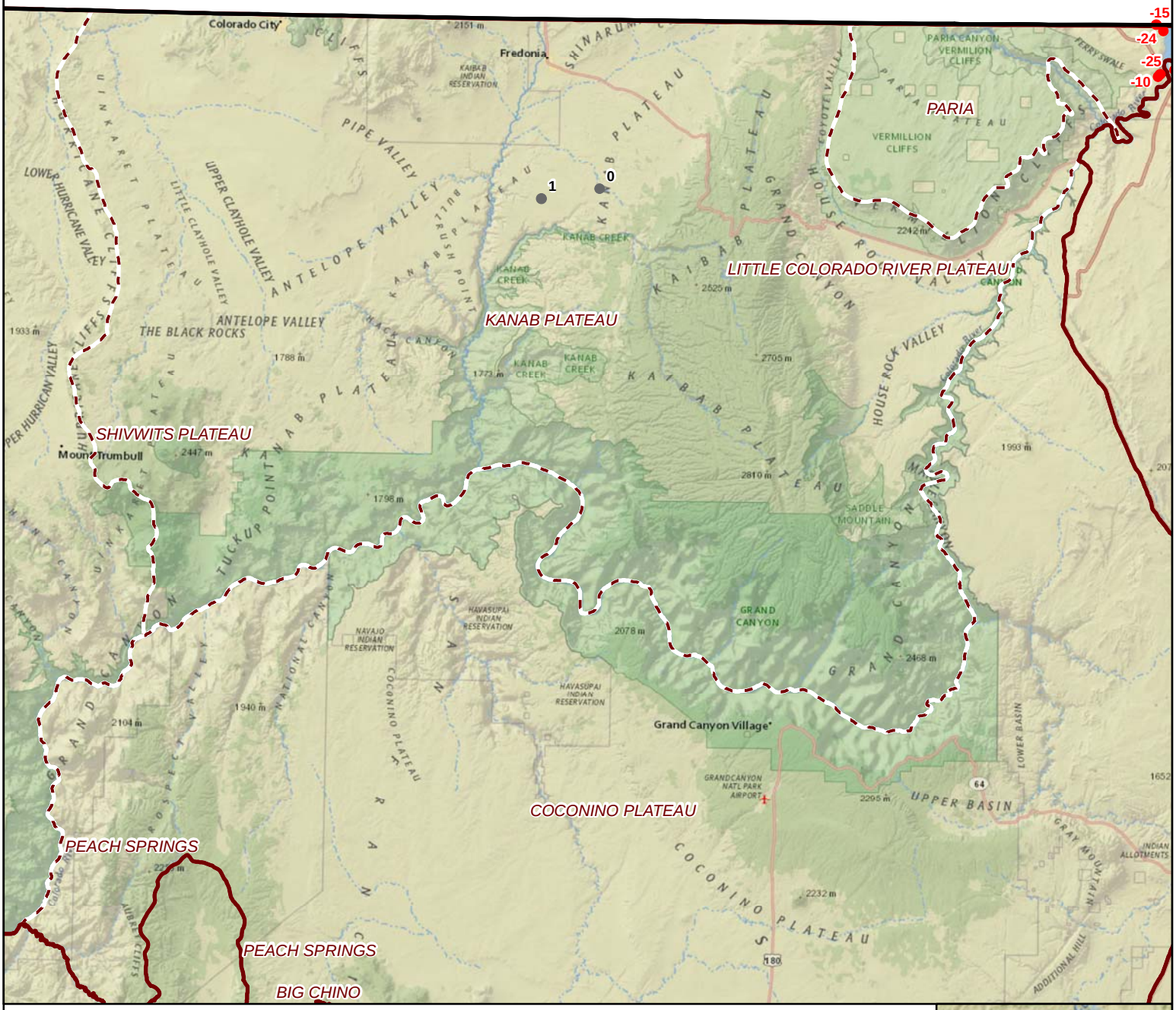
Basemap: National Geographic ESRI Basemap






## Legend

- Minor WL Change +5' to -5'
- Negative
- Positive
- AMAs and Planning Areas
- Sub-basin
- State Boundary

# Water Level Change Map
# Late 1980s Early/Mid 1990s to Mid/Late 2000s
# KANAB PLATEAU

0 5.5 11 16.5 22 27.5 Miles

N

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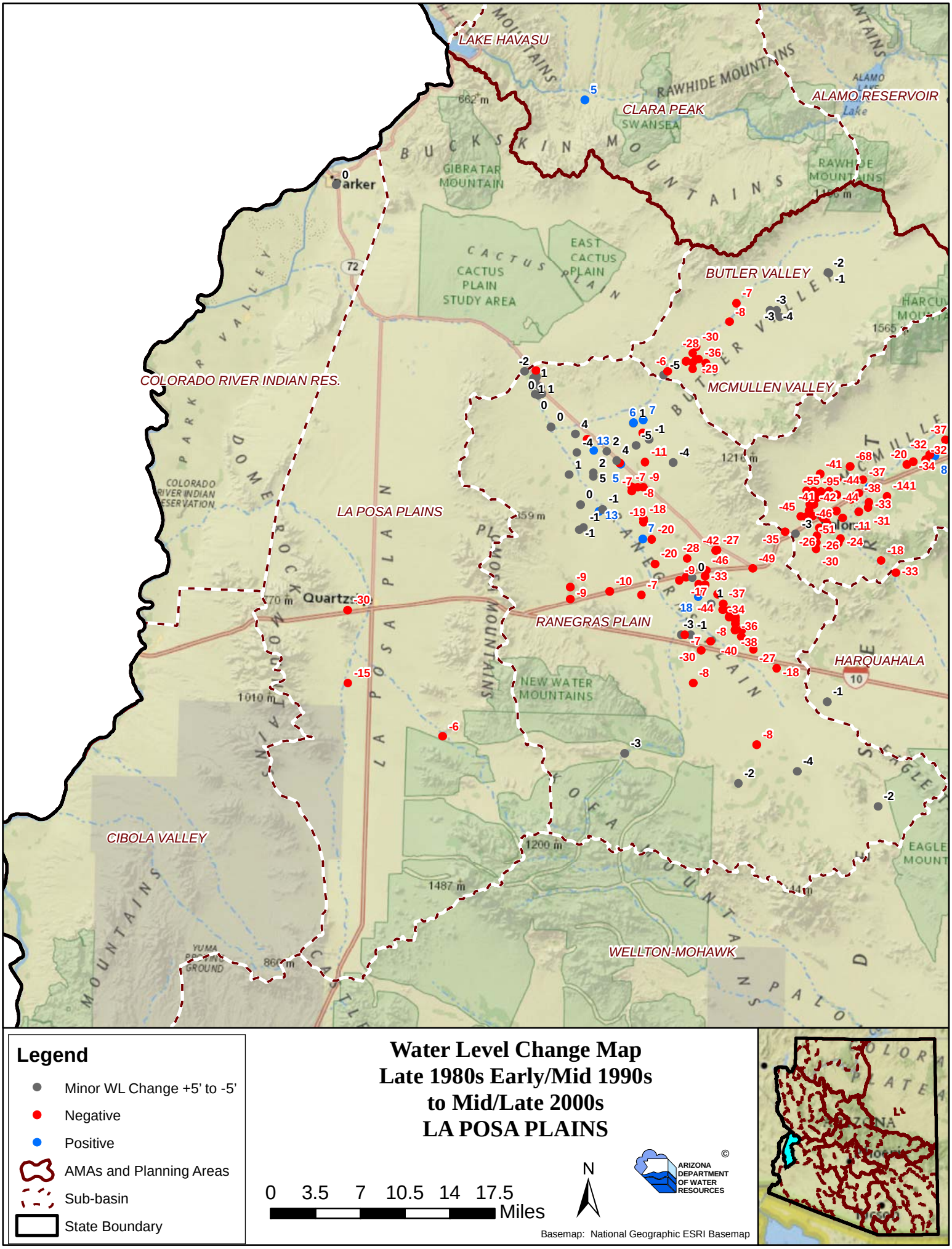
Basemap: National Geographic ESRI Basemap




## Legend

- Minor WL Change +5' to -5'
- Negative
- Positive
- AMAs and Planning Areas
- Sub-basin
- State Boundary

# Water Level Change Map
# Late 1980s Early/Mid 1990s to Mid/Late 2000s
# LA POSA PLAINS

0 3.5 7 10.5 14 17.5 Miles

N

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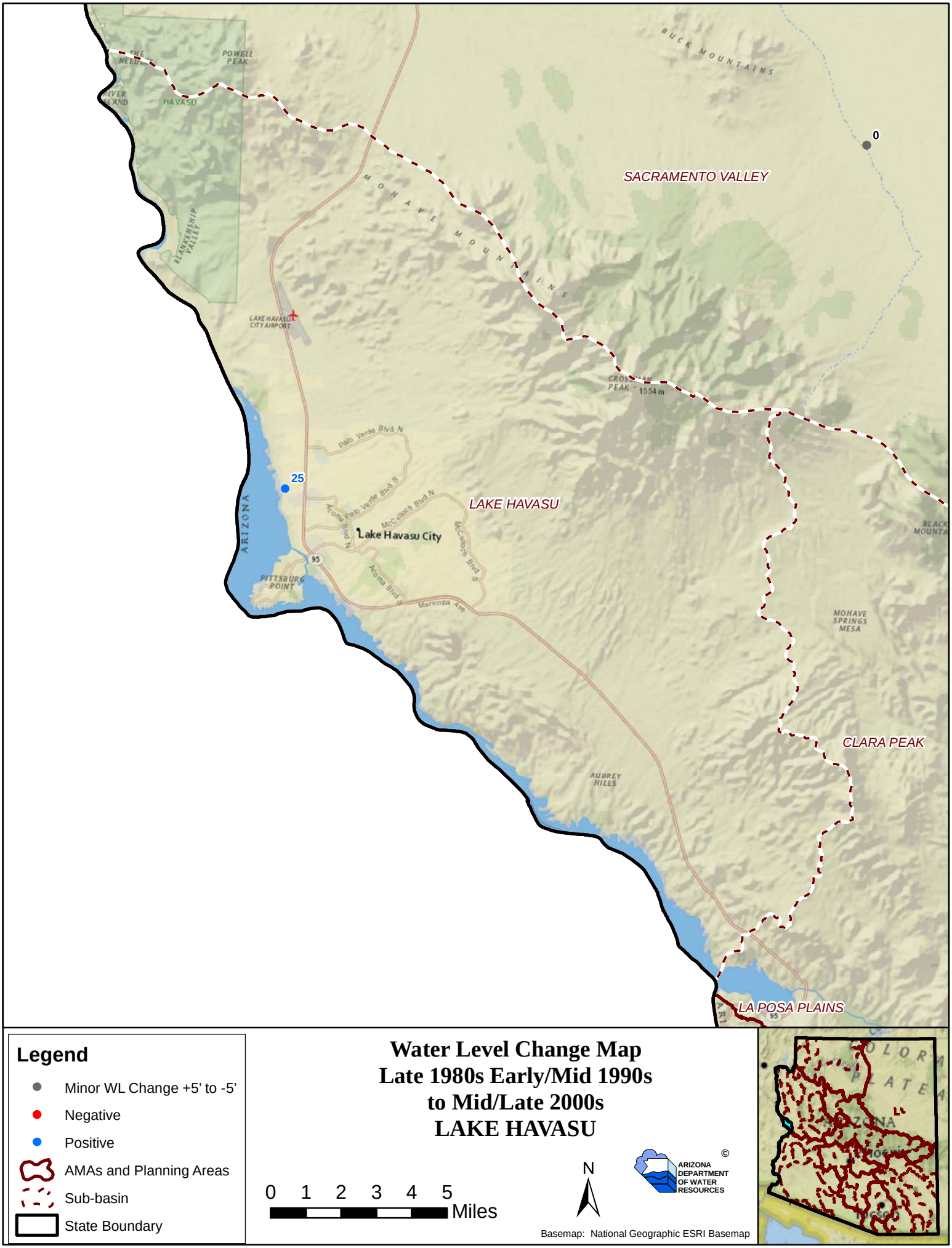
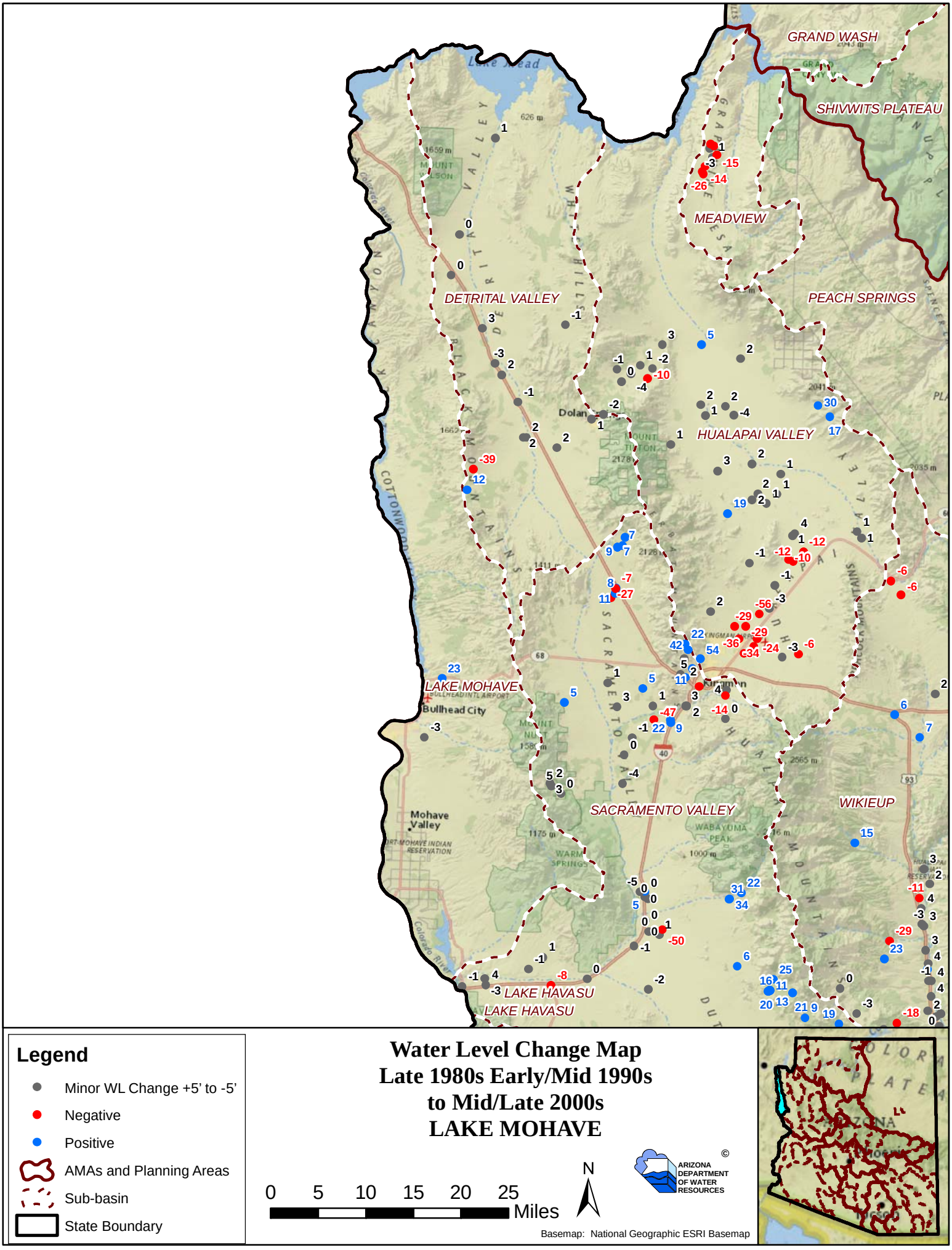
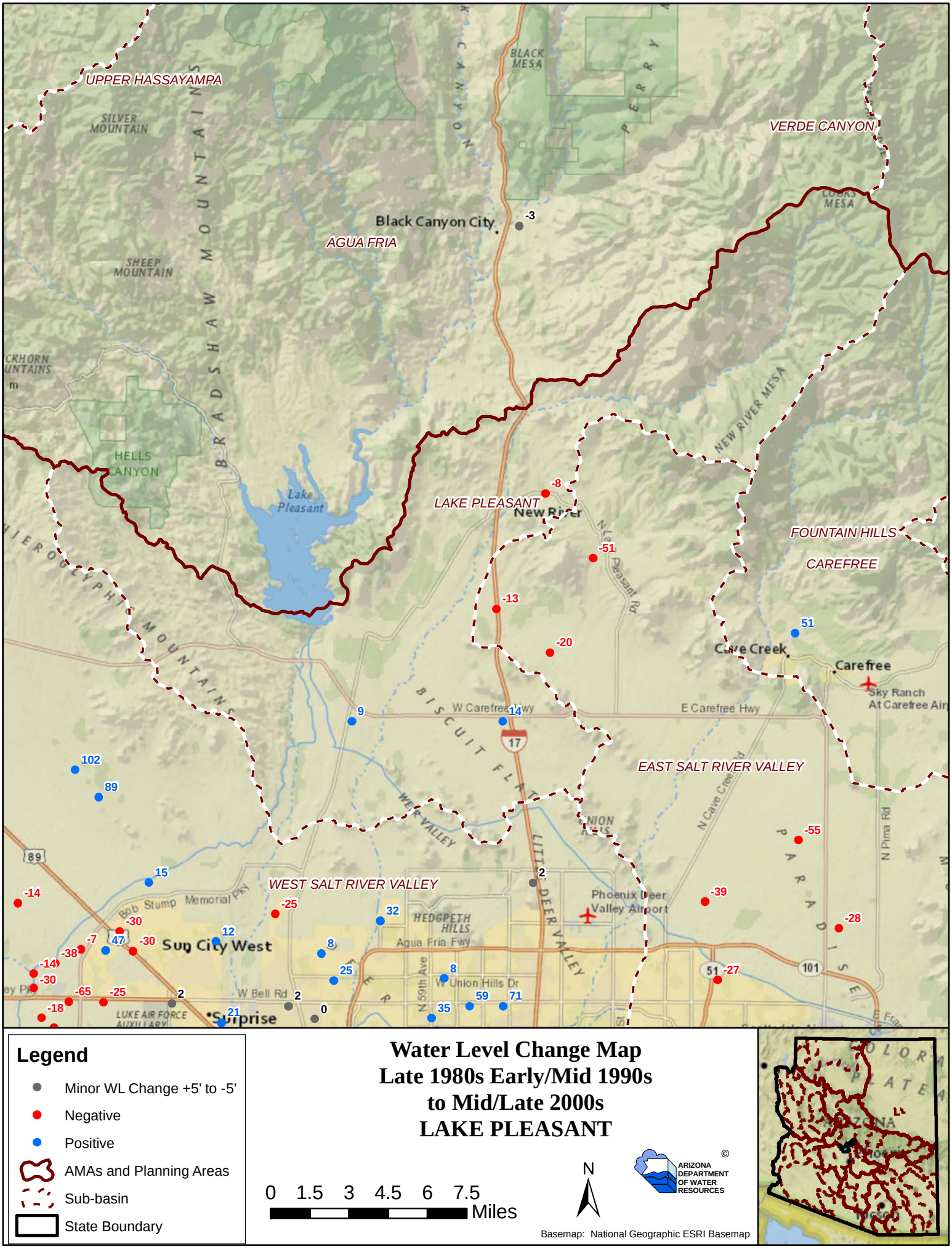
Basemap: National Geographic ESRI Basemap




**Water Level Change Map**
**Late 1980s Early/Mid 1990s**
**to Mid/Late 2000s**
**LAKE HAVASU**


GRAND WASH
SHIVWITS PLATEAU
MEADVIEW
DETRITAL VALLEY
PEACH SPRINGS
HUALAPAI VALLEY
LAKE MOHAVE
Bullhead City
SACRAMENTO VALLEY
WIKIEUP
Mohave Valley
LAKE HAVASU
LAKE HAVASU
Legend
Minor WL Change +5' to -5'
Negative
Positive
AMAs and Planning Areas
Sub-basin
State Boundary
Water Level Change Map
Late 1980s Early/Mid 1990s
to Mid/Late 2000s
LAKE MOHAVE
0 5 10 15 20 25
Miles
N
ARIZONA DEPARTMENT OF WATER RESOURCES
©
Basemap: National Geographic ESRI Basemap




## Legend

- Minor WL Change +5' to -5'
- Negative
- Positive
- AMAs and Planning Areas
- Sub-basin
- State Boundary

# Water Level Change Map
# Late 1980s Early/Mid 1990s to Mid/Late 2000s
# LAKE PLEASANT

0 1.5 3 4.5 6 7.5 Miles

N

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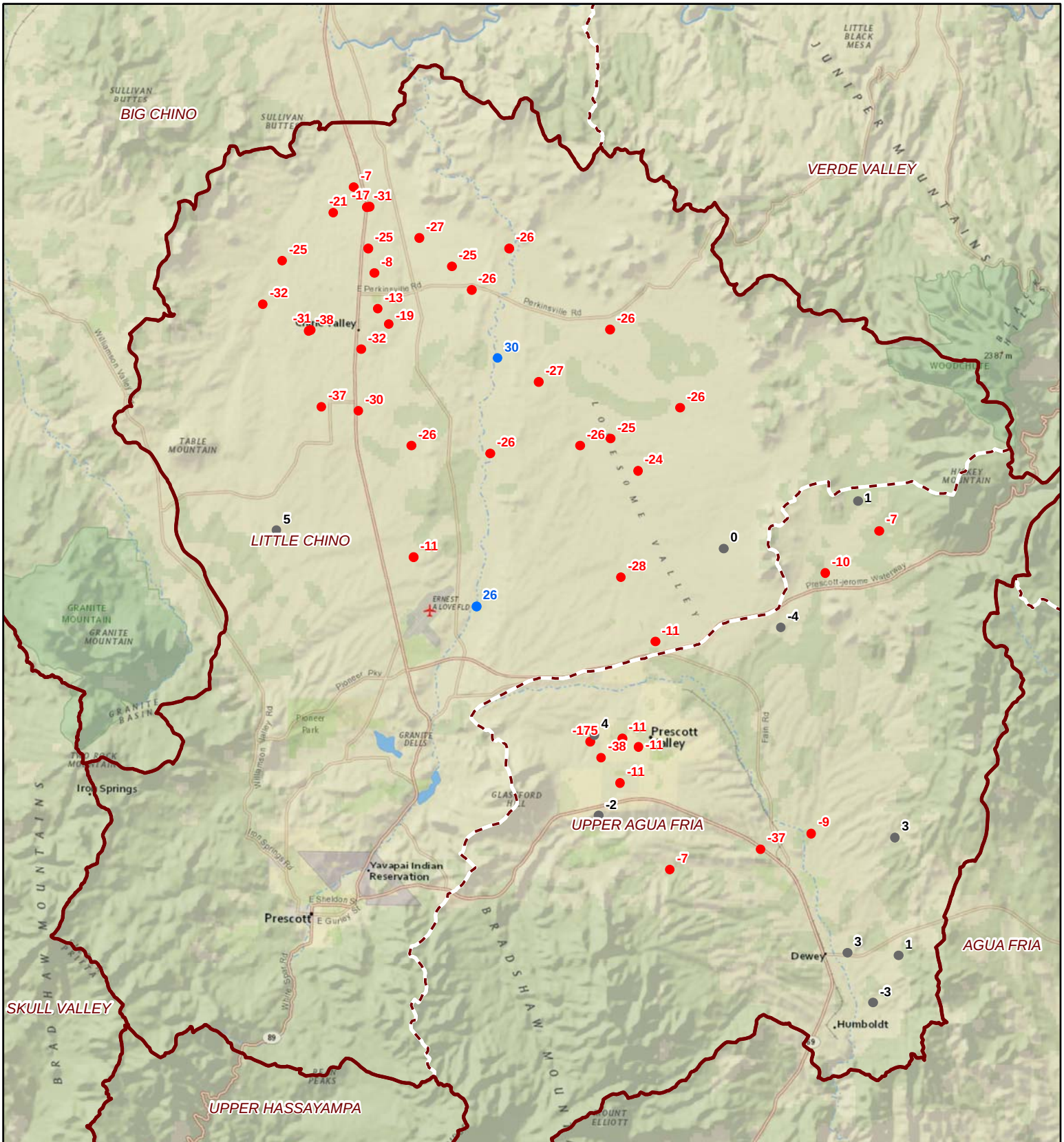
Basemap: National Geographic ESRI Basemap




## Legend

- Minor WL Change +5' to -5'
- Negative
- Positive
- AMAs and Planning Areas
- Sub-basin
- State Boundary

# Water Level Change Map
# Late 1980s Early/Mid 1990s to Mid/Late 2000s
# LITTLE CHINO

0 1 2 3 4 5 Miles

N

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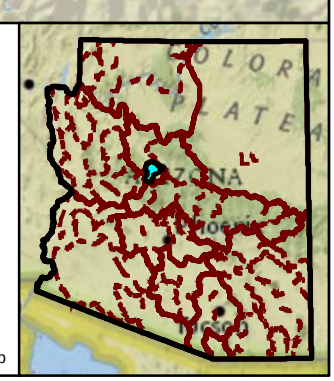
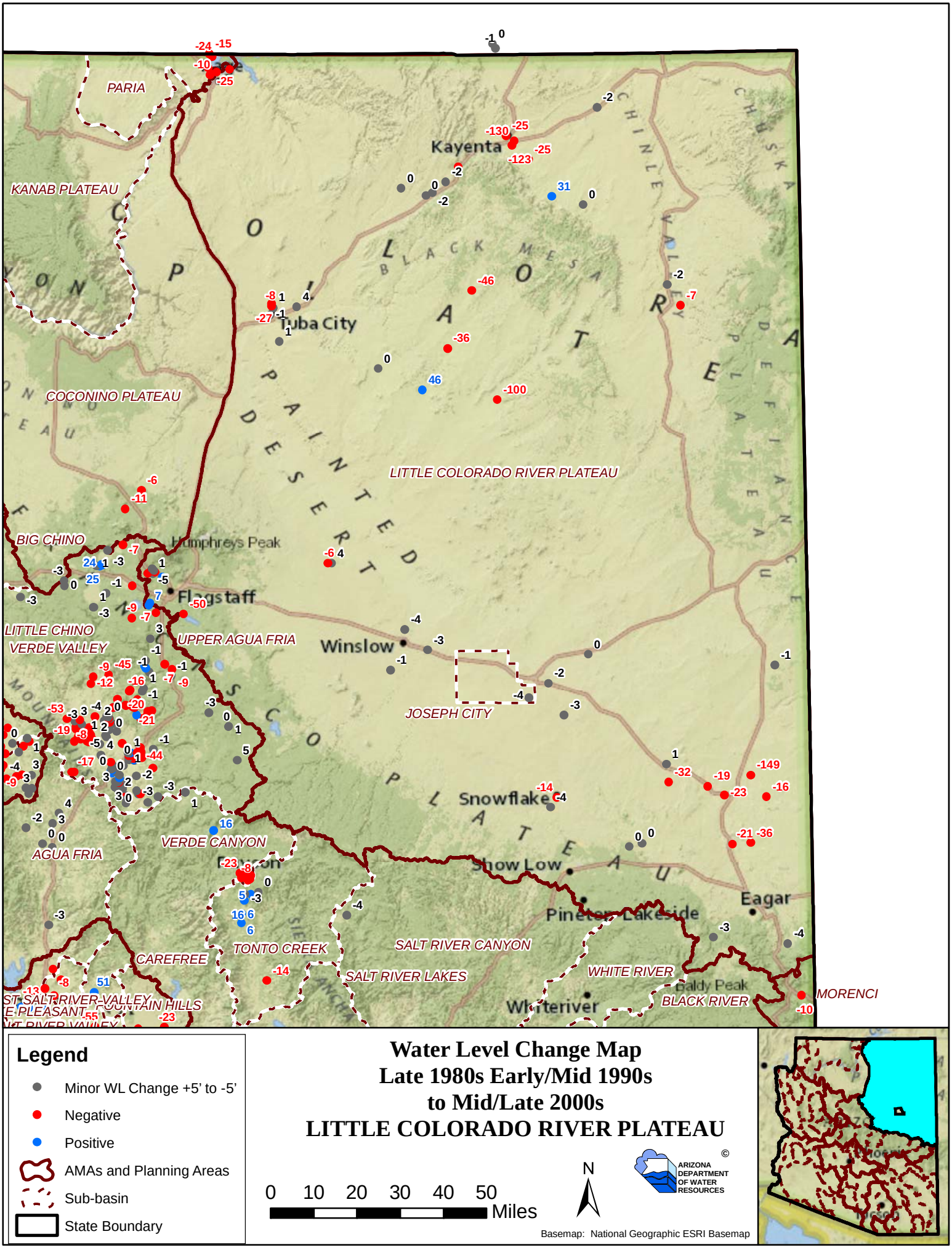
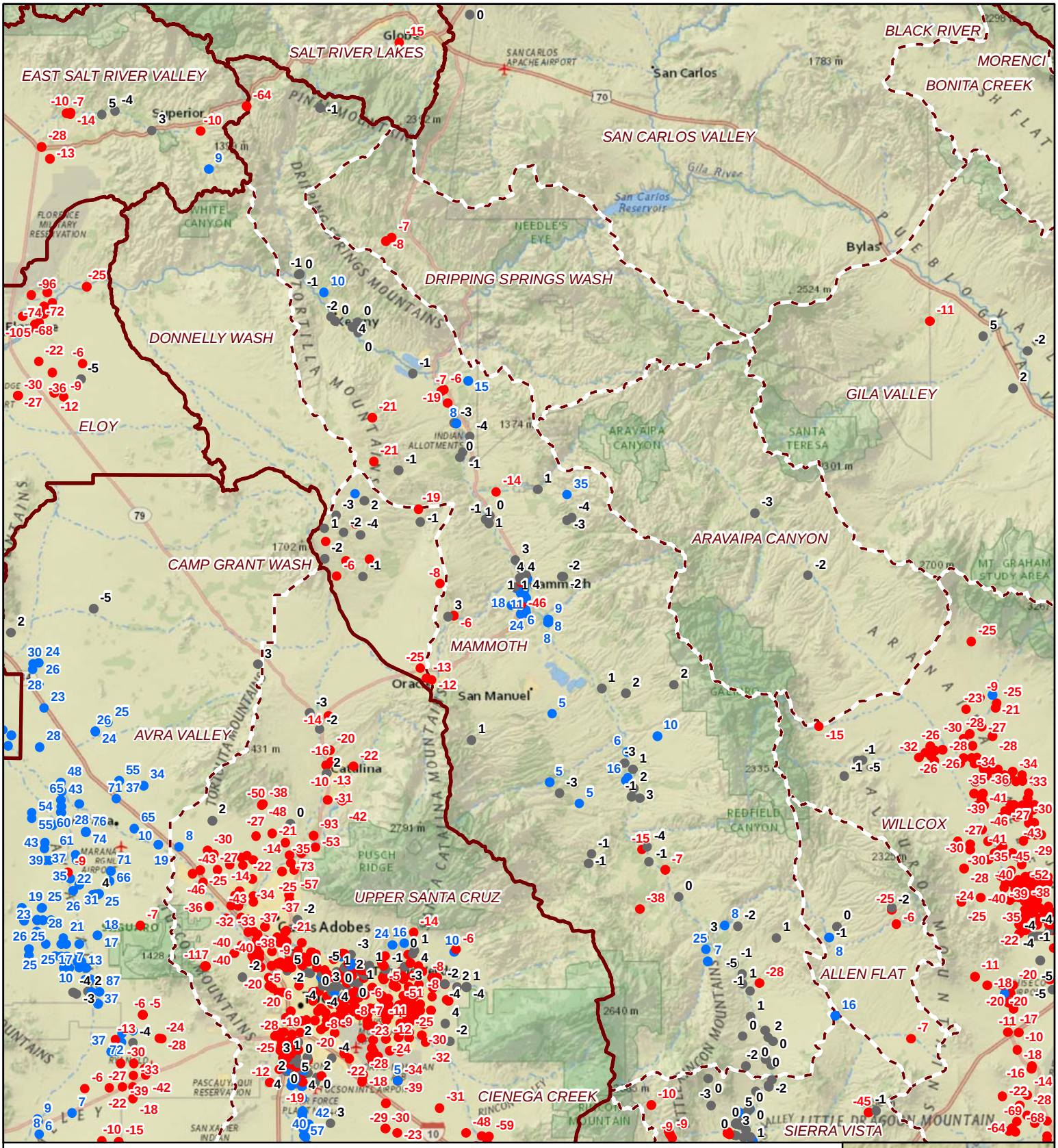
Basemap: National Geographic ESRI Basemap




PARIA
KANAB PLATEAU
COCONINO PLATEAU
Kayenta
Tuba City
Flagstaff
Humphreys Peak
Winslow
Snowflake
Show Low
Pinetop-Lakeside
Eagar
Whiteriver
Baldy Peak
JOSEPH CITY
LITTLE COLORADO RIVER PLATEAU
BIG CHINO
LITTLE CHINO
VERDE VALLEY
UPPER AGUA FRIA
AGUA FRIA
VERDE CANYON
TONTO CREEK
SALT RIVER CANYON
SALT RIVER LAKES
WHITE RIVER
BLACK RIVER
CAREFREE
MORENCI
Legend
Minor WL Change +5' to -5'
Negative
Positive
AMAs and Planning Areas
Sub-basin
State Boundary
Water Level Change Map
Late 1980s Early/Mid 1990s
to Mid/Late 2000s
LITTLE COLORADO RIVER PLATEAU
0 10 20 30 40 50
Miles
N
ARIZONA DEPARTMENT OF WATER RESOURCES
Basemap: National Geographic ESRI Basemap




## Legend

- Minor WL Change +5' to -5'
- Negative
- Positive
- AMAs and Planning Areas
- Sub-basin
- State Boundary

# Water Level Change Map
# Late 1980s Early/Mid 1990s to Mid/Late 2000s
# MAMMOTH

0 4 8 12 16 20 Miles

N

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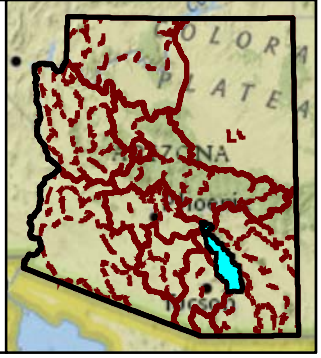
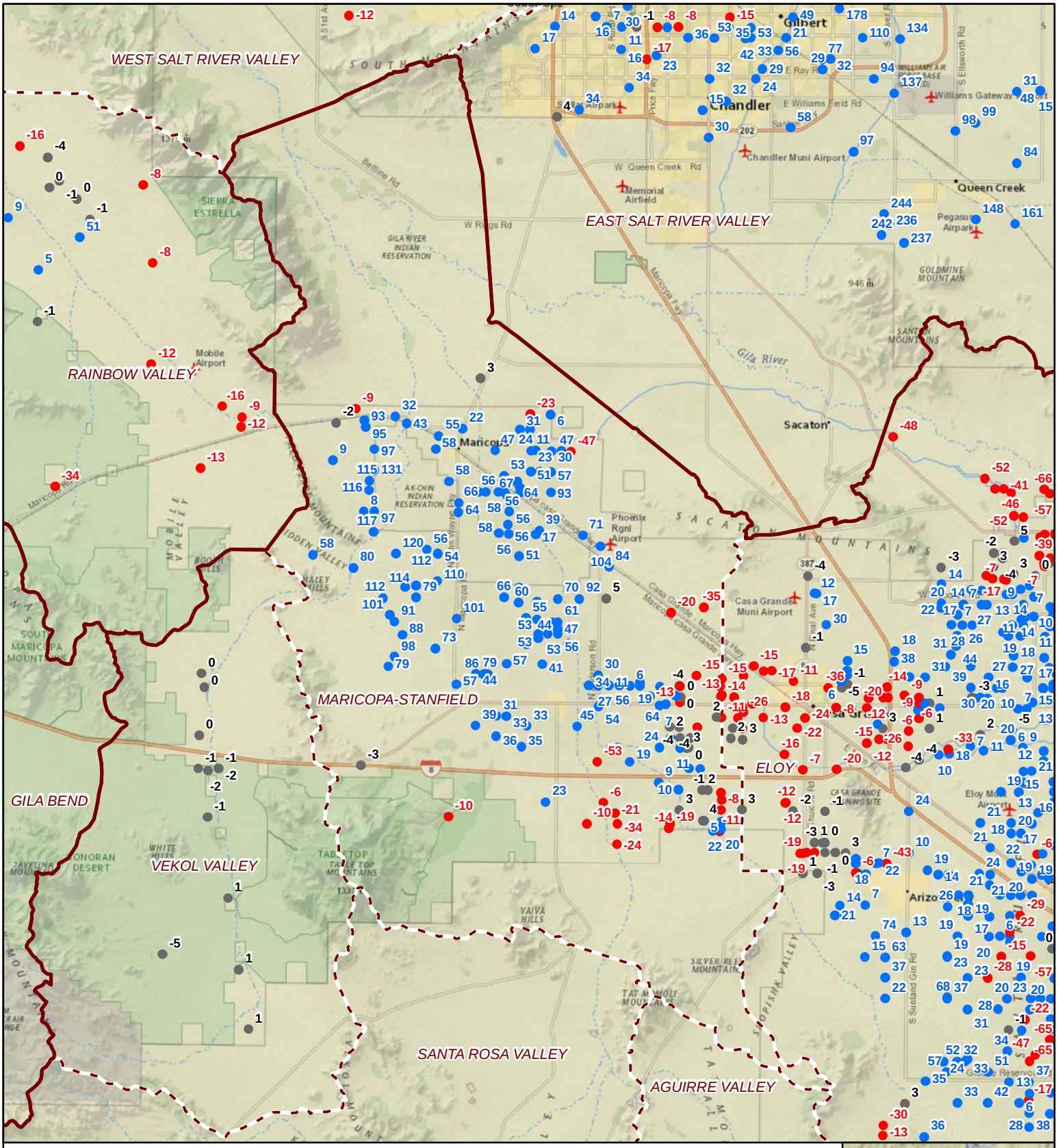
Basemap: National Geographic ESRI Basemap






## Legend

- Minor WL Change +5' to -5'
- Negative
- Positive
- AMAs and Planning Areas
- Sub-basin
- State Boundary

# Water Level Change Map
# Late 1980s Early/Mid 1990s to Mid/Late 2000s
# MARICOPA-STANFIELD

0 2.5 5 7.5 10 12.5 Miles

N

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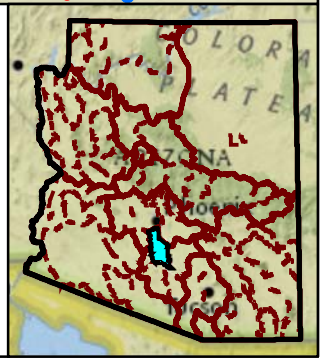
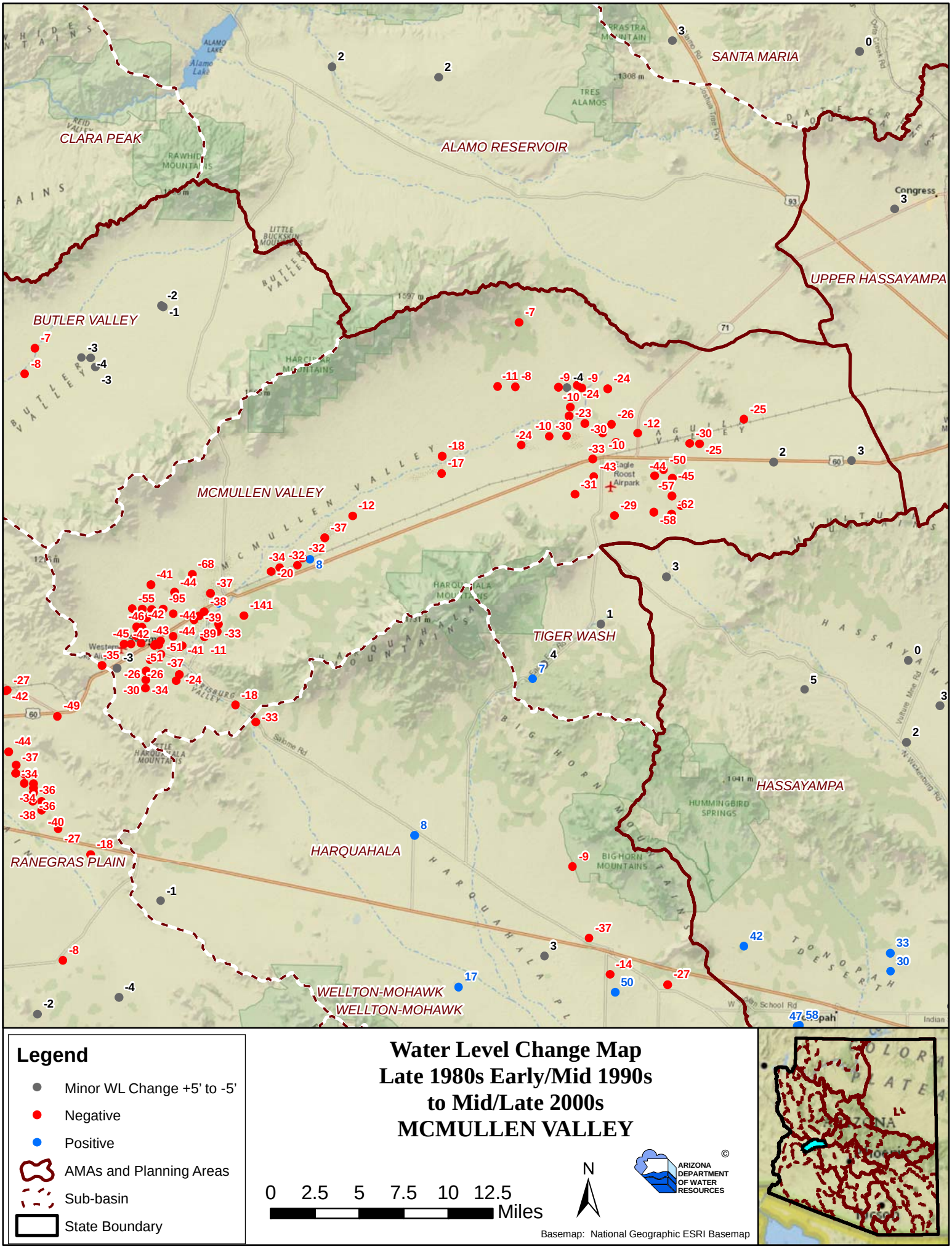
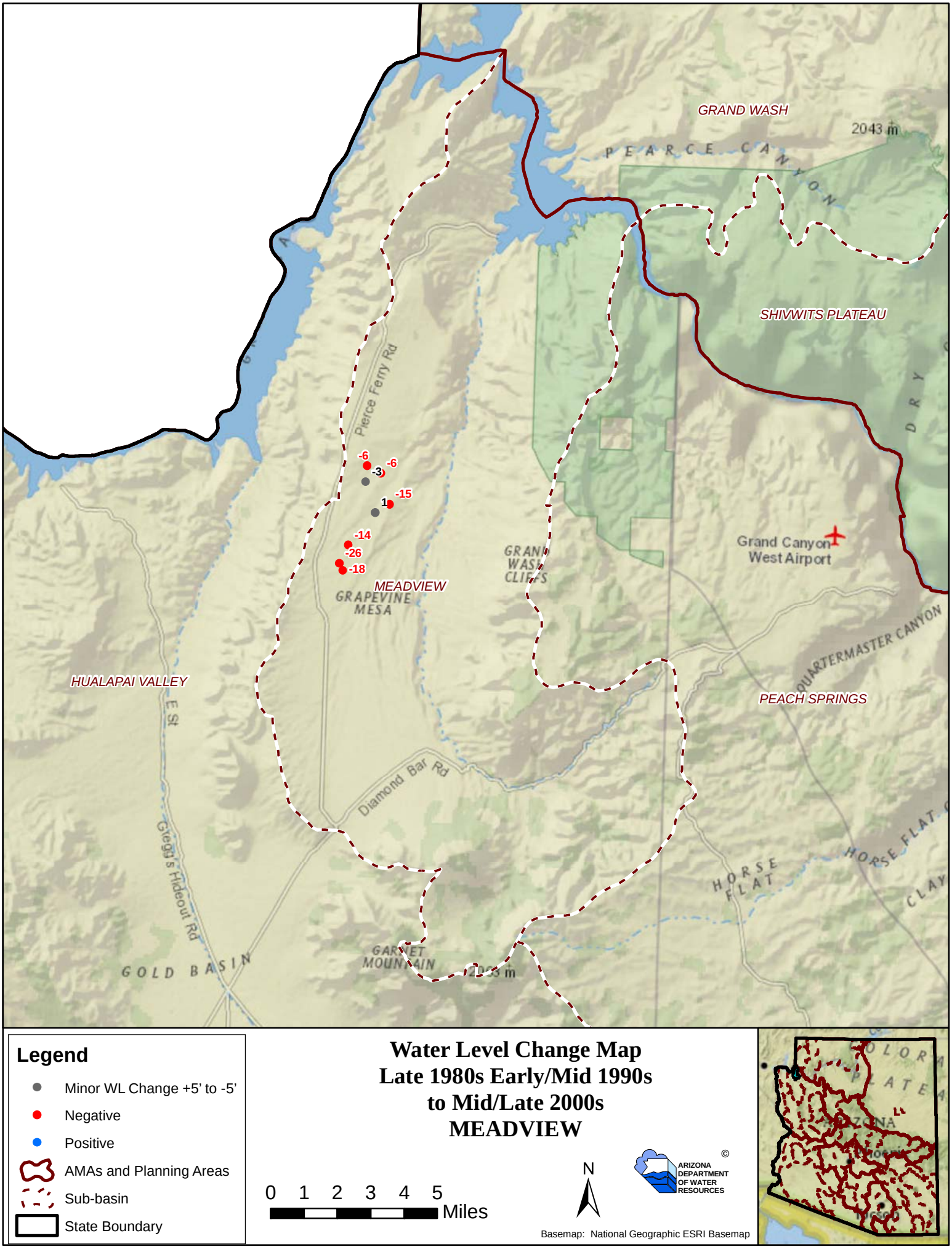
Basemap: National Geographic ESRI Basemap




SANTA MARIA
CLARA PEAK
ALAMO RESERVOIR
UPPER HASSAYAMPA
BUTLER VALLEY
MCMULLEN VALLEY
TIGER WASH
HASSAYAMPA
HARQUAHALA
RANEGRAS PLAIN
WELLTON-MOHAWK
WELLTON-MOHAWK
Congress
Legend
Minor WL Change +5' to -5'
Negative
Positive
AMAs and Planning Areas
Sub-basin
State Boundary
Water Level Change Map
Late 1980s Early/Mid 1990s
to Mid/Late 2000s
MCMULLEN VALLEY
0 2.5 5 7.5 10 12.5
Miles
N
ARIZONA DEPARTMENT OF WATER RESOURCES
Basemap: National Geographic ESRI Basemap


GRAND WASH
2043 m
PEARCE CANYON
SHIVWITS PLATEAU
Pierce Ferry Rd
-6
-6
-3
1
-15
-14
-26
-18
MEADVIEW
GRAPEVINE MESA
GRAND WASH CLIFFS
Grand Canyon West Airport
QUARTERMASTER CANYON
HUALAPAI VALLEY
PEACH SPRINGS
Diamond Bar Rd
Gregg's Hideout Rd
HORSE FLAT
GOLD BASIN
GARNET MOUNTAIN
Legend
Minor WL Change +5' to -5'
Negative
Positive
AMAs and Planning Areas
Sub-basin
State Boundary
Water Level Change Map
Late 1980s Early/Mid 1990s
to Mid/Late 2000s
MEADVIEW
0 1 2 3 4 5
Miles
N
ARIZONA DEPARTMENT OF WATER RESOURCES
©
Basemap: National Geographic ESRI Basemap

## Legend

- Minor WL Change +5' to -5'
- Negative
- Positive
- AMAs and Planning Areas
- Sub-basin
- State Boundary

# Water Level Change Map
# Late 1980s Early/Mid 1990s to Mid/Late 2000s
# MORENCI

0 3.5 7 10.5 14 17.5 Miles

N

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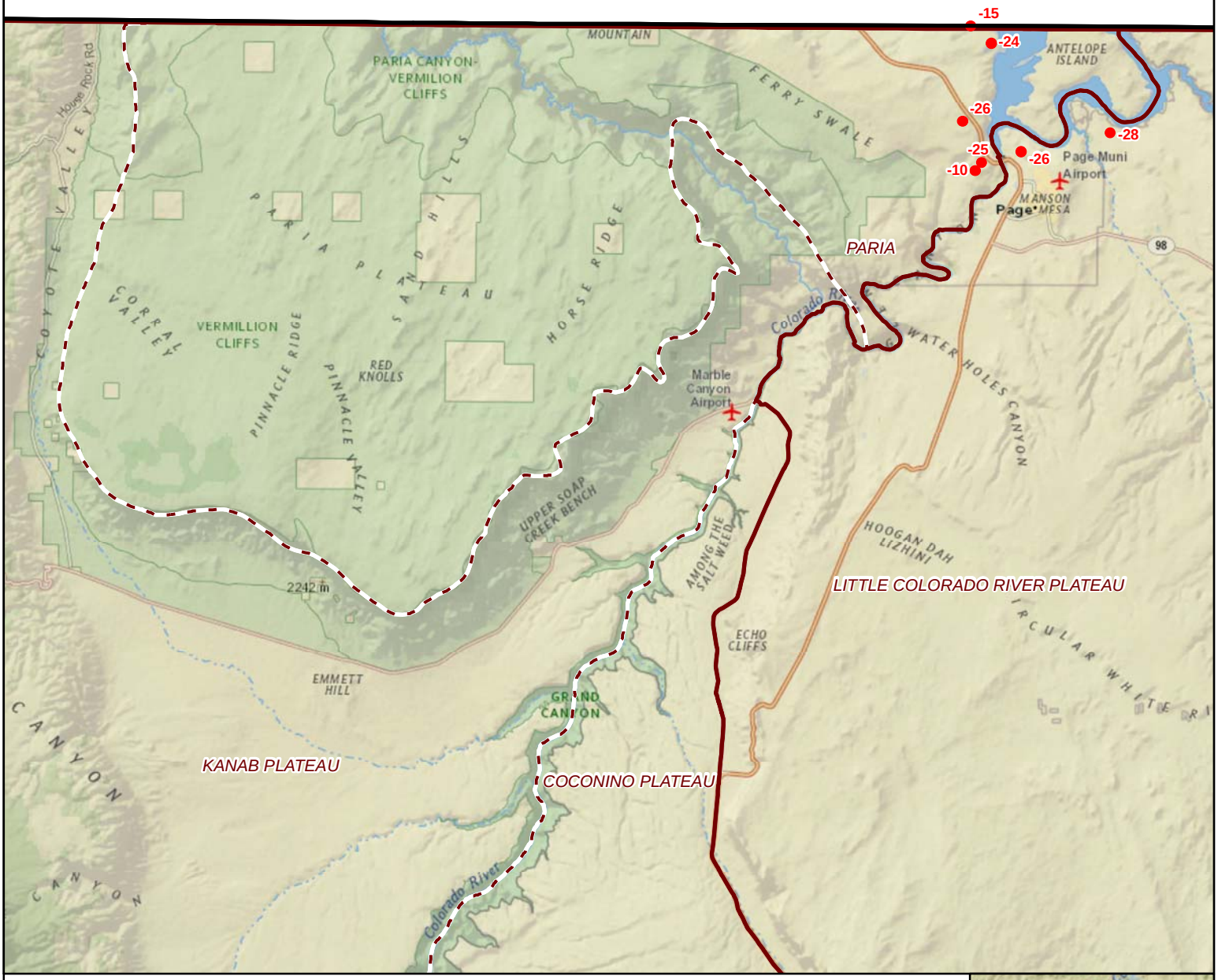
Basemap: National Geographic ESRI Basemap




## Legend

- Minor WL Change +5' to -5'
- Negative
- Positive
- AMAs and Planning Areas
- Sub-basin
- State Boundary

# Water Level Change Map
# Late 1980s Early/Mid 1990s to Mid/Late 2000s
# PARIA

0 2 4 6 8 10 Miles

N

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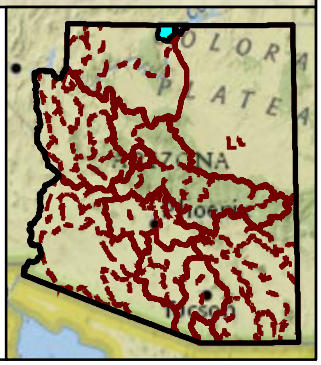
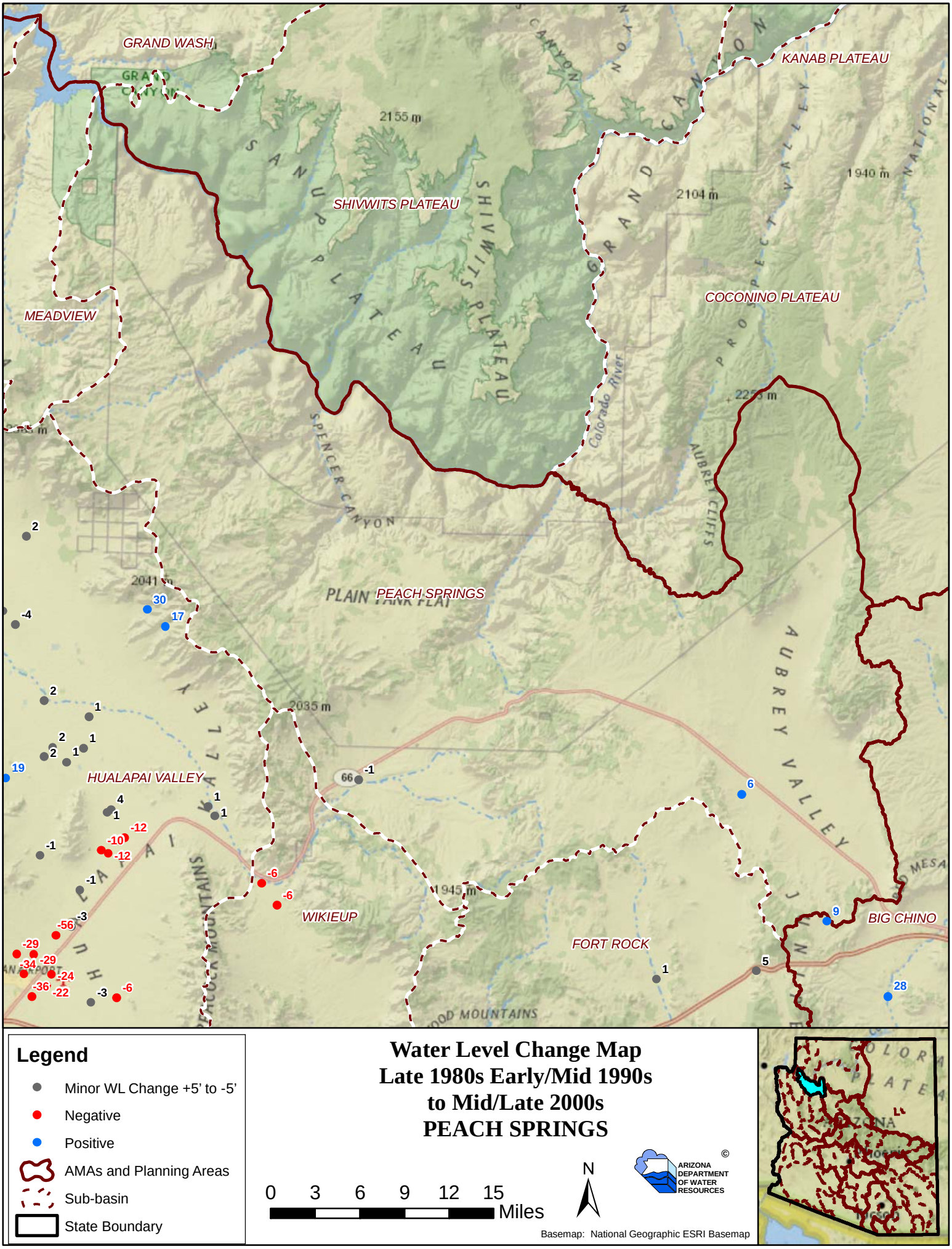
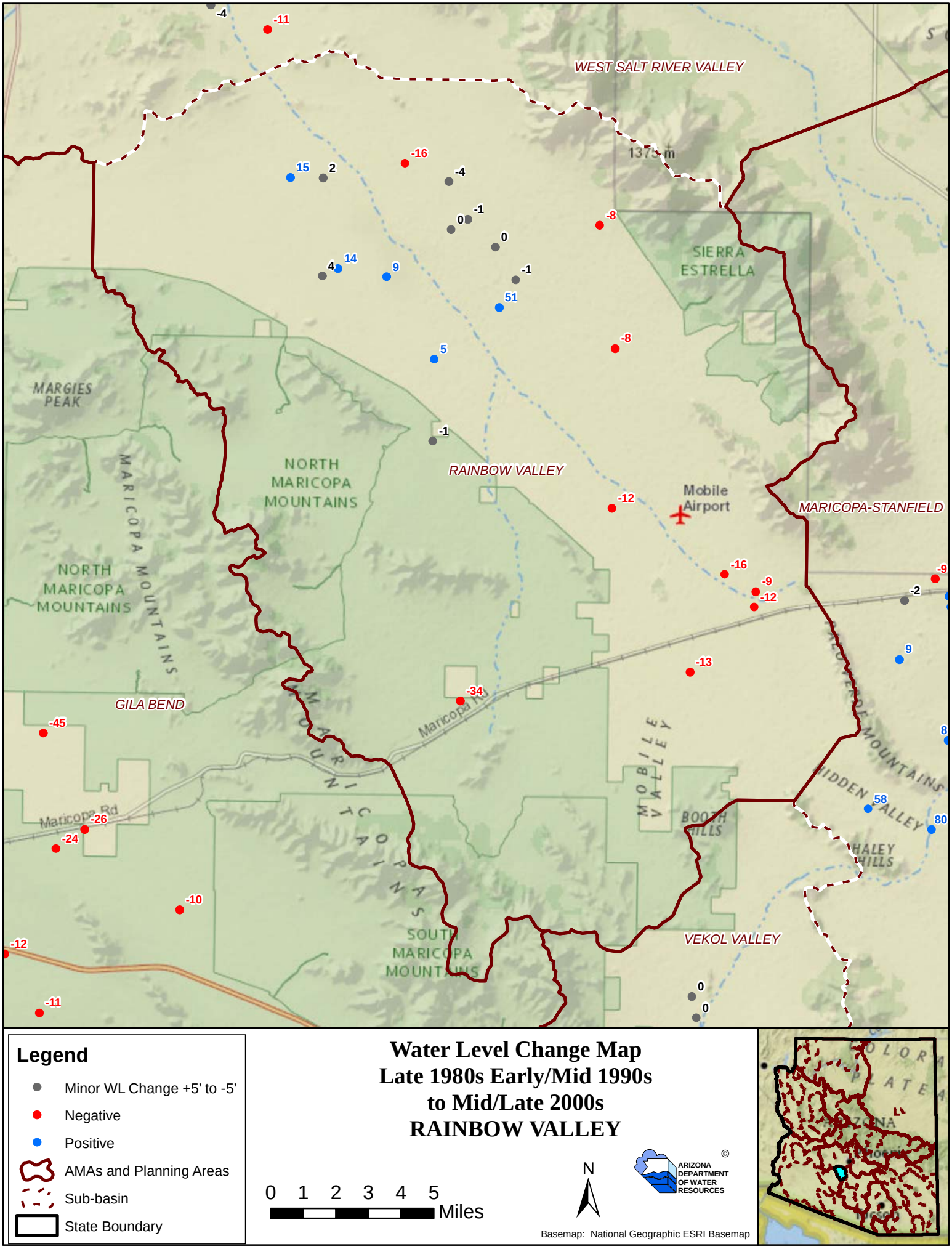
Basemap: National Geographic ESRI Basemap




GRAND WASH
KANAB PLATEAU
SHIVWITS PLATEAU
COCONINO PLATEAU
MEADVIEW
PEACH SPRINGS
HUALAPAI VALLEY
WIKIEUP
FORT ROCK
BIG CHINO
Colorado River
SPENCER CANYON
AUBREY CLIFFS
AUBREY VALLEY
PEACOCK MOUNTAINS
2155 m
2104 m
1940 m
2041 m
2035 m
1945 m
Legend
Minor WL Change +5' to -5'
Negative
Positive
AMAs and Planning Areas
Sub-basin
State Boundary
Water Level Change Map
Late 1980s Early/Mid 1990s
to Mid/Late 2000s
PEACH SPRINGS
0 3 6 9 12 15
Miles
N
ARIZONA DEPARTMENT OF WATER RESOURCES
Basemap: National Geographic ESRI Basemap




## Legend

- Minor WL Change +5' to -5'
- Negative
- Positive
- AMAs and Planning Areas
- Sub-basin
- State Boundary

# Water Level Change Map
# Late 1980s Early/Mid 1990s to Mid/Late 2000s
# RAINBOW VALLEY

0 1 2 3 4 5 Miles

N

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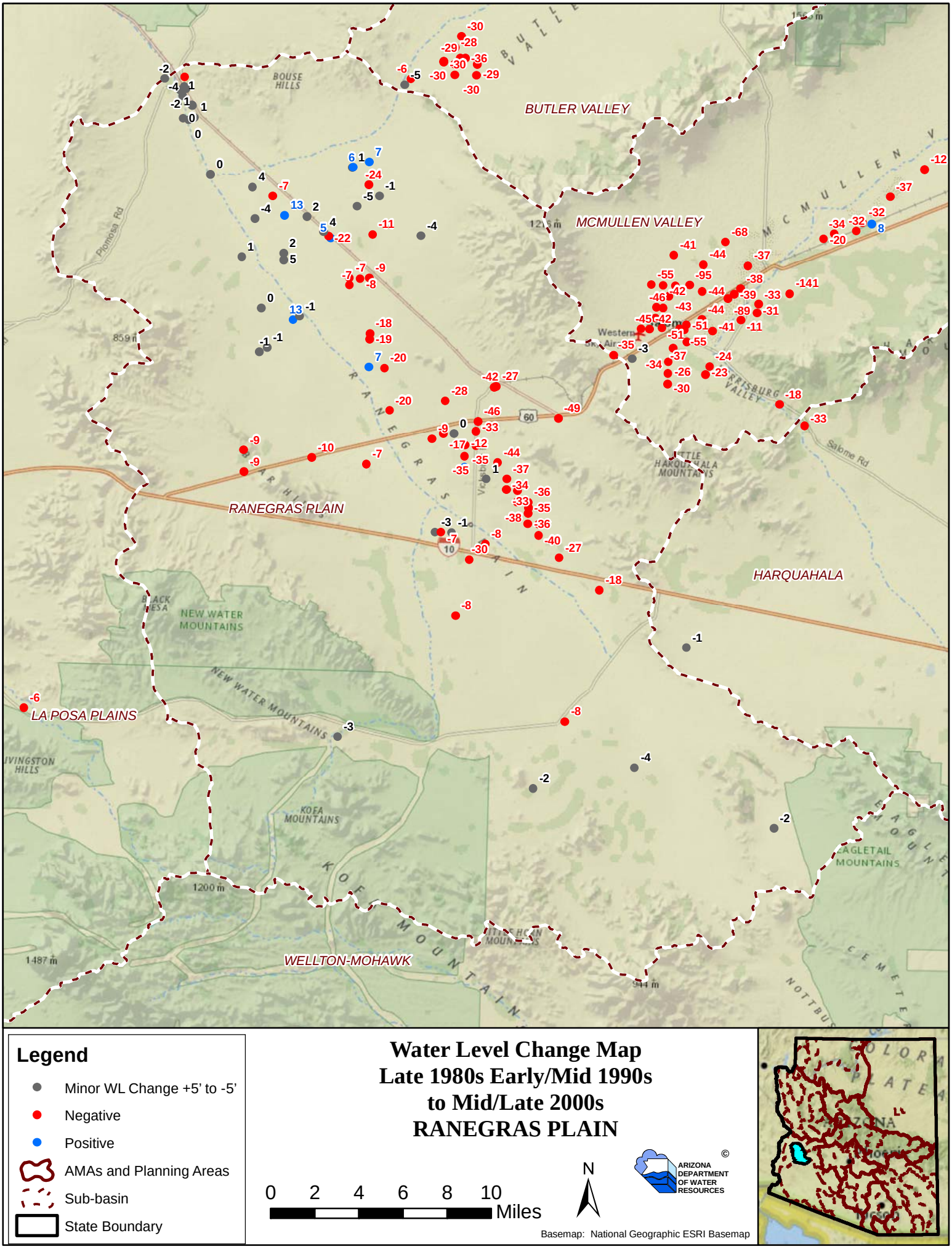
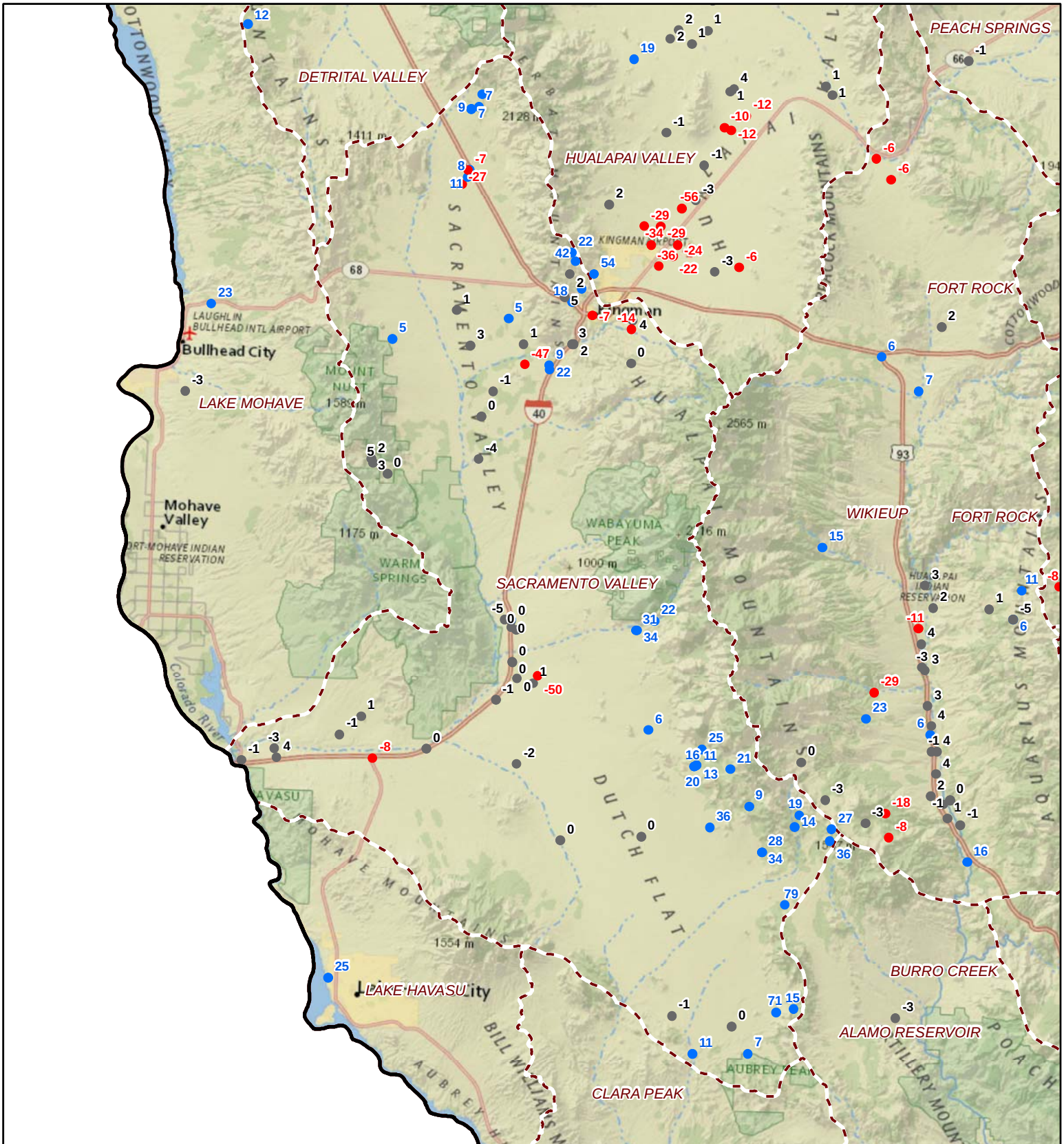
Basemap: National Geographic ESRI Basemap


BUTLER VALLEY
MCMULLEN VALLEY
RANEGRAS PLAIN
HARQUAHALA
LA POSA PLAINS
WELLTON-MOHAWK
BOUSE HILLS
NEW WATER MOUNTAINS
KOFA MOUNTAINS
EAGLETAIL MOUNTAINS
HARQUAHALA MOUNTAINS
Legend
Minor WL Change +5' to -5'
Negative
Positive
AMAs and Planning Areas
Sub-basin
State Boundary
Water Level Change Map
Late 1980s Early/Mid 1990s
to Mid/Late 2000s
RANEGRAS PLAIN
0 2 4 6 8 10
Miles
N
ARIZONA DEPARTMENT OF WATER RESOURCES
©
Basemap: National Geographic ESRI Basemap




## Legend

- Minor WL Change +5' to -5'
- Negative
- Positive
- AMAs and Planning Areas
- Sub-basin
- State Boundary

# Water Level Change Map
# Late 1980s Early/Mid 1990s to Mid/Late 2000s
# SACRAMENTO VALLEY

0 3.5 7 10.5 14 17.5 Miles

N

©

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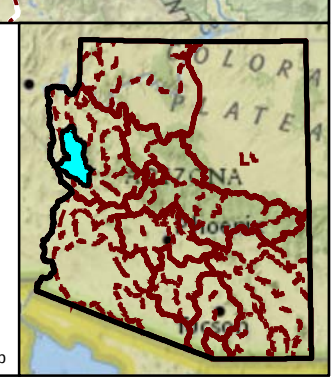
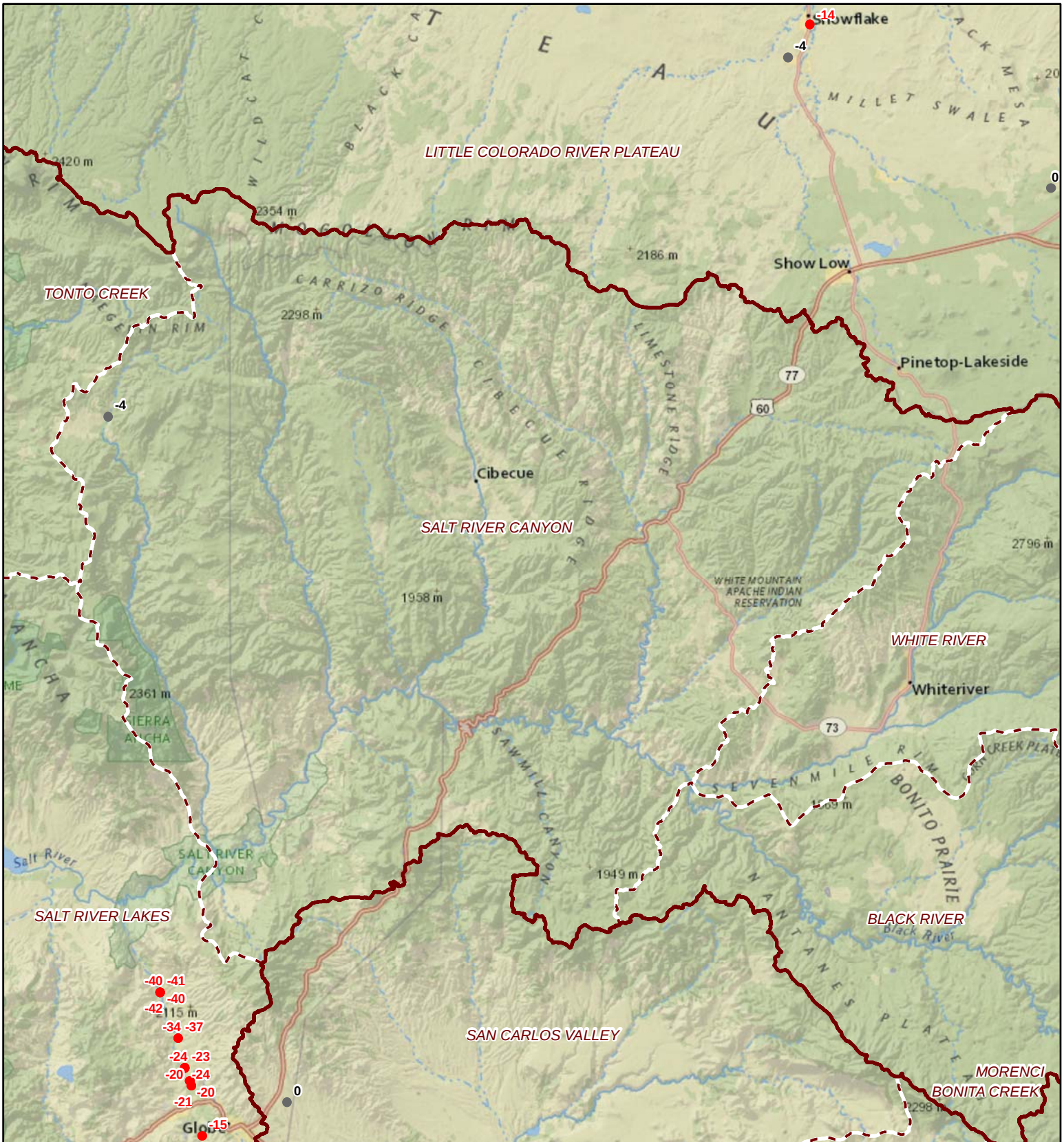
Basemap: National Geographic ESRI Basemap






## Legend

- Minor WL Change +5' to -5'
- Negative
- Positive
- AMAs and Planning Areas
- Sub-basin
- State Boundary

# Water Level Change Map
# Late 1980s Early/Mid 1990s to Mid/Late 2000s
# SALT RIVER CANYON

0 3.5 7 10.5 14 17.5 Miles

N

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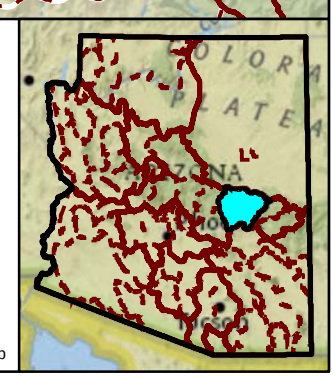
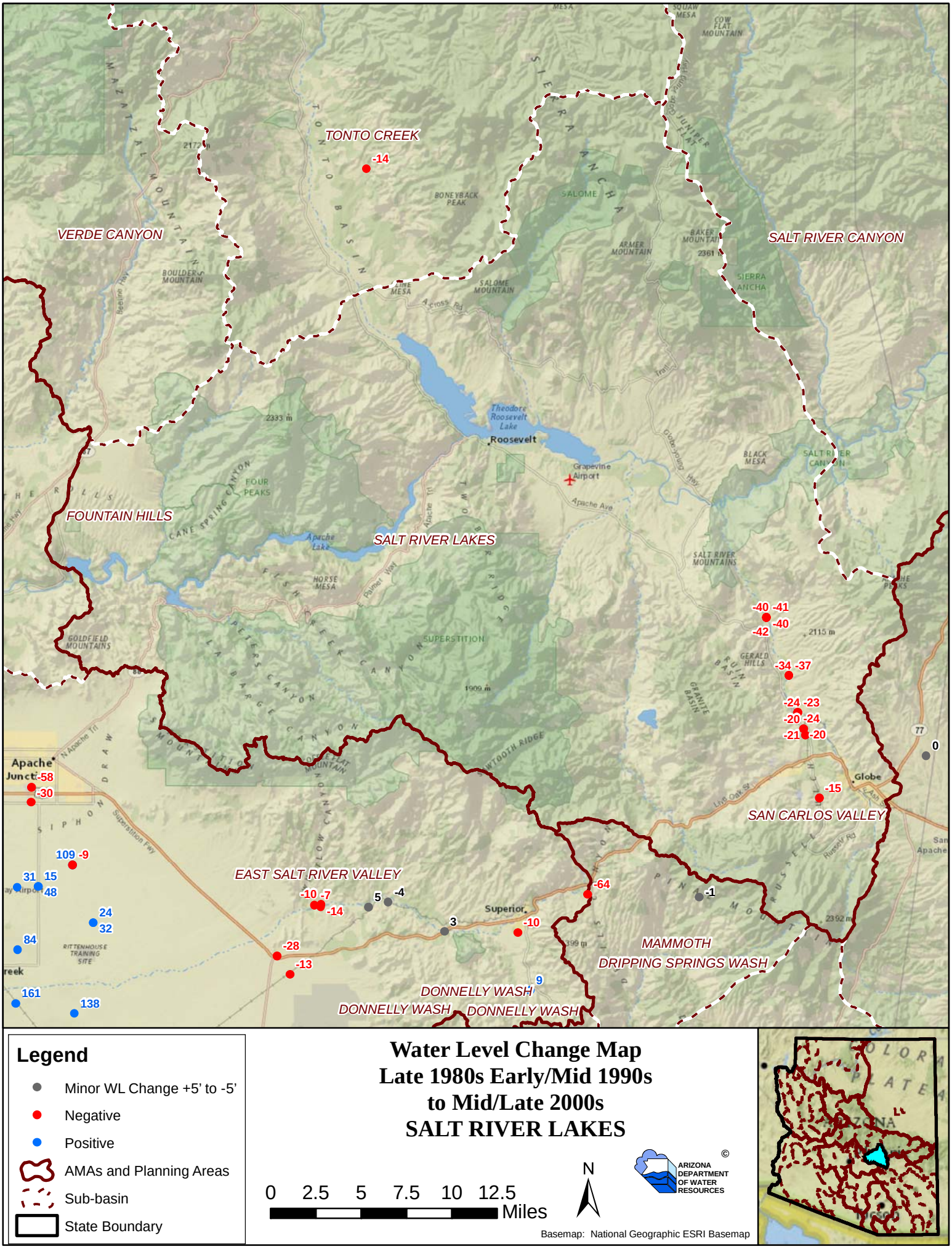
Basemap: National Geographic ESRI Basemap




TONTO CREEK
-14
VERDE CANYON
SALT RIVER CANYON
FOUNTAIN HILLS
SALT RIVER LAKES
-40 -41
-40
-42
-34 -37
-24 -23
-20 -24
-21 -20
0
-15
SAN CARLOS VALLEY
Globe
Apache Junct
-58
-30
109 -9
31 15
48
24
32
84
161
138
EAST SALT RIVER VALLEY
-10 -7
-14
5
-4
3
Superior
-10
-64
-1
-28
-13
9
MAMMOTH
DRIPPING SPRINGS WASH
DONNELLY WASH
DONNELLY WASH
DONNELLY WASH
Legend
Minor WL Change +5' to -5'
Negative
Positive
AMAs and Planning Areas
Sub-basin
State Boundary
Water Level Change Map
Late 1980s Early/Mid 1990s
to Mid/Late 2000s
SALT RIVER LAKES
0 2.5 5 7.5 10 12.5
Miles
N
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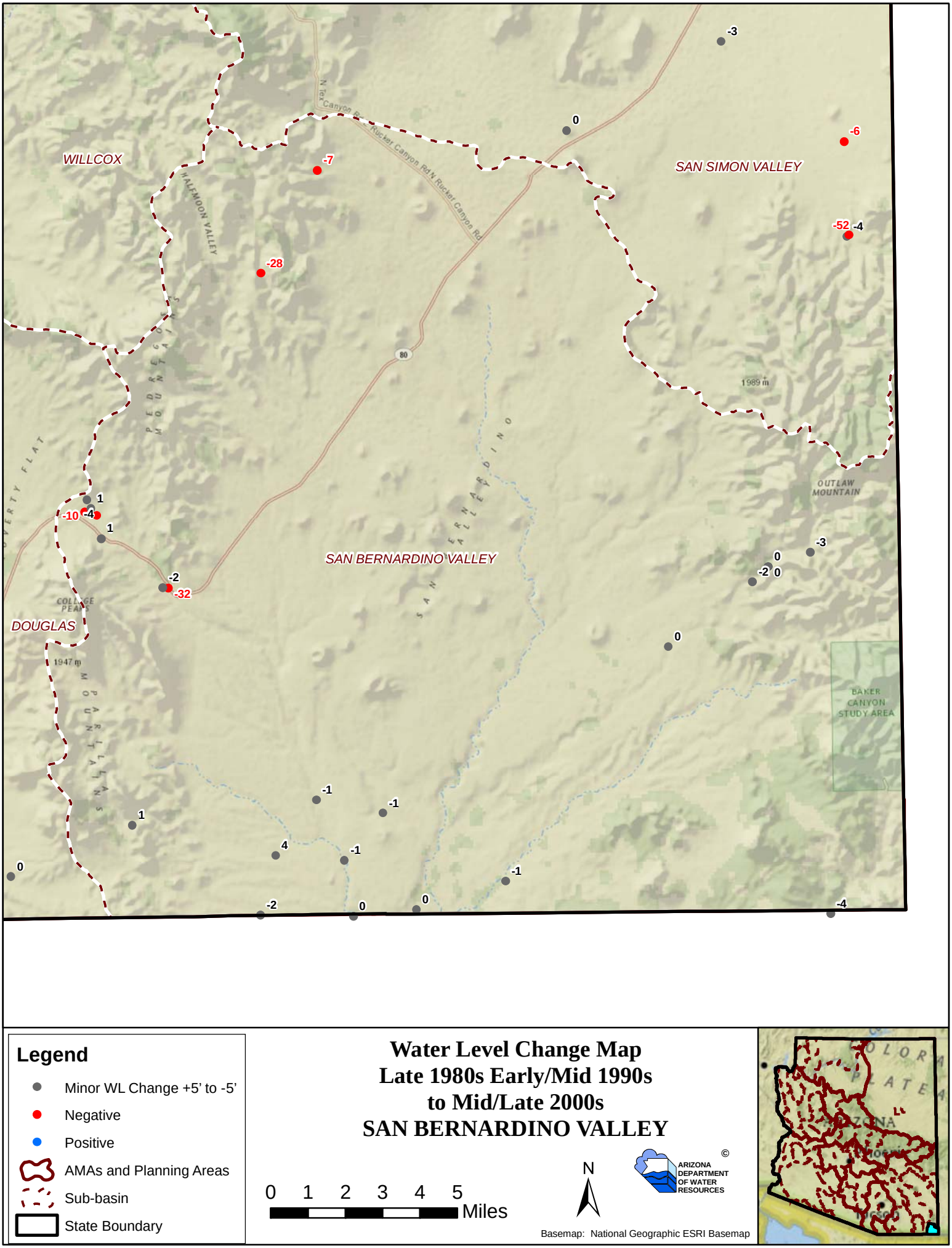
©
Basemap: National Geographic ESRI Basemap




## Legend

- Minor WL Change +5' to -5'
- Negative
- Positive
- AMAs and Planning Areas
- Sub-basin
- State Boundary

# Water Level Change Map
# Late 1980s Early/Mid 1990s to Mid/Late 2000s
# SAN BERNARDINO VALLEY

0 1 2 3 4 5 Miles

N

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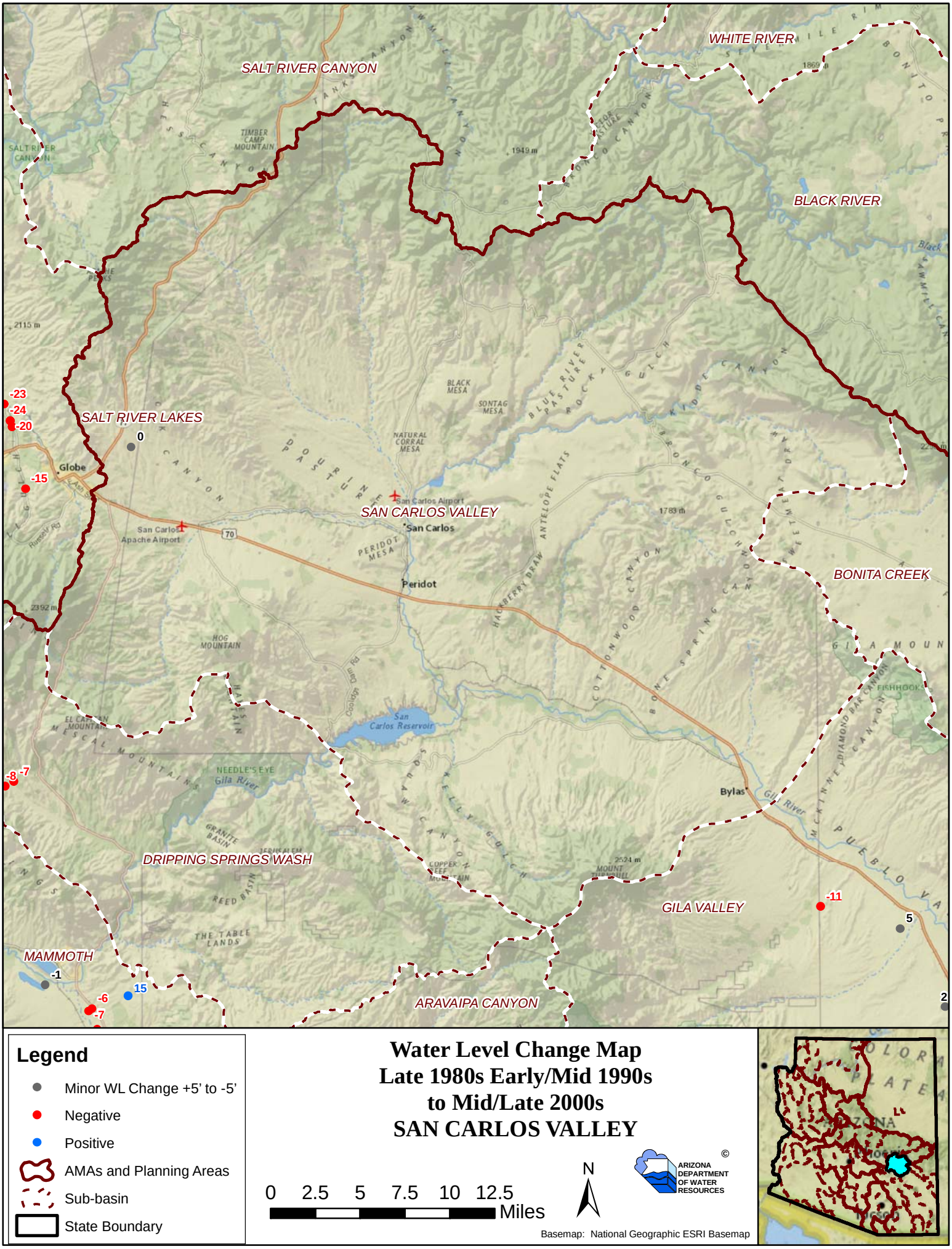
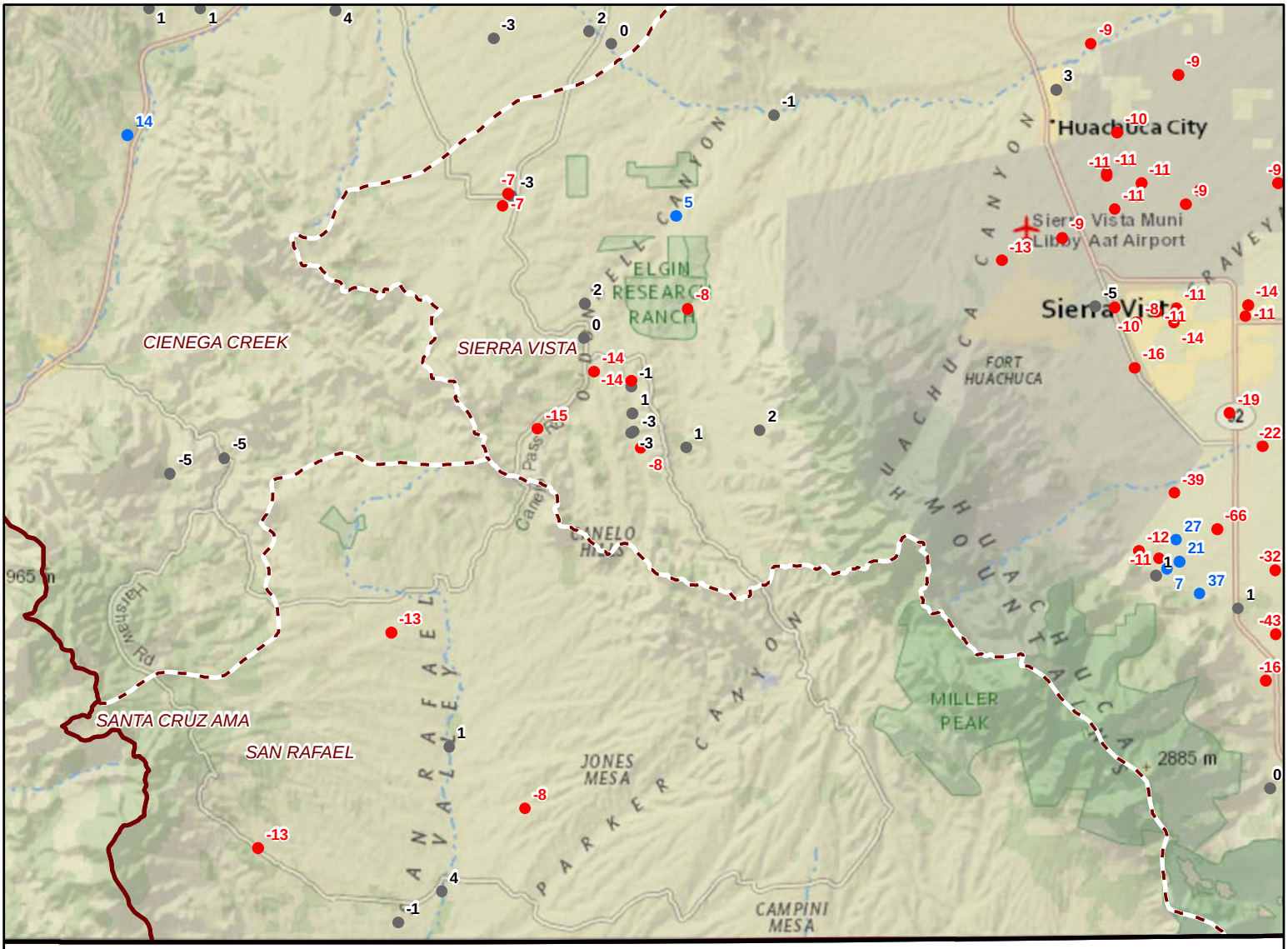
Basemap: National Geographic ESRI Basemap


SALT RIVER CANYON
WHITE RIVER
BLACK RIVER
SALT RIVER LAKES
SAN CARLOS VALLEY
BONITA CREEK
DRIPPING SPRINGS WASH
GILA VALLEY
MAMMOTH
ARAVAIPA CANYON
Globe
San Carlos
Peridot
Bylas
San Carlos Airport
San Carlos Apache Airport
San Carlos Reservoir
-23
-24
-20
0
-15
-8
-7
-11
5
-1
15
-6
-7
2
Legend
Minor WL Change +5' to -5'
Negative
Positive
AMAs and Planning Areas
Sub-basin
State Boundary
Water Level Change Map
Late 1980s Early/Mid 1990s
to Mid/Late 2000s
SAN CARLOS VALLEY
0 2.5 5 7.5 10 12.5
Miles
N
ARIZONA DEPARTMENT OF WATER RESOURCES
©
Basemap: National Geographic ESRI Basemap




## Legend

- Minor WL Change +5' to -5'
- Negative
- Positive
- AMAs and Planning Areas
- Sub-basin
- State Boundary

# Water Level Change Map
# Late 1980s Early/Mid 1990s to Mid/Late 2000s
# SAN RAFAEL

0 1.5 3 4.5 6 7.5 Miles

N

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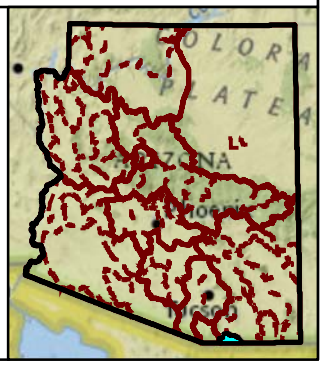
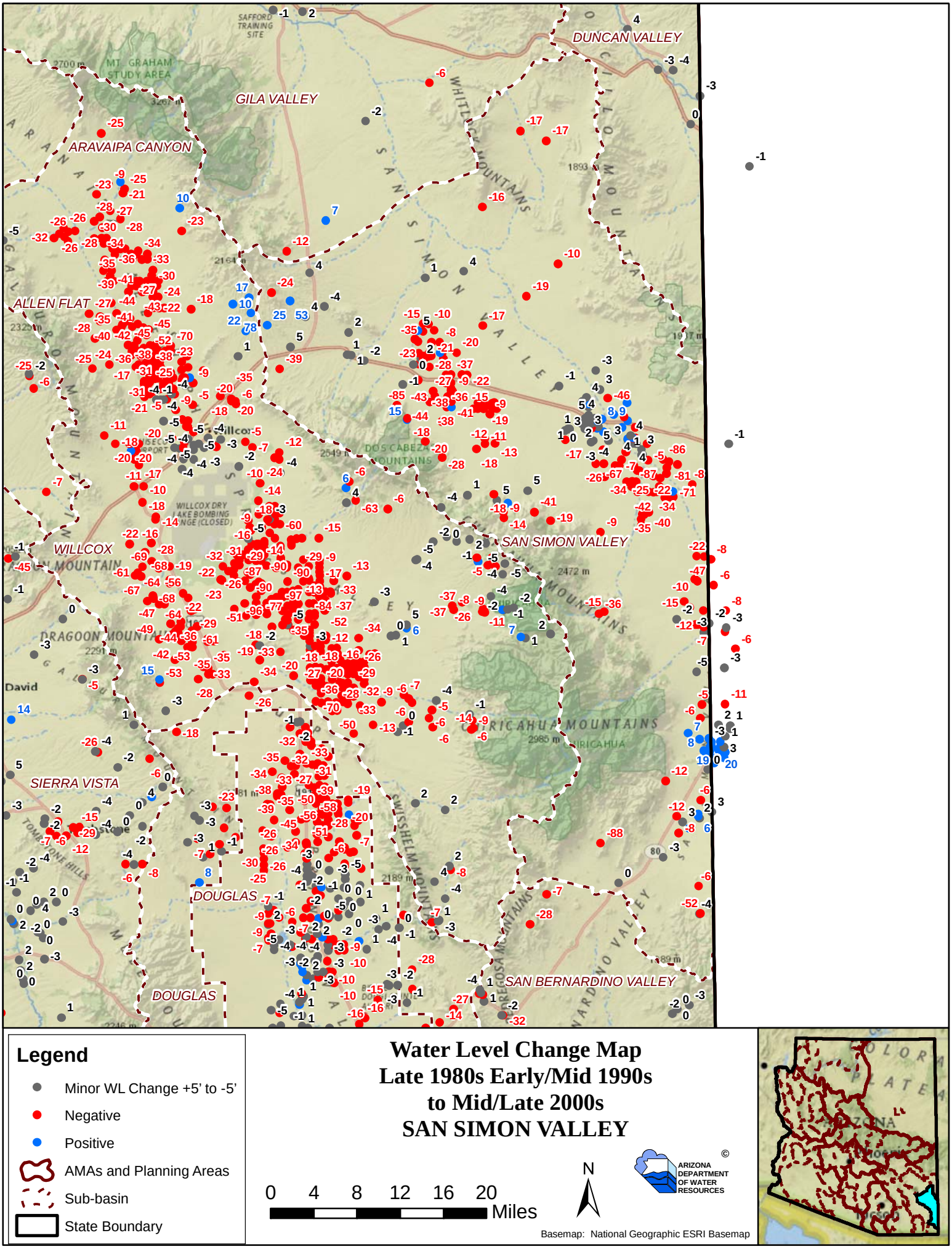
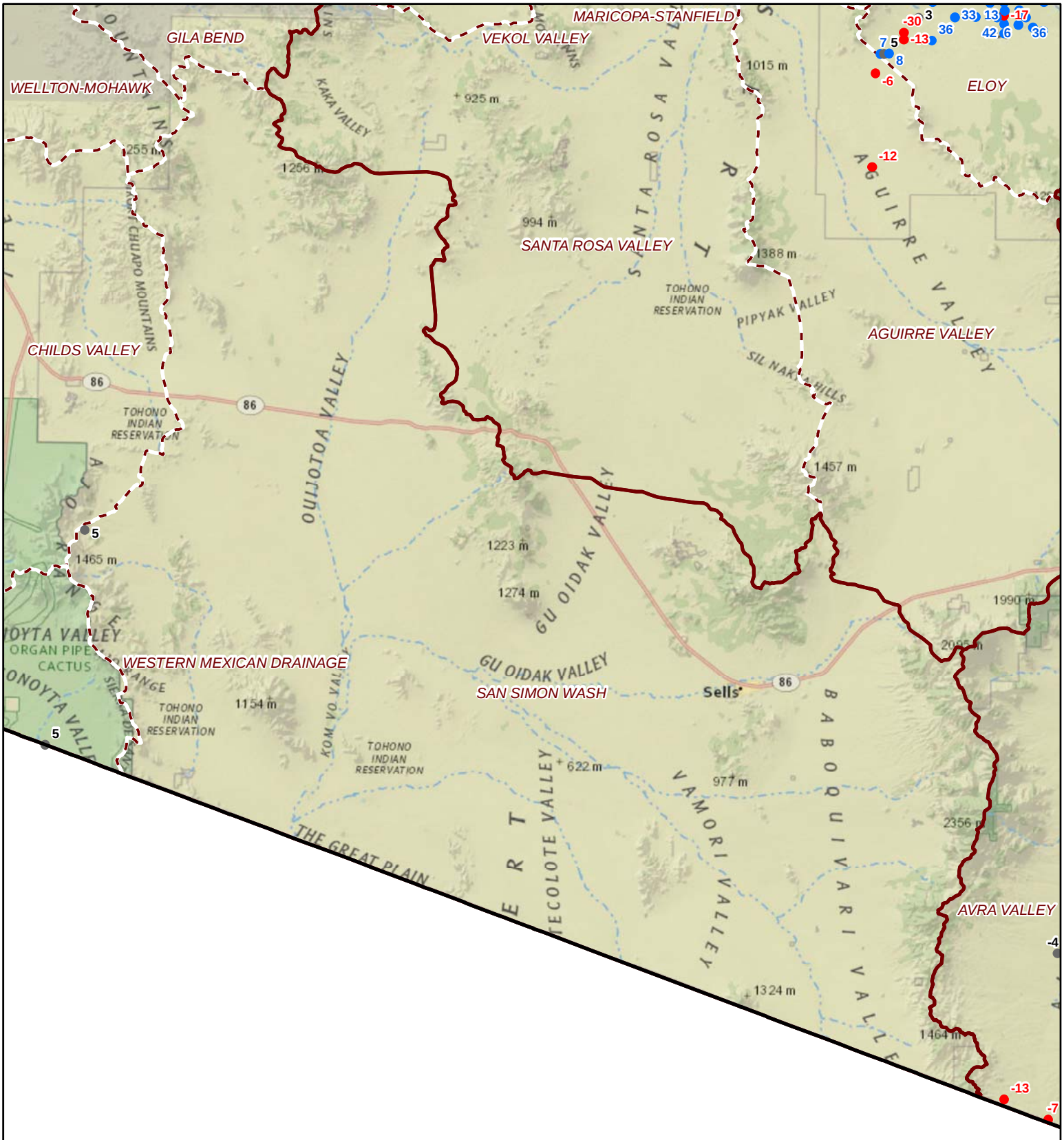
Basemap: National Geographic ESRI Basemap






# Water Level Change Map
# Late 1980s Early/Mid 1990s to Mid/Late 2000s
# SAN SIMON VALLEY




## Legend

- Minor WL Change +5' to -5'
- Negative
- Positive
- AMAs and Planning Areas
- Sub-basin
- State Boundary

# Water Level Change Map
# Late 1980s Early/Mid 1990s to Mid/Late 2000s
# SAN SIMON WASH

0 3.5 7 10.5 14 17.5 Miles

N

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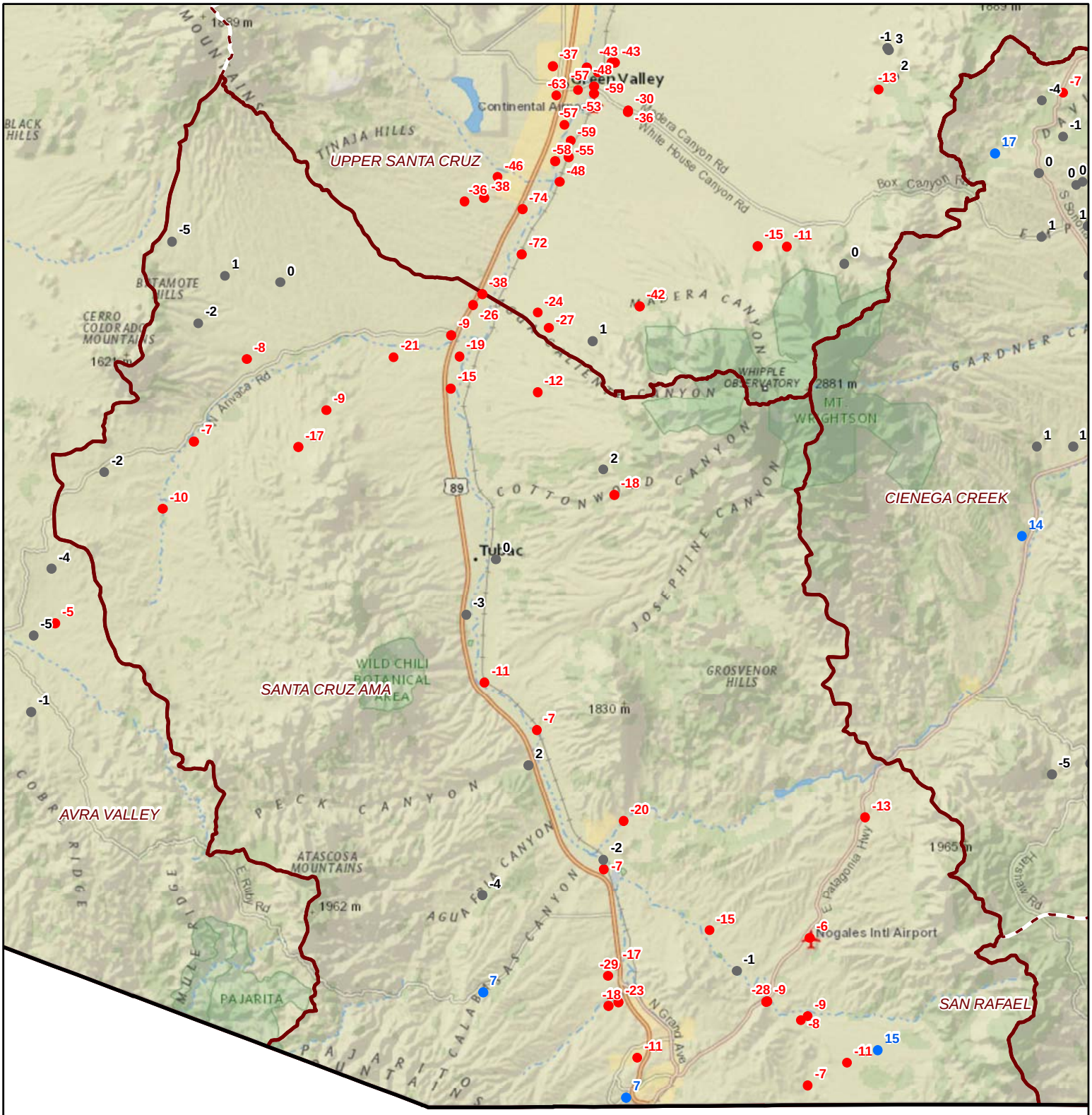
Basemap: National Geographic ESRI Basemap




## Legend

- Minor WL Change +5' to -5'
- Negative
- Positive
- AMAs and Planning Areas
- Sub-basin
- State Boundary

# Water Level Change Map
# Late 1980s Early/Mid 1990s to Mid/Late 2000s
# SANTA CRUZ AMA

0 1.5 3 4.5 6 7.5 Miles

N

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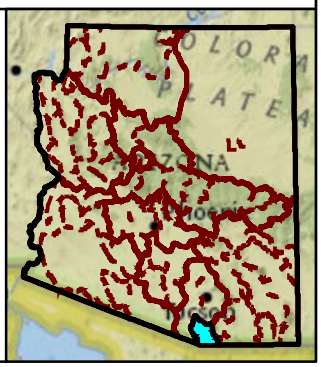
Basemap: National Geographic ESRI Basemap



## Legend

- Minor WL Change +5' to -5'
- Negative
- Positive
- AMAs and Planning Areas
- Sub-basin
- State Boundary

# Water Level Change Map
# Late 1980s Early/Mid 1990s to Mid/Late 2000s
# SANTA MARIA

0 2 4 6 8 10 Miles

N

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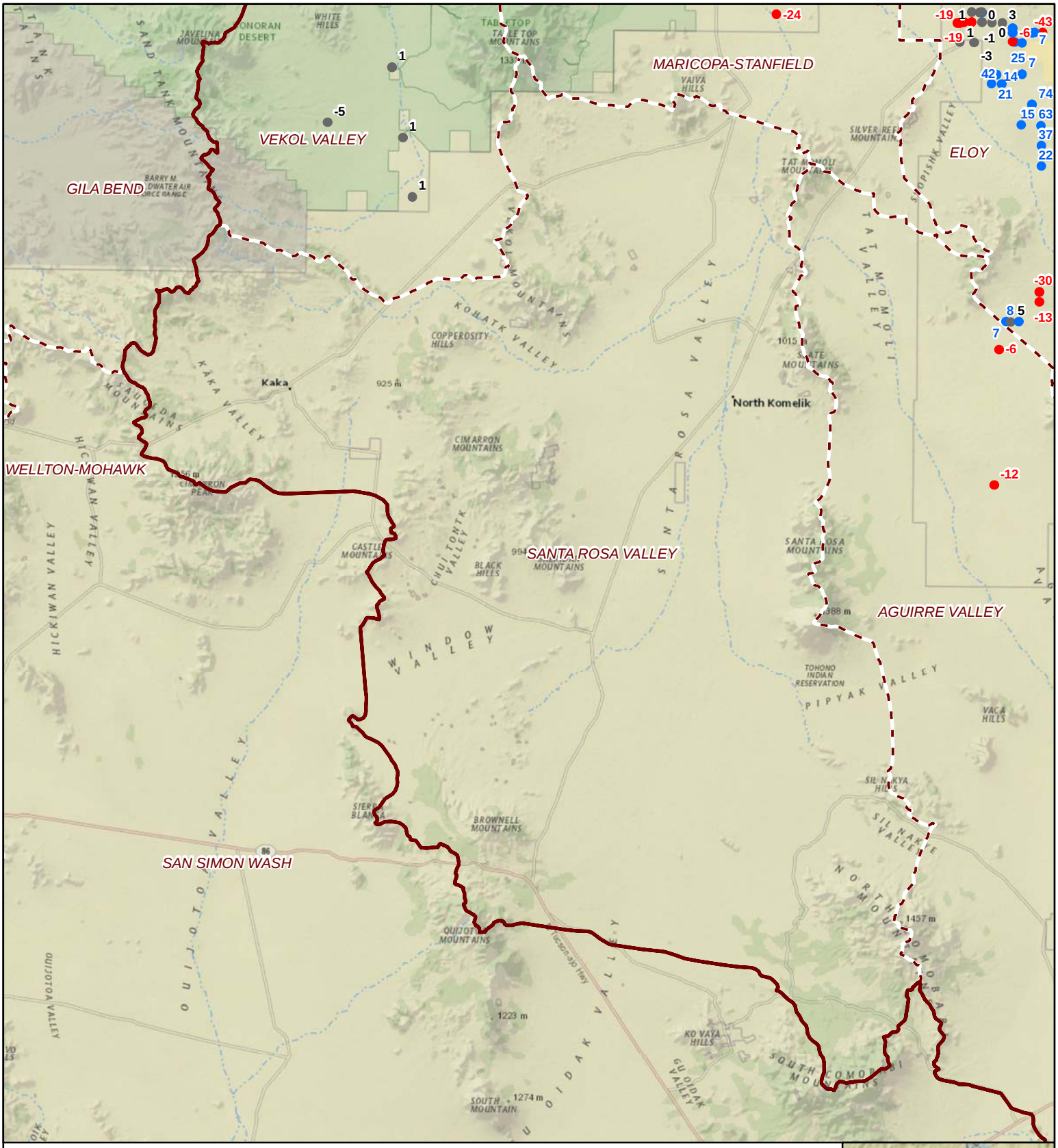
Basemap: National Geographic ESRI Basemap




## Legend

- Minor WL Change +5' to -5'
- Negative
- Positive
- AMAs and Planning Areas
- Sub-basin
- State Boundary

# Water Level Change Map
# Late 1980s Early/Mid 1990s to Mid/Late 2000s
# SANTA ROSA VALLEY

0 2.5 5 7.5 10 12.5 Miles

N

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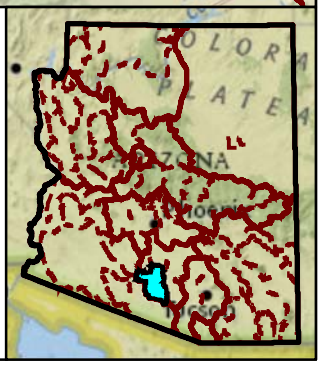
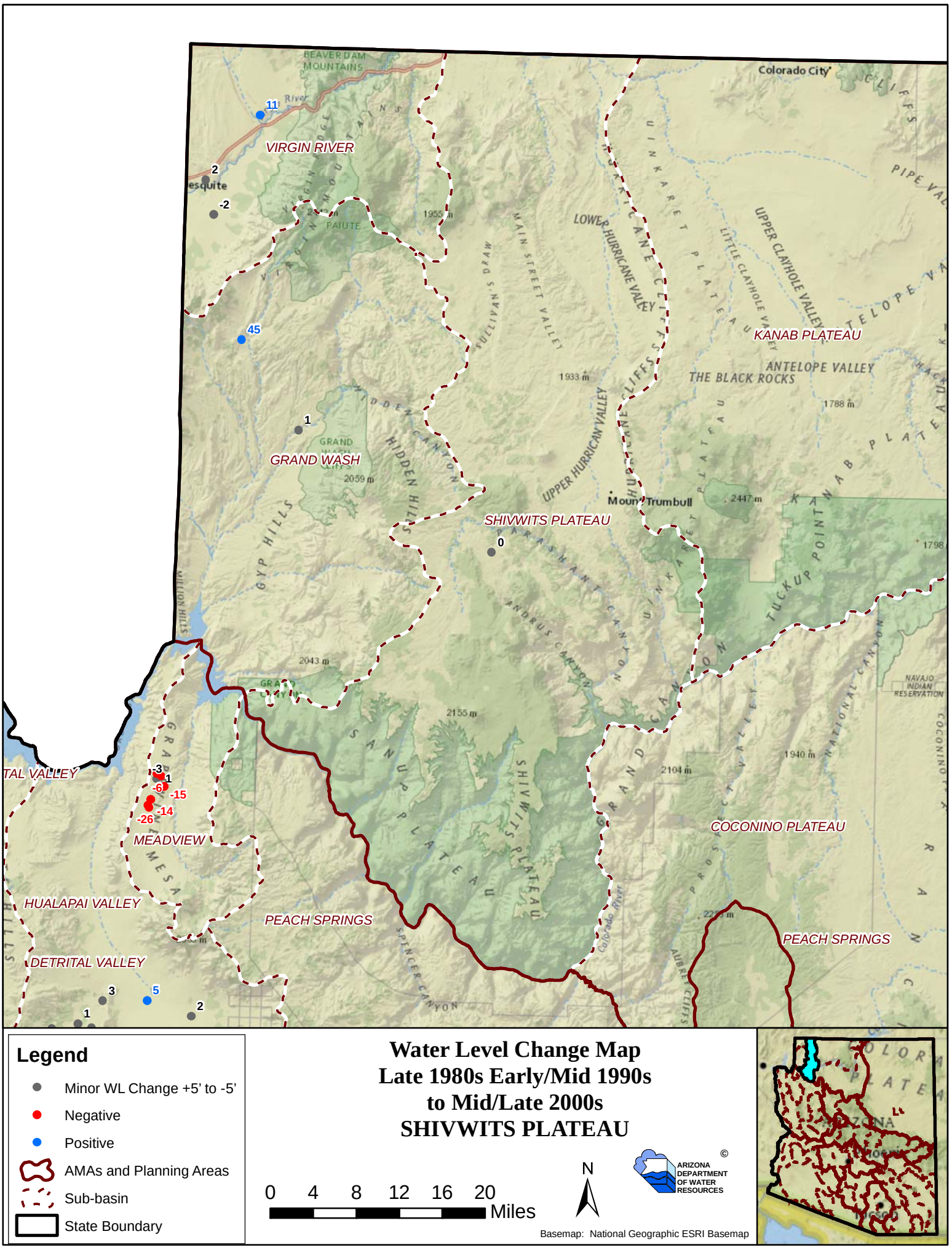
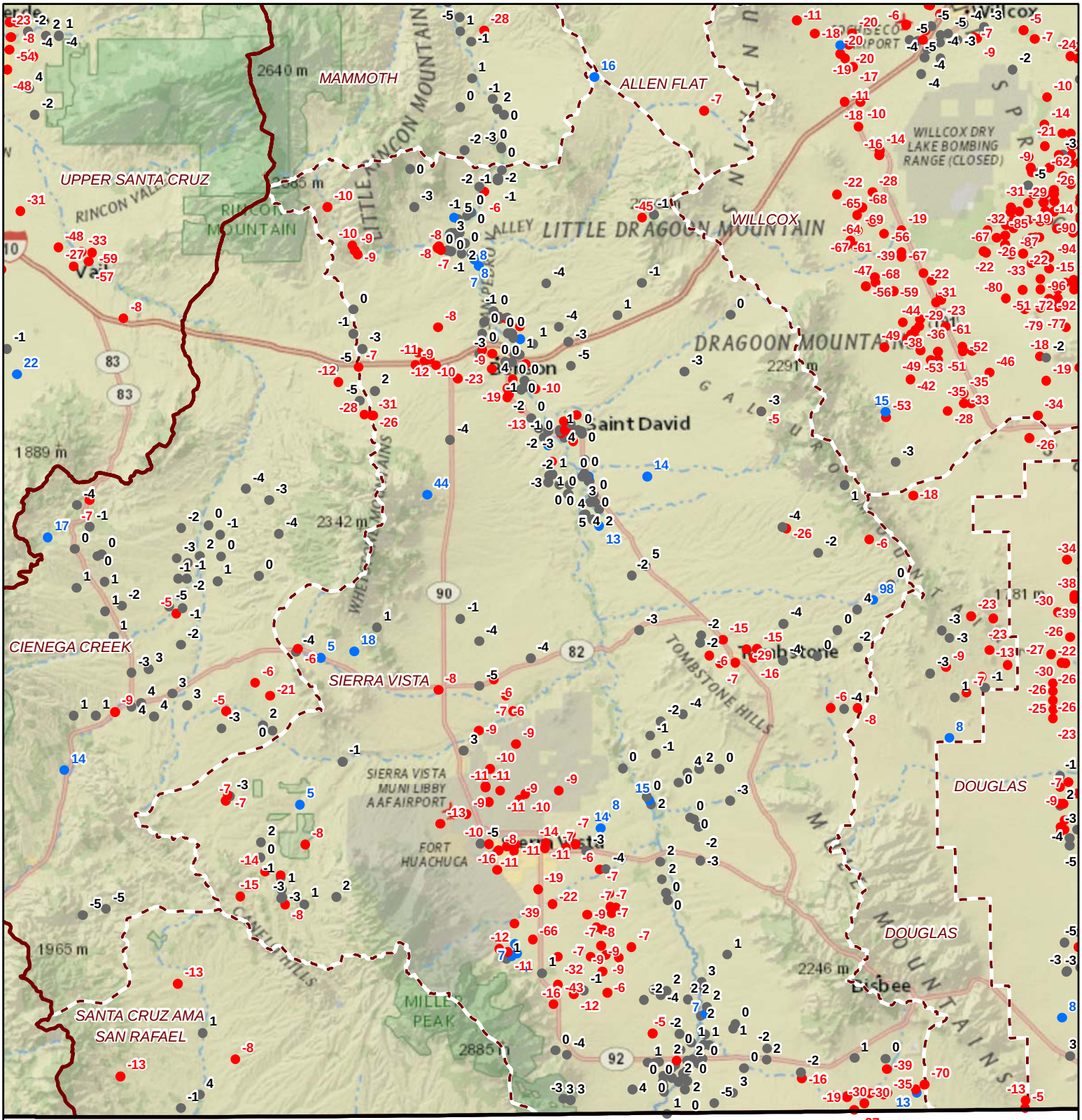
Basemap: National Geographic ESRI Basemap




Legend
Minor WL Change +5' to -5'
Negative
Positive
AMAs and Planning Areas
Sub-basin
State Boundary
Water Level Change Map
Late 1980s Early/Mid 1990s
to Mid/Late 2000s
SHIVWITS PLATEAU
0 4 8 12 16 20
Miles
N
ARIZONA DEPARTMENT OF WATER RESOURCES
©
Basemap: National Geographic ESRI Basemap
VIRGIN RIVER
GRAND WASH
SHIVWITS PLATEAU
KANAB PLATEAU
COCONINO PLATEAU
MEADVIEW
HUALAPAI VALLEY
PEACH SPRINGS
DETRITAL VALLEY
Colorado City
Mount Trumbull
Esquite
BEAVER DAM MOUNTAINS
PAIUTE
LOWER HURRICANE VALLEY
UPPER HURRICAN VALLEY
MAIN STREET VALLEY
SULLIVAN'S DRAW
HIDDEN CANYON
GYP HILLS
MUSTANG MESA
ANDRUS CANYON
SANUP PLATEAU
SHIVWITS PLATEAU
GRAND CANYON
SPENCER CANYON
Colorado River
ANTELOPE VALLEY
THE BLACK ROCKS
UPPER CLAYHOLE VALLEY
LITTLE CLAYHOLE VALLEY
TUCKUP POINT
NAVAJO INDIAN RESERVATION
COCONINO PLATEAU
11
2
-2
45
1
0
3
1
-6
-15
-14
-26
3
5
1
2




## Legend

- Minor WL Change +5' to -5'
- Negative
- Positive
- AMAs and Planning Areas
- Sub-basin
- State Boundary

# Water Level Change Map
# Late 1980s Early/Mid 1990s to Mid/Late 2000s
# SIERRA VISTA

0 3 6 9 12 15 Miles

N

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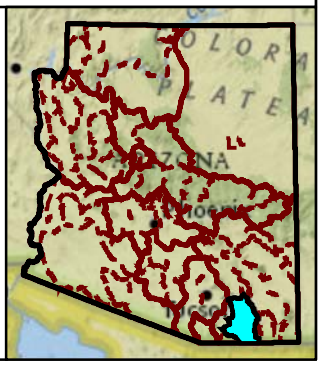
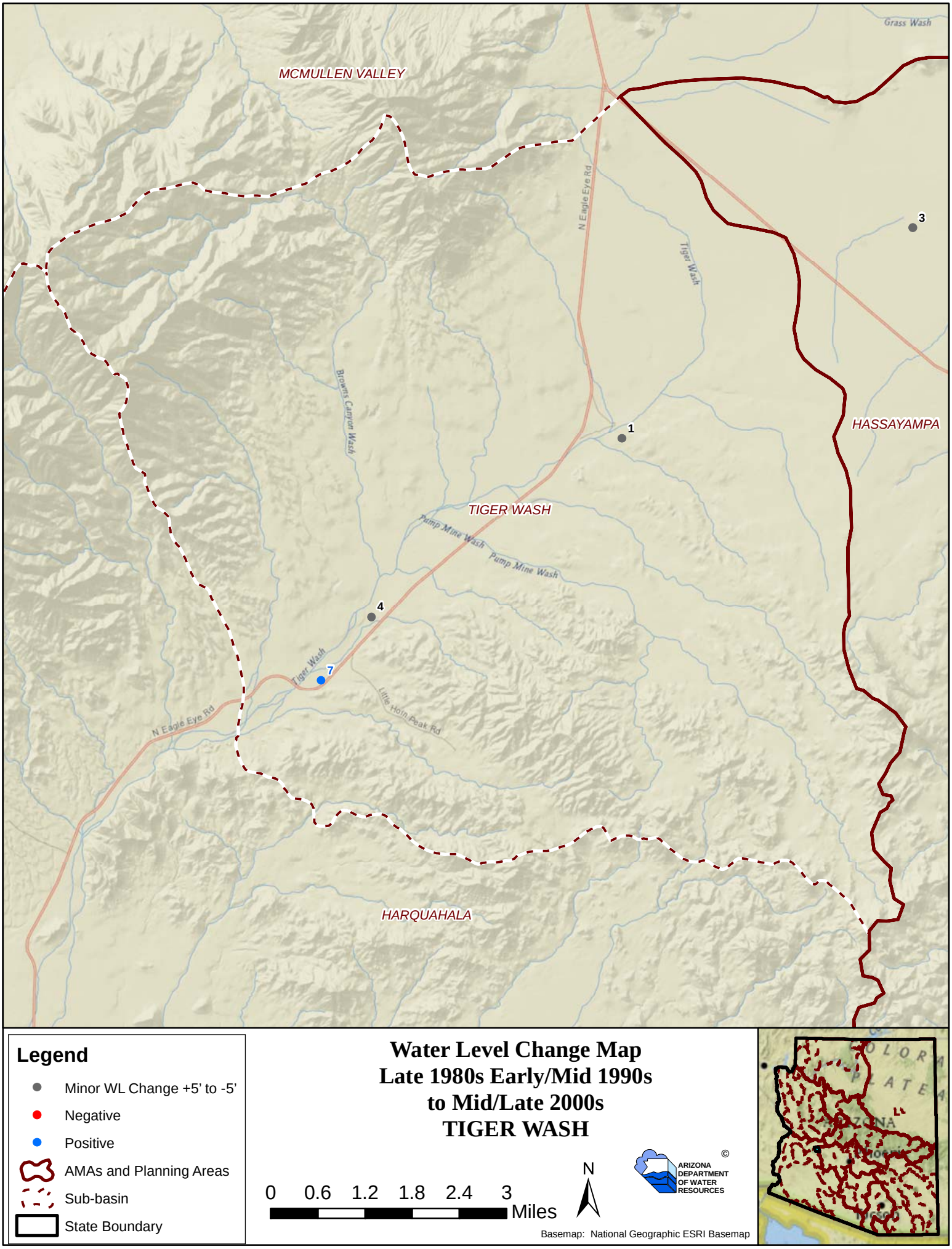
Basemap: National Geographic ESRI Basemap



Legend
Minor WL Change +5' to -5'
Negative
Positive
AMAs and Planning Areas
Sub-basin
State Boundary
Water Level Change Map
Late 1980s Early/Mid 1990s
to Mid/Late 2000s
SKULL VALLEY
0 1.5 3 4.5 6 7.5
Miles
N
ARIZONA DEPARTMENT OF WATER RESOURCES
©
Basemap: National Geographic ESRI Basemap
BIG CHINO
LITTLE CHINO
UPPER AGUA FRIA
SKULL VALLEY
SANTA MARIA
UPPER HASSAYAMPA
BRADSHAW MOUNTAINS
WEAVER MOUNTAINS
THOMPSON VALLEY
PEEPLES VALLEY
INDIAN ALLOTMENTS
BLACK MOUNTAIN
CELLAR BASIN
GRANITE MOUNTAIN
SYCAMORE MESA
BUCKHORN MESA
TANK CREEK MESA
BALD MOUNTAIN
SUNFLOWER FLAT
Prescott
Ernest A Love Fld
YAVAPAI PRESCOTT INDIAN RESERVATION
Baggdad Rd
Date Creek Rd
89
2003 ft
5
-11
2
-2
-2
-70
3
14
-2
3
0
-23


MCMULLEN VALLEY
HASSAYAMPA
TIGER WASH
HARQUAHALA
Grass Wash
N Eagle Eye Rd
Tiger Wash
Browns Canyon Wash
Pump Mine Wash
Pump Mine Wash
Tiger Wash
Little Horn Peak Rd
N Eagle Eye Rd
1
3
4
7
Legend
Minor WL Change +5' to -5'
Negative
Positive
AMAs and Planning Areas
Sub-basin
State Boundary
Water Level Change Map
Late 1980s Early/Mid 1990s
to Mid/Late 2000s
TIGER WASH
0 0.6 1.2 1.8 2.4 3
Miles
N
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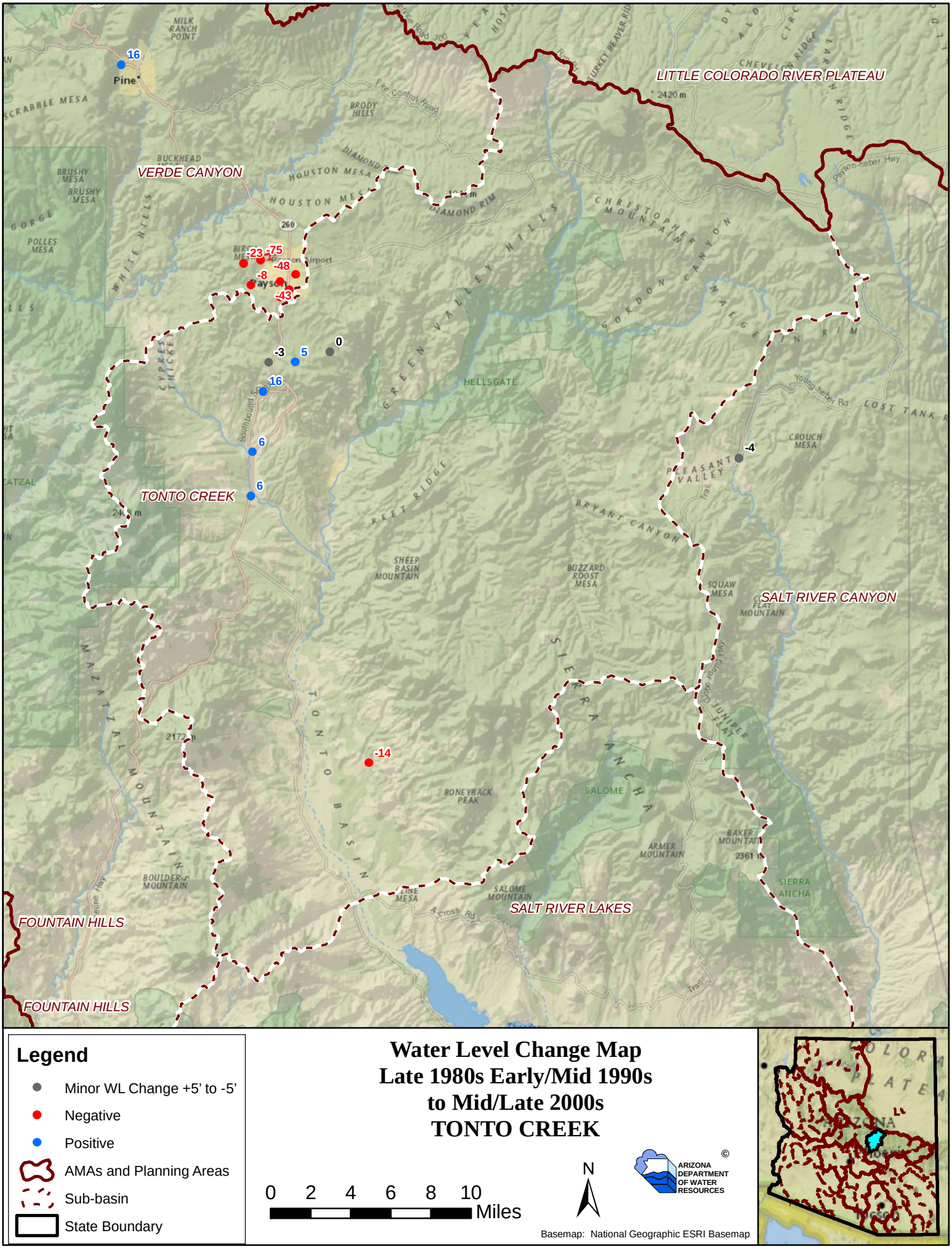
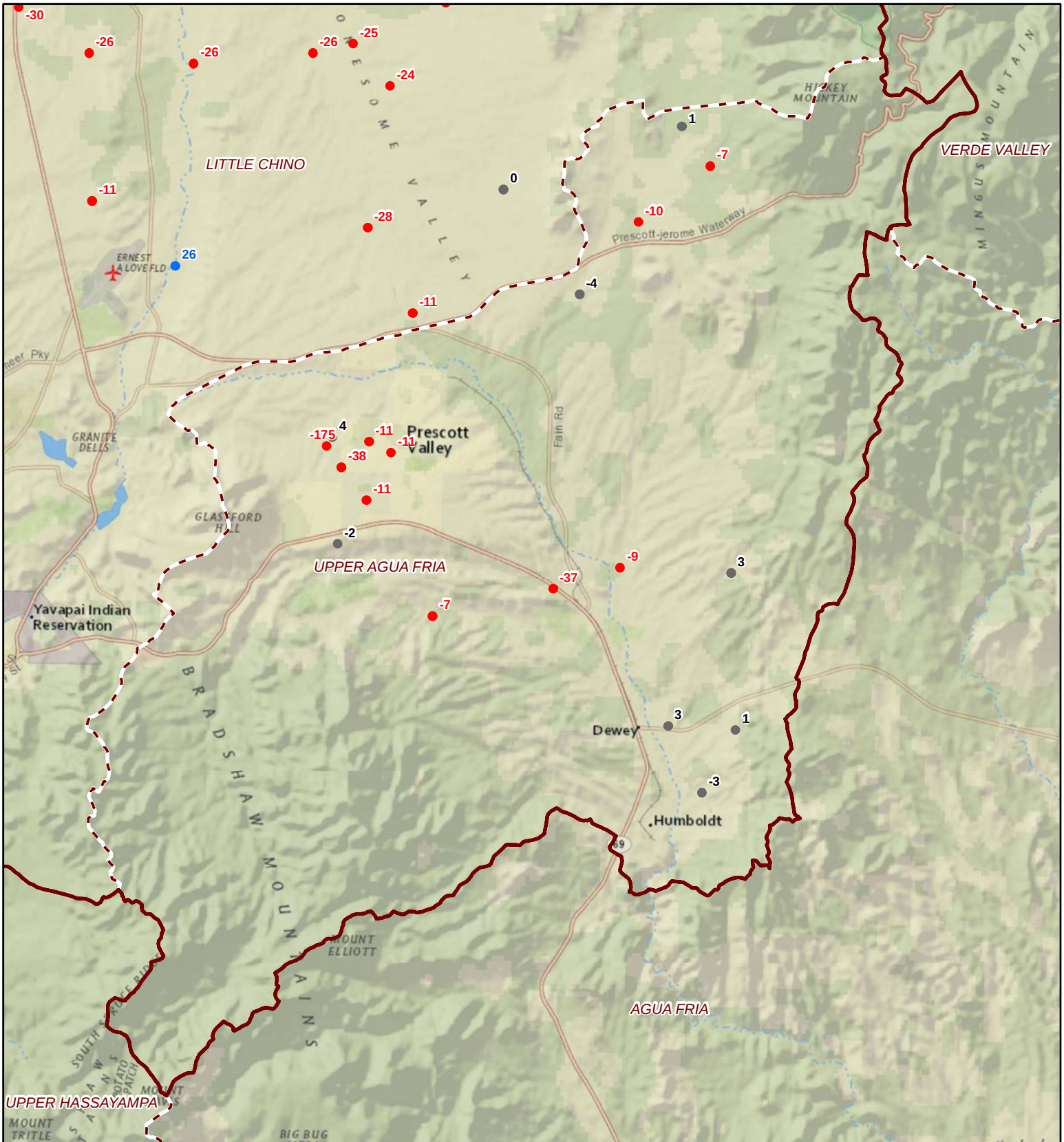
©
Basemap: National Geographic ESRI Basemap


Legend
Minor WL Change +5' to -5'
Negative
Positive
AMAs and Planning Areas
Sub-basin
State Boundary
Water Level Change Map
Late 1980s Early/Mid 1990s
to Mid/Late 2000s
TONTO CREEK
0 2 4 6 8 10
Miles
N
ARIZONA DEPARTMENT OF WATER RESOURCES
©
Basemap: National Geographic ESRI Basemap
LITTLE COLORADO RIVER PLATEAU
VERDE CANYON
TONTO CREEK
SALT RIVER CANYON
SALT RIVER LAKES
FOUNTAIN HILLS
FOUNTAIN HILLS
16
-23
-75
-48
-8
-43
-3
5
0
16
6
6
-4
-14




## Legend

- Minor WL Change +5' to -5'
- Negative
- Positive
- AMAs and Planning Areas
- Sub-basin
- State Boundary

# Water Level Change Map
# Late 1980s Early/Mid 1990s to Mid/Late 2000s
# UPPER AGUA FRIA

0 1 2 3 4 5 Miles

N

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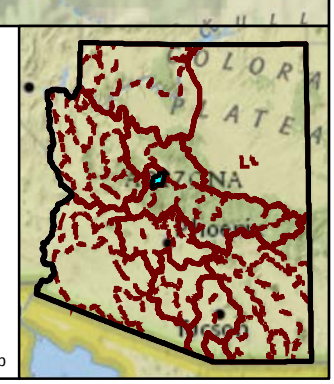
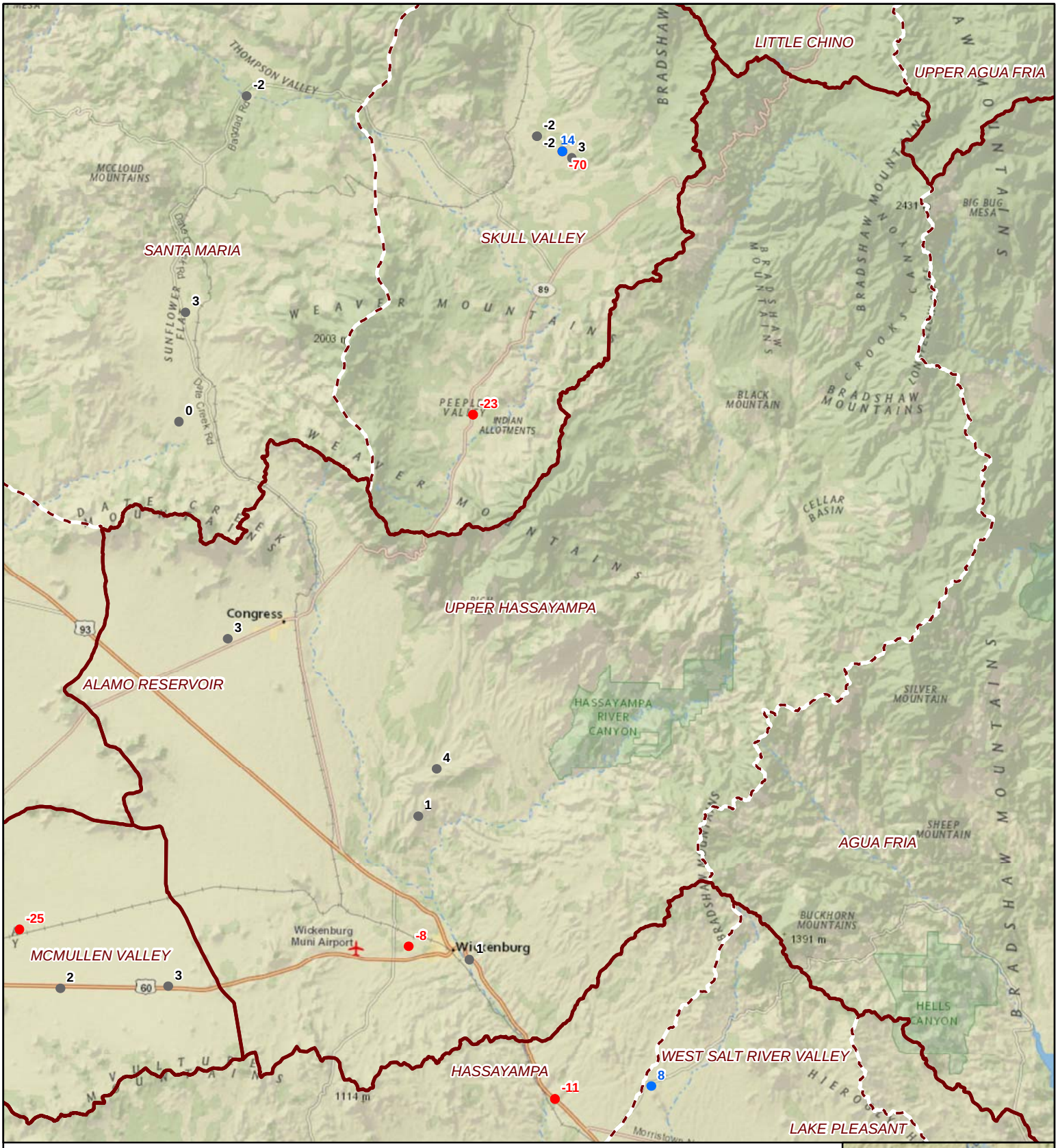
Basemap: National Geographic ESRI Basemap






## Legend

- Minor WL Change +5' to -5'
- Negative
- Positive
- AMAs and Planning Areas
- Sub-basin
- State Boundary

# Water Level Change Map
# Late 1980s Early/Mid 1990s to Mid/Late 2000s
# UPPER HASSAYAMPA

0 2 4 6 8 10 Miles

N

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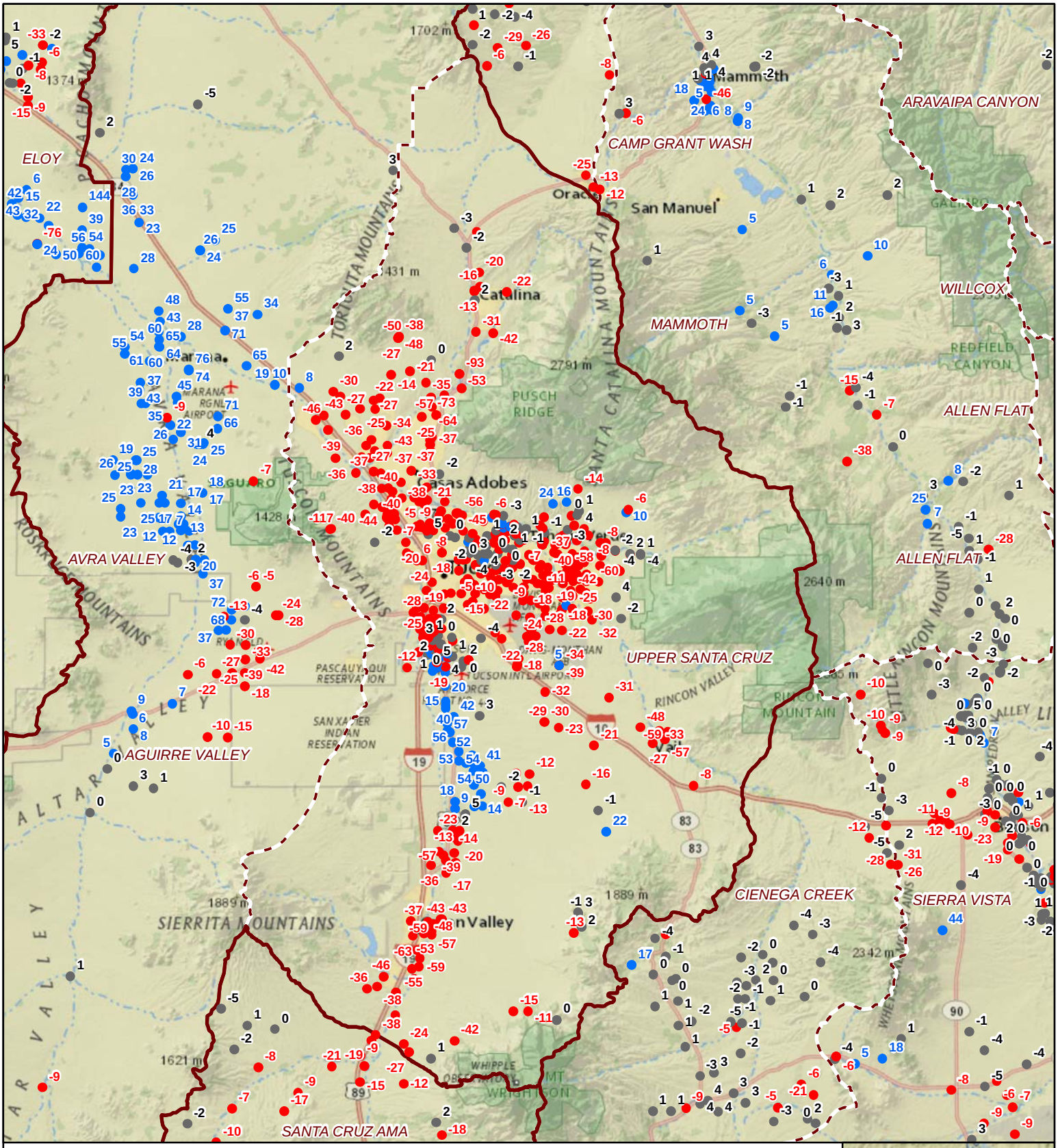
Basemap: National Geographic ESRI Basemap




## Legend

- Minor WL Change +5' to -5'
- Negative
- Positive
- AMAs and Planning Areas
- Sub-basin
- State Boundary

# Water Level Change Map
# Late 1980s Early/Mid 1990s to Mid/Late 2000s
# UPPER SANTA CRUZ

0 3.5 7 10.5 14 17.5 Miles

N

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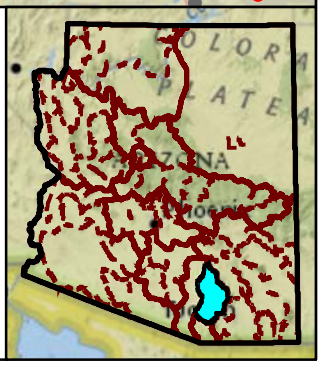
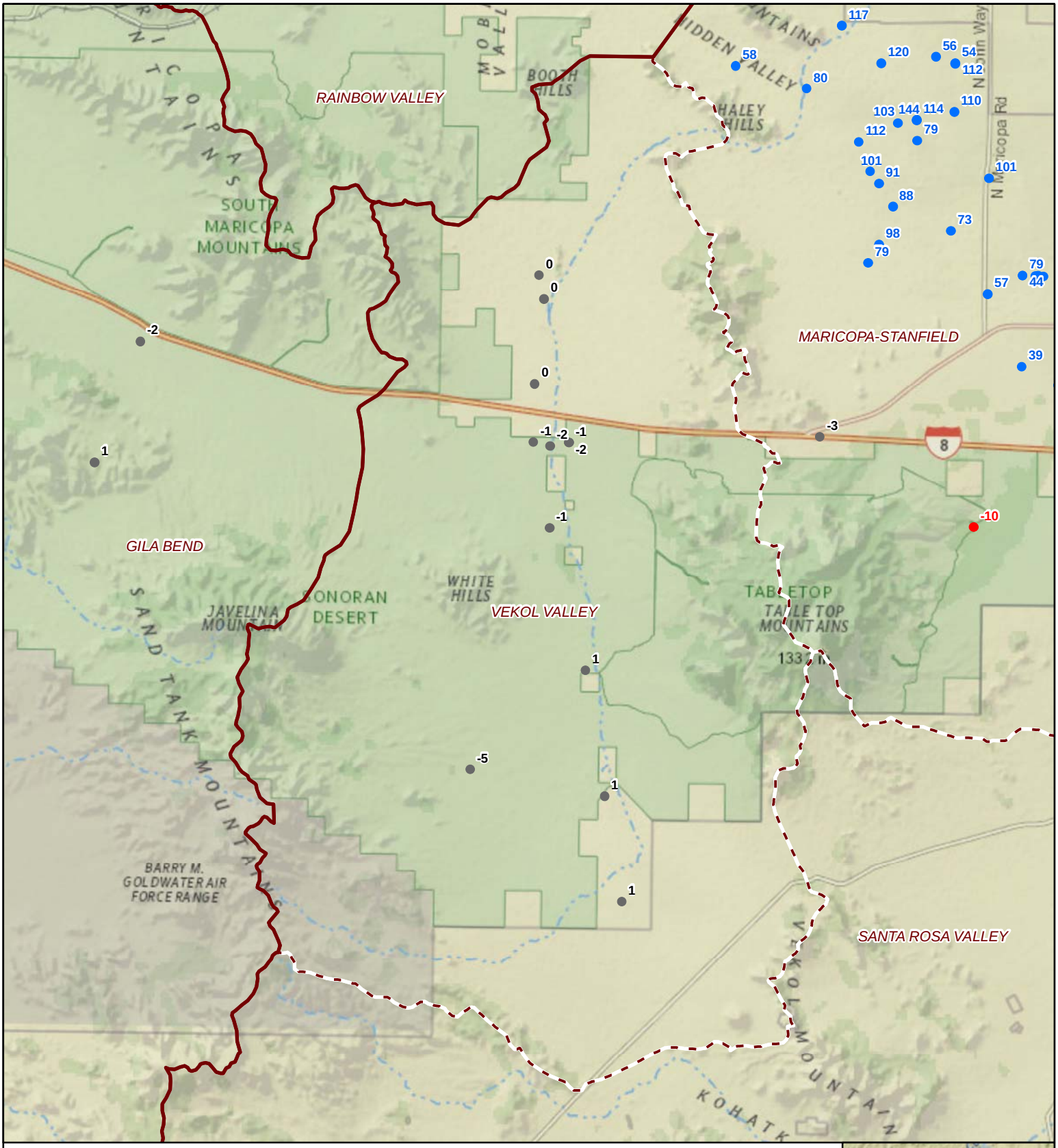
Basemap: National Geographic ESRI Basemap






## Legend

- Minor WL Change +5' to -5'
- Negative
- Positive
- AMAs and Planning Areas
- Sub-basin
- State Boundary

# Water Level Change Map
# Late 1980s Early/Mid 1990s to Mid/Late 2000s
# VEKOL VALLEY

0 1 2 3 4 5 Miles

N

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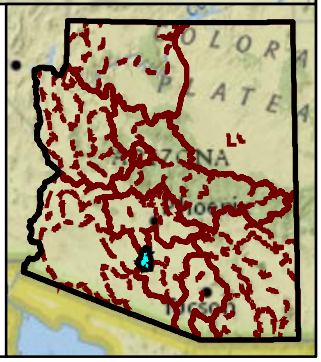
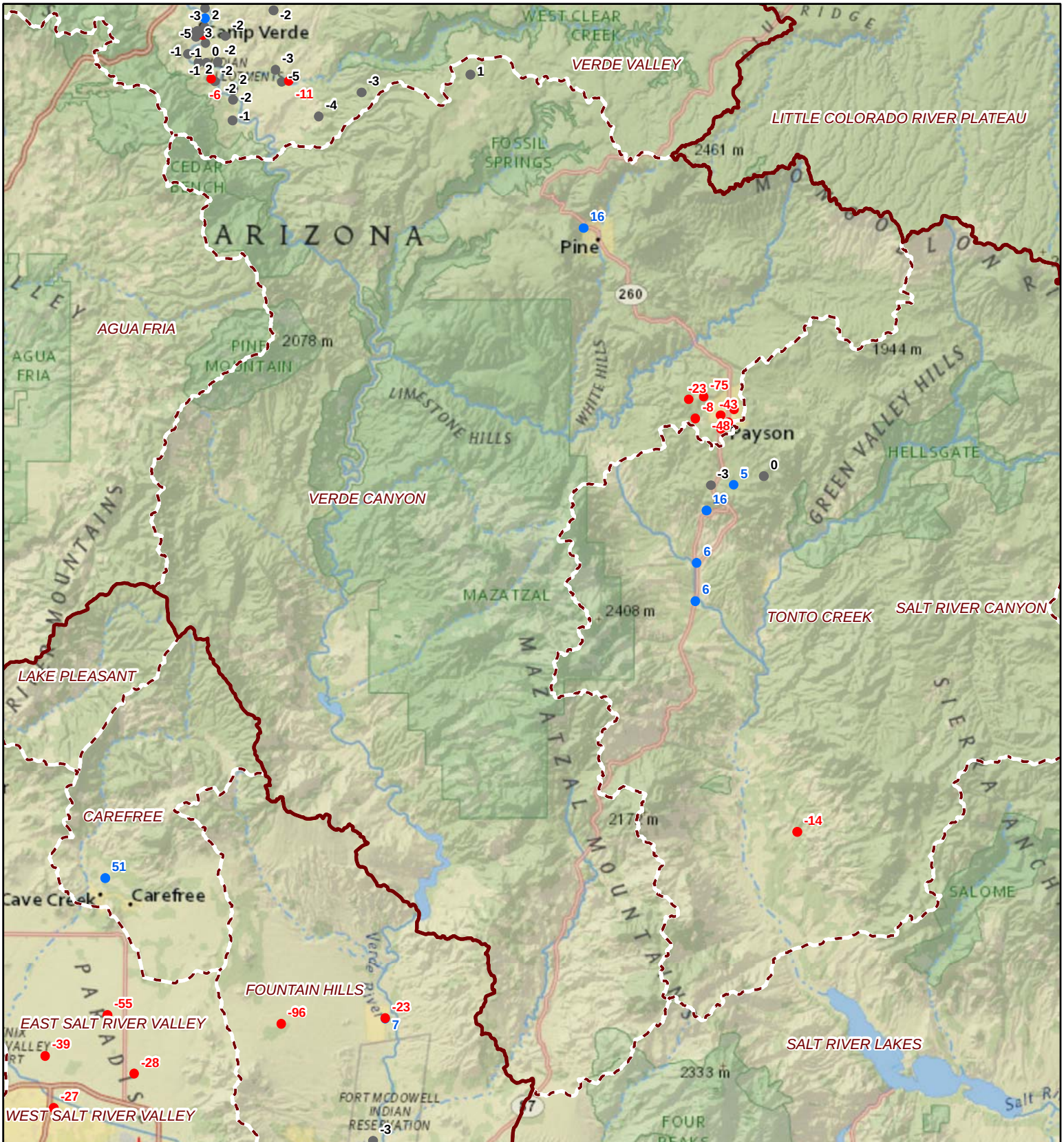
Basemap: National Geographic ESRI Basemap






## Legend

- Minor WL Change +5' to -5'
- Negative
- Positive
- AMAs and Planning Areas
- Sub-basin
- State Boundary

# Water Level Change Map
# Late 1980s Early/Mid 1990s to Mid/Late 2000s
# VERDE CANYON

0 3 6 9 12 15 Miles

N

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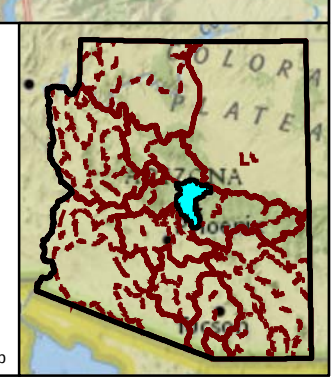
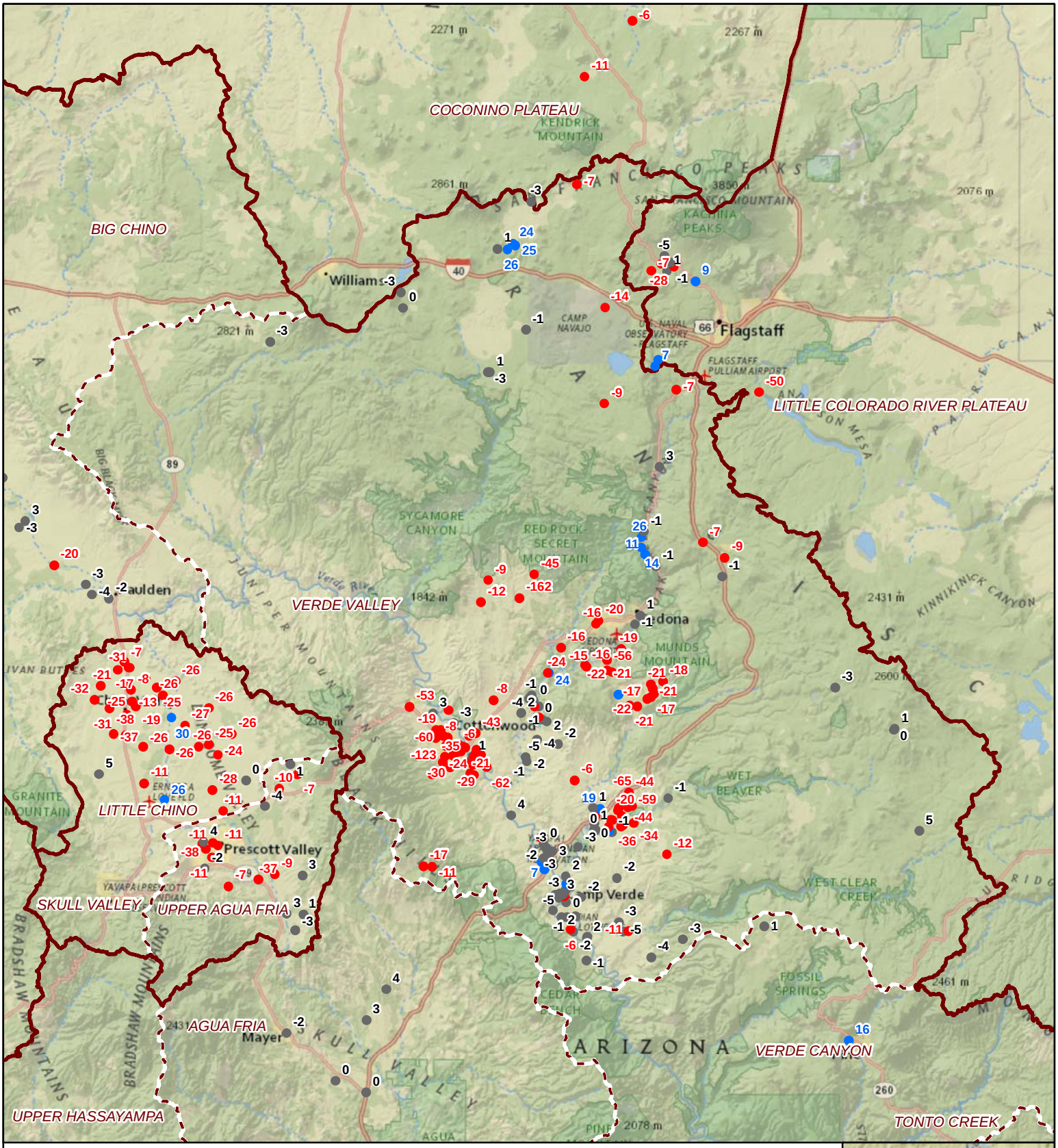
Basemap: National Geographic ESRI Basemap






## Legend

- Minor WL Change +5' to -5'
- Negative
- Positive
- AMAs and Planning Areas
- Sub-basin
- State Boundary

# Water Level Change Map
# Late 1980s Early/Mid 1990s to Mid/Late 2000s
# VERDE VALLEY

0 4 8 12 16 20 Miles

N

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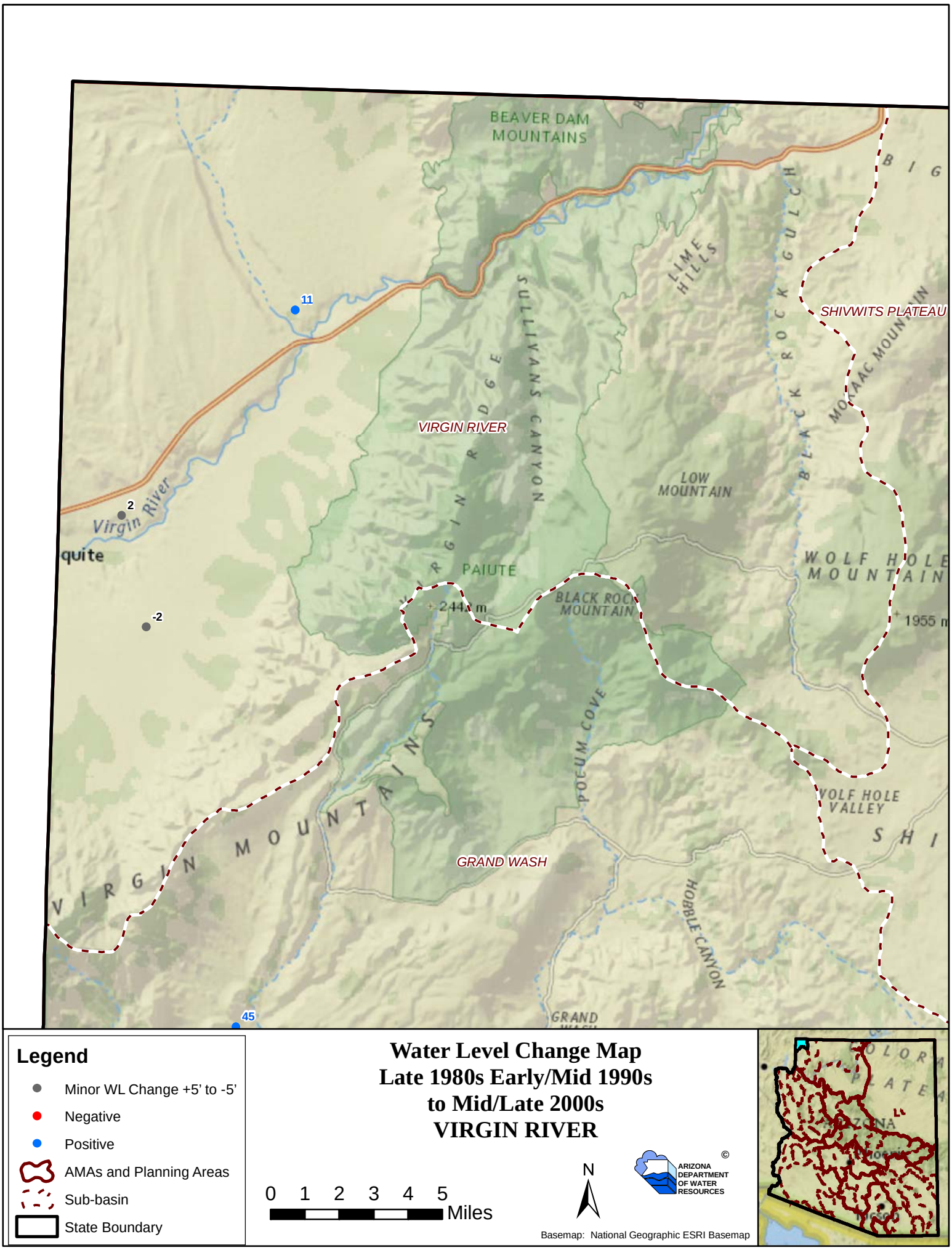
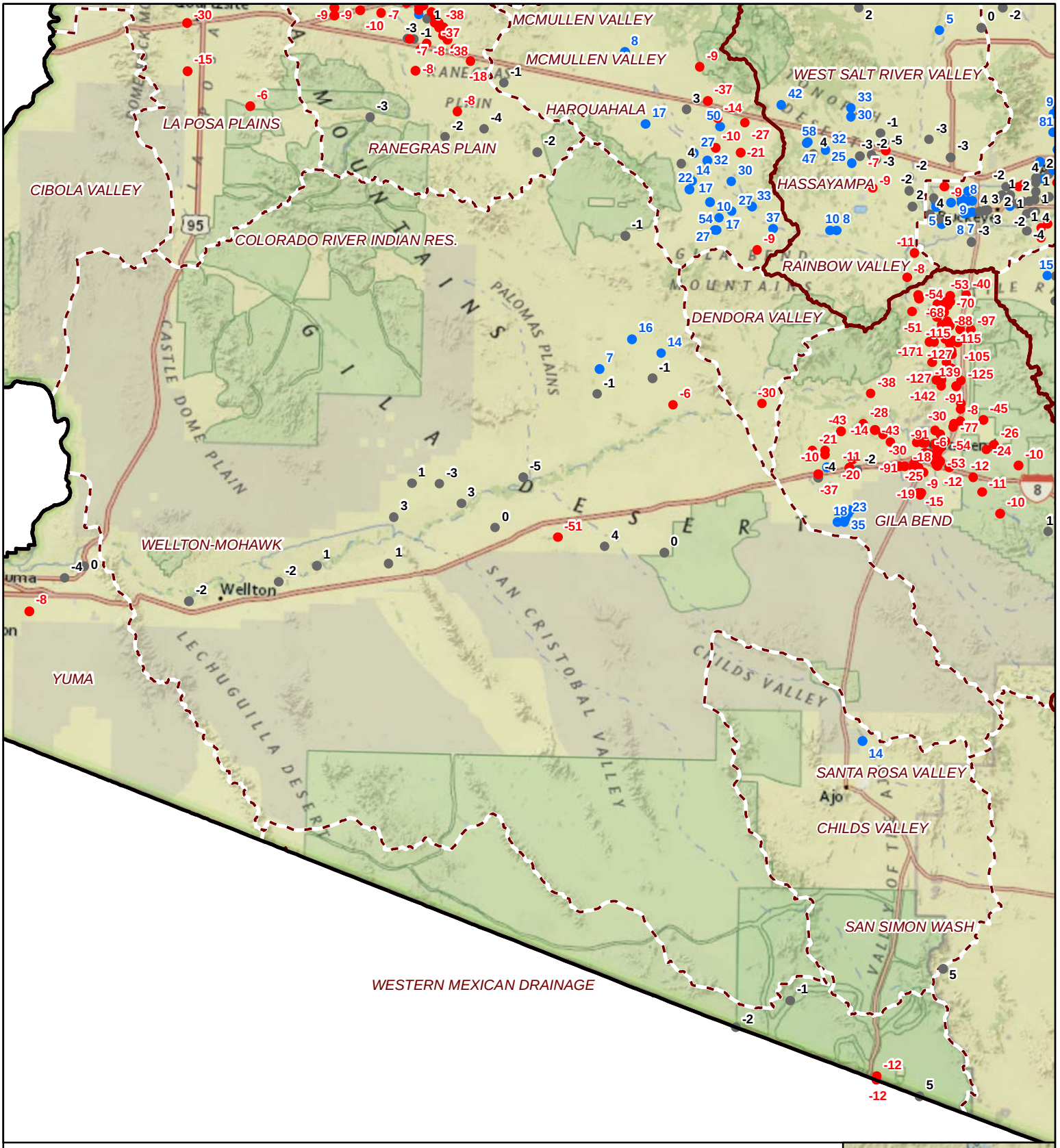
Basemap: National Geographic ESRI Basemap


BEAVER DAM MOUNTAINS
LIME HILLS
BLACK ROCK GULCH
SHIVWITS PLATEAU
MOKAAC MOUNTAIN
SULLIVANS CANYON
VIRGIN RIDGE
VIRGIN RIVER
LOW MOUNTAIN
PAIUTE
BLACK ROCK MOUNTAIN
WOLF HOLE MOUNTAIN
1955 m
POEUM COVE
WOLF HOLE VALLEY
GRAND WASH
HOBBLE CANYON
VIRGIN MOUNTAINS
Virgin River
quite
11
2
-2
45
Legend
Minor WL Change +5' to -5'
Negative
Positive
AMAs and Planning Areas
Sub-basin
State Boundary
Water Level Change Map
Late 1980s Early/Mid 1990s
to Mid/Late 2000s
VIRGIN RIVER
0 1 2 3 4 5
Miles
N
ARIZONA DEPARTMENT OF WATER RESOURCES
©
Basemap: National Geographic ESRI Basemap




## Legend

- Minor WL Change +5' to -5'
- Negative
- Positive
- AMAs and Planning Areas
- Sub-basin
- State Boundary

# Water Level Change Map
# Late 1980s Early/Mid 1990s to Mid/Late 2000s
# WELLTON-MOHAWK

0 6 12 18 24 30 Miles

N

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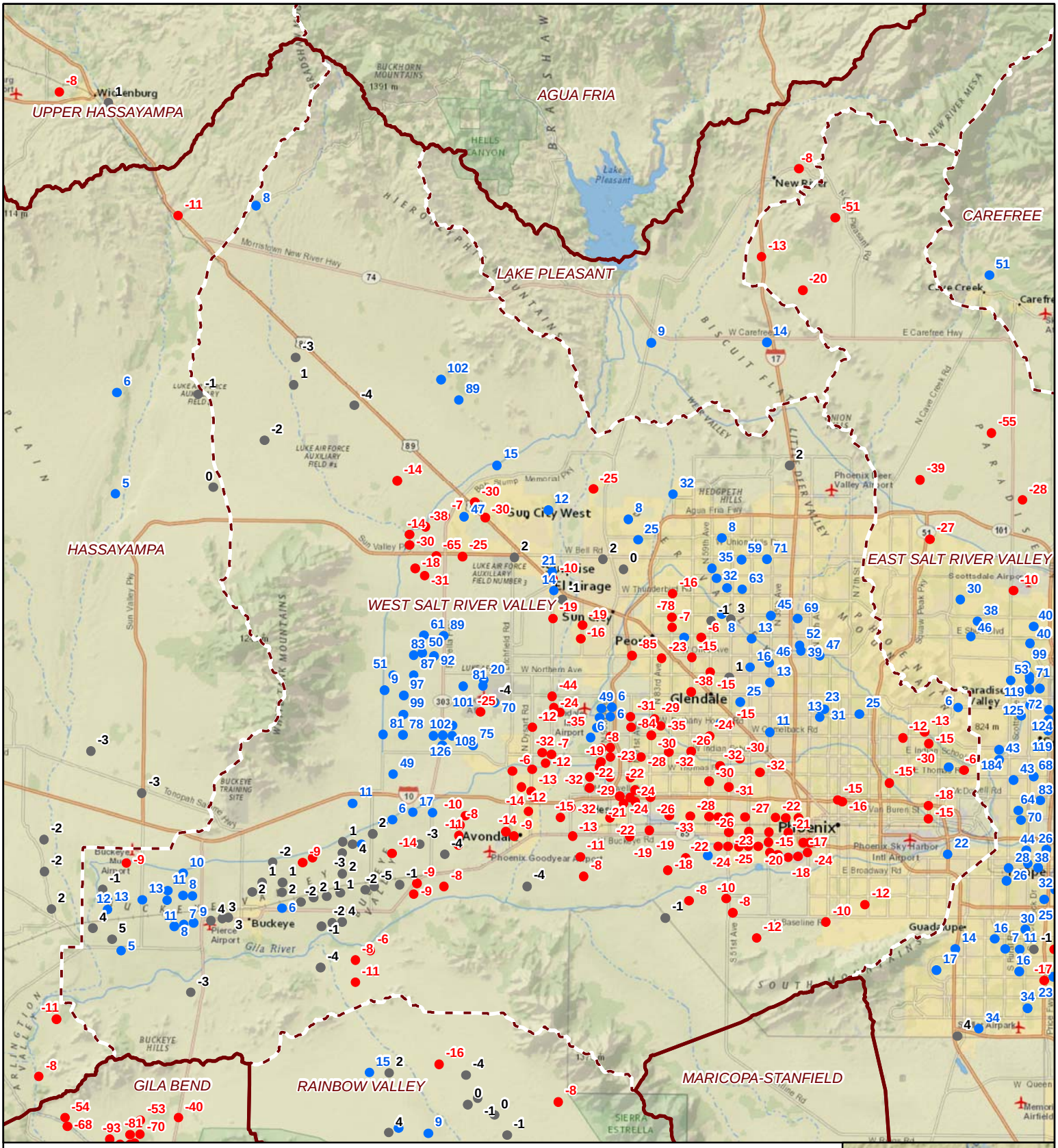
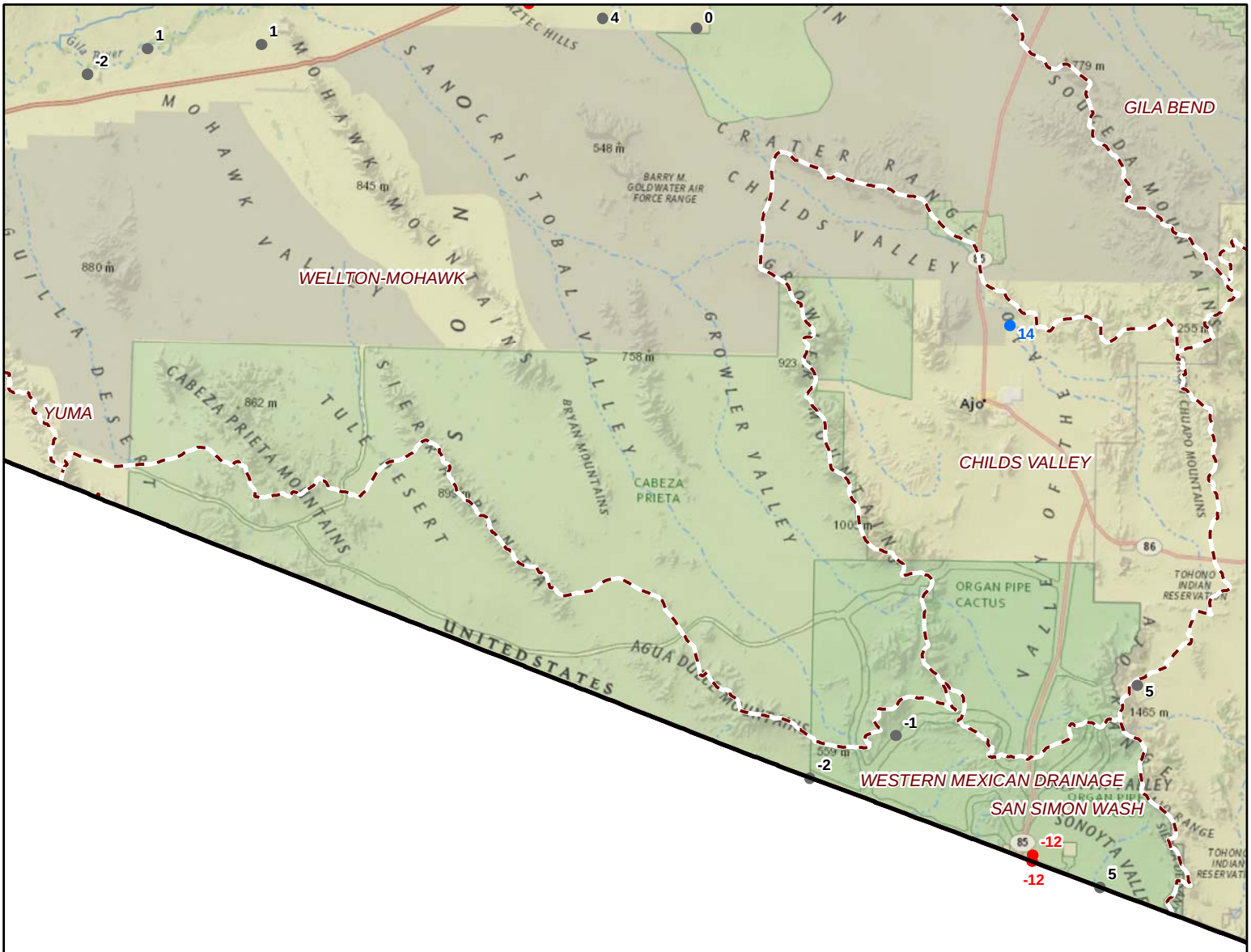
Basemap: National Geographic ESRI Basemap


UPPER HASSAYAMPA
AGUA FRIA
LAKE PLEASANT
CAREFREE
HASSAYAMPA
WEST SALT RIVER VALLEY
EAST SALT RIVER VALLEY
GILA BEND
RAINBOW VALLEY
MARICOPA-STANFIELD
Sun City West
Glendale
Phoenix
Avondale
Buckeye
Wickenburg
New River
Cave Creek
Carefree
Peoria
El Mirage
Sun City
Goodyear
Guadalupe
Paradise Valley
Scottsdale
Tonopah Summer Home
Morristown New River Hwy
Gila River
Phoenix Sky Harbor Intl Airport
Phoenix Goodyear Airport
Phoenix Deer Valley Airport
Pierce Airport
Buckeye Municipal Airport
Scottsdale Airport
Memorial Airfield
Legend
Minor WL Change +5' to -5'
Negative
Positive
AMAs and Planning Areas
Sub-basin
State Boundary
Water Level Change Map
Late 1980s Early/Mid 1990s
to Mid/Late 2000s
WEST SALT RIVER VALLEY
N
0 2.5 5 7.5 10 12.5
Miles
ARIZONA DEPARTMENT OF WATER RESOURCES
©
Basemap: National Geographic ESRI Basemap




## Legend

- Minor WL Change +5' to -5'
- Negative
- Positive
- AMAs and Planning Areas
- Sub-basin
- State Boundary

# Water Level Change Map
# Late 1980s Early/Mid 1990s to Mid/Late 2000s
# WESTERN MEXICAN DRAINAGE

0 4.5 9 13.5 18 22.5 Miles

N

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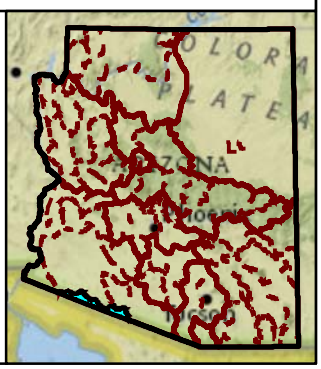
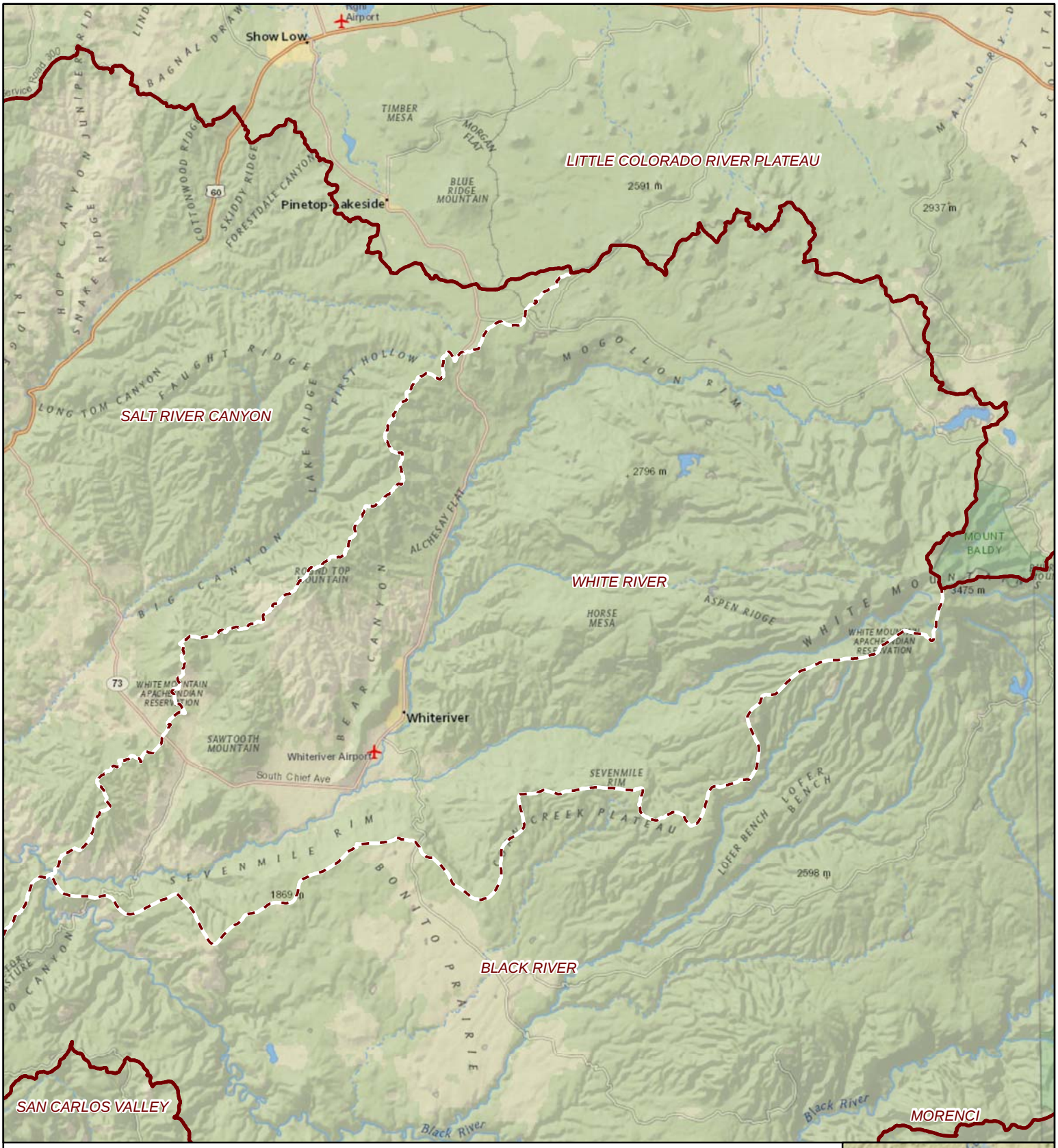
Basemap: National Geographic ESRI Basemap






## Legend

- Minor WL Change +5' to -5'
- Negative
- Positive
- AMAs and Planning Areas
- Sub-basin
- State Boundary

# Water Level Change Map
# Late 1980s Early/Mid 1990s to Mid/Late 2000s
# WHITE RIVER

0 2 4 6 8 10 Miles

N

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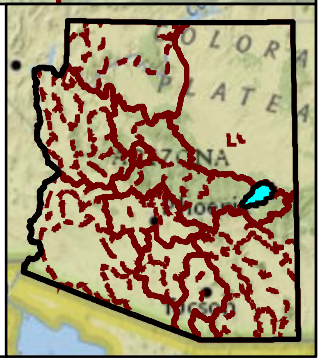
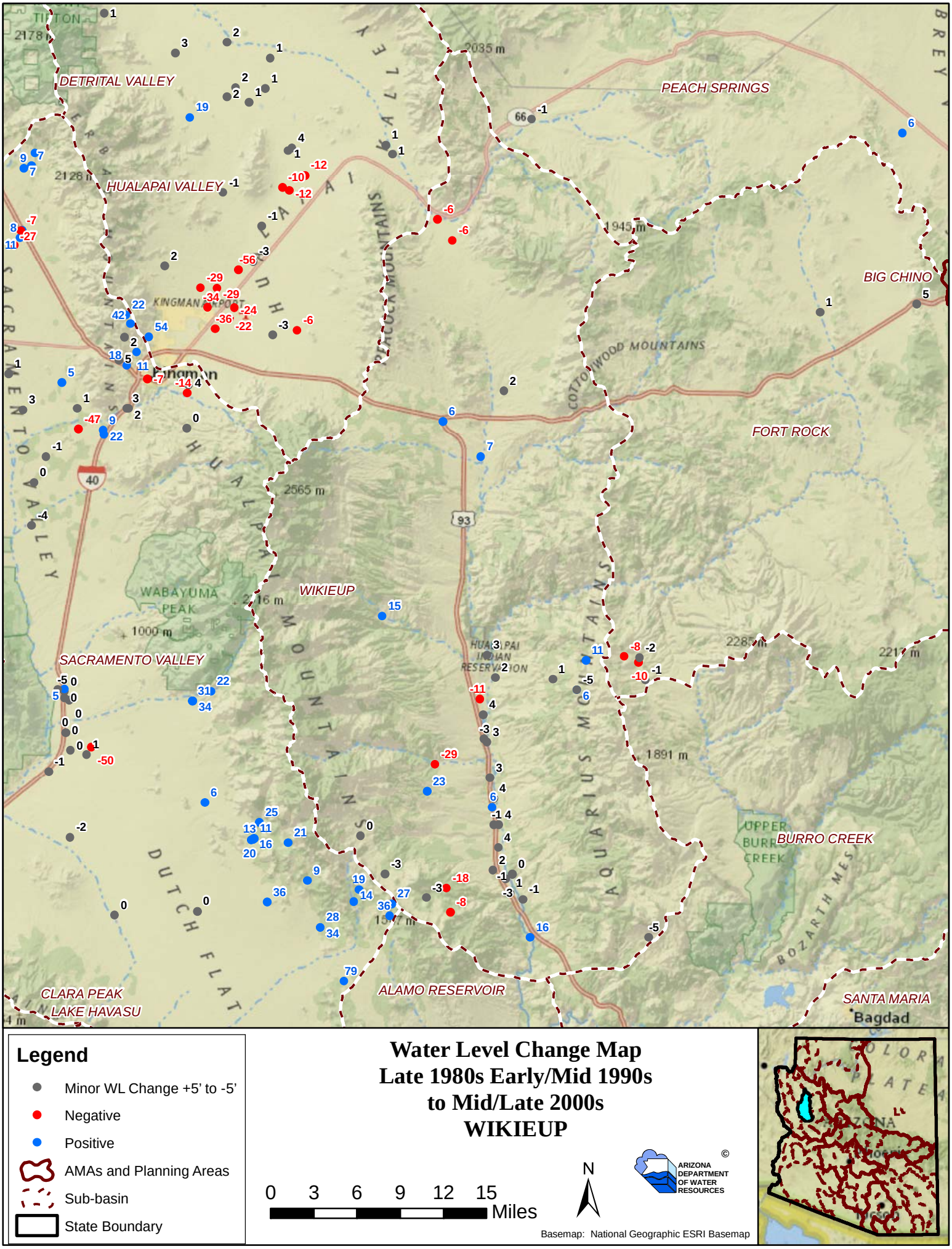
Basemap: National Geographic ESRI Basemap






## Legend

- Minor WL Change +5' to -5'
- Negative
- Positive
- AMAs and Planning Areas
- Sub-basin
- State Boundary

# Water Level Change Map
# Late 1980s Early/Mid 1990s to Mid/Late 2000s
# WIKIEUP

0 3 6 9 12 15 Miles

N

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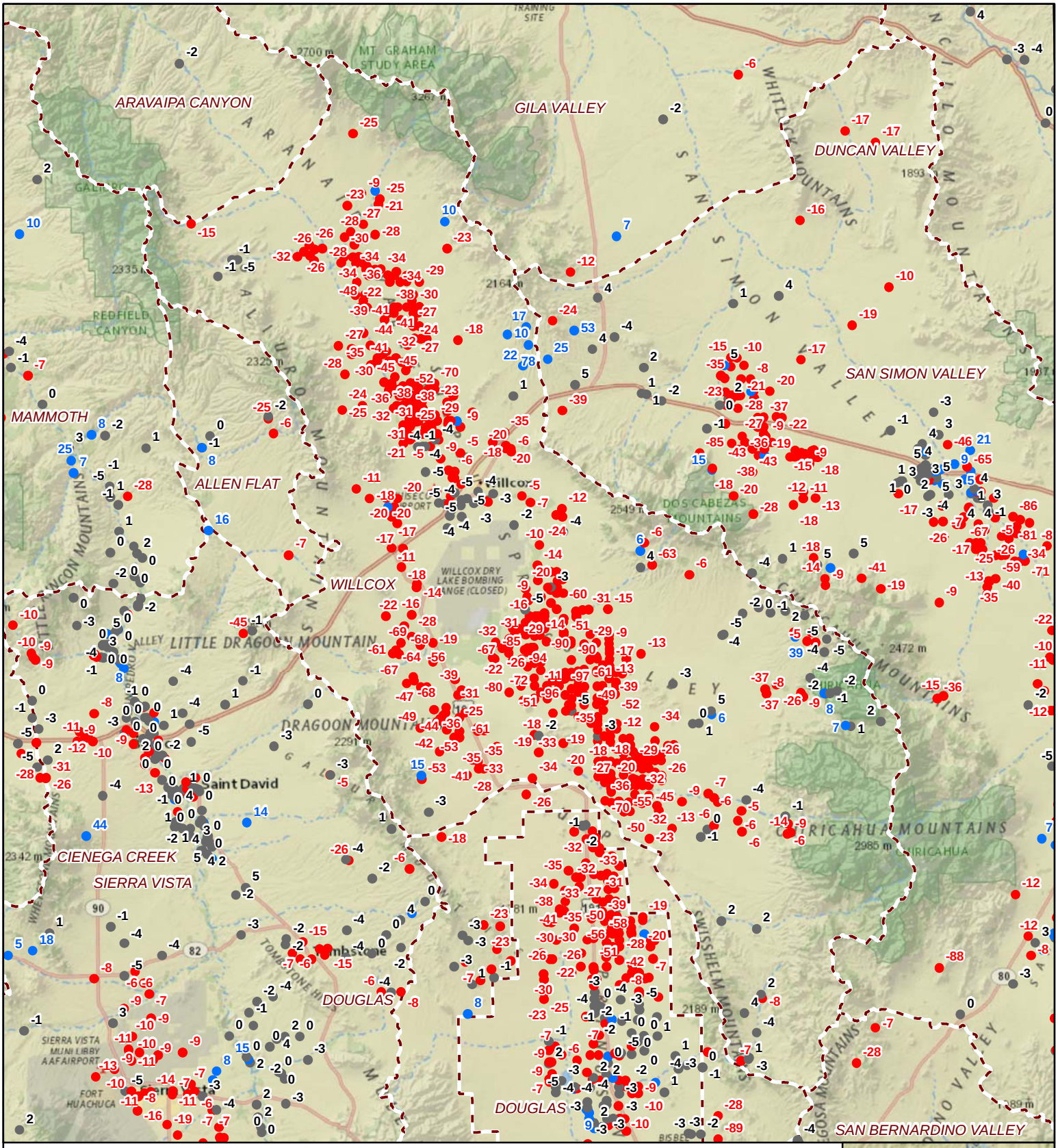
Basemap: National Geographic ESRI Basemap




## Legend

- Minor WL Change +5' to -5'
- Negative
- Positive
- AMAs and Planning Areas
- Sub-basin
- State Boundary

# Water Level Change Map
# Late 1980s Early/Mid 1990s to Mid/Late 2000s
# WILLCOX

0 4 8 12 16 20 Miles

N

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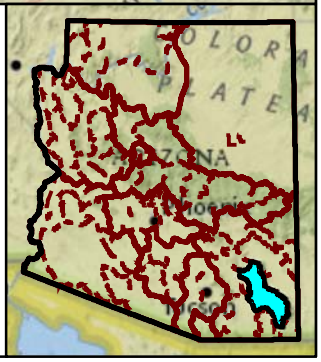
Basemap: National Geographic ESRI Basemap



## Legend

- Minor WL Change +5' to -5'
- Negative
- Positive
- AMAs and Planning Areas
- Sub-basin
- State Boundary

# Water Level Change Map
# Late 1980s Early/Mid 1990s to Mid/Late 2000s
# YUMA

0 2.5 5 7.5 10 12.5 Miles

N

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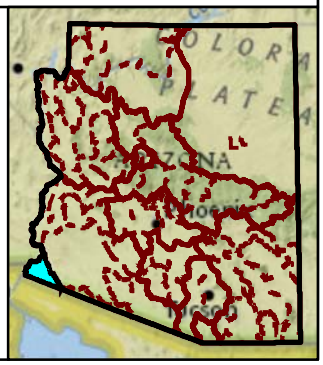
Basemap: National Geographic ESRI Basemap