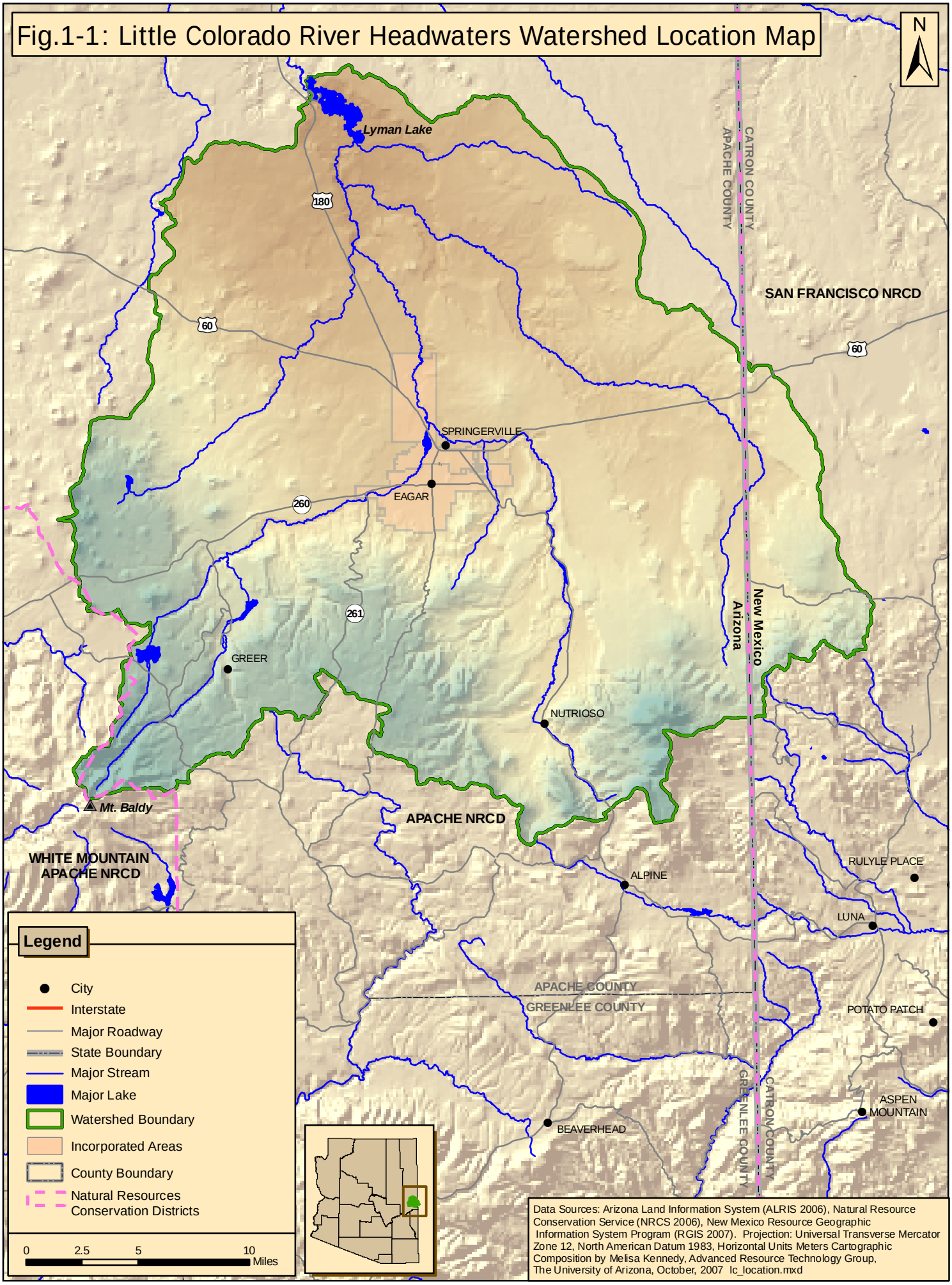


Fig.1-1: Little Colorado River Headwaters Watershed Location Map
N
Lyman Lake
180
60
SAN FRANCISCO NRCD
CATRON COUNTY
APACHE COUNTY
SPRINGERVILLE
EAGAR
260
261
GREER
NUTRIOSO
New Mexico
Arizona
Mt. Baldy
APACHE NRCD
WHITE MOUNTAIN
APACHE NRCD
ALPINE
RULYLE PLACE
LUNA
APACHE COUNTY
GREENLEE COUNTY
POTATO PATCH
ASPEN
MOUNTAIN
BEAVERHEAD
GREENLEE COUNTY
CATRON COUNTY
Legend
City
Interstate
Major Roadway
State Boundary
Major Stream
Major Lake
Watershed Boundary
Incorporated Areas
County Boundary
Natural Resources
Conservation Districts
0
2.5
5
10
Miles
Data Sources: Arizona Land Information System (ALRIS 2006), Natural Resource Conservation Service (NRCS 2006), New Mexico Resource Geographic Information System Program (RGIS 2007). Projection: Universal Transverse Mercator Zone 12, North American Datum 1983, Horizontal Units Meters Cartographic Composition by Melisa Kennedy, Advanced Resource Technology Group, The University of Arizona, October, 2007 lc_location.mxd

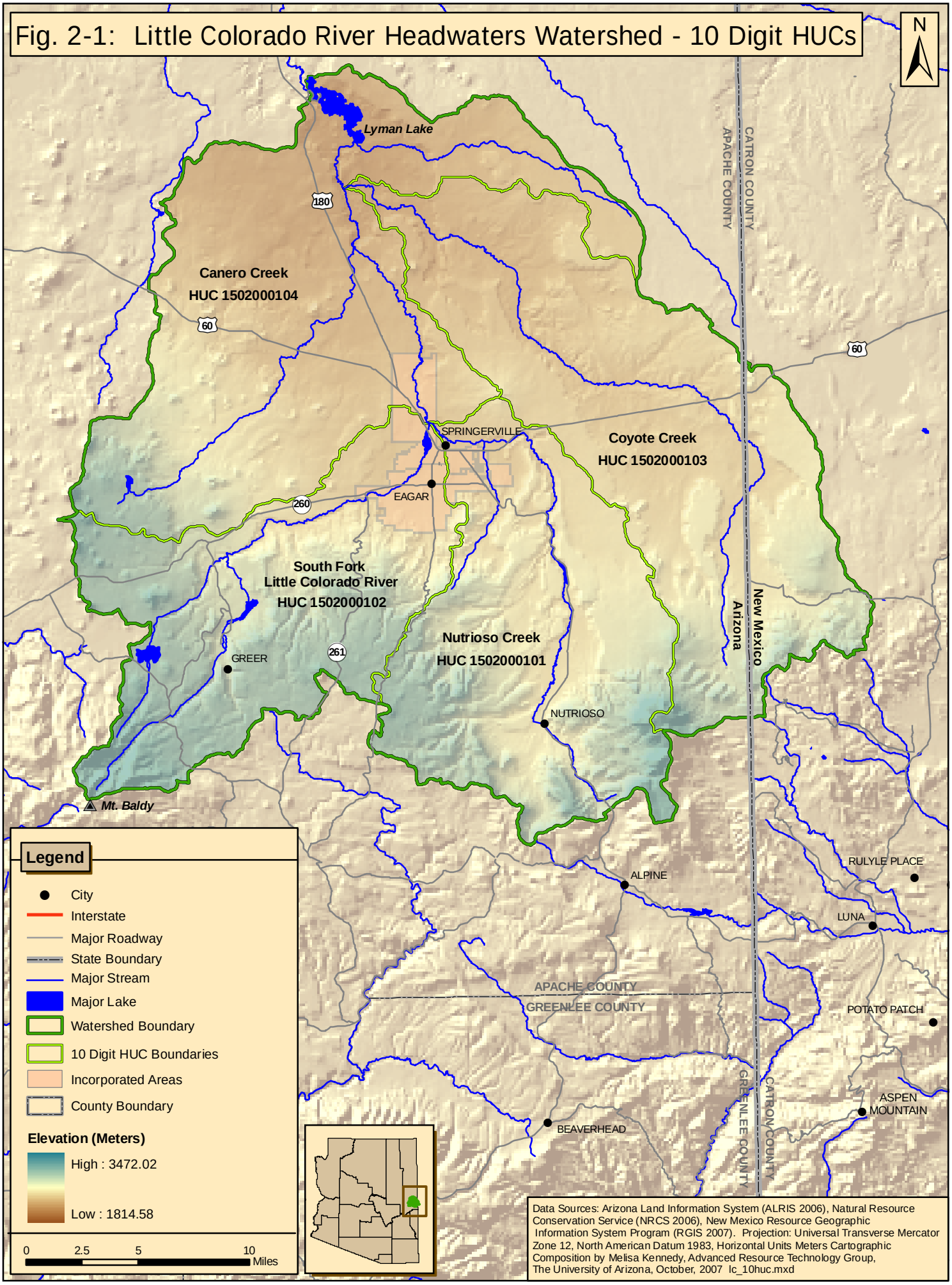
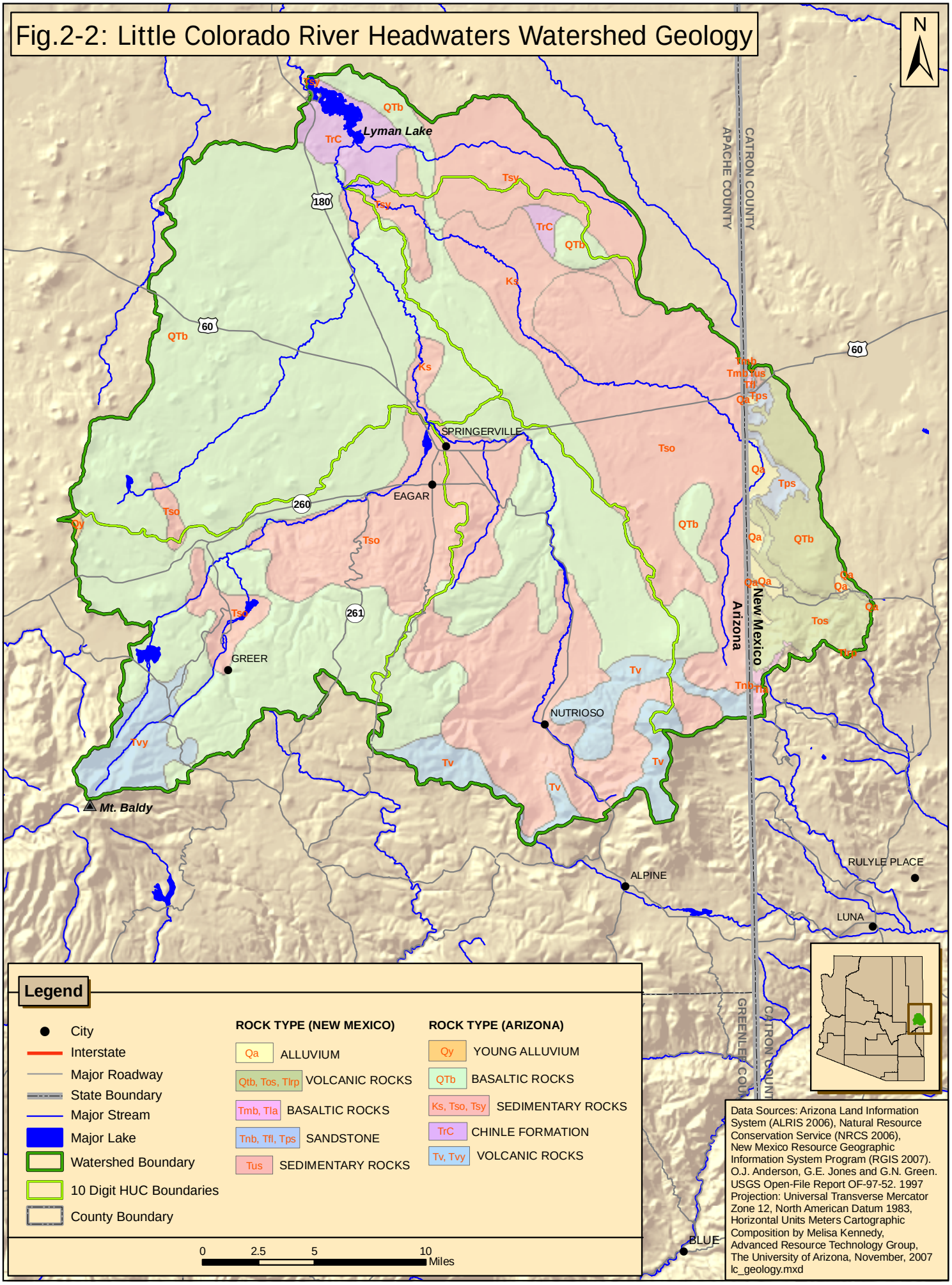


Fig. 2-1: Little Colorado River Headwaters Watershed - 10 Digit HUCs
N
Lyman Lake
Canero Creek
HUC 1502000104
Coyote Creek
HUC 1502000103
South Fork
Little Colorado River
HUC 1502000102
Nutrioso Creek
HUC 1502000101
SPRINGERVILLE
EAGAR
GREER
NUTRIOSO
ALPINE
BEAVERHEAD
RULYLE PLACE
LUNA
POTATO PATCH
ASPEN MOUNTAIN
Mt. Baldy
180
60
260
261
APACHE COUNTY
CATRON COUNTY
GREENLEE COUNTY
Arizona
New Mexico
Legend
City
Interstate
Major Roadway
State Boundary
Major Stream
Major Lake
Watershed Boundary
10 Digit HUC Boundaries
Incorporated Areas
County Boundary
Elevation (Meters)
High : 3472.02
Low : 1814.58
0
2.5
5
10
Miles
Data Sources: Arizona Land Information System (ALRIS 2006), Natural Resource Conservation Service (NRCS 2006), New Mexico Resource Geographic Information System Program (RGIS 2007). Projection: Universal Transverse Mercator Zone 12, North American Datum 1983, Horizontal Units Meters Cartographic Composition by Melisa Kennedy, Advanced Resource Technology Group, The University of Arizona, October, 2007 lc_10huc.mxd

Fig.2-2: Little Colorado River Headwaters Watershed Geology



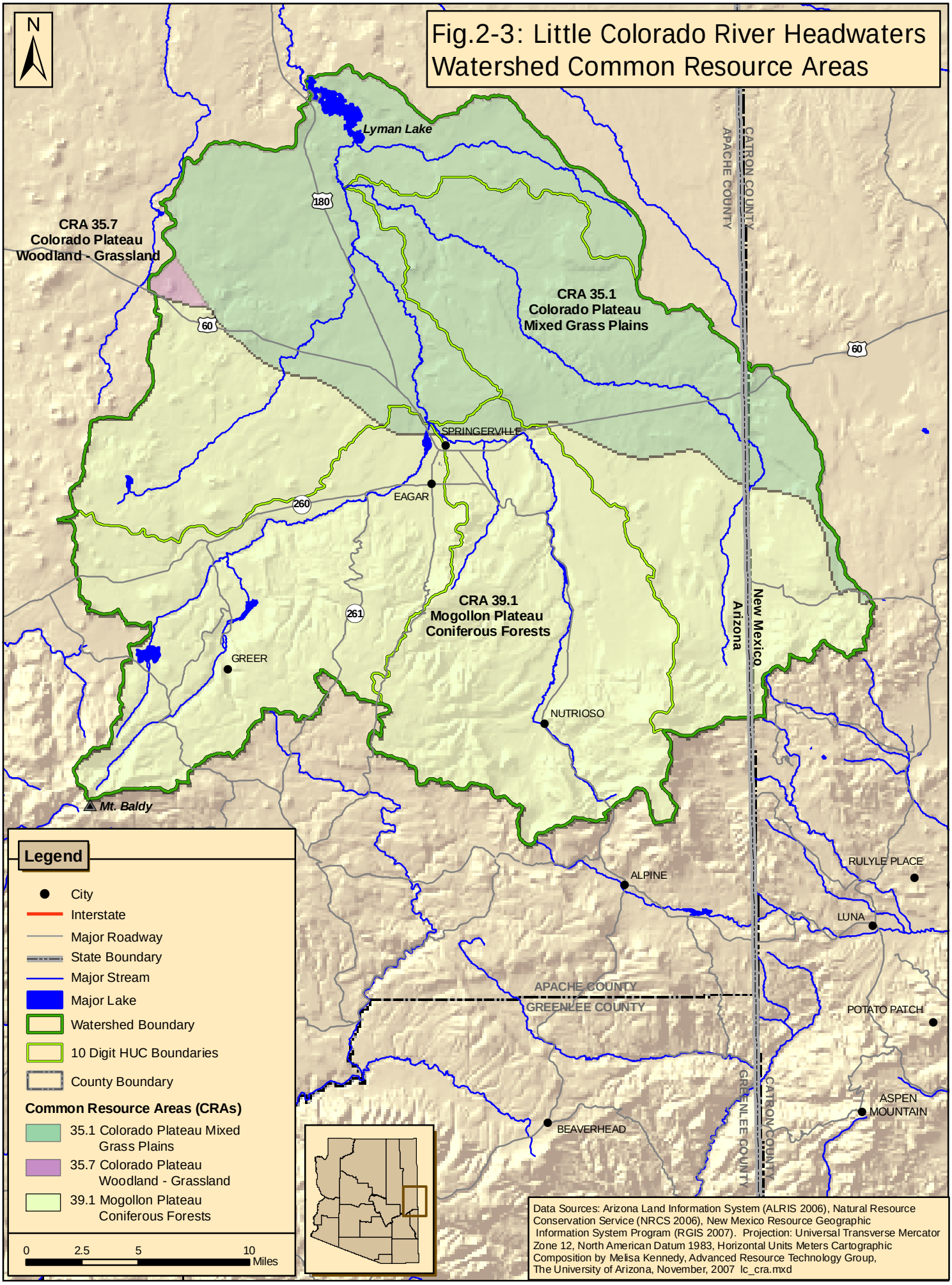


Fig.2-3: Little Colorado River Headwaters Watershed Common Resource Areas
N
Lyman Lake
CRA 35.7
Colorado Plateau
Woodland - Grassland
CRA 35.1
Colorado Plateau
Mixed Grass Plains
CRA 39.1
Mogollon Plateau
Coniferous Forests
SPRINGERVILLE
EAGAR
GREER
NUTRIOSO
ALPINE
RULYLE PLACE
LUNA
POTATO PATCH
ASPEN MOUNTAIN
BEAVERHEAD
Mt. Baldy
180
60
260
261
APACHE COUNTY
CATRON COUNTY
GREENLEE COUNTY
New Mexico
Arizona
Legend
City
Interstate
Major Roadway
State Boundary
Major Stream
Major Lake
Watershed Boundary
10 Digit HUC Boundaries
County Boundary
Common Resource Areas (CRAs)
35.1 Colorado Plateau Mixed Grass Plains
35.7 Colorado Plateau Woodland - Grassland
39.1 Mogollon Plateau Coniferous Forests
0 2.5 5 10 Miles
Data Sources: Arizona Land Information System (ALRIS 2006), Natural Resource Conservation Service (NRCS 2006), New Mexico Resource Geographic Information System Program (RGIS 2007). Projection: Universal Transverse Mercator Zone 12, North American Datum 1983, Horizontal Units Meters Cartographic Composition by Melisa Kennedy, Advanced Resource Technology Group, The University of Arizona, November, 2007 lc_cra.mxd

Fig. 2-4: Little Colorado River Headwaters Watershed Slope Classifications

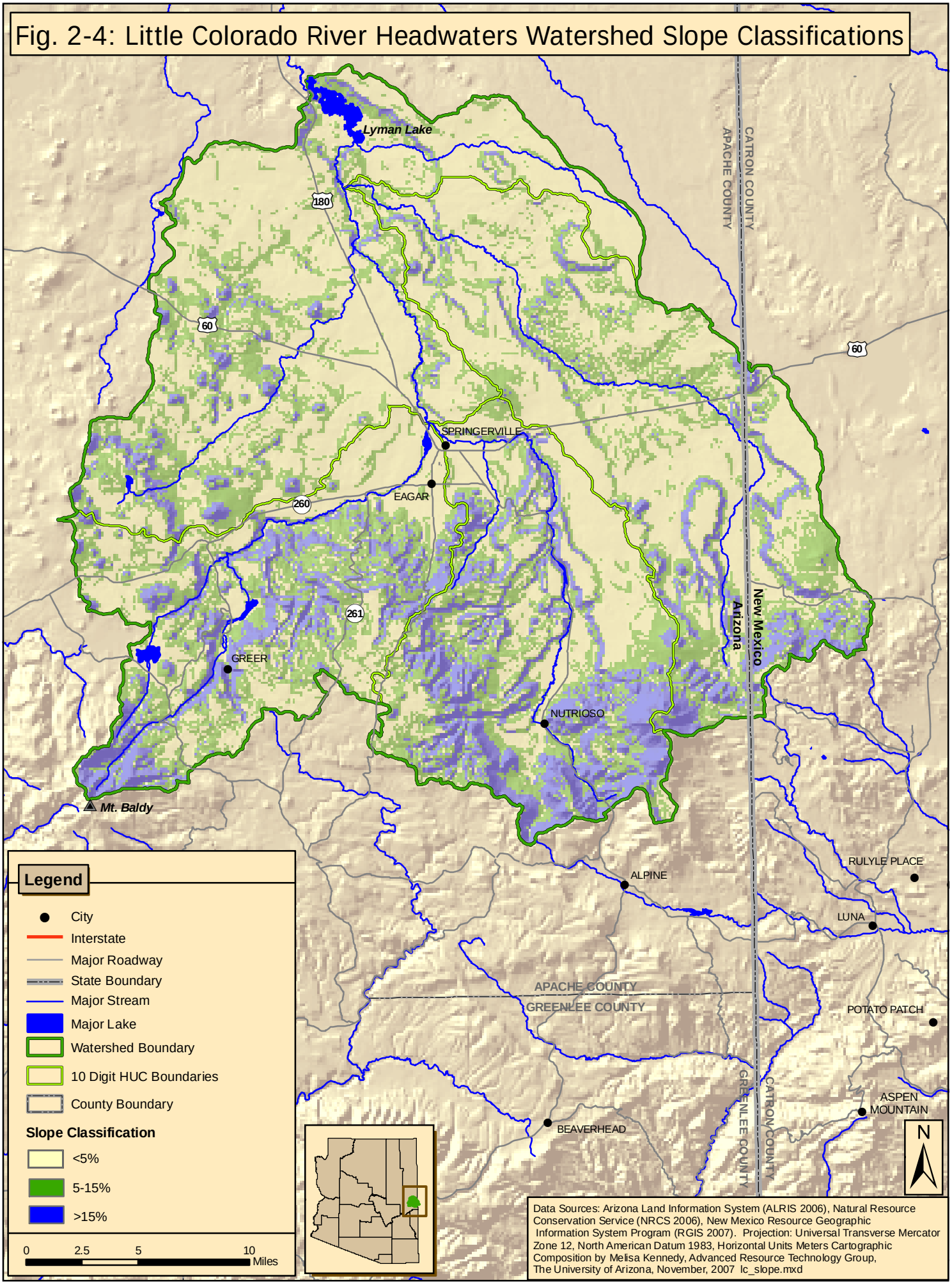


Fig.2-5: Little Colorado River Headwaters Watershed Streams, Canals, Lakes, and Gaging Stations

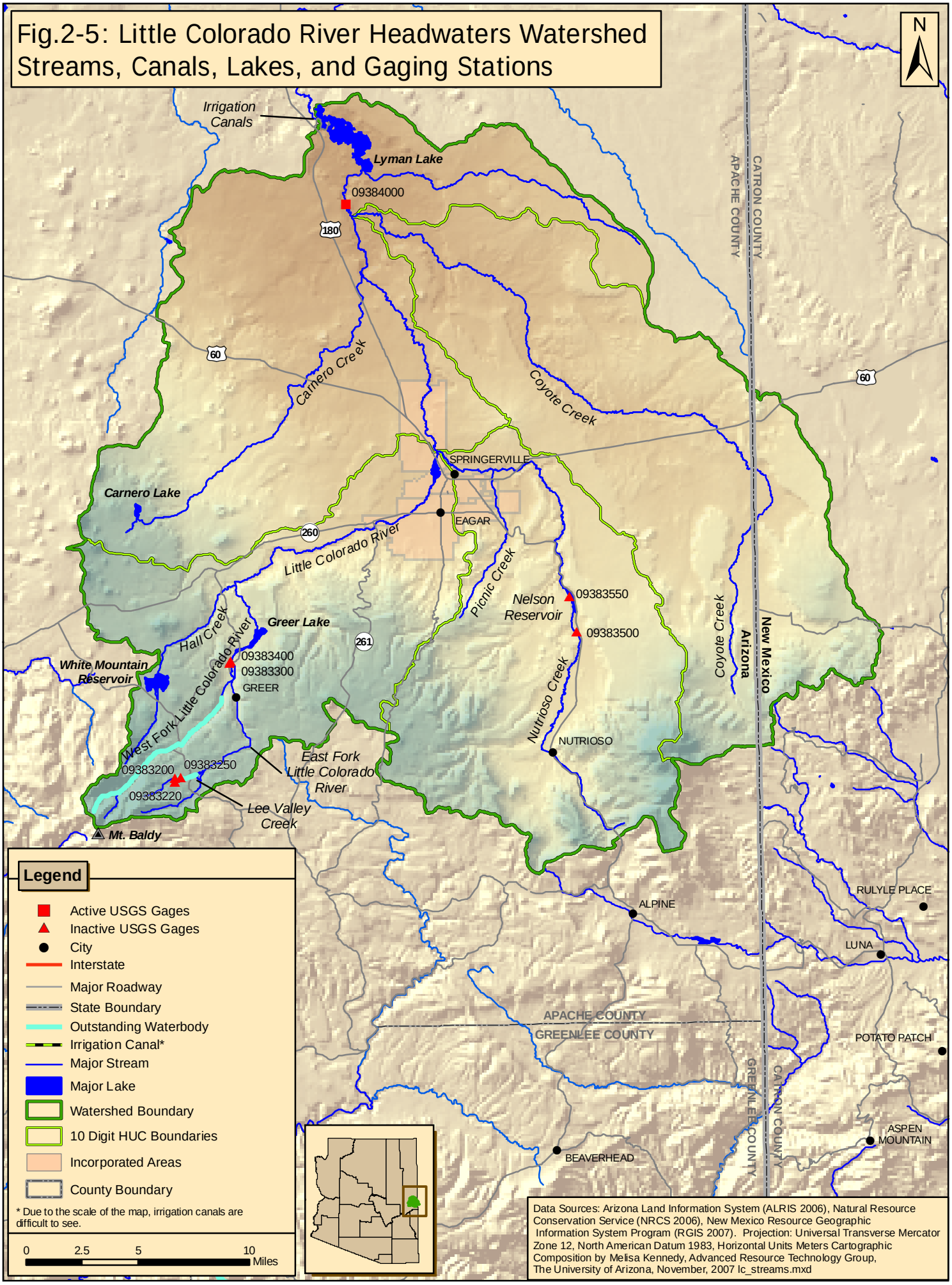
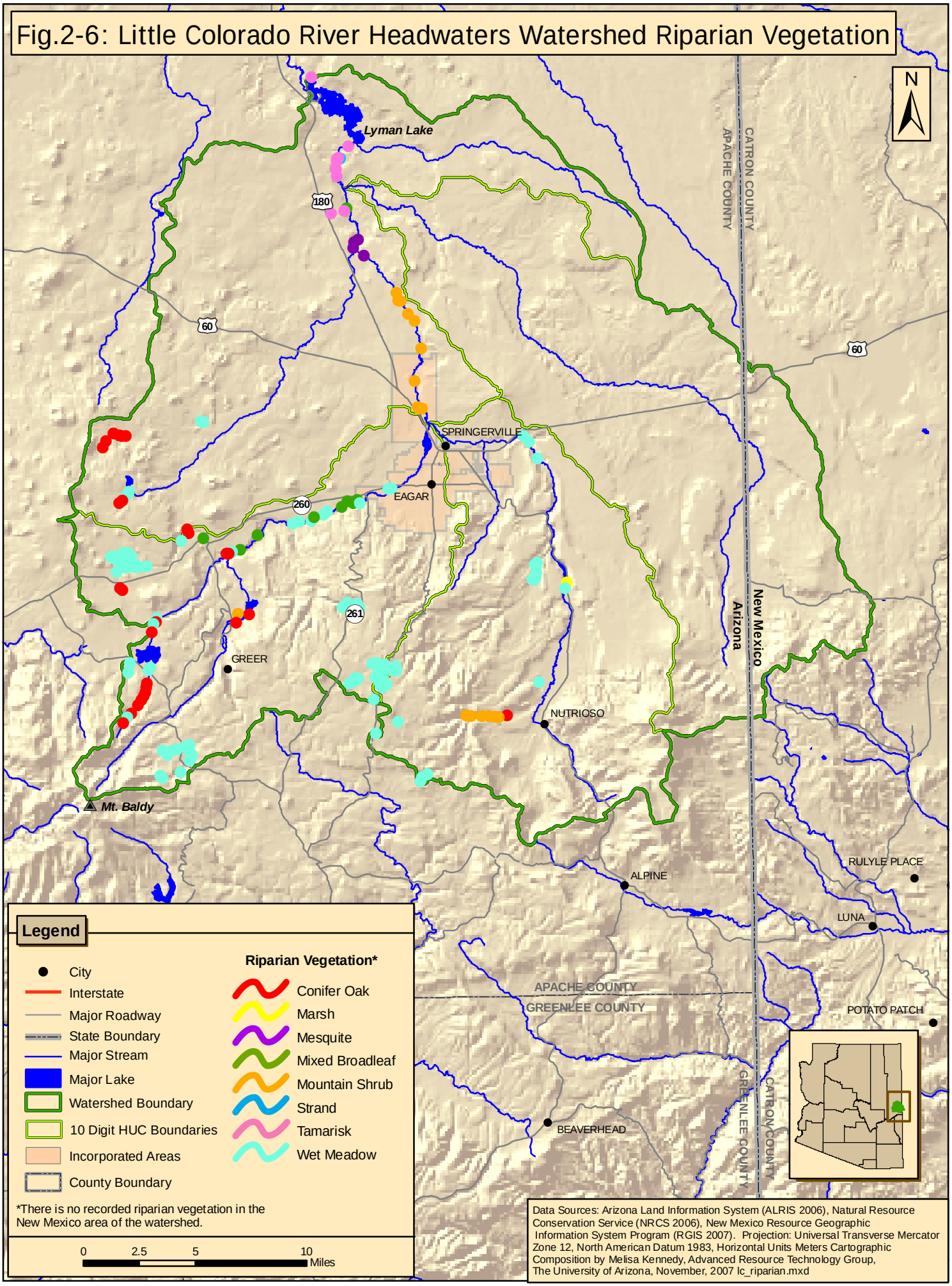


Fig.2-6: Little Colorado River Headwaters Watershed Riparian Vegetation



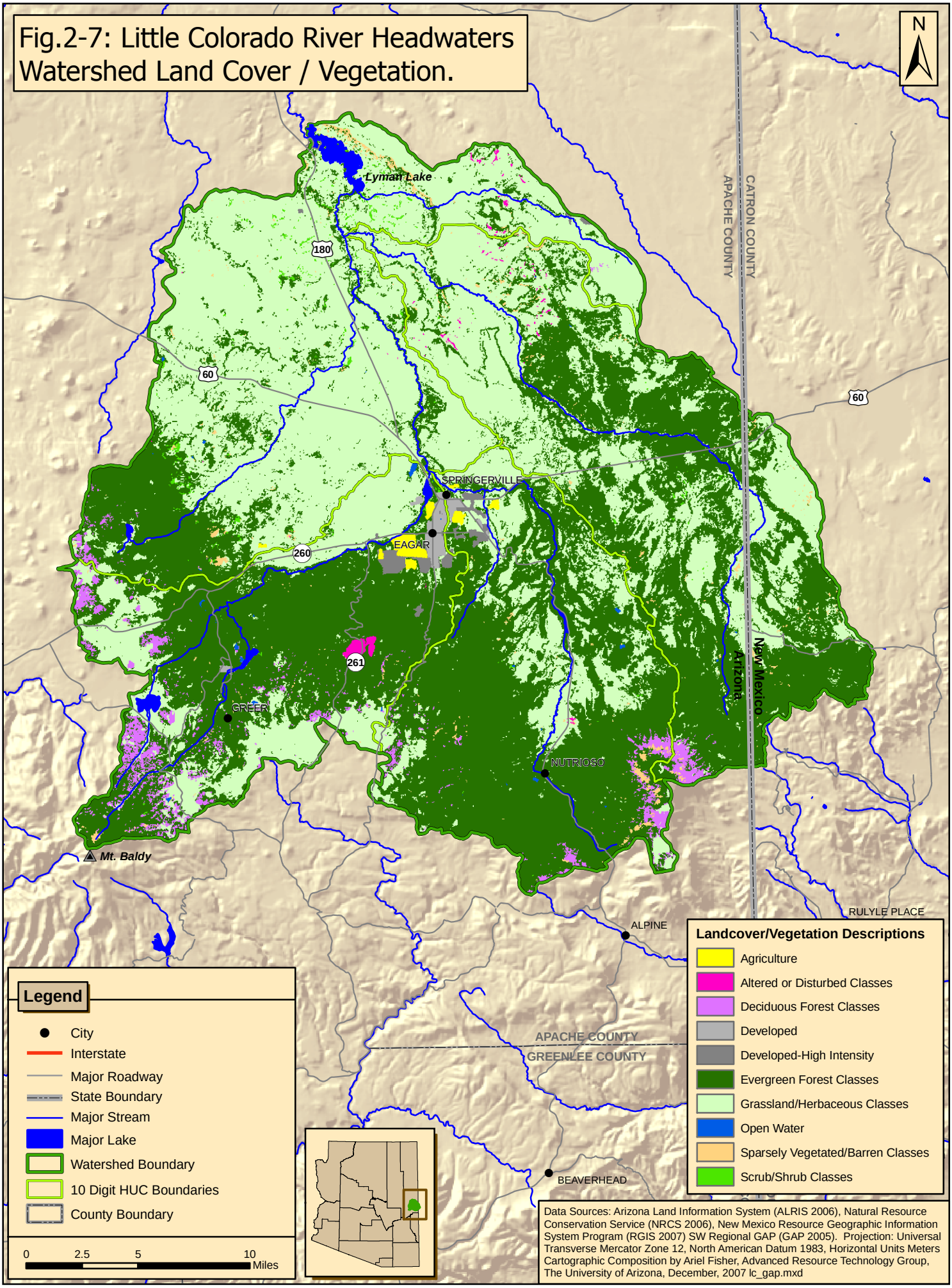


Fig.2-7: Little Colorado River Headwaters Watershed Land Cover / Vegetation.
N
Lyman Lake
180
60
SPRINGERVILLE
EAGAR
260
261
GREER
NUTRIOSO
Mt. Baldy
APACHE COUNTY
CATRON COUNTY
Arizona
New Mexico
ALPINE
RULYLE PLACE
APACHE COUNTY
GREENLEE COUNTY
BEAVERHEAD
Legend
City
Interstate
Major Roadway
State Boundary
Major Stream
Major Lake
Watershed Boundary
10 Digit HUC Boundaries
County Boundary
0
2.5
5
10
Miles
Landcover/Vegetation Descriptions
Agriculture
Altered or Disturbed Classes
Deciduous Forest Classes
Developed
Developed-High Intensity
Evergreen Forest Classes
Grassland/Herbaceous Classes
Open Water
Sparsely Vegetated/Barren Classes
Scrub/Shrub Classes
Data Sources: Arizona Land Information System (ALRIS 2006), Natural Resource Conservation Service (NRCS 2006), New Mexico Resource Geographic Information System Program (RGIS 2007) SW Regional GAP (GAP 2005). Projection: Universal Transverse Mercator Zone 12, North American Datum 1983, Horizontal Units Meters Cartographic Composition by Ariel Fisher, Advanced Resource Technology Group, The University of Arizona, December, 2007 lc_gap.mxd

Fig.2-8: Little Colorado River Headwaters Watershed Annual Precipitation and Meteorological Stations

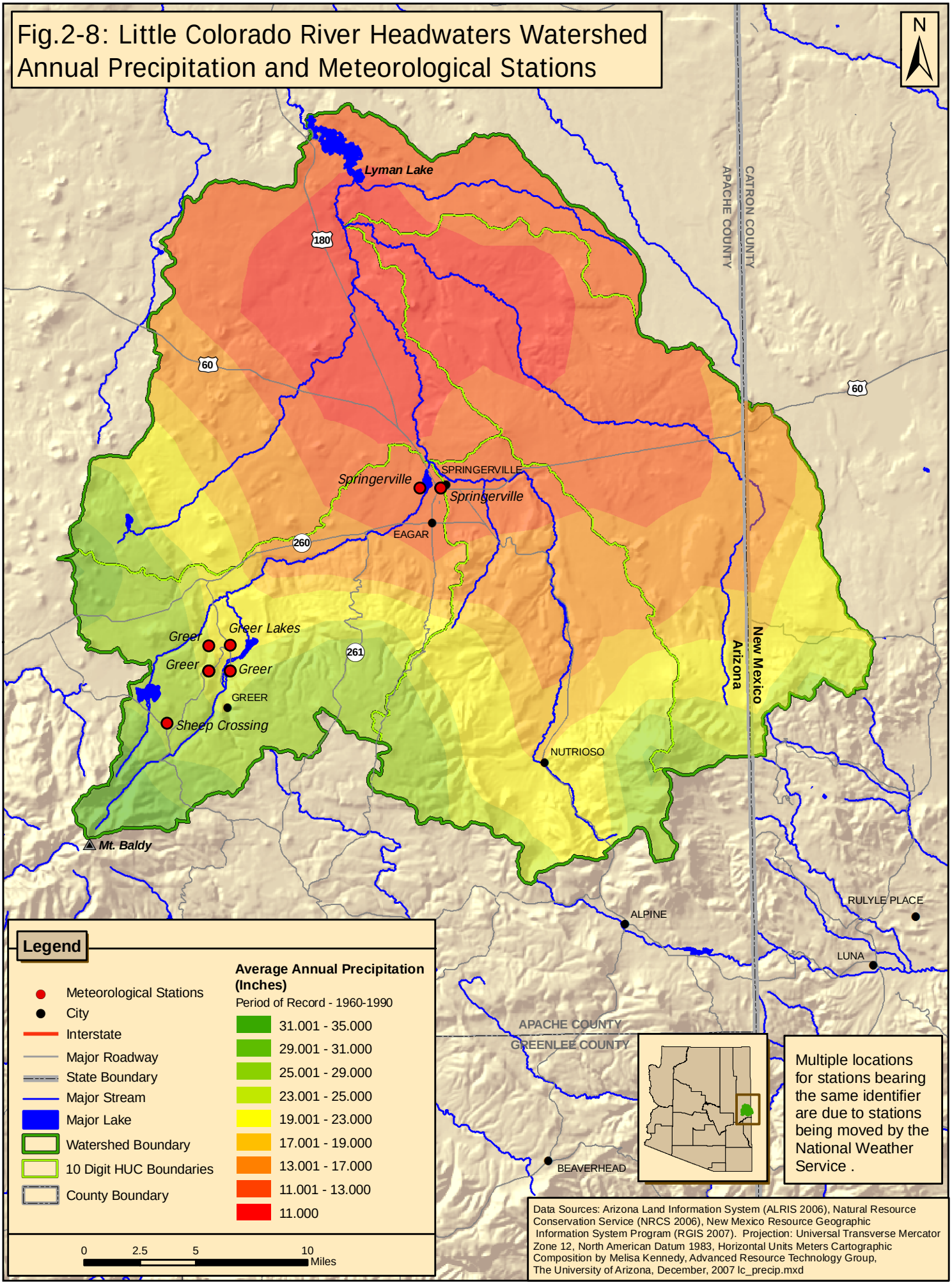
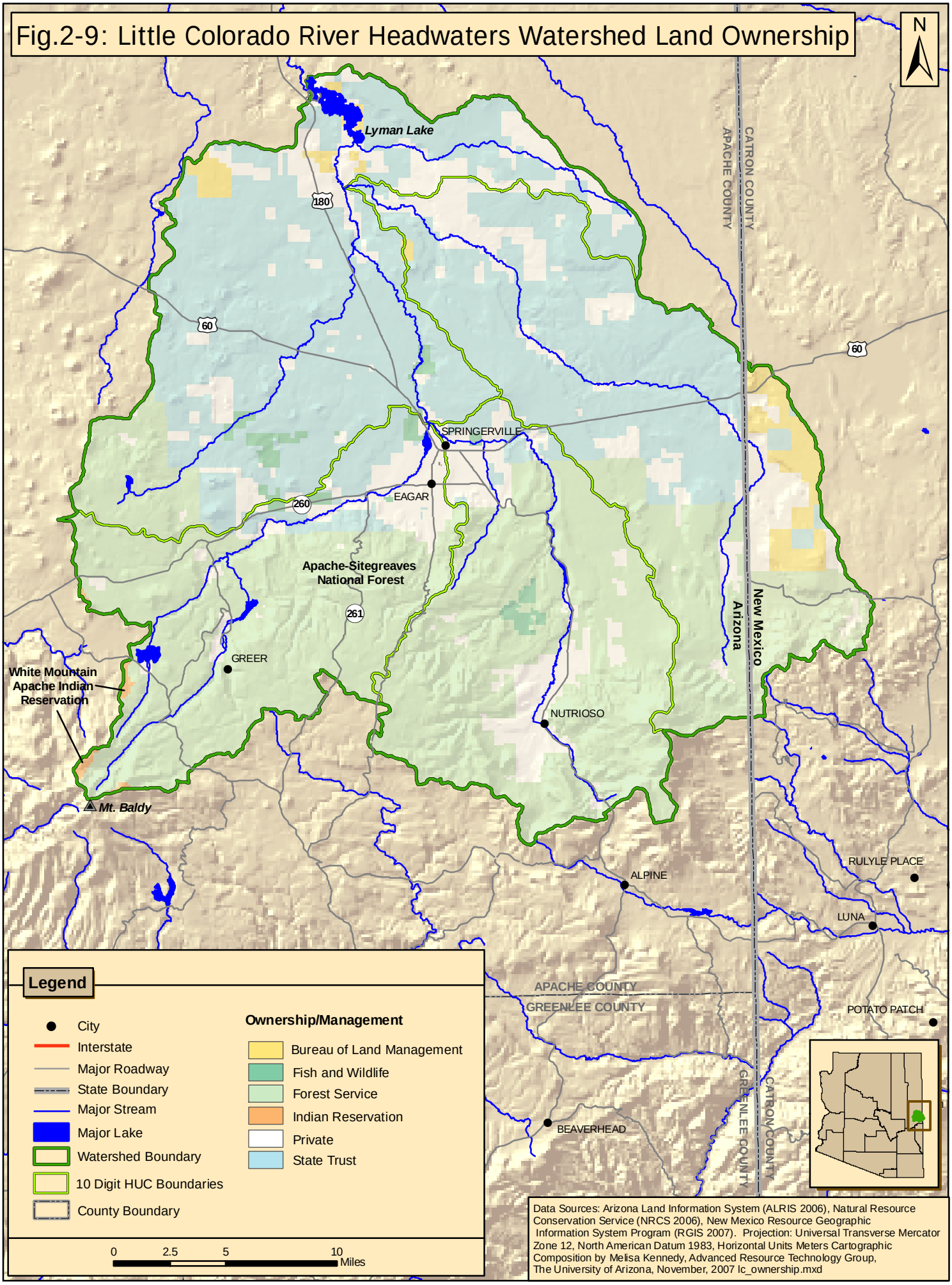
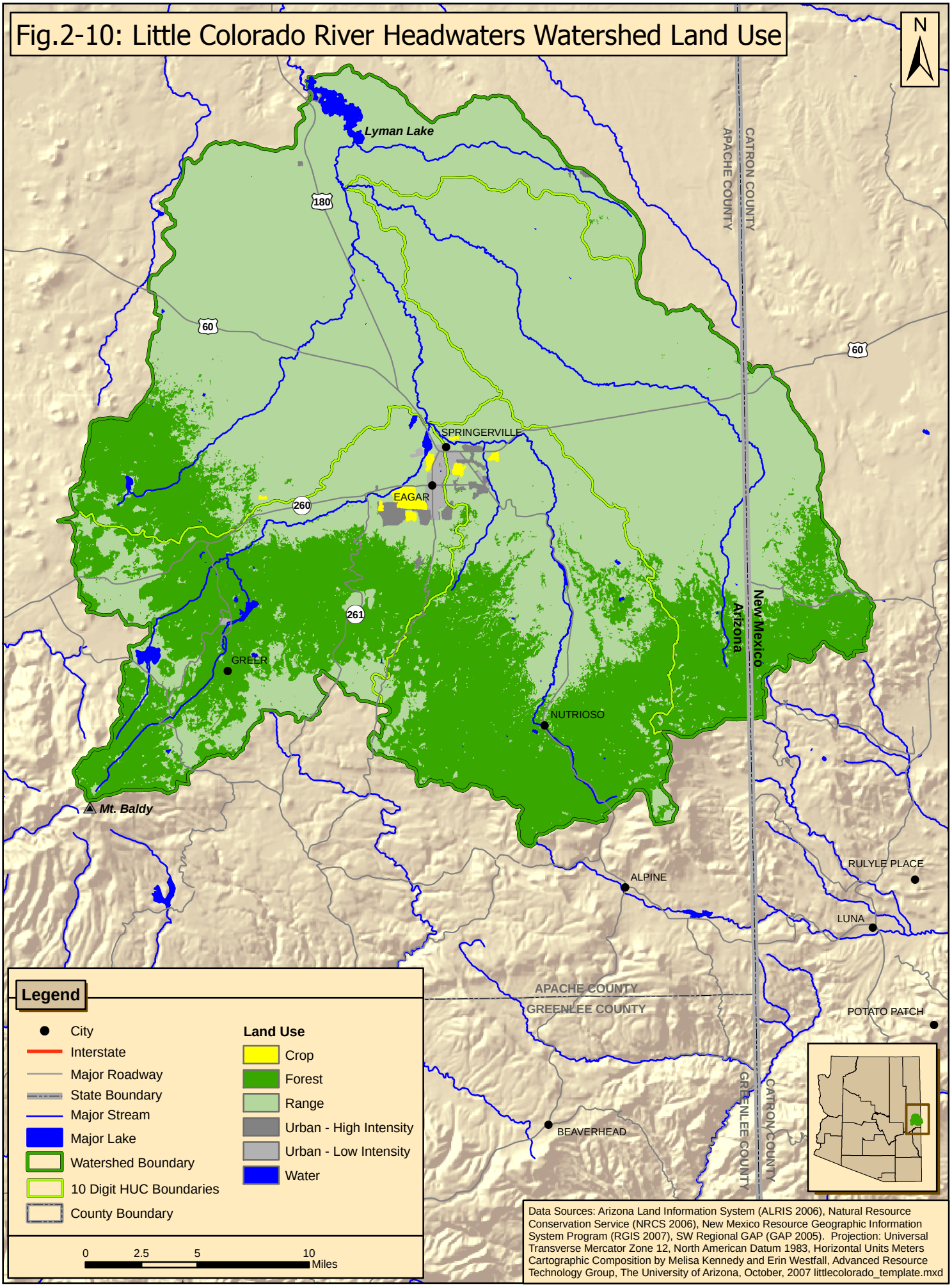


Fig.2-9: Little Colorado River Headwaters Watershed Land Ownership



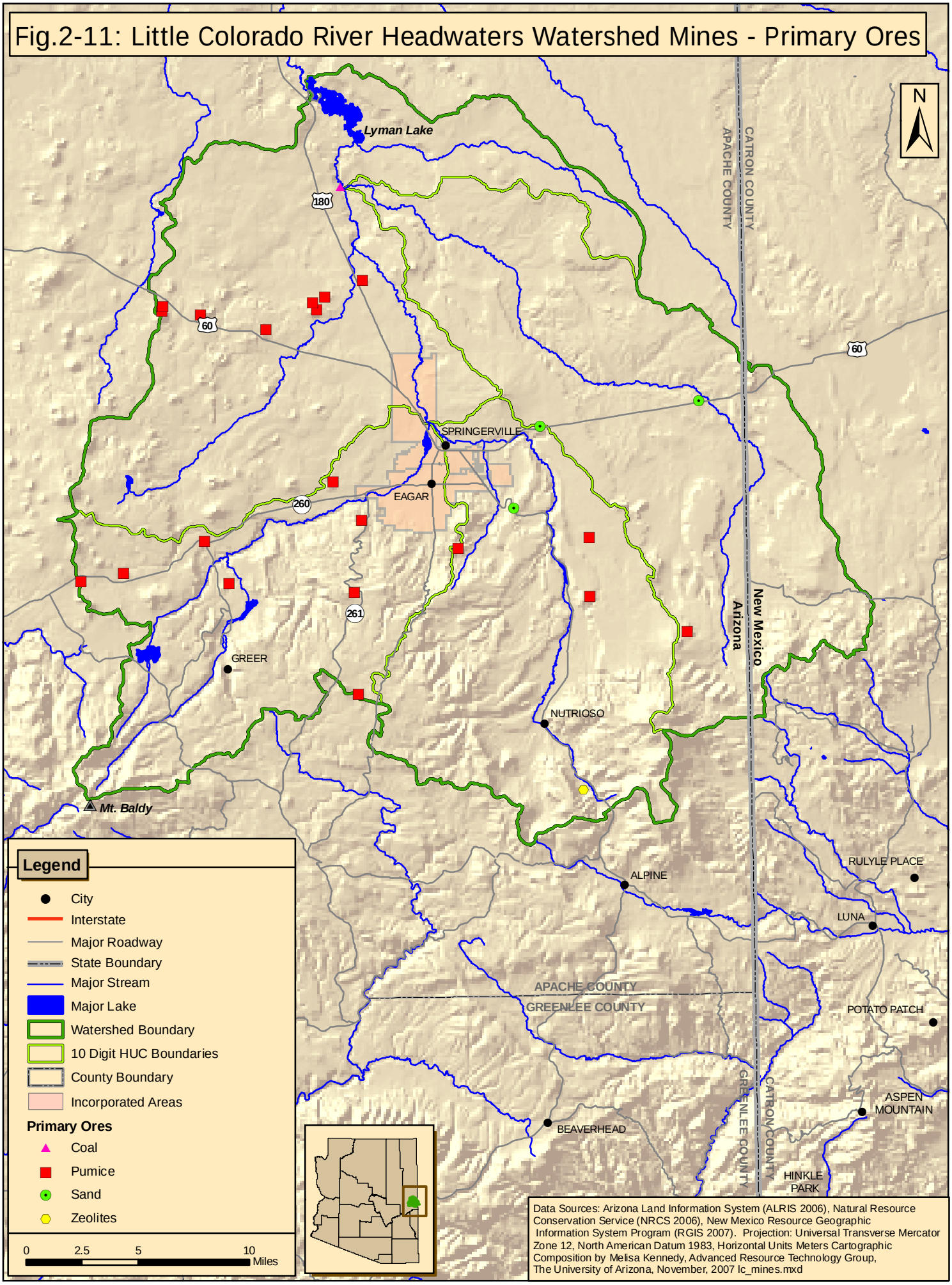
Data Sources: Arizona Land Information System (ALRIS 2006), Natural Resource Conservation Service (NRCS 2006), New Mexico Resource Geographic Information System Program (RGIS 2007). Projection: Universal Transverse Mercator Zone 12, North American Datum 1983, Horizontal Units Meters Cartographic Composition by Melisa Kennedy, Advanced Resource Technology Group, The University of Arizona, November, 2007 lc_ownership.mxd

Fig.2-10: Little Colorado River Headwaters Watershed Land Use



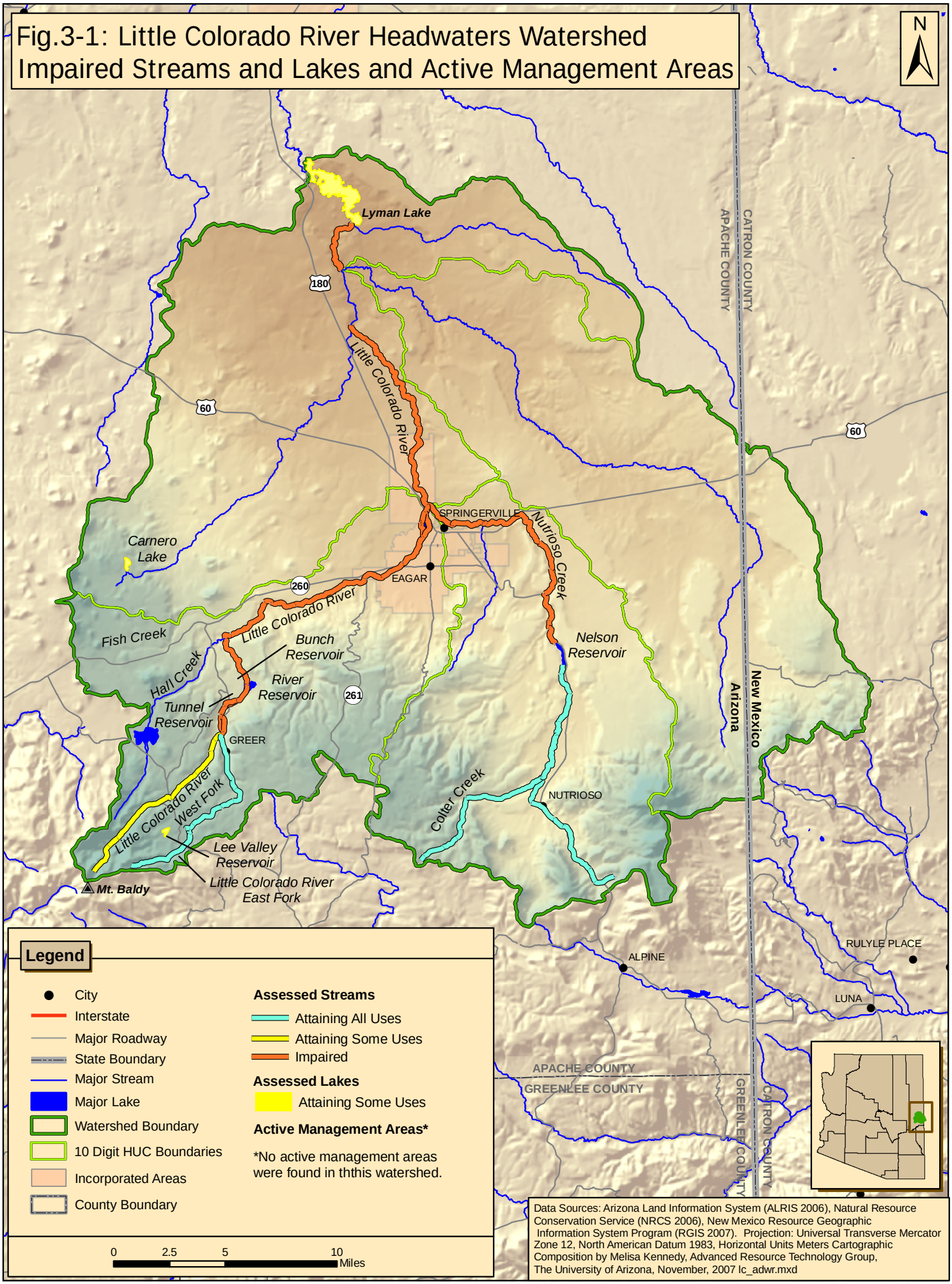
Data Sources: Arizona Land Information System (ALRIS 2006), Natural Resource Conservation Service (NRCS 2006), New Mexico Resource Geographic Information System Program (RGIS 2007), SW Regional GAP (GAP 2005). Projection: Universal Transverse Mercator Zone 12, North American Datum 1983, Horizontal Units Meters Cartographic Composition by Melisa Kennedy and Erin Westfall, Advanced Resource Technology Group, The University of Arizona, October, 2007 littlecolorado_template.mxd

Fig.2-11: Little Colorado River Headwaters Watershed Mines - Primary Ores



Data Sources: Arizona Land Information System (ALRIS 2006), Natural Resource Conservation Service (NRCS 2006), New Mexico Resource Geographic Information System Program (RGIS 2007). Projection: Universal Transverse Mercator Zone 12, North American Datum 1983, Horizontal Units Meters Cartographic Composition by Melisa Kennedy, Advanced Resource Technology Group, The University of Arizona, November, 2007 lc_mines.mxd

Fig.3-1: Little Colorado River Headwaters Watershed Impaired Streams and Lakes and Active Management Areas



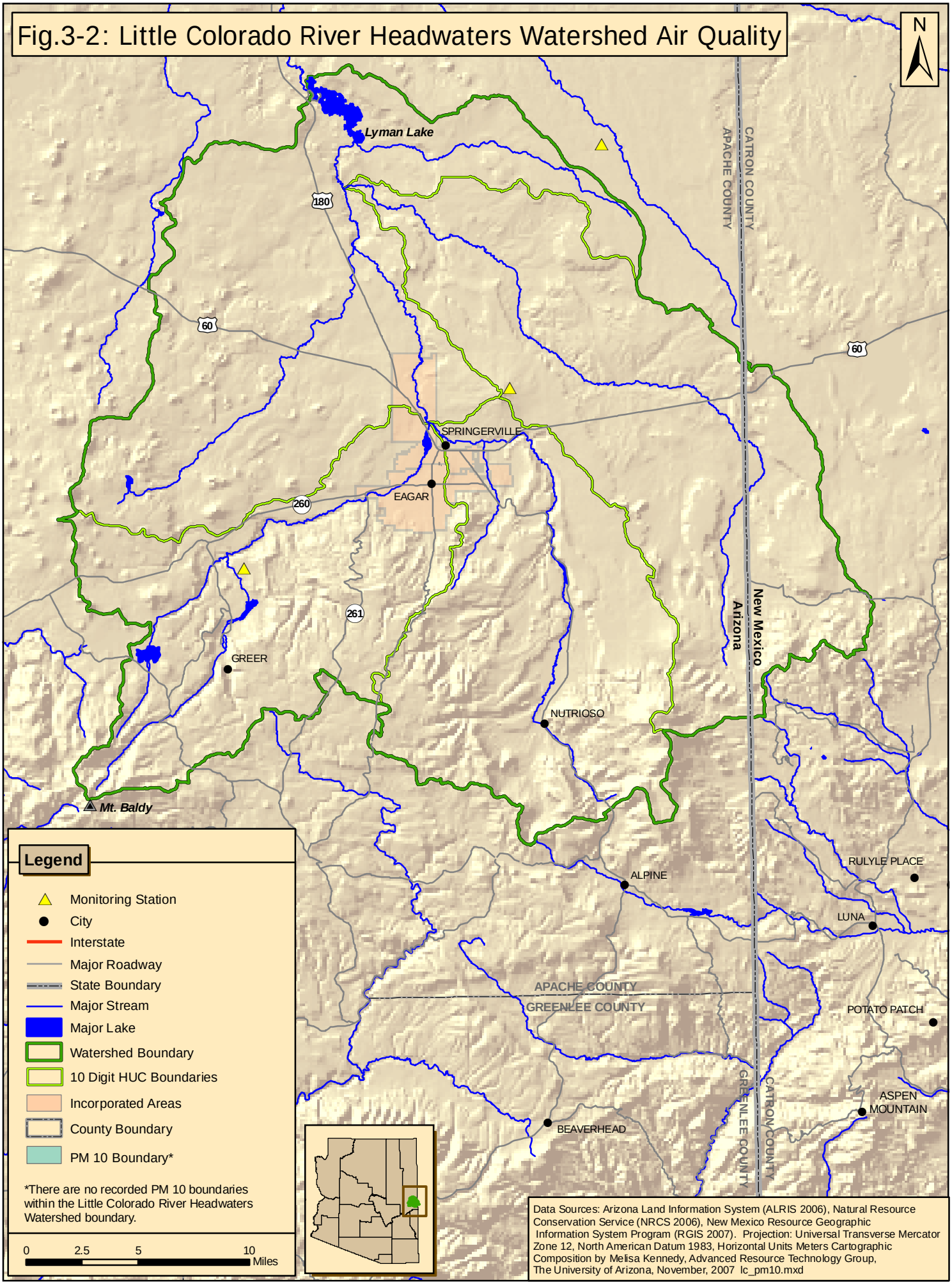


Fig.3-2: Little Colorado River Headwaters Watershed Air Quality
N
Lyman Lake
180
60
SPRINGERVILLE
EAGAR
260
261
GREER
NUTRIOSO
Mt. Baldy
ALPINE
RULYLE PLACE
LUNA
POTATO PATCH
ASPEN MOUNTAIN
BEAVERHEAD
APACHE COUNTY
CATRON COUNTY
GREENLEE COUNTY
New Mexico
Arizona
Legend
Monitoring Station
City
Interstate
Major Roadway
State Boundary
Major Stream
Major Lake
Watershed Boundary
10 Digit HUC Boundaries
Incorporated Areas
County Boundary
PM 10 Boundary*
*There are no recorded PM 10 boundaries within the Little Colorado River Headwaters Watershed boundary.
0 2.5 5 10 Miles
Data Sources: Arizona Land Information System (ALRIS 2006), Natural Resource Conservation Service (NRCS 2006), New Mexico Resource Geographic Information System Program (RGIS 2007). Projection: Universal Transverse Mercator Zone 12, North American Datum 1983, Horizontal Units Meters Cartographic Composition by Melisa Kennedy, Advanced Resource Technology Group, The University of Arizona, November, 2007 lc_pm10.mxd

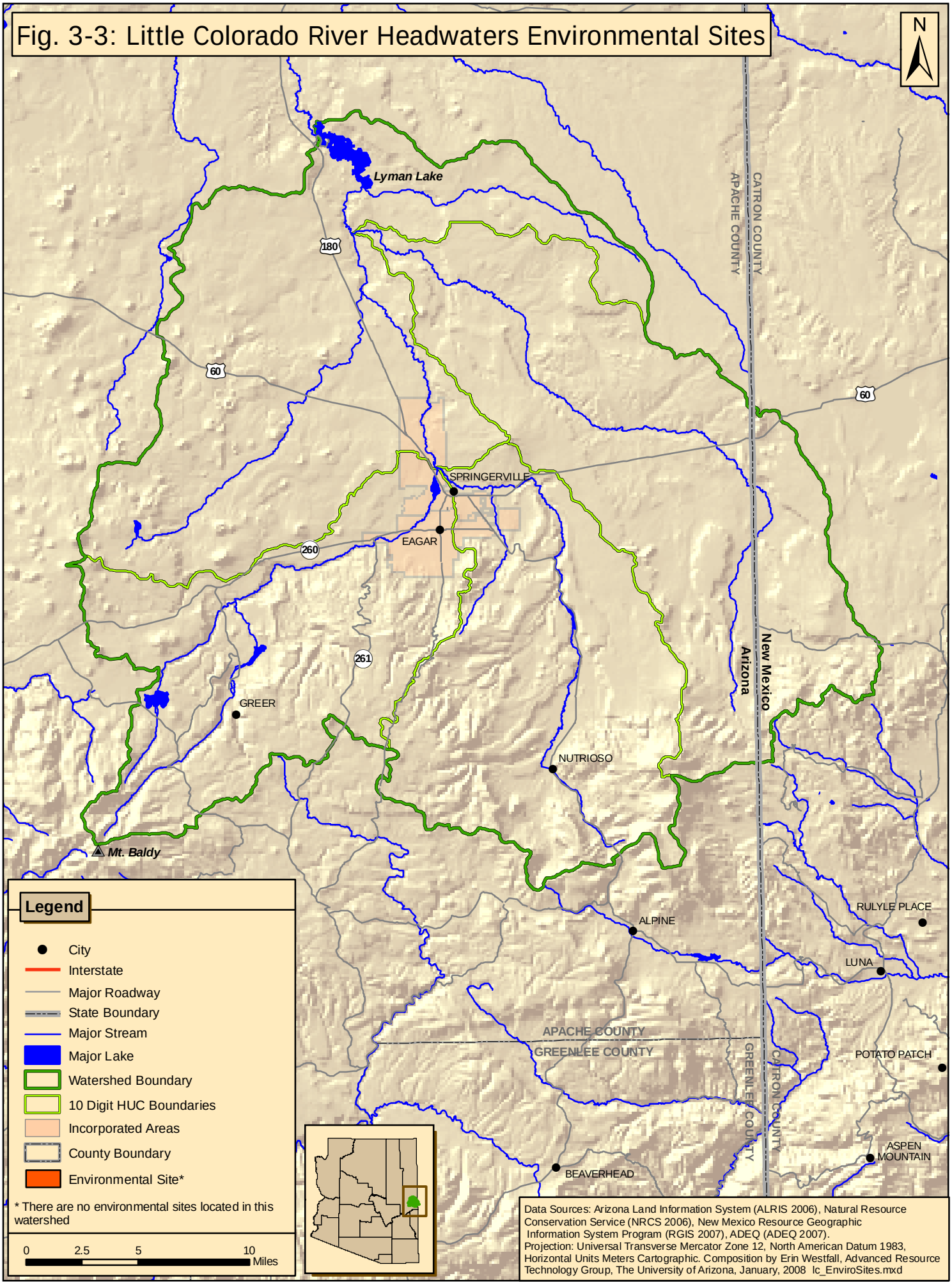
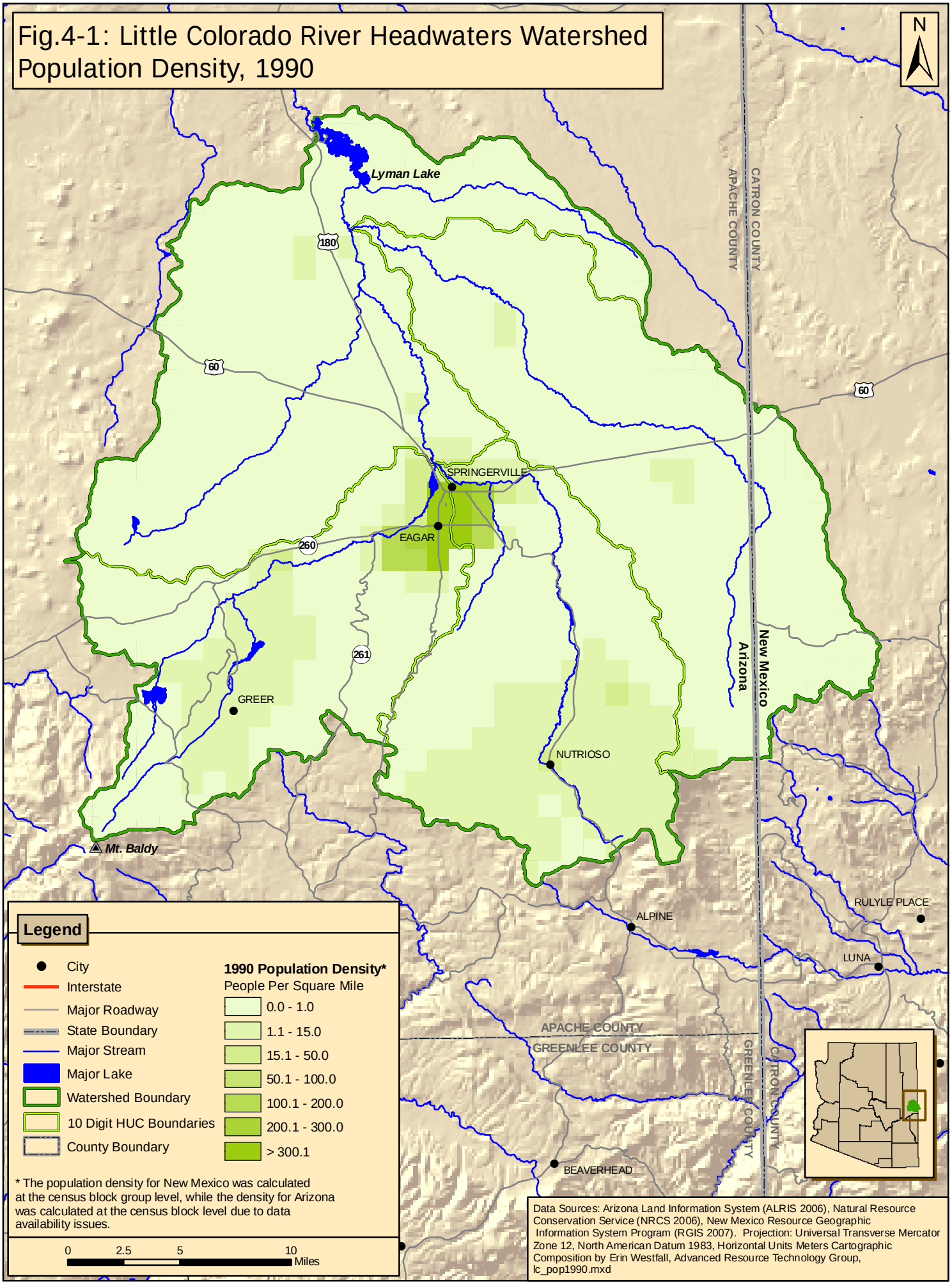


Fig. 3-3: Little Colorado River Headwaters Environmental Sites
N
Lyman Lake
180
60
SPRINGERVILLE
EAGAR
260
261
GREER
NUTRIOSO
Mt. Baldy
ALPINE
RULYLE PLACE
LUNA
POTATO PATCH
ASPEN MOUNTAIN
BEAVERHEAD
APACHE COUNTY
CATRON COUNTY
GREENLEE COUNTY
New Mexico
Arizona
Legend
City
Interstate
Major Roadway
State Boundary
Major Stream
Major Lake
Watershed Boundary
10 Digit HUC Boundaries
Incorporated Areas
County Boundary
Environmental Site*
* There are no environmental sites located in this watershed
0
2.5
5
10
Miles
Data Sources: Arizona Land Information System (ALRIS 2006), Natural Resource Conservation Service (NRCS 2006), New Mexico Resource Geographic Information System Program (RGIS 2007), ADEQ (ADEQ 2007).
Projection: Universal Transverse Mercator Zone 12, North American Datum 1983, Horizontal Units Meters Cartographic. Composition by Erin Westfall, Advanced Resource Technology Group, The University of Arizona, January, 2008 lc_EnviroSites.mxd

Fig.4-1: Little Colorado River Headwaters Watershed Population Density, 1990



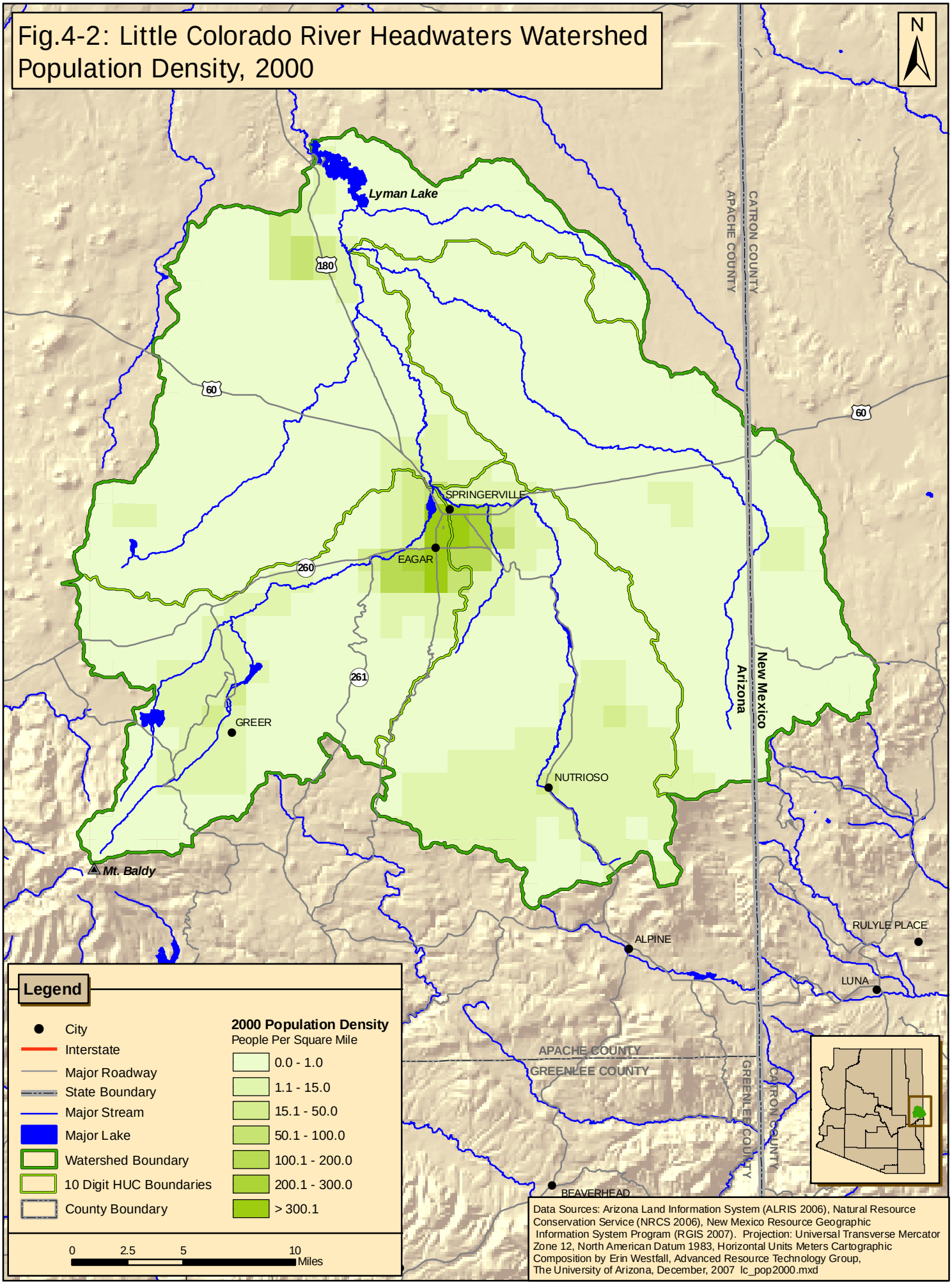


Fig.4-2: Little Colorado River Headwaters Watershed
Population Density, 2000
N
Lyman Lake
180
60
60
SPRINGERVILLE
EAGAR
260
261
GREER
NUTRIOSO
Mt. Baldy
ALPINE
RULYLE PLACE
LUNA
BEAVERHEAD
APACHE COUNTY
CATRON COUNTY
GREENLEE COUNTY
Arizona
New Mexico
Legend
City
Interstate
Major Roadway
State Boundary
Major Stream
Major Lake
Watershed Boundary
10 Digit HUC Boundaries
County Boundary
2000 Population Density
People Per Square Mile
0.0 - 1.0
1.1 - 15.0
15.1 - 50.0
50.1 - 100.0
100.1 - 200.0
200.1 - 300.0
> 300.1
0
2.5
5
10
Miles
Data Sources: Arizona Land Information System (ALRIS 2006), Natural Resource Conservation Service (NRCS 2006), New Mexico Resource Geographic Information System Program (RGIS 2007). Projection: Universal Transverse Mercator Zone 12, North American Datum 1983, Horizontal Units Meters Cartographic Composition by Erin Westfall, Advanced Resource Technology Group, The University of Arizona, December, 2007 lc_pop2000.mxd

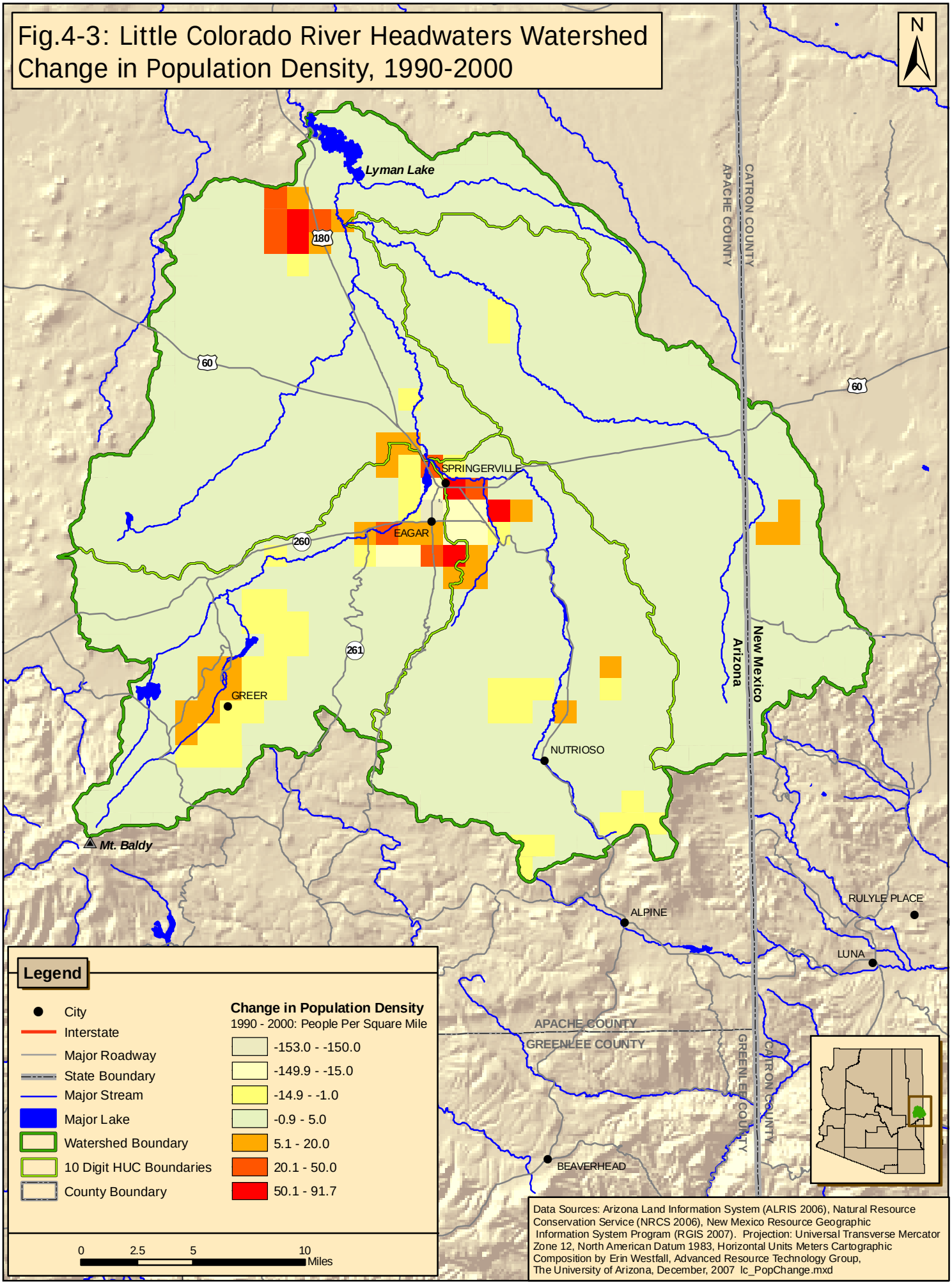


Fig.4-3: Little Colorado River Headwaters Watershed
Change in Population Density, 1990-2000
N
Lyman Lake
180
60
60
SPRINGERVILLE
EAGAR
260
261
GREER
NUTRIOSO
Mt. Baldy
ALPINE
RULYLE PLACE
LUNA
BEAVERHEAD
APACHE COUNTY
CATRON COUNTY
GREENLEE COUNTY
New Mexico
Arizona
Legend
City
Interstate
Major Roadway
State Boundary
Major Stream
Major Lake
Watershed Boundary
10 Digit HUC Boundaries
County Boundary
Change in Population Density
1990 - 2000: People Per Square Mile
-153.0 - -150.0
-149.9 - -15.0
-14.9 - -1.0
-0.9 - 5.0
5.1 - 20.0
20.1 - 50.0
50.1 - 91.7
0
2.5
5
10
Miles
Data Sources: Arizona Land Information System (ALRIS 2006), Natural Resource Conservation Service (NRCS 2006), New Mexico Resource Geographic Information System Program (RGIS 2007). Projection: Universal Transverse Mercator Zone 12, North American Datum 1983, Horizontal Units Meters Cartographic Composition by Erin Westfall, Advanced Resource Technology Group, The University of Arizona, December, 2007 lc_PopChange.mxd

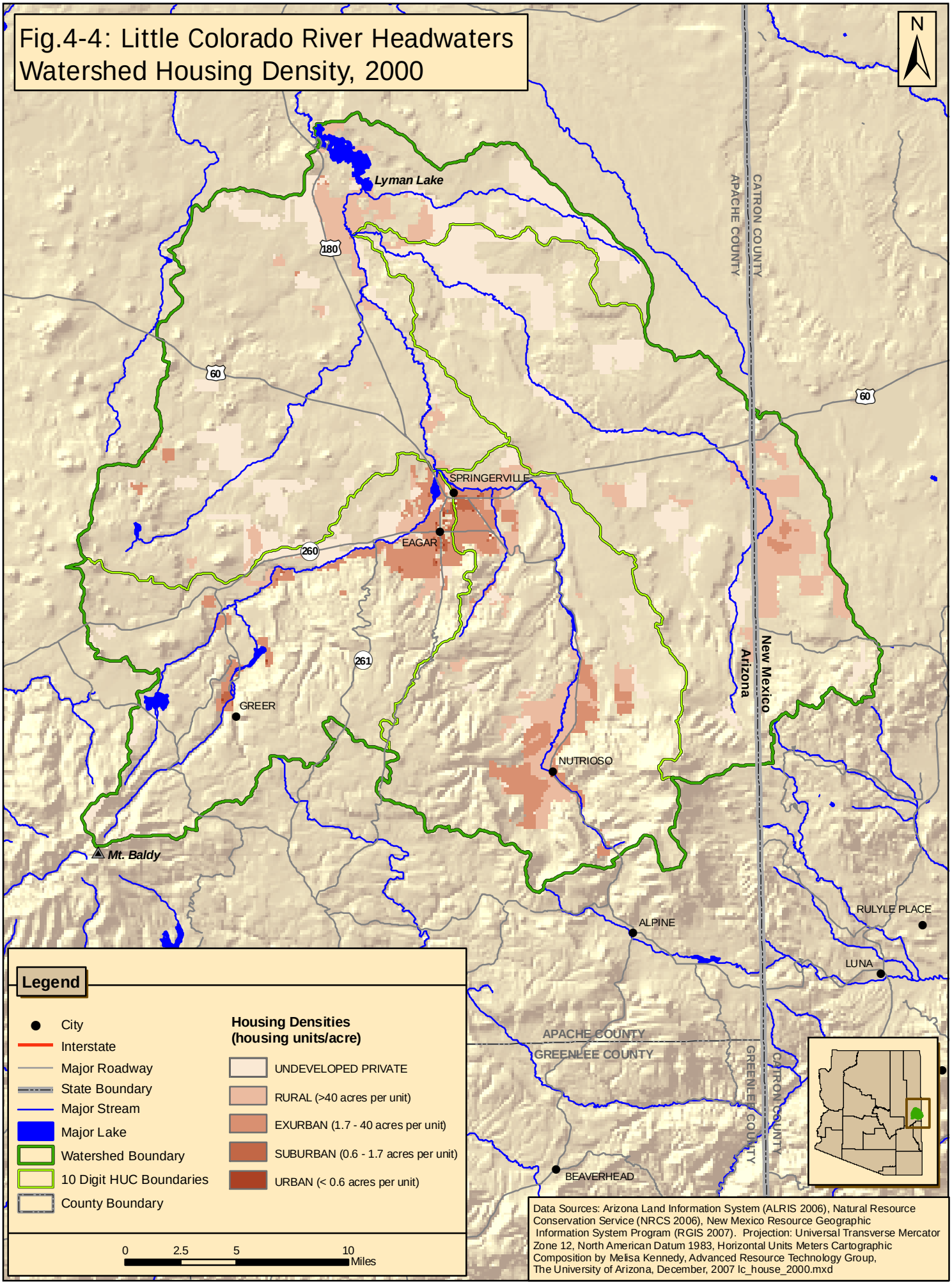


Fig.4-4: Little Colorado River Headwaters Watershed Housing Density, 2000
N
Lyman Lake
180
60
SPRINGERVILLE
EAGAR
260
261
GREER
NUTRIOSO
Mt. Baldy
ALPINE
RULYLE PLACE
LUNA
BEAVERHEAD
APACHE COUNTY
CATRON COUNTY
GREENLEE COUNTY
Arizona
New Mexico
Legend
City
Interstate
Major Roadway
State Boundary
Major Stream
Major Lake
Watershed Boundary
10 Digit HUC Boundaries
County Boundary
Housing Densities (housing units/acre)
UNDEVELOPED PRIVATE
RURAL (>40 acres per unit)
EXURBAN (1.7 - 40 acres per unit)
SUBURBAN (0.6 - 1.7 acres per unit)
URBAN (< 0.6 acres per unit)
0 2.5 5 10 Miles
Data Sources: Arizona Land Information System (ALRIS 2006), Natural Resource Conservation Service (NRCS 2006), New Mexico Resource Geographic Information System Program (RGIS 2007). Projection: Universal Transverse Mercator Zone 12, North American Datum 1983, Horizontal Units Meters Cartographic Composition by Melisa Kennedy, Advanced Resource Technology Group, The University of Arizona, December, 2007 lc_house_2000.mxd

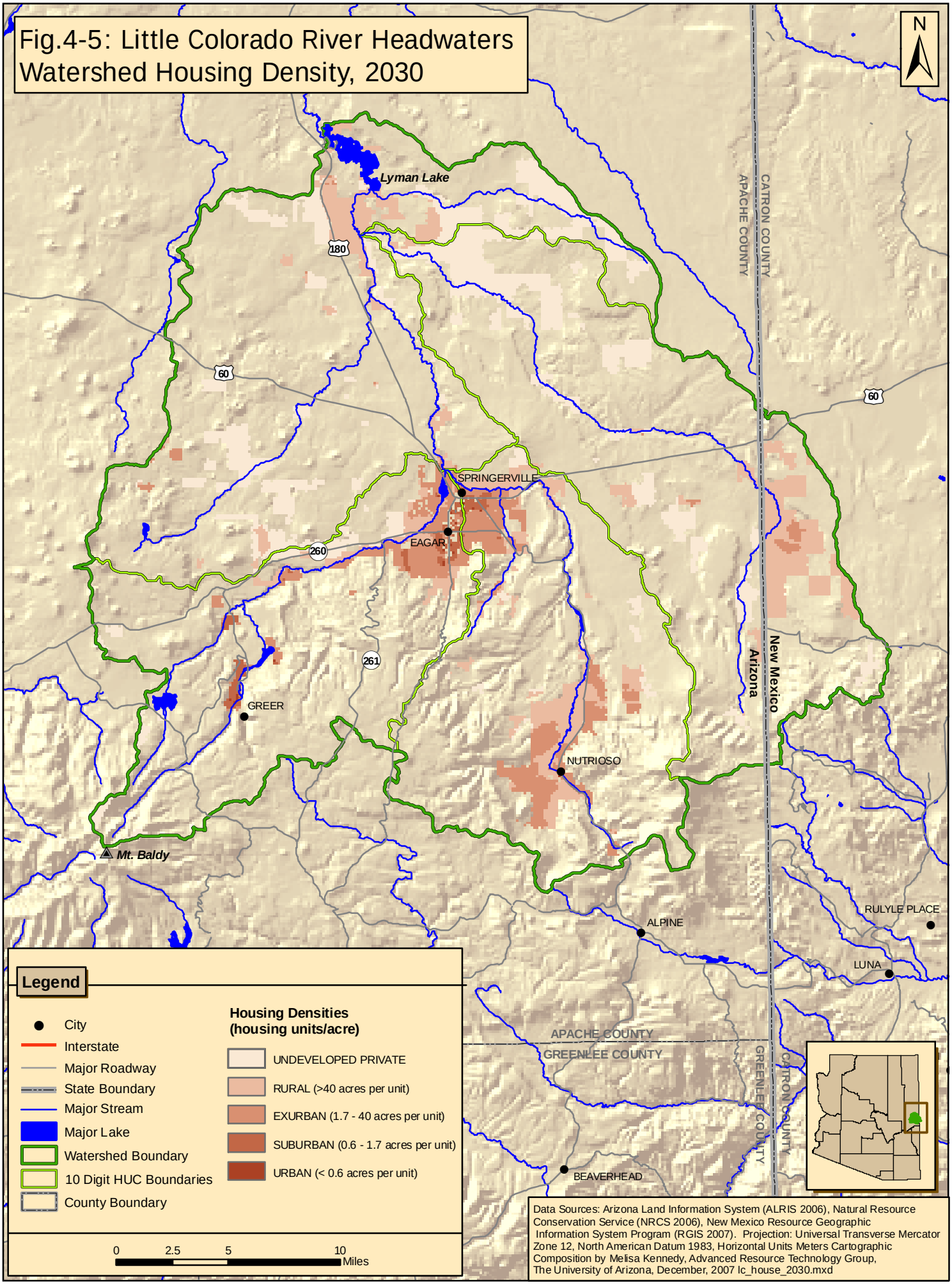


Fig.4-5: Little Colorado River Headwaters Watershed Housing Density, 2030
N
Lyman Lake
180
60
SPRINGERVILLE
EAGAR
260
261
GREER
NUTRIOSO
Mt. Baldy
ALPINE
RULYLE PLACE
LUNA
BEAVERHEAD
APACHE COUNTY
CATRON COUNTY
GREENLEE COUNTY
New Mexico
Arizona
Legend
City
Interstate
Major Roadway
State Boundary
Major Stream
Major Lake
Watershed Boundary
10 Digit HUC Boundaries
County Boundary
Housing Densities (housing units/acre)
UNDEVELOPED PRIVATE
RURAL (>40 acres per unit)
EXURBAN (1.7 - 40 acres per unit)
SUBURBAN (0.6 - 1.7 acres per unit)
URBAN (< 0.6 acres per unit)
0 2.5 5 10 Miles
Data Sources: Arizona Land Information System (ALRIS 2006), Natural Resource Conservation Service (NRCS 2006), New Mexico Resource Geographic Information System Program (RGIS 2007). Projection: Universal Transverse Mercator Zone 12, North American Datum 1983, Horizontal Units Meters Cartographic Composition by Melisa Kennedy, Advanced Resource Technology Group, The University of Arizona, December, 2007 lc_house_2030.mxd