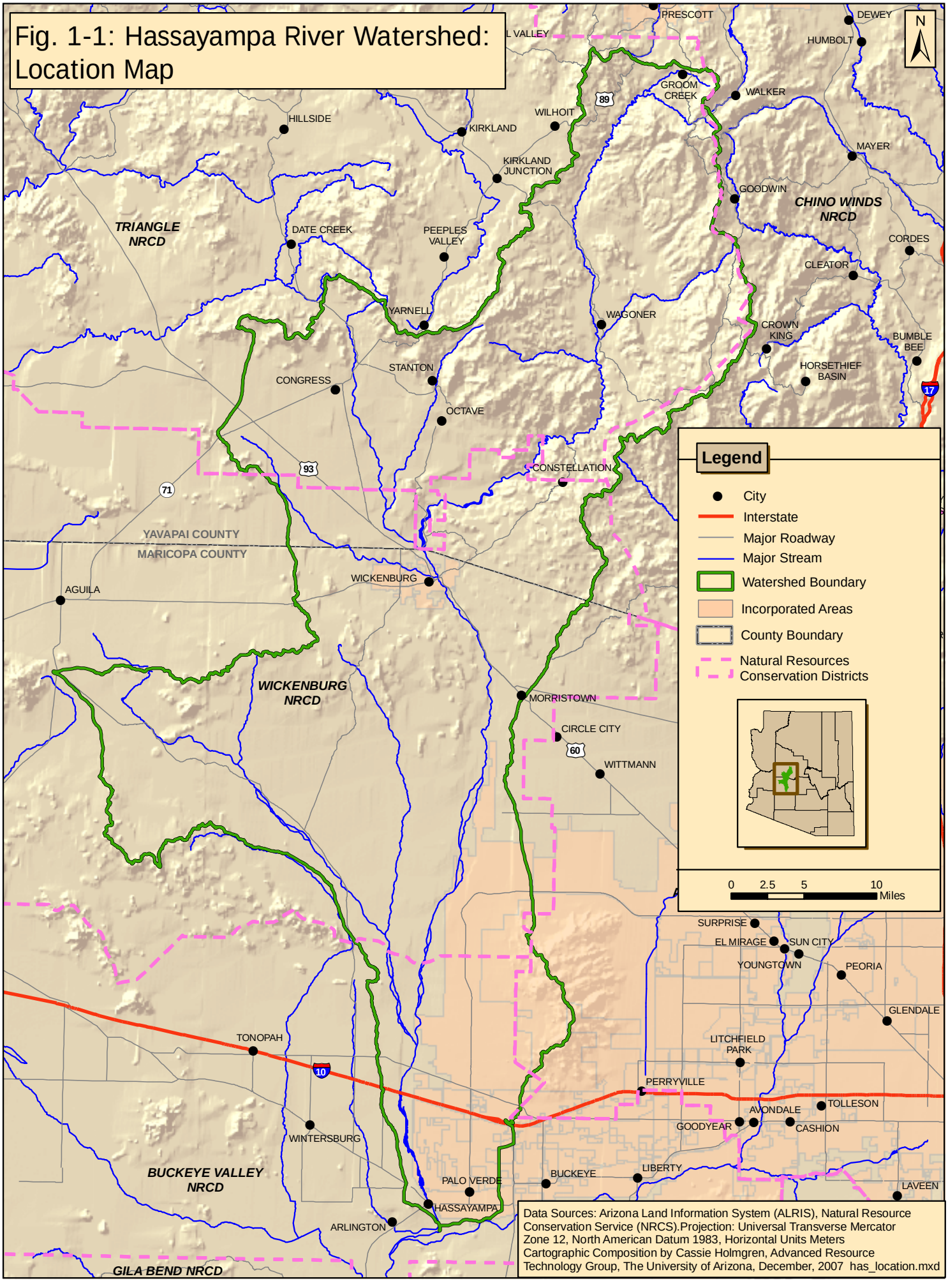
Fig. 1-1: Hassayampa River Watershed: Location Map
N
PRESCOTT
DEWEY
HUMBOLT
L VALLEY
GROOM CREEK
WALKER
89
WILHOIT
HILLSIDE
KIRKLAND
MAYER
KIRKLAND JUNCTION
GOODWIN
CHINO WINDS NRCD
TRIANGLE NRCD
DATE CREEK
PEEPLES VALLEY
CORDES
CLEATOR
YARNELL
WAGONER
CROWN KING
BUMBLE BEE
HORSETHIEF BASIN
17
STANTON
CONGRESS
OCTAVE
93
CONSTELLATION
71
YAVAPAI COUNTY
MARICOPA COUNTY
WICKENBURG
AGUILA
WICKENBURG NRCD
MORRISTOWN
CIRCLE CITY
60
WITTMANN
Legend
City
Interstate
Major Roadway
Major Stream
Watershed Boundary
Incorporated Areas
County Boundary
Natural Resources Conservation Districts
0 2.5 5 10
Miles
SURPRISE
EL MIRAGE
SUN CITY
YOUNGTOWN
PEORIA
GLENDALE
TONOPAH
LITCHFIELD PARK
10
PERRYVILLE
TOLLESON
AVONDALE
GOODYEAR
CASHION
WINTERSBURG
BUCKEYE VALLEY NRCD
BUCKEYE
LIBERTY
PALO VERDE
LAVEEN
HASSAYAMPA
ARLINGTON
GILA BEND NRCD
Data Sources: Arizona Land Information System (ALRIS), Natural Resource Conservation Service (NRCS).Projection: Universal Transverse Mercator Zone 12, North American Datum 1983, Horizontal Units Meters
Cartographic Composition by Cassie Holmgren, Advanced Resource Technology Group, The University of Arizona, December, 2007 has_location.mxd

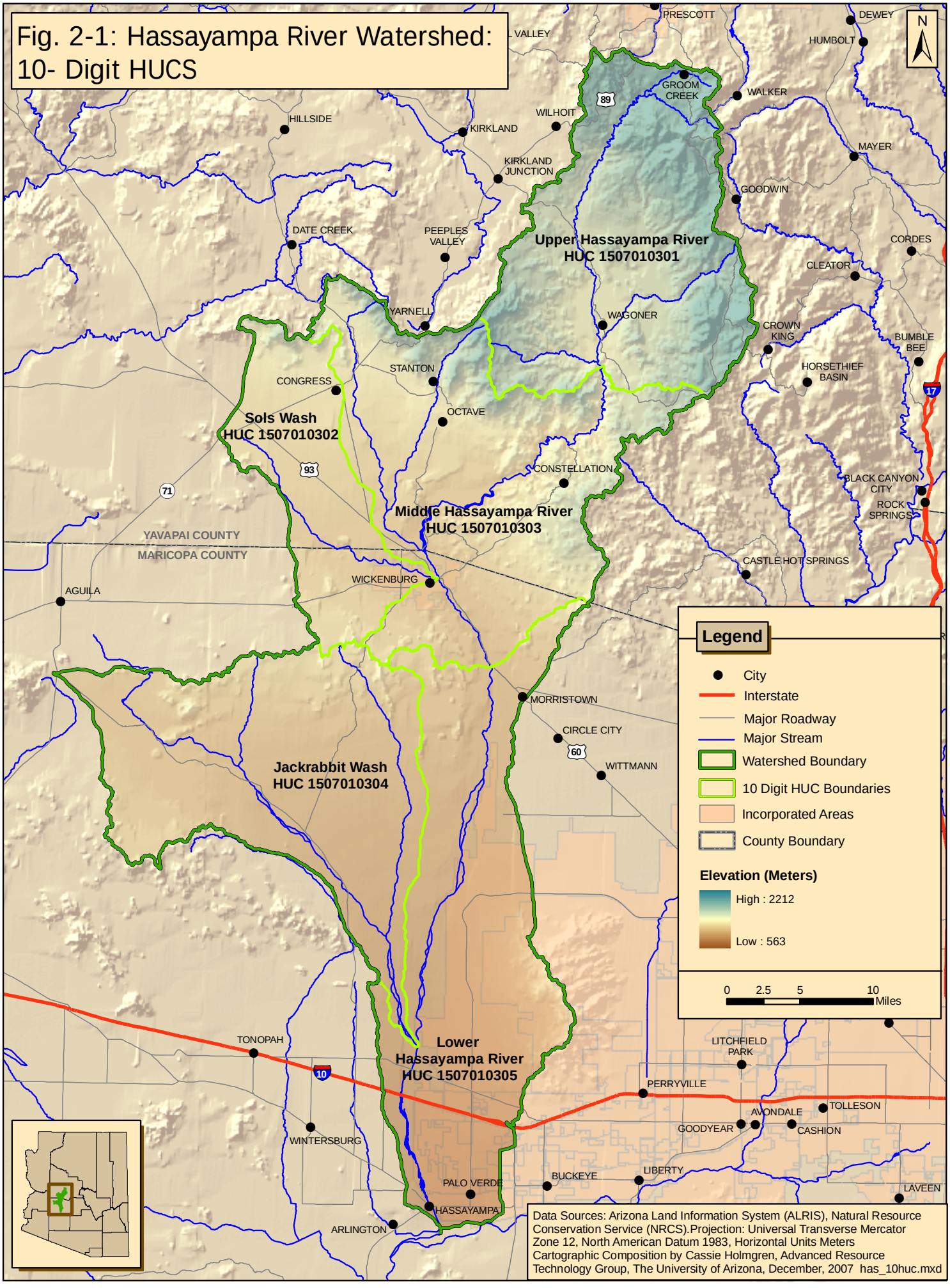
Fig. 2-1: Hassayampa River Watershed: 10- Digit HUCS
N
PRESCOTT
DEWEY
HUMBOLT
VALLEY
GROOM CREEK
WALKER
89
WILHOIT
HILLSIDE
KIRKLAND
MAYER
KIRKLAND JUNCTION
GOODWIN
DATE CREEK
PEEPLES VALLEY
Upper Hassayampa River HUC 1507010301
CORDES
CLEATOR
YARNELL
WAGONER
CROWN KING
BUMBLE BEE
STANTON
HORSETHIEF BASIN
CONGRESS
17
OCTAVE
Sols Wash HUC 1507010302
93
CONSTELLATION
BLACK CANYON CITY
71
ROCK SPRINGS
Middle Hassayampa River HUC 1507010303
YAVAPAI COUNTY
MARICOPA COUNTY
CASTLE HOT SPRINGS
WICKENBURG
AGUILA
MORRISTOWN
CIRCLE CITY
60
WITTMANN
Jackrabbit Wash HUC 1507010304
Legend
City
Interstate
Major Roadway
Major Stream
Watershed Boundary
10 Digit HUC Boundaries
Incorporated Areas
County Boundary
Elevation (Meters)
High : 2212
Low : 563
0 2.5 5 10
Miles
TONOPAH
10
LITCHFIELD PARK
Lower Hassayampa River HUC 1507010305
PERRYVILLE
TOLLESON
AVONDALE
GOODYEAR
CASHION
WINTERSBURG
BUCKEYE
LIBERTY
PALO VERDE
LAVEEN
HASSAYAMPA
ARLINGTON
Data Sources: Arizona Land Information System (ALRIS), Natural Resource Conservation Service (NRCS).Projection: Universal Transverse Mercator Zone 12, North American Datum 1983, Horizontal Units Meters
Cartographic Composition by Cassie Holmgren, Advanced Resource Technology Group, The University of Arizona, December, 2007 has_10huc.mxd

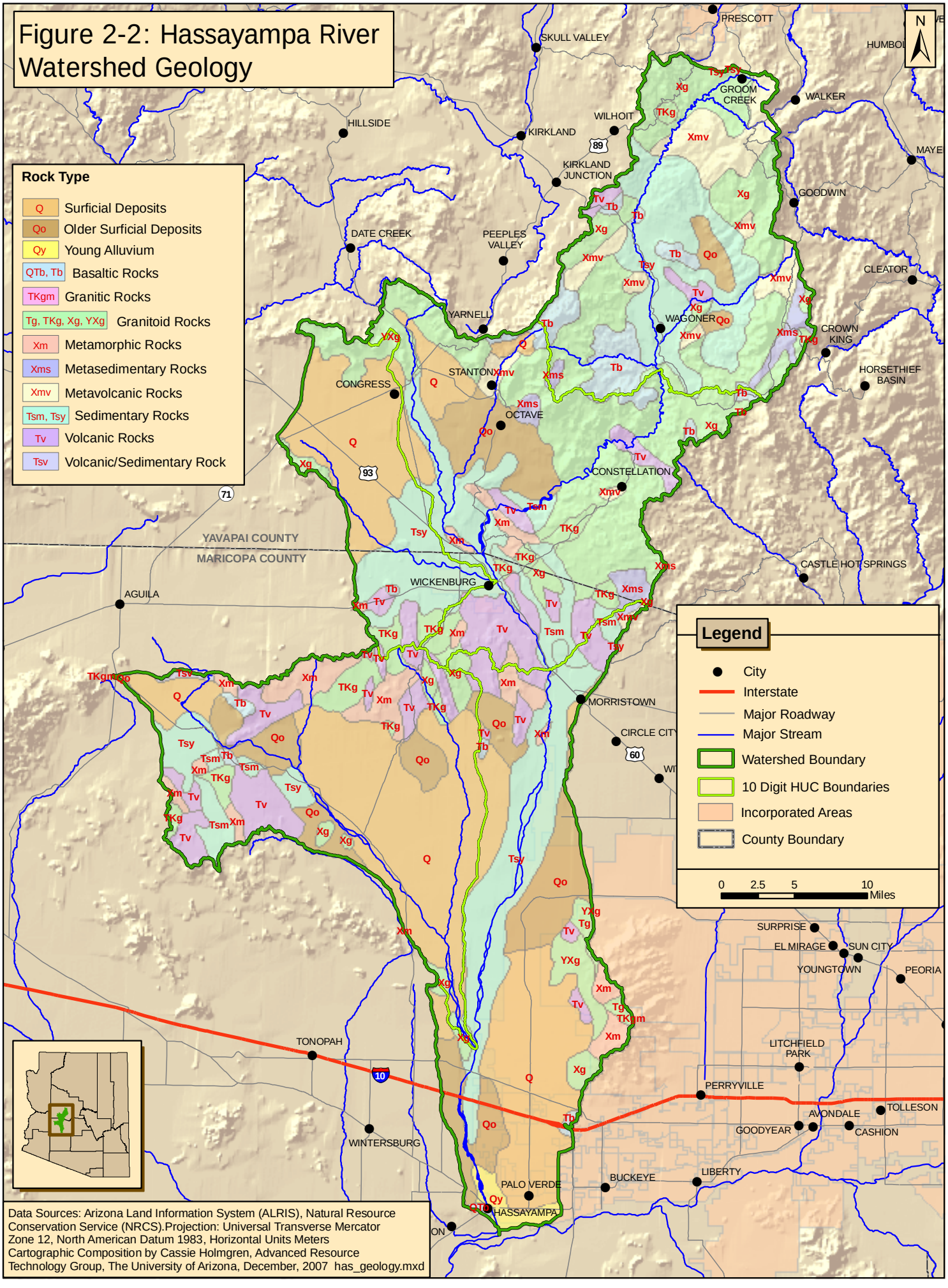
Figure 2-2: Hassayampa River Watershed Geology
Rock Type
Q Surficial Deposits
Qo Older Surficial Deposits
Qy Young Alluvium
QTb, Tb Basaltic Rocks
TKgm Granitic Rocks
Tg, TKg, Xg, YXg Granitoid Rocks
Xm Metamorphic Rocks
Xms Metasedimentary Rocks
Xmv Metavolcanic Rocks
Tsm, Tsy Sedimentary Rocks
Tv Volcanic Rocks
Tsv Volcanic/Sedimentary Rock
Legend
City
Interstate
Major Roadway
Major Stream
Watershed Boundary
10 Digit HUC Boundaries
Incorporated Areas
County Boundary
0 2.5 5 10 Miles
N
PRESCOTT
SKULL VALLEY
GROOM CREEK
WALKER
HILLSIDE
KIRKLAND
WILHOIT
KIRKLAND JUNCTION
GOODWIN
DATE CREEK
PEEPLES VALLEY
CLEATOR
YARNELL
WAGONER
CROWN KING
HORSETHIEF BASIN
STANTON
CONGRESS
OCTAVE
CONSTELLATION
CASTLE HOT SPRINGS
YAVAPAI COUNTY
MARICOPA COUNTY
AGUILA
WICKENBURG
MORRISTOWN
CIRCLE CITY
SURPRISE
EL MIRAGE
SUN CITY
YOUNGTOWN
PEORIA
TONOPAH
LITCHFIELD PARK
PERRYVILLE
TOLLESON
AVONDALE
GOODYEAR
CASHION
WINTERSBURG
BUCKEYE
LIBERTY
PALO VERDE
HASSAYAMPA
Data Sources: Arizona Land Information System (ALRIS), Natural Resource Conservation Service (NRCS).Projection: Universal Transverse Mercator Zone 12, North American Datum 1983, Horizontal Units Meters
Cartographic Composition by Cassie Holmgren, Advanced Resource Technology Group, The University of Arizona, December, 2007 has_geology.mxd

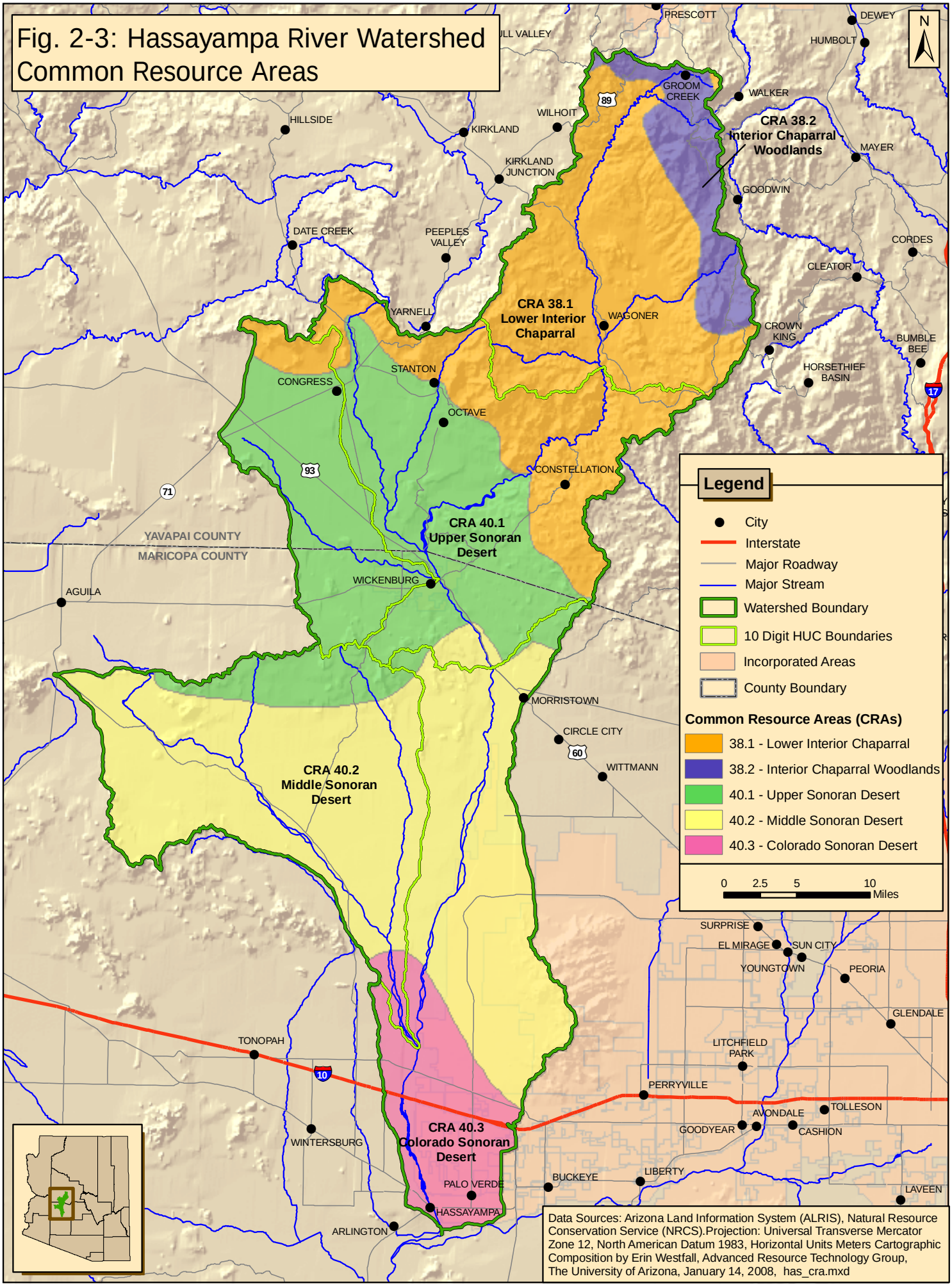
Fig. 2-3: Hassayampa River Watershed Common Resource Areas
N
PRESCOTT
DEWEY
HUMBOLT
GROOM CREEK
WALKER
89
WILHOIT
HILLSIDE
KIRKLAND
KIRKLAND JUNCTION
CRA 38.2 Interior Chaparral Woodlands
MAYER
GOODWIN
DATE CREEK
PEEPLES VALLEY
CORDES
CLEATOR
YARNELL
CRA 38.1 Lower Interior Chaparral
WAGONER
CROWN KING
BUMBLE BEE
HORSETHIEF BASIN
17
STANTON
CONGRESS
OCTAVE
93
CONSTELLATION
71
CRA 40.1 Upper Sonoran Desert
YAVAPAI COUNTY
MARICOPA COUNTY
WICKENBURG
AGUILA
MORRISTOWN
CIRCLE CITY
60
WITTMANN
CRA 40.2 Middle Sonoran Desert
SURPRISE
EL MIRAGE
SUN CITY
YOUNGTOWN
PEORIA
GLENDALE
TONOPAH
10
LITCHFIELD PARK
PERRYVILLE
TOLLESON
AVONDALE
GOODYEAR
CASHION
WINTERSBURG
CRA 40.3 Colorado Sonoran Desert
BUCKEYE
LIBERTY
PALO VERDE
LAVEEN
HASSAYAMPA
ARLINGTON
Legend
City
Interstate
Major Roadway
Major Stream
Watershed Boundary
10 Digit HUC Boundaries
Incorporated Areas
County Boundary
Common Resource Areas (CRAs)
38.1 - Lower Interior Chaparral
38.2 - Interior Chaparral Woodlands
40.1 - Upper Sonoran Desert
40.2 - Middle Sonoran Desert
40.3 - Colorado Sonoran Desert
0 2.5 5 10
Miles
Data Sources: Arizona Land Information System (ALRIS), Natural Resource Conservation Service (NRCS).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 14, 2008, has_cra.mxd

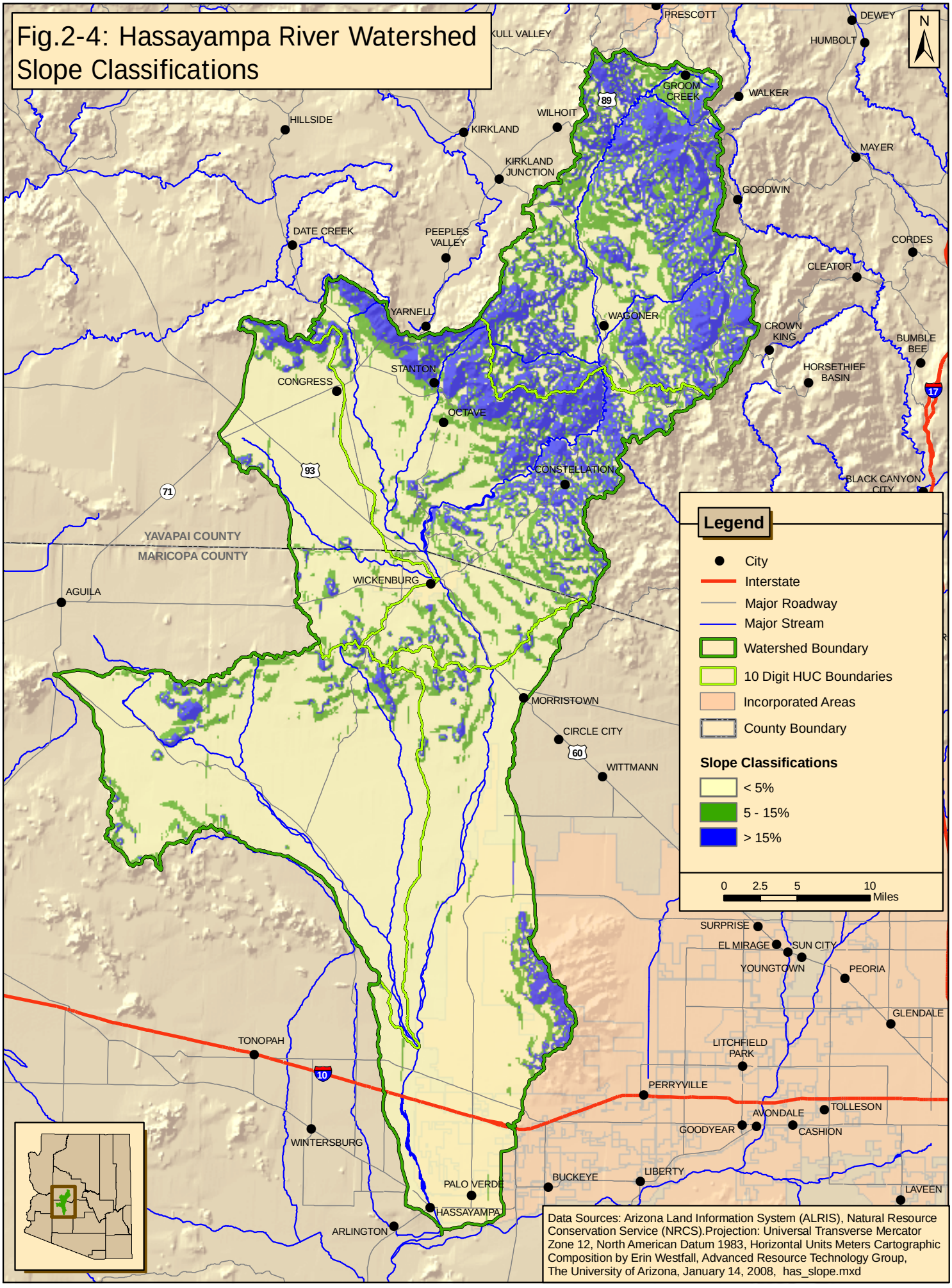
Fig.2-4: Hassayampa River Watershed Slope Classifications
N
PRESCOTT
DEWEY
HUMBOLT
KULL VALLEY
GROOM CREEK
WALKER
89
WILHOIT
HILLSIDE
KIRKLAND
MAYER
KIRKLAND JUNCTION
GOODWIN
DATE CREEK
PEEPLES VALLEY
CORDES
CLEATOR
YARNELL
WAGONER
CROWN KING
BUMBLE BEE
HORSETHIEF BASIN
STANTON
CONGRESS
OCTAVE
17
93
CONSTELLATION
71
BLACK CANYON CITY
YAVAPAI COUNTY
MARICOPA COUNTY
AGUILA
WICKENBURG
MORRISTOWN
CIRCLE CITY
60
WITTMANN
Legend
City
Interstate
Major Roadway
Major Stream
Watershed Boundary
10 Digit HUC Boundaries
Incorporated Areas
County Boundary
Slope Classifications
< 5%
5 - 15%
> 15%
0 2.5 5 10
Miles
SURPRISE
EL MIRAGE
SUN CITY
YOUNGTOWN
PEORIA
GLENDALE
TONOPAH
LITCHFIELD PARK
10
PERRYVILLE
TOLLESON
AVONDALE
GOODYEAR
CASHION
WINTERSBURG
LIBERTY
BUCKEYE
PALO VERDE
LAVEEN
HASSAYAMPA
ARLINGTON
Data Sources: Arizona Land Information System (ALRIS), Natural Resource Conservation Service (NRCS).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 14, 2008, has_slope.mxd

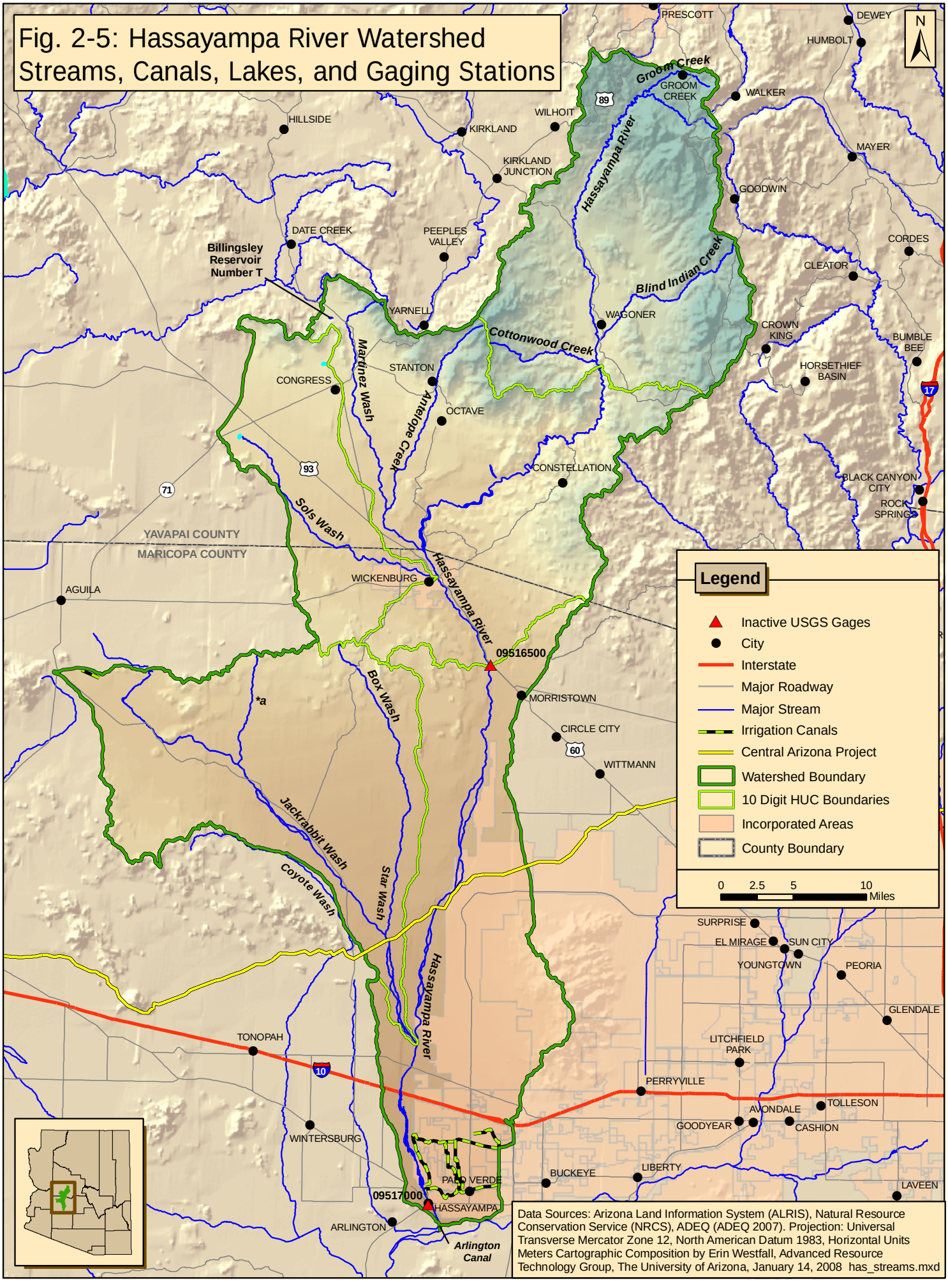
Fig. 2-5: Hassayampa River Watershed
Streams, Canals, Lakes, and Gaging Stations
N
PRESCOTT
DEWEY
HUMBOLT
Groom Creek
GROOM CREEK
WALKER
89
WILHOIT
HILLSIDE
KIRKLAND
KIRKLAND JUNCTION
Hassayampa River
MAYER
GOODWIN
DATE CREEK
PEEPLES VALLEY
Billingsley Reservoir Number T
CORDES
CLEATOR
Blind Indian Creek
YARNELL
WAGONER
CROWN KING
BUMBLE BEE
Cottonwood Creek
Martinez Wash
STANTON
HORSETHIEF BASIN
CONGRESS
Antelope Creek
OCTAVE
17
93
CONSTELLATION
BLACK CANYON CITY
71
ROCK SPRINGS
Sols Wash
YAVAPAI COUNTY
MARICOPA COUNTY
WICKENBURG
Hassayampa River
AGUILA
09516500
MORRISTOWN
Box Wash
*a
CIRCLE CITY
60
WITTMANN
Jackrabbit Wash
Coyote Wash
Star Wash
Hassayampa River
SURPRISE
EL MIRAGE
SUN CITY
YOUNGTOWN
PEORIA
GLENDALE
TONOPAH
LITCHFIELD PARK
10
PERRYVILLE
TOLLESON
AVONDALE
GOODYEAR
CASHION
WINTERSBURG
BUCKEYE
LIBERTY
PALO VERDE
09517000
LAVEEN
HASSAYAMPA
ARLINGTON
Arlington Canal
Legend
Inactive USGS Gages
City
Interstate
Major Roadway
Major Stream
Irrigation Canals
Central Arizona Project
Watershed Boundary
10 Digit HUC Boundaries
Incorporated Areas
County Boundary
0 2.5 5 10
Miles
Data Sources: Arizona Land Information System (ALRIS), Natural Resource Conservation Service (NRCS), 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 14, 2008 has_streams.mxd

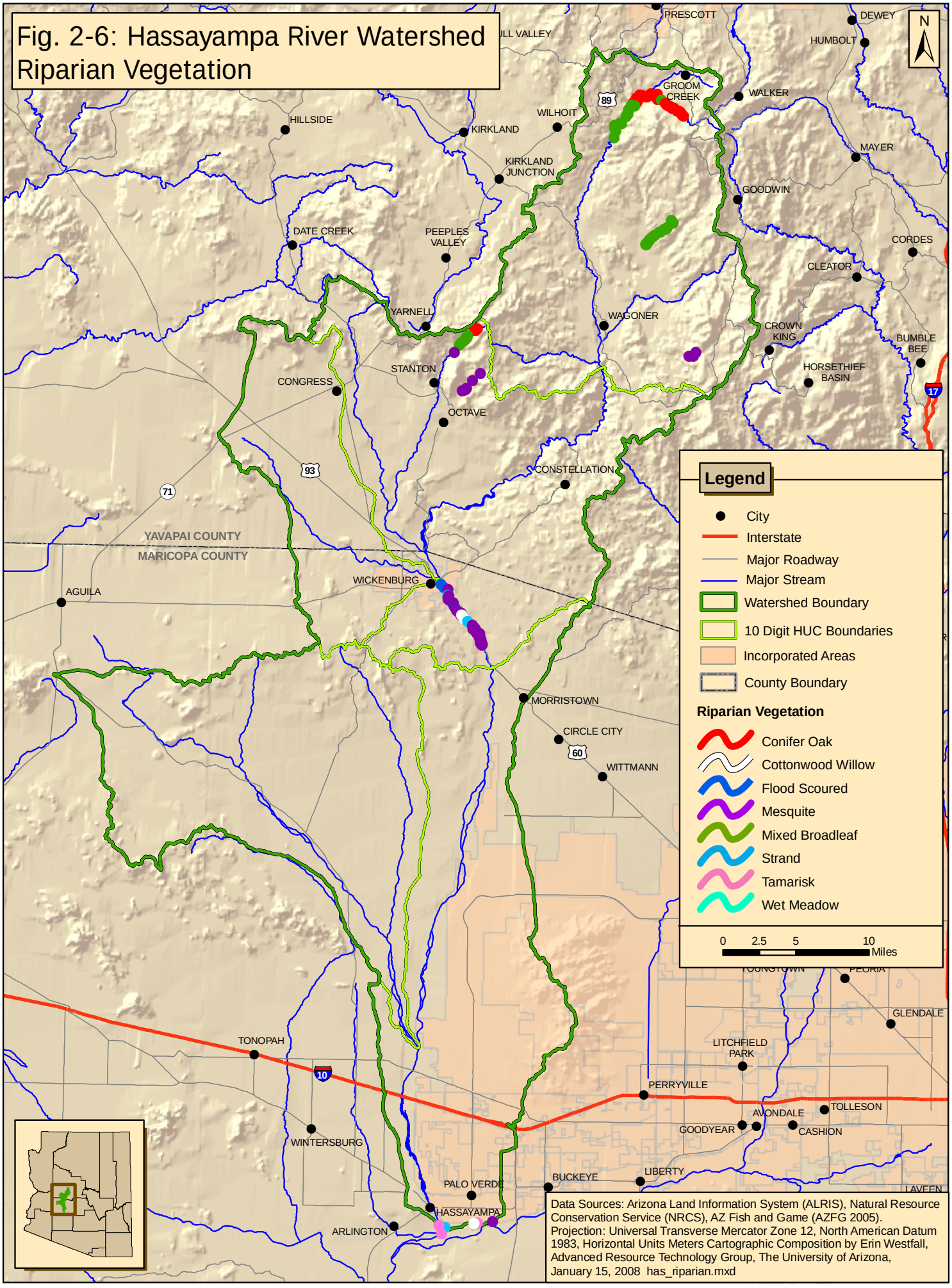
Fig. 2-6: Hassayampa River Watershed
Riparian Vegetation
N
PRESCOTT
DEWEY
HUMBOLT
GROOM CREEK
WALKER
WILHOIT
89
HILLSIDE
KIRKLAND
KIRKLAND JUNCTION
MAYER
GOODWIN
DATE CREEK
PEEPLES VALLEY
CORDES
CLEATOR
YARNELL
WAGONER
CROWN KING
BUMBLE BEE
HORSETHIEF BASIN
STANTON
CONGRESS
OCTAVE
93
71
CONSTELLATION
YAVAPAI COUNTY
MARICOPA COUNTY
AGUILA
WICKENBURG
MORRISTOWN
CIRCLE CITY
60
WITTMANN
Legend
City
Interstate
Major Roadway
Major Stream
Watershed Boundary
10 Digit HUC Boundaries
Incorporated Areas
County Boundary
Riparian Vegetation
Conifer Oak
Cottonwood Willow
Flood Scoured
Mesquite
Mixed Broadleaf
Strand
Tamarisk
Wet Meadow
0 2.5 5 10
Miles
PEORIA
GLENDALE
TONOPAH
10
LITCHFIELD PARK
PERRYVILLE
TOLLESON
AVONDALE
GOODYEAR
CASHION
WINTERSBURG
BUCKEYE
LIBERTY
PALO VERDE
HASSAYAMPA
ARLINGTON
LAVEEN
Data Sources: Arizona Land Information System (ALRIS), Natural Resource Conservation Service (NRCS), AZ Fish and Game (AZFG 2005).
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 15, 2008 has_riparian.mxd

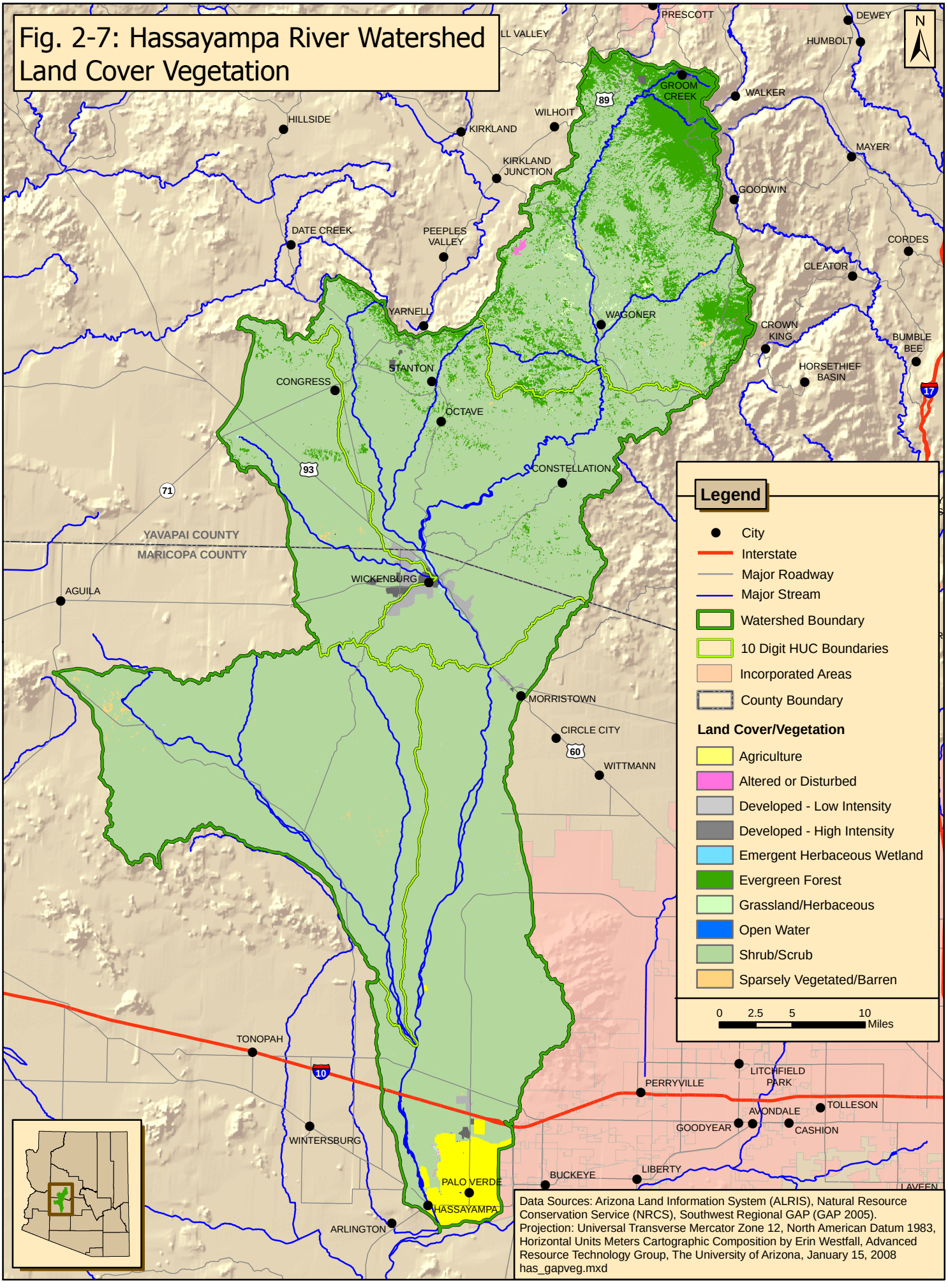
Fig. 2-7: Hassayampa River Watershed
Land Cover Vegetation
N
PRESCOTT
DEWEY
HUMBOLT
LL VALLEY
GROOM CREEK
WALKER
89
WILHOIT
HILLSIDE
KIRKLAND
MAYER
KIRKLAND JUNCTION
GOODWIN
DATE CREEK
PEEPLES VALLEY
CORDES
CLEATOR
YARNELL
WAGONER
CROWN KING
BUMBLE BEE
HORSETHIEF BASIN
STANTON
CONGRESS
OCTAVE
17
93
CONSTELLATION
71
YAVAPAI COUNTY
MARICOPA COUNTY
WICKENBURG
AGUILA
MORRISTOWN
CIRCLE CITY
60
WITTMANN
Legend
City
Interstate
Major Roadway
Major Stream
Watershed Boundary
10 Digit HUC Boundaries
Incorporated Areas
County Boundary
Land Cover/Vegetation
Agriculture
Altered or Disturbed
Developed - Low Intensity
Developed - High Intensity
Emergent Herbaceous Wetland
Evergreen Forest
Grassland/Herbaceous
Open Water
Shrub/Scrub
Sparsely Vegetated/Barren
0 2.5 5 10
Miles
TONOPAH
10
LITCHFIELD PARK
PERRYVILLE
TOLLESON
AVONDALE
GOODYEAR
CASHION
WINTERSBURG
BUCKEYE
LIBERTY
PALO VERDE
HASSAYAMPA
ARLINGTON
LAVEEN
Data Sources: Arizona Land Information System (ALRIS), Natural Resource Conservation Service (NRCS), Southwest Regional GAP (GAP 2005).
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 15, 2008
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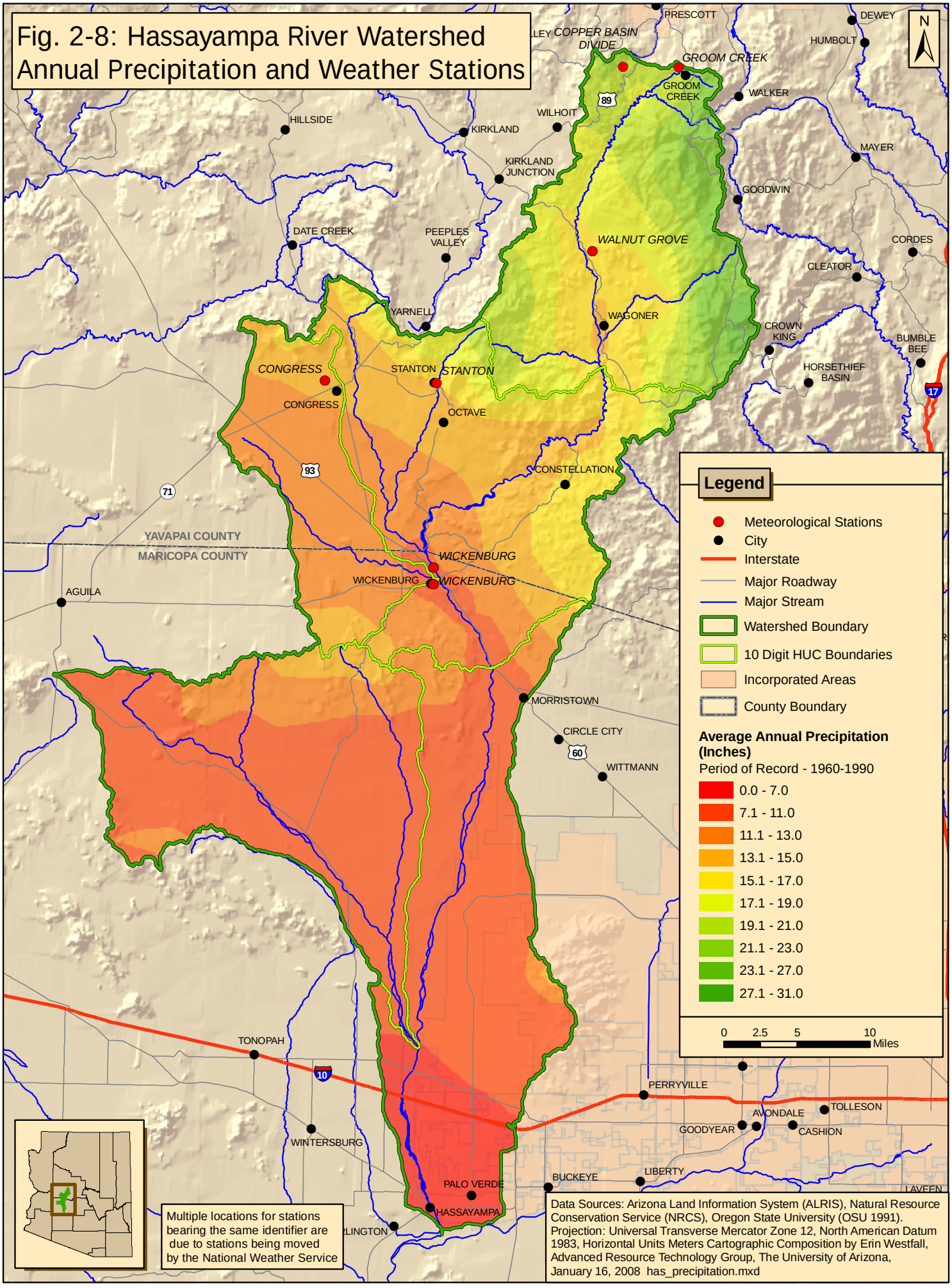
Fig. 2-8: Hassayampa River Watershed
Annual Precipitation and Weather Stations
N
COPPER BASIN DIVIDE
PRESCOTT
DEWEY
HUMBOLT
GROOM CREEK
GROOM CREEK
WALKER
89
WILHOIT
HILLSIDE
KIRKLAND
KIRKLAND JUNCTION
MAYER
GOODWIN
DATE CREEK
PEEPLES VALLEY
WALNUT GROVE
CORDES
CLEATOR
YARNELL
WAGONER
CROWN KING
BUMBLE BEE
HORSETHIEF BASIN
CONGRESS
STANTON
STANTON
CONGRESS
OCTAVE
93
71
CONSTELLATION
YAVAPAI COUNTY
MARICOPA COUNTY
WICKENBURG
WICKENBURG
WICKENBURG
AGUILA
MORRISTOWN
CIRCLE CITY
60
WITTMANN
Legend
Meteorological Stations
City
Interstate
Major Roadway
Major Stream
Watershed Boundary
10 Digit HUC Boundaries
Incorporated Areas
County Boundary
Average Annual Precipitation (Inches)
Period of Record - 1960-1990
0.0 - 7.0
7.1 - 11.0
11.1 - 13.0
13.1 - 15.0
15.1 - 17.0
17.1 - 19.0
19.1 - 21.0
21.1 - 23.0
23.1 - 27.0
27.1 - 31.0
0 2.5 5 10
Miles
TONOPAH
10
PERRYVILLE
TOLLESON
AVONDALE
GOODYEAR
CASHION
WINTERSBURG
BUCKEYE
LIBERTY
PALO VERDE
HASSAYAMPA
LAVEEN
Multiple locations for stations bearing the same identifier are due to stations being moved by the National Weather Service
Data Sources: Arizona Land Information System (ALRIS), Natural Resource Conservation Service (NRCS), Oregon State University (OSU 1991).
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 16, 2008 has_precipitation.mxd

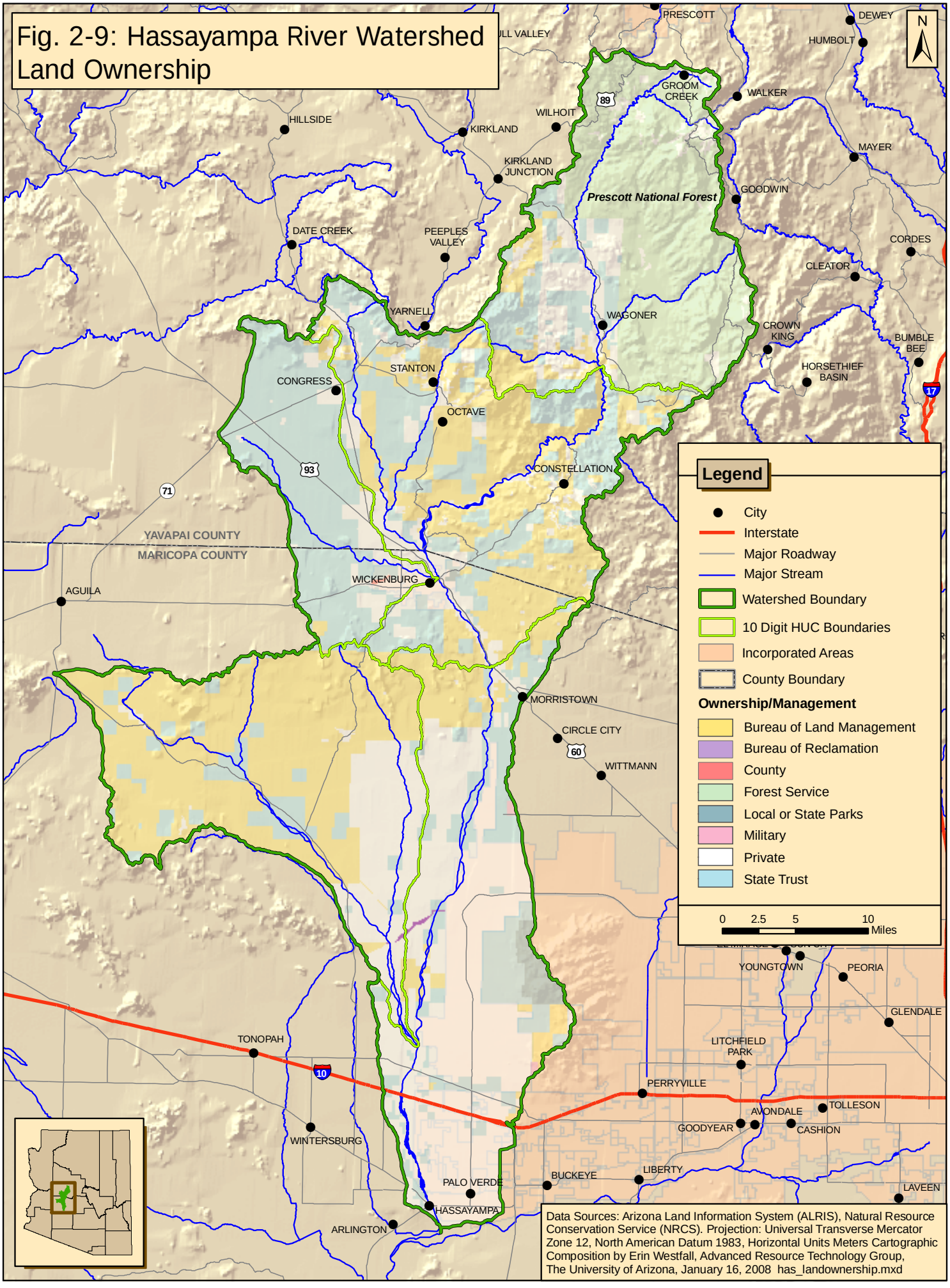
Fig. 2-9: Hassayampa River Watershed Land Ownership
N
PRESCOTT
DEWEY
HUMBOLT
GROOM CREEK
WALKER
89
WILHOIT
HILLSIDE
KIRKLAND
KIRKLAND JUNCTION
MAYER
Prescott National Forest
GOODWIN
DATE CREEK
PEEPLES VALLEY
CORDES
CLEATOR
YARNELL
WAGONER
CROWN KING
BUMBLE BEE
HORSETHIEF BASIN
17
STANTON
CONGRESS
OCTAVE
93
CONSTELLATION
71
YAVAPAI COUNTY
MARICOPA COUNTY
WICKENBURG
AGUILA
MORRISTOWN
CIRCLE CITY
60
WITTMANN
Legend
City
Interstate
Major Roadway
Major Stream
Watershed Boundary
10 Digit HUC Boundaries
Incorporated Areas
County Boundary
Ownership/Management
Bureau of Land Management
Bureau of Reclamation
County
Forest Service
Local or State Parks
Military
Private
State Trust
0 2.5 5 10
Miles
YOUNGTOWN
PEORIA
GLENDALE
TONOPAH
LITCHFIELD PARK
10
PERRYVILLE
TOLLESON
AVONDALE
GOODYEAR
CASHION
WINTERSBURG
BUCKEYE
LIBERTY
PALO VERDE
LAVEEN
HASSAYAMPA
ARLINGTON
Data Sources: Arizona Land Information System (ALRIS), Natural Resource Conservation Service (NRCS). 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 16, 2008 has_landownership.mxd

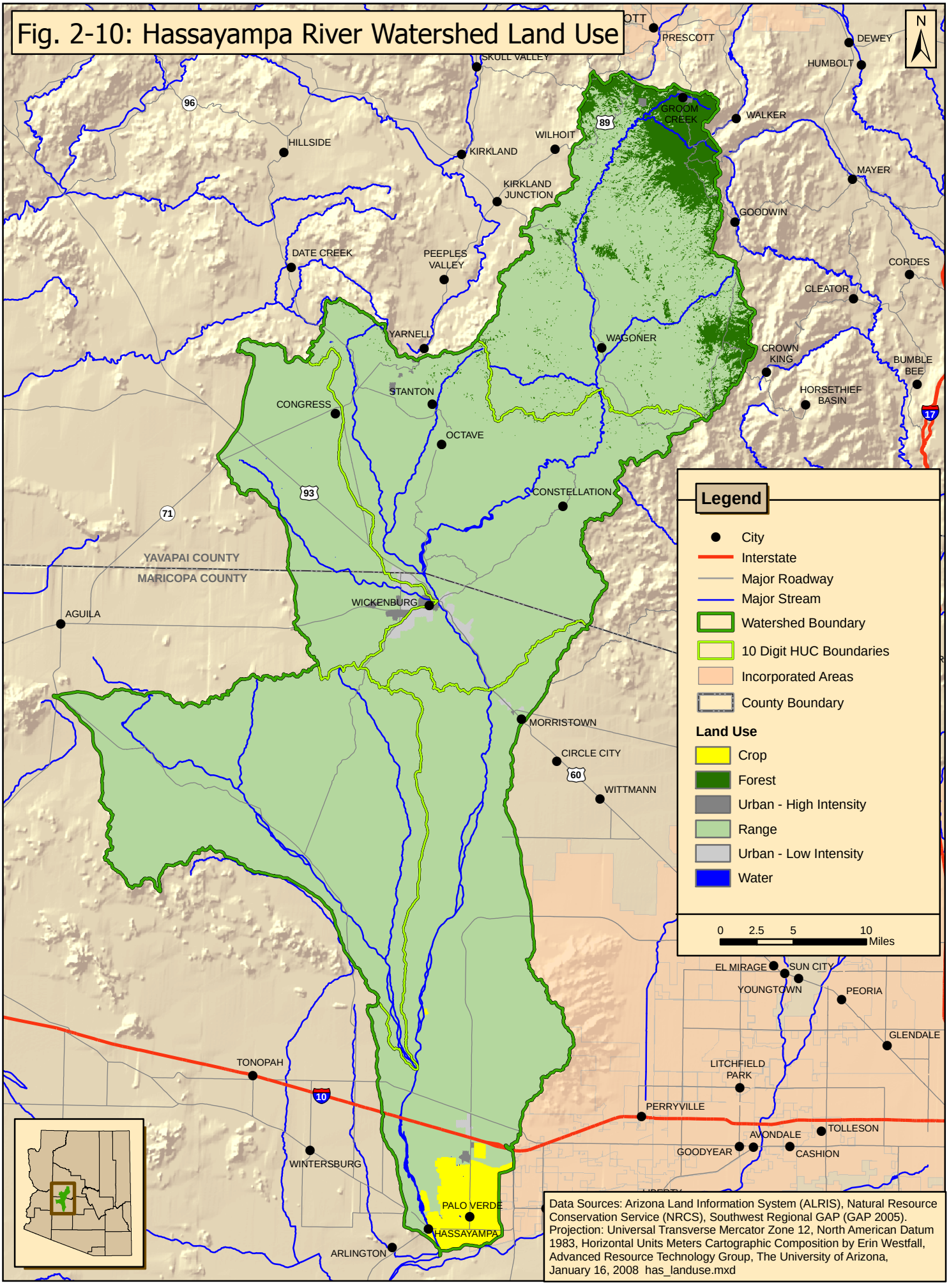
Fig. 2-10: Hassayampa River Watershed Land Use
N
PRESCOTT
DEWEY
HUMBOLT
SKULL VALLEY
GROOM CREEK
WALKER
WILHOIT
HILLSIDE
KIRKLAND
KIRKLAND JUNCTION
MAYER
GOODWIN
DATE CREEK
PEEPLES VALLEY
CORDES
CLEATOR
YARNELL
WAGONER
CROWN KING
BUMBLE BEE
HORSETHIEF BASIN
STANTON
CONGRESS
OCTAVE
CONSTELLATION
YAVAPAI COUNTY
MARICOPA COUNTY
WICKENBURG
AGUILA
MORRISTOWN
CIRCLE CITY
WITTMANN
EL MIRAGE
SUN CITY
YOUNGTOWN
PEORIA
GLENDALE
LITCHFIELD PARK
TONOPAH
PERRYVILLE
AVONDALE
TOLLESON
GOODYEAR
CASHION
WINTERSBURG
PALO VERDE
HASSAYAMPA
ARLINGTON
Legend
City
Interstate
Major Roadway
Major Stream
Watershed Boundary
10 Digit HUC Boundaries
Incorporated Areas
County Boundary
Land Use
Crop
Forest
Urban - High Intensity
Range
Urban - Low Intensity
Water
0 2.5 5 10
Miles
Data Sources: Arizona Land Information System (ALRIS), Natural Resource Conservation Service (NRCS), Southwest Regional GAP (GAP 2005).
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 16, 2008 has_landuse.mxd

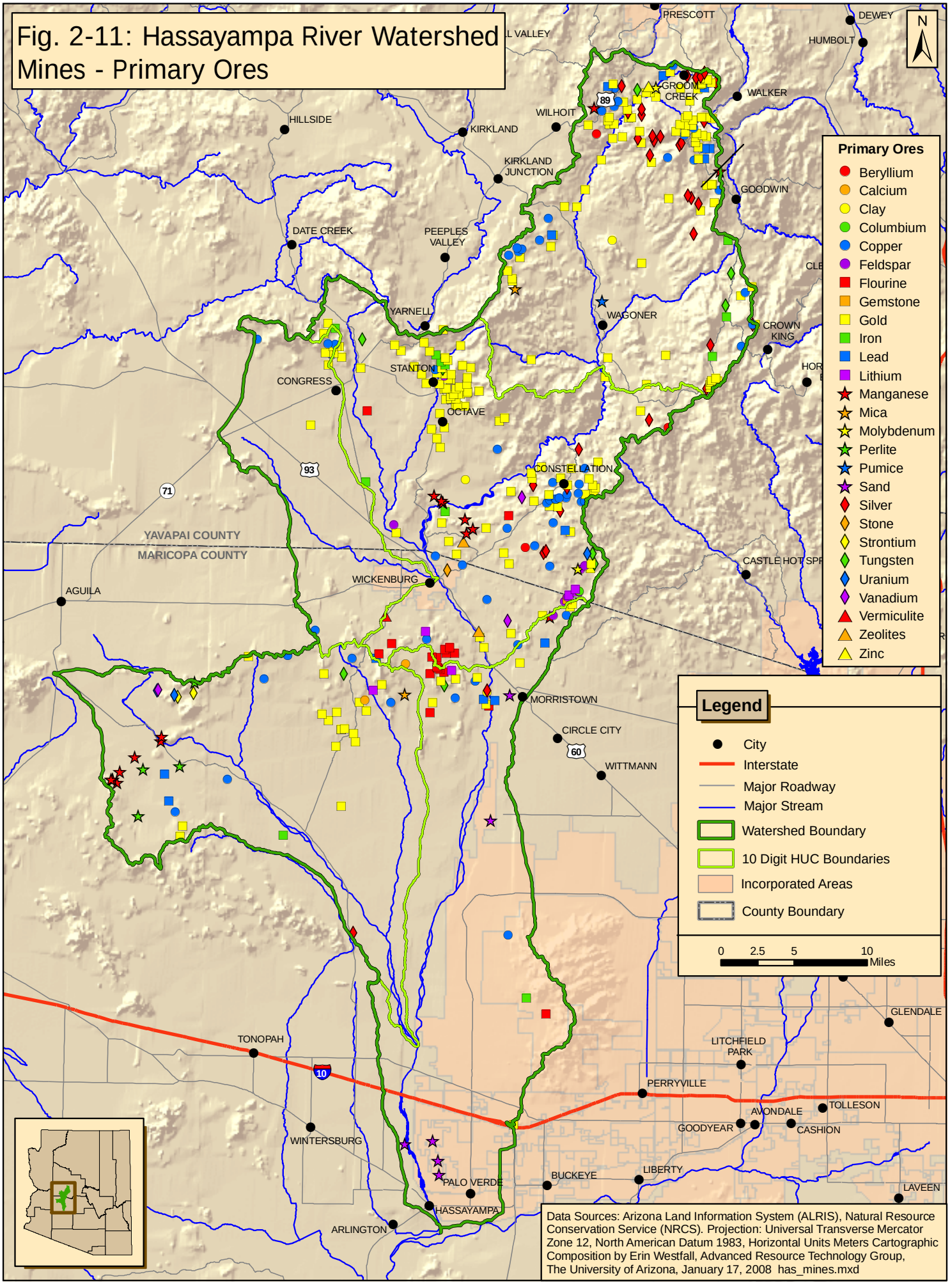
Fig. 2-11: Hassayampa River Watershed Mines - Primary Ores
N
PRESCOTT
DEWEY
HUMBOLT
WALKER
GROOM CREEK
WILHOIT
HILLSIDE
KIRKLAND
KIRKLAND JUNCTION
GOODWIN
DATE CREEK
PEEPLES VALLEY
YARNELL
WAGONER
CROWN KING
STANTON
CONGRESS
OCTAVE
CONSTELLATION
YAVAPAI COUNTY
MARICOPA COUNTY
AGUILA
WICKENBURG
CASTLE HOT SPR
MORRISTOWN
CIRCLE CITY
WITTMANN
TONOPAH
GLENDALE
LITCHFIELD PARK
PERRYVILLE
AVONDALE
TOLLESON
GOODYEAR
CASHION
WINTERSBURG
BUCKEYE
LIBERTY
PALO VERDE
HASSAYAMPA
ARLINGTON
LAVEEN
Primary Ores
Beryllium
Calcium
Clay
Columbium
Copper
Feldspar
Flourine
Gemstone
Gold
Iron
Lead
Lithium
Manganese
Mica
Molybdenum
Perlite
Pumice
Sand
Silver
Stone
Strontium
Tungsten
Uranium
Vanadium
Vermiculite
Zeolites
Zinc
Legend
City
Interstate
Major Roadway
Major Stream
Watershed Boundary
10 Digit HUC Boundaries
Incorporated Areas
County Boundary
0 2.5 5 10
Miles
Data Sources: Arizona Land Information System (ALRIS), Natural Resource Conservation Service (NRCS). 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 17, 2008 has_mines.mxd

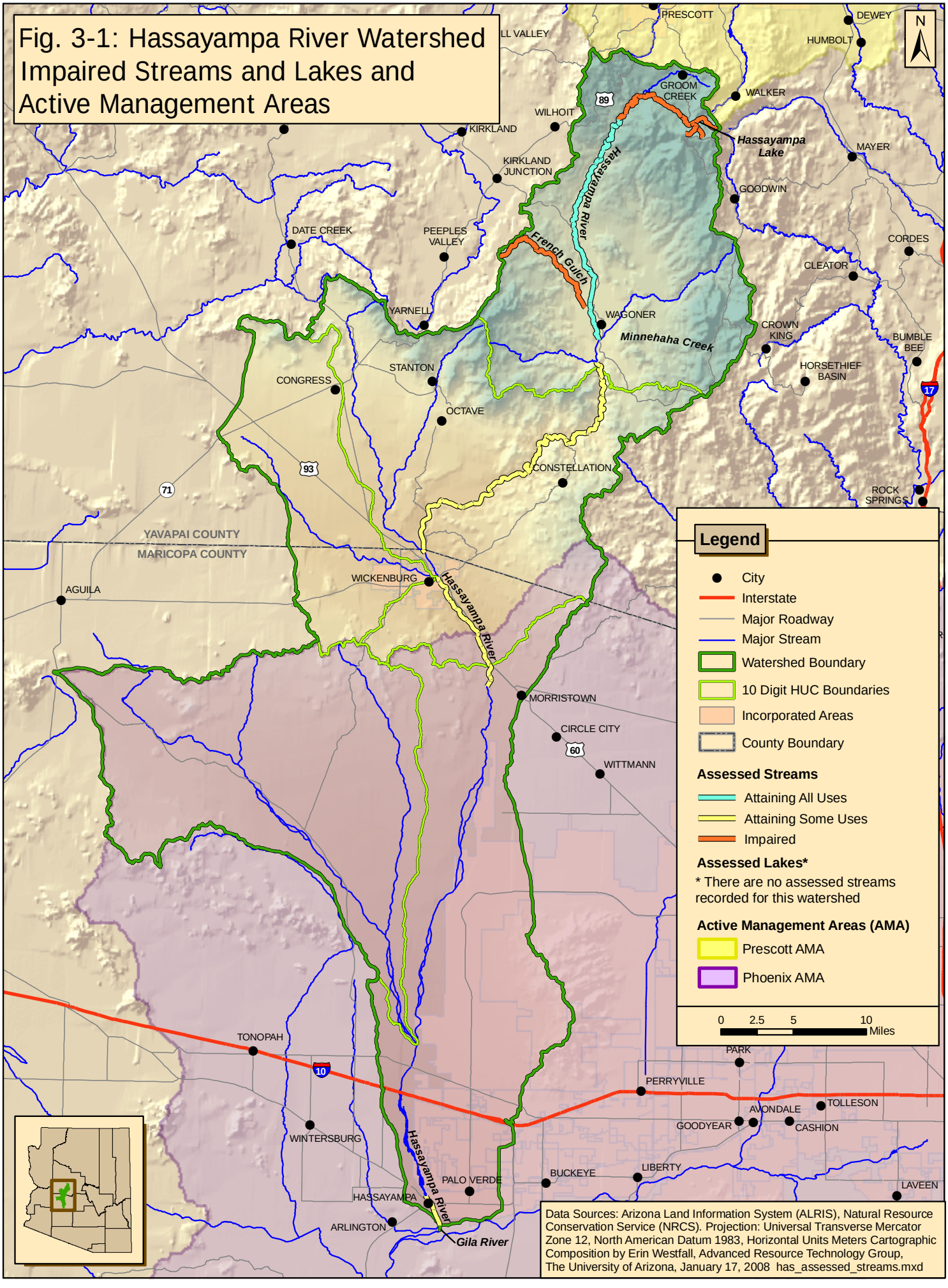
Fig. 3-1: Hassayampa River Watershed Impaired Streams and Lakes and Active Management Areas
N
PRESCOTT
DEWEY
HUMBOLT
LL VALLEY
GROOM CREEK
WALKER
89
WILHOIT
KIRKLAND
Hassayampa Lake
MAYER
KIRKLAND JUNCTION
Hassayampa River
GOODWIN
DATE CREEK
PEEPLES VALLEY
French Gulch
CORDES
CLEATOR
YARNELL
WAGONER
Minnehaha Creek
CROWN KING
BUMBLE BEE
STANTON
HORSETHIEF BASIN
CONGRESS
17
OCTAVE
93
CONSTELLATION
71
ROCK SPRINGS
YAVAPAI COUNTY
MARICOPA COUNTY
WICKENBURG
Hassayampa River
AGUILA
MORRISTOWN
CIRCLE CITY
60
WITTMANN
Legend
City
Interstate
Major Roadway
Major Stream
Watershed Boundary
10 Digit HUC Boundaries
Incorporated Areas
County Boundary
Assessed Streams
Attaining All Uses
Attaining Some Uses
Impaired
Assessed Lakes*
* There are no assessed streams recorded for this watershed
Active Management Areas (AMA)
Prescott AMA
Phoenix AMA
0 2.5 5 10 Miles
TONOPAH
10
PARK
PERRYVILLE
TOLLESON
AVONDALE
GOODYEAR
CASHION
WINTERSBURG
Hassayampa River
BUCKEYE
LIBERTY
PALO VERDE
LAVEEN
HASSAYAMPA
ARLINGTON
Gila River
Data Sources: Arizona Land Information System (ALRIS), Natural Resource Conservation Service (NRCS). 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 17, 2008 has_assessed_streams.mxd

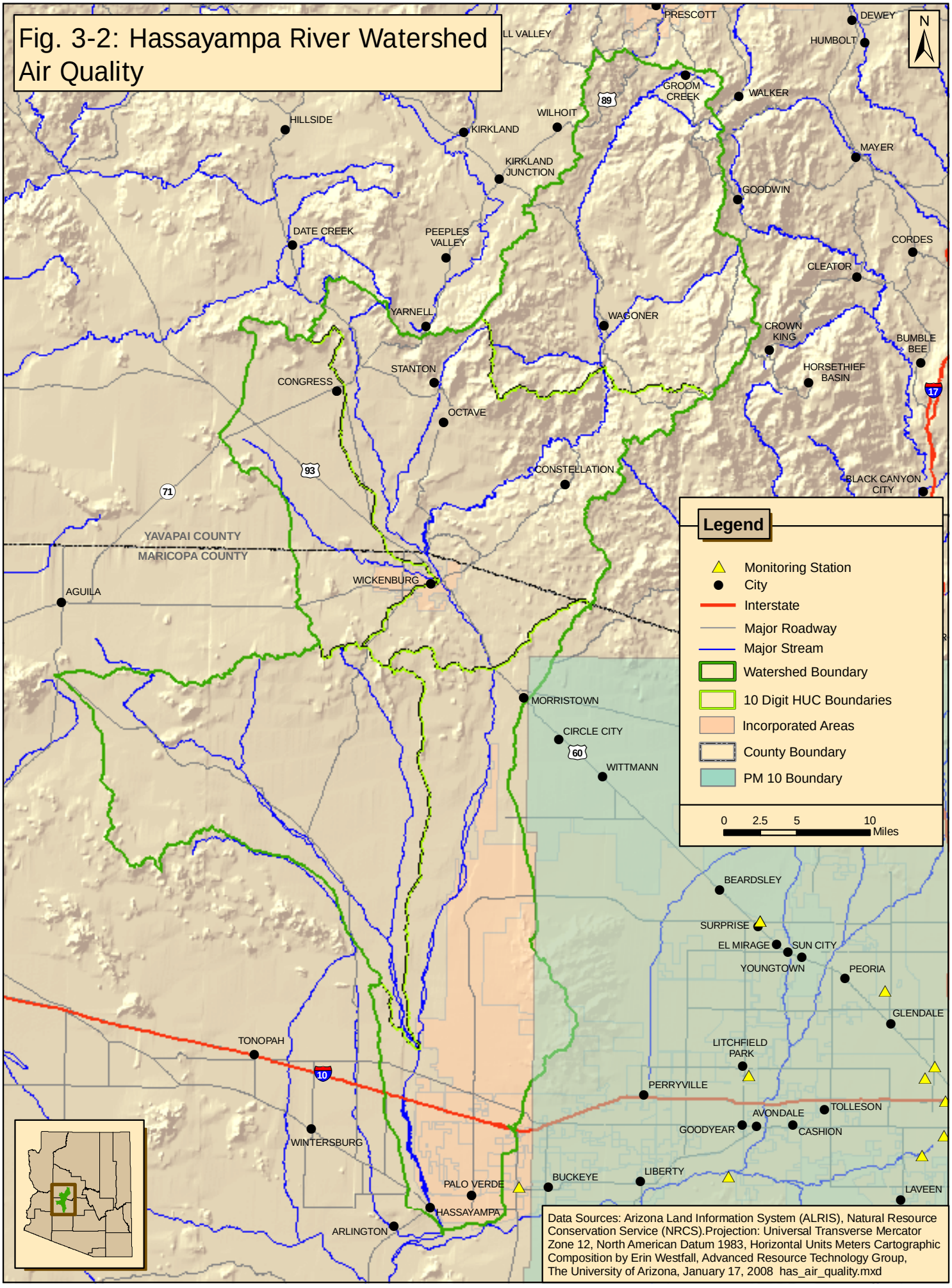
Fig. 3-2: Hassayampa River Watershed Air Quality
N
PRESCOTT
DEWEY
HUMBOLT
LL VALLEY
GROOM CREEK
WALKER
89
WILHOIT
HILLSIDE
KIRKLAND
MAYER
KIRKLAND JUNCTION
GOODWIN
DATE CREEK
PEEPLES VALLEY
CORDES
CLEATOR
YARNELL
WAGONER
CROWN KING
BUMBLE BEE
HORSETHIEF BASIN
STANTON
CONGRESS
17
OCTAVE
93
CONSTELLATION
71
BLACK CANYON CITY
YAVAPAI COUNTY
MARICOPA COUNTY
WICKENBURG
AGUILA
MORRISTOWN
CIRCLE CITY
60
WITTMANN
Legend
Monitoring Station
City
Interstate
Major Roadway
Major Stream
Watershed Boundary
10 Digit HUC Boundaries
Incorporated Areas
County Boundary
PM 10 Boundary
0 2.5 5 10 Miles
BEARDSLEY
SURPRISE
EL MIRAGE
SUN CITY
YOUNGTOWN
PEORIA
GLENDALE
TONOPAH
LITCHFIELD PARK
10
PERRYVILLE
TOLLESON
AVONDALE
GOODYEAR
CASHION
WINTERSBURG
BUCKEYE
LIBERTY
PALO VERDE
LAVEEN
HASSAYAMPA
ARLINGTON
Data Sources: Arizona Land Information System (ALRIS), Natural Resource Conservation Service (NRCS).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 17, 2008 has_air_quality.mxd

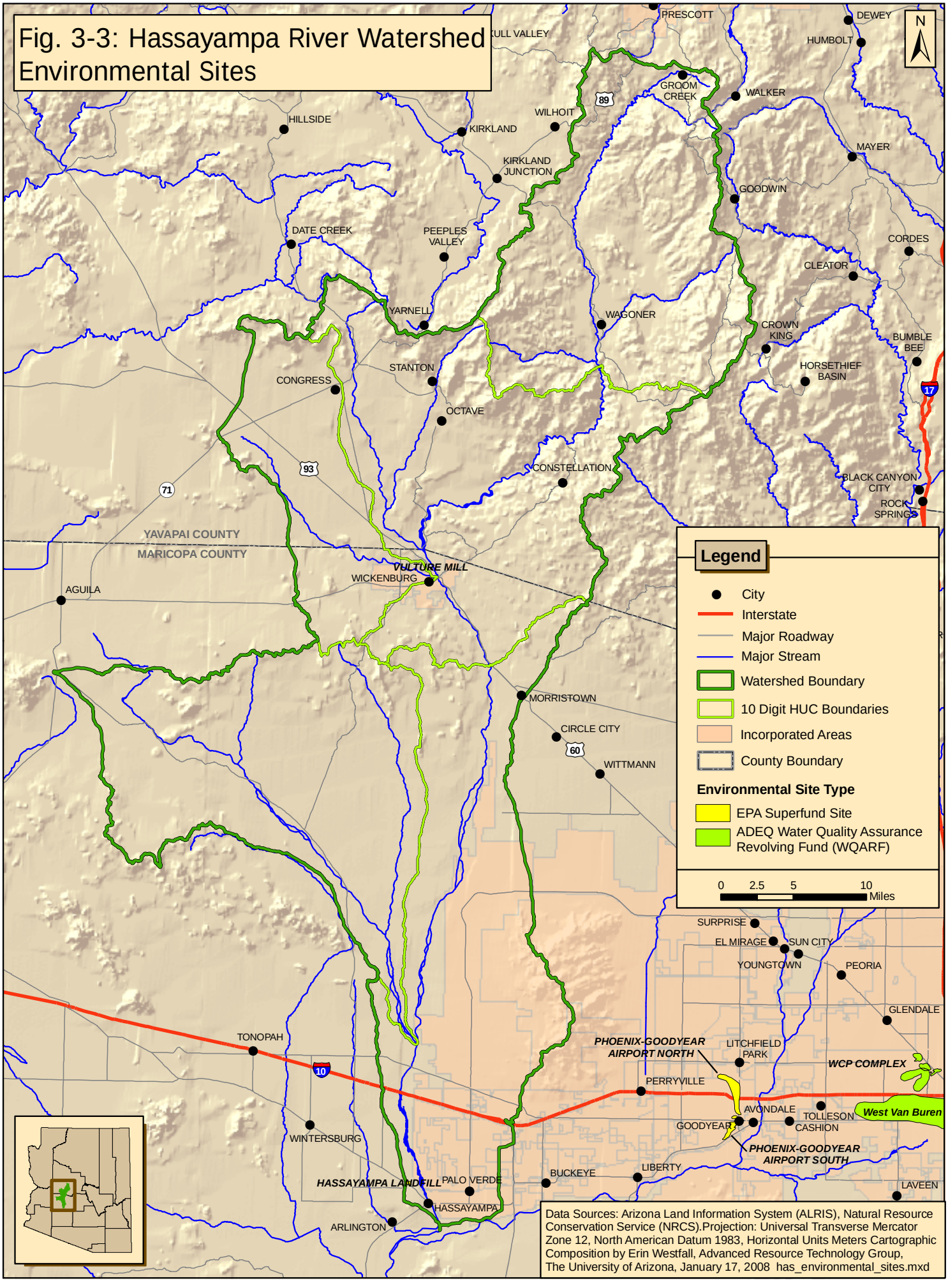
Fig. 3-3: Hassayampa River Watershed Environmental Sites
N
PRESCOTT
DEWEY
HUMBOLT
KULL VALLEY
GROOM CREEK
WALKER
89
WILHOIT
HILLSIDE
KIRKLAND
MAYER
KIRKLAND JUNCTION
GOODWIN
DATE CREEK
PEEPLES VALLEY
CORDES
CLEATOR
YARNELL
WAGONER
CROWN KING
BUMBLE BEE
HORSETHIEF BASIN
STANTON
CONGRESS
17
OCTAVE
93
CONSTELLATION
71
BLACK CANYON CITY
ROCK SPRINGS
YAVAPAI COUNTY
MARICOPA COUNTY
VULTURE MILL
WICKENBURG
AGUILA
MORRISTOWN
CIRCLE CITY
60
WITTMANN
Legend
City
Interstate
Major Roadway
Major Stream
Watershed Boundary
10 Digit HUC Boundaries
Incorporated Areas
County Boundary
Environmental Site Type
EPA Superfund Site
ADEQ Water Quality Assurance Revolving Fund (WQARF)
0 2.5 5 10
Miles
SURPRISE
EL MIRAGE
SUN CITY
YOUNGTOWN
PEORIA
GLENDALE
TONOPAH
PHOENIX-GOODYEAR AIRPORT NORTH
LITCHFIELD PARK
WCP COMPLEX
10
PERRYVILLE
AVONDALE
TOLLESON
West Van Buren
GOODYEAR
CASHION
WINTERSBURG
PHOENIX-GOODYEAR AIRPORT SOUTH
LIBERTY
BUCKEYE
HASSAYAMPA LANDFILL
PALO VERDE
LAVEEN
HASSAYAMPA
ARLINGTON
Data Sources: Arizona Land Information System (ALRIS), Natural Resource Conservation Service (NRCS).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 17, 2008 has_environmental_sites.mxd

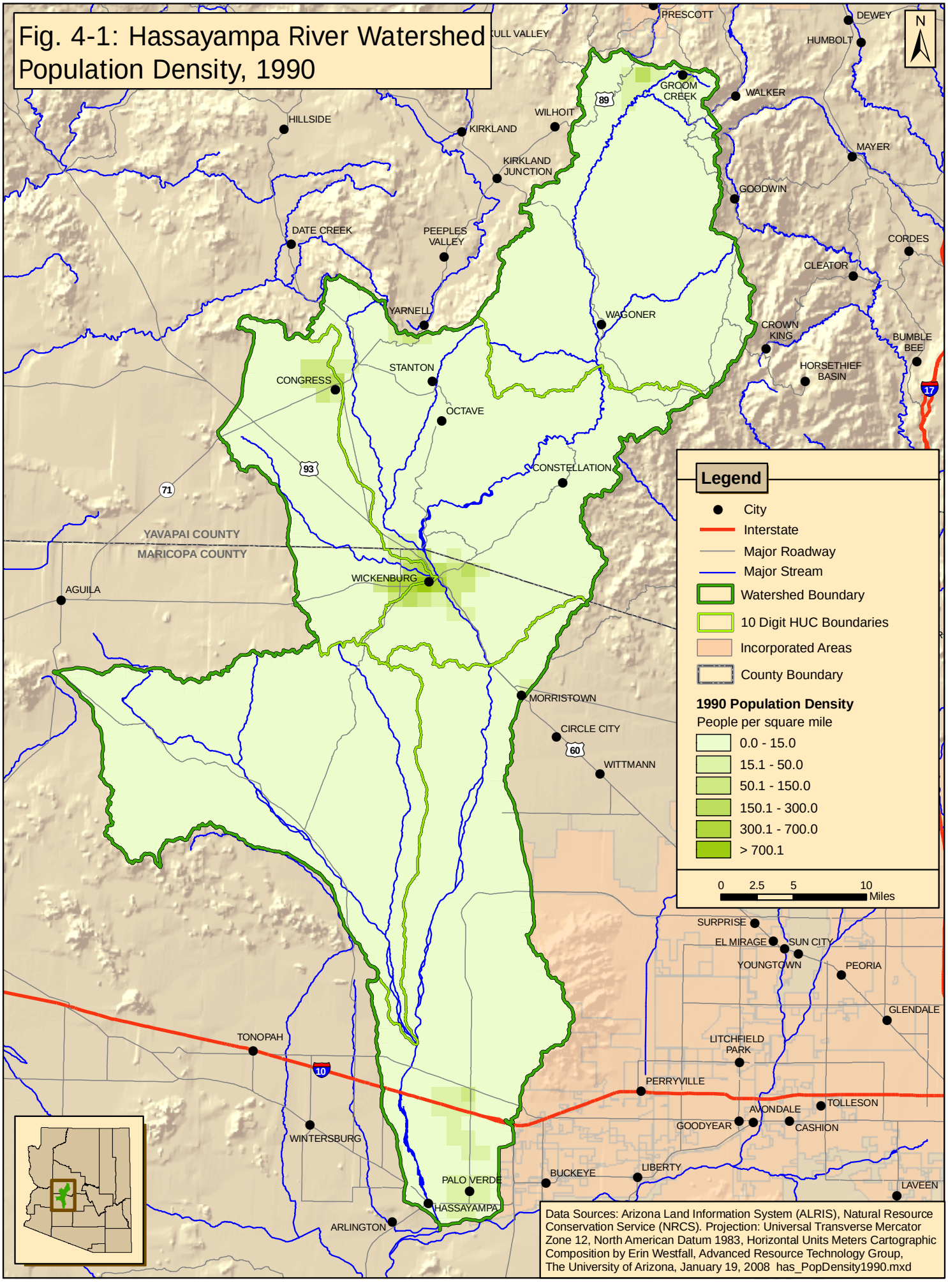
Fig. 4-1: Hassayampa River Watershed
Population Density, 1990
N
PRESCOTT
DEWEY
HUMBOLT
GROOM CREEK
WALKER
WILHOIT
KIRKLAND
HILLSIDE
MAYER
KIRKLAND JUNCTION
GOODWIN
DATE CREEK
PEEPLES VALLEY
CORDES
CLEATOR
YARNELL
WAGONER
CROWN KING
BUMBLE BEE
HORSETHIEF BASIN
STANTON
CONGRESS
OCTAVE
CONSTELLATION
93
71
YAVAPAI COUNTY
MARICOPA COUNTY
WICKENBURG
AGUILA
MORRISTOWN
CIRCLE CITY
60
WITTMANN
Legend
City
Interstate
Major Roadway
Major Stream
Watershed Boundary
10 Digit HUC Boundaries
Incorporated Areas
County Boundary
1990 Population Density
People per square mile
0.0 - 15.0
15.1 - 50.0
50.1 - 150.0
150.1 - 300.0
300.1 - 700.0
> 700.1
0 2.5 5 10
Miles
SURPRISE
EL MIRAGE
SUN CITY
YOUNGTOWN
PEORIA
GLENDALE
LITCHFIELD PARK
TONOPAH
10
PERRYVILLE
TOLLESON
AVONDALE
GOODYEAR
CASHION
WINTERSBURG
BUCKEYE
LIBERTY
PALO VERDE
LAVEEN
HASSAYAMPA
ARLINGTON
Data Sources: Arizona Land Information System (ALRIS), Natural Resource Conservation Service (NRCS). 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 19, 2008 has_PopDensity1990.mxd

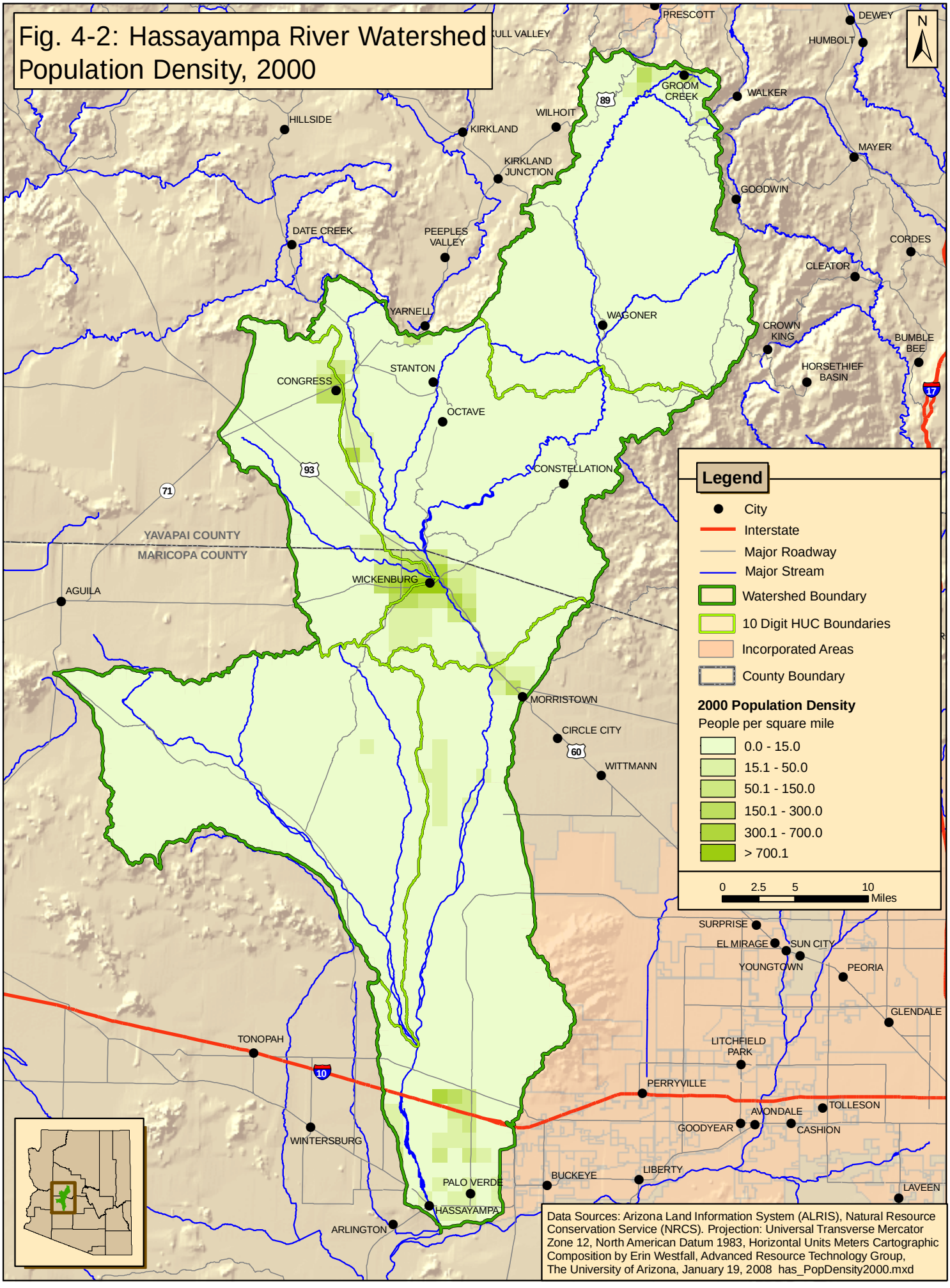
Fig. 4-2: Hassayampa River Watershed
Population Density, 2000
N
PRESCOTT
DEWEY
HUMBOLT
KULL VALLEY
GROOM CREEK
WALKER
89
WILHOIT
HILLSIDE
KIRKLAND
MAYER
KIRKLAND JUNCTION
GOODWIN
DATE CREEK
PEEPLES VALLEY
CORDES
CLEATOR
YARNELL
WAGONER
CROWN KING
BUMBLE BEE
HORSETHIEF BASIN
STANTON
CONGRESS
OCTAVE
17
93
CONSTELLATION
71
YAVAPAI COUNTY
MARICOPA COUNTY
WICKENBURG
AGUILA
MORRISTOWN
CIRCLE CITY
60
WITTMANN
Legend
City
Interstate
Major Roadway
Major Stream
Watershed Boundary
10 Digit HUC Boundaries
Incorporated Areas
County Boundary
2000 Population Density
People per square mile
0.0 - 15.0
15.1 - 50.0
50.1 - 150.0
150.1 - 300.0
300.1 - 700.0
> 700.1
0 2.5 5 10
Miles
SURPRISE
EL MIRAGE
SUN CITY
YOUNGTOWN
PEORIA
GLENDALE
LITCHFIELD PARK
TONOPAH
10
PERRYVILLE
TOLLESON
AVONDALE
GOODYEAR
CASHION
WINTERSBURG
BUCKEYE
LIBERTY
PALO VERDE
LAVEEN
HASSAYAMPA
ARLINGTON
Data Sources: Arizona Land Information System (ALRIS), Natural Resource Conservation Service (NRCS). 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 19, 2008 has_PopDensity2000.mxd

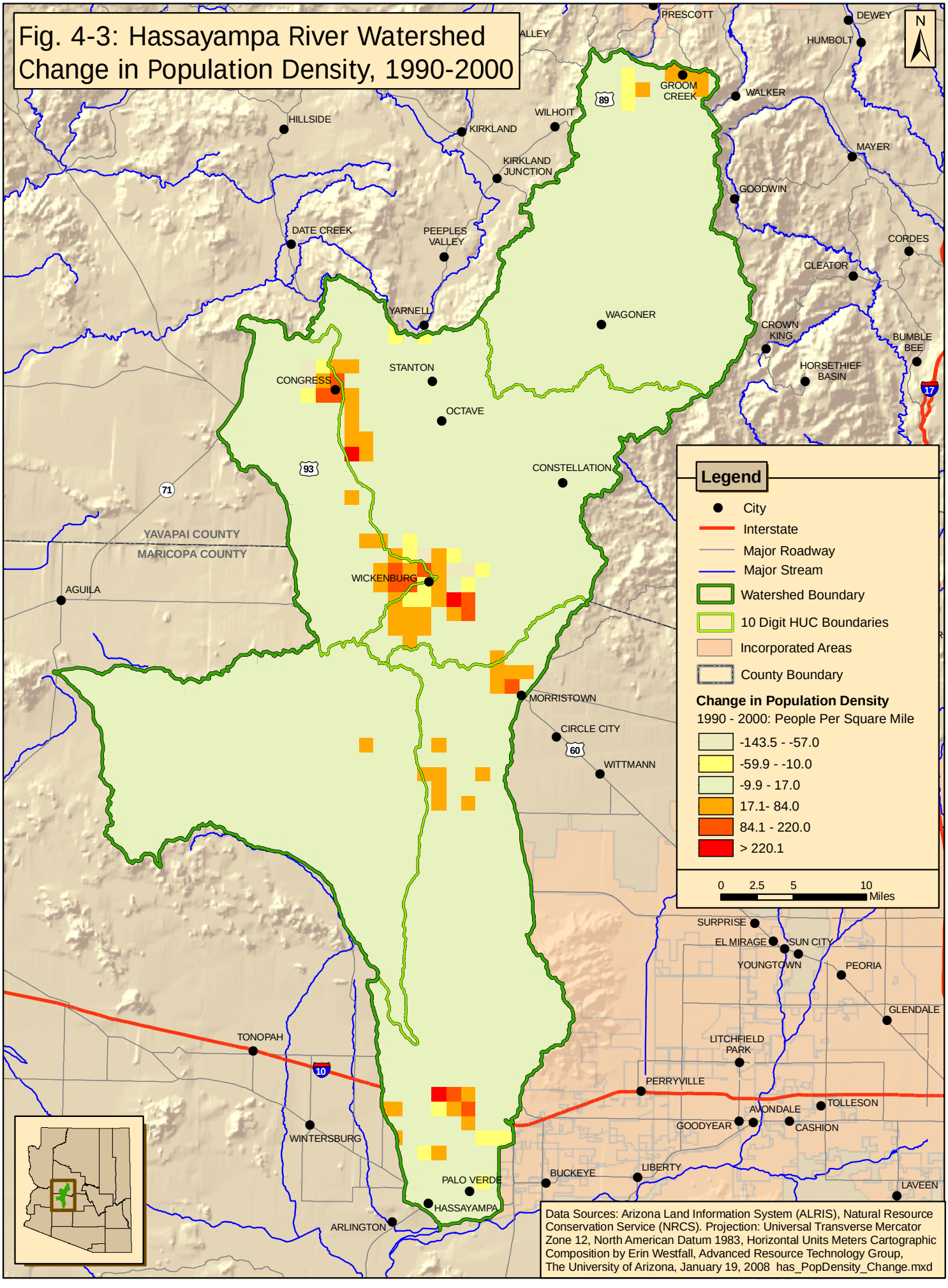
Fig. 4-3: Hassayampa River Watershed
Change in Population Density, 1990-2000
N
PRESCOTT
DEWEY
HUMBOLT
ALLEY
GROOM CREEK
WALKER
89
WILHOIT
HILLSIDE
KIRKLAND
KIRKLAND JUNCTION
MAYER
GOODWIN
DATE CREEK
PEEPLES VALLEY
CORDES
CLEATOR
YARNELL
WAGONER
CROWN KING
BUMBLE BEE
HORSETHIEF BASIN
17
STANTON
CONGRESS
OCTAVE
93
CONSTELLATION
71
YAVAPAI COUNTY
MARICOPA COUNTY
WICKENBURG
AGUILA
MORRISTOWN
CIRCLE CITY
60
WITTMANN
Legend
City
Interstate
Major Roadway
Major Stream
Watershed Boundary
10 Digit HUC Boundaries
Incorporated Areas
County Boundary
Change in Population Density
1990 - 2000: People Per Square Mile
-143.5 - -57.0
-59.9 - -10.0
-9.9 - 17.0
17.1- 84.0
84.1 - 220.0
> 220.1
0 2.5 5 10
Miles
SURPRISE
EL MIRAGE
SUN CITY
YOUNGTOWN
PEORIA
GLENDALE
LITCHFIELD PARK
TONOPAH
10
PERRYVILLE
TOLLESON
AVONDALE
GOODYEAR
CASHION
WINTERSBURG
BUCKEYE
LIBERTY
PALO VERDE
LAVEEN
HASSAYAMPA
ARLINGTON
Data Sources: Arizona Land Information System (ALRIS), Natural Resource Conservation Service (NRCS). 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 19, 2008 has_PopDensity_Change.mxd

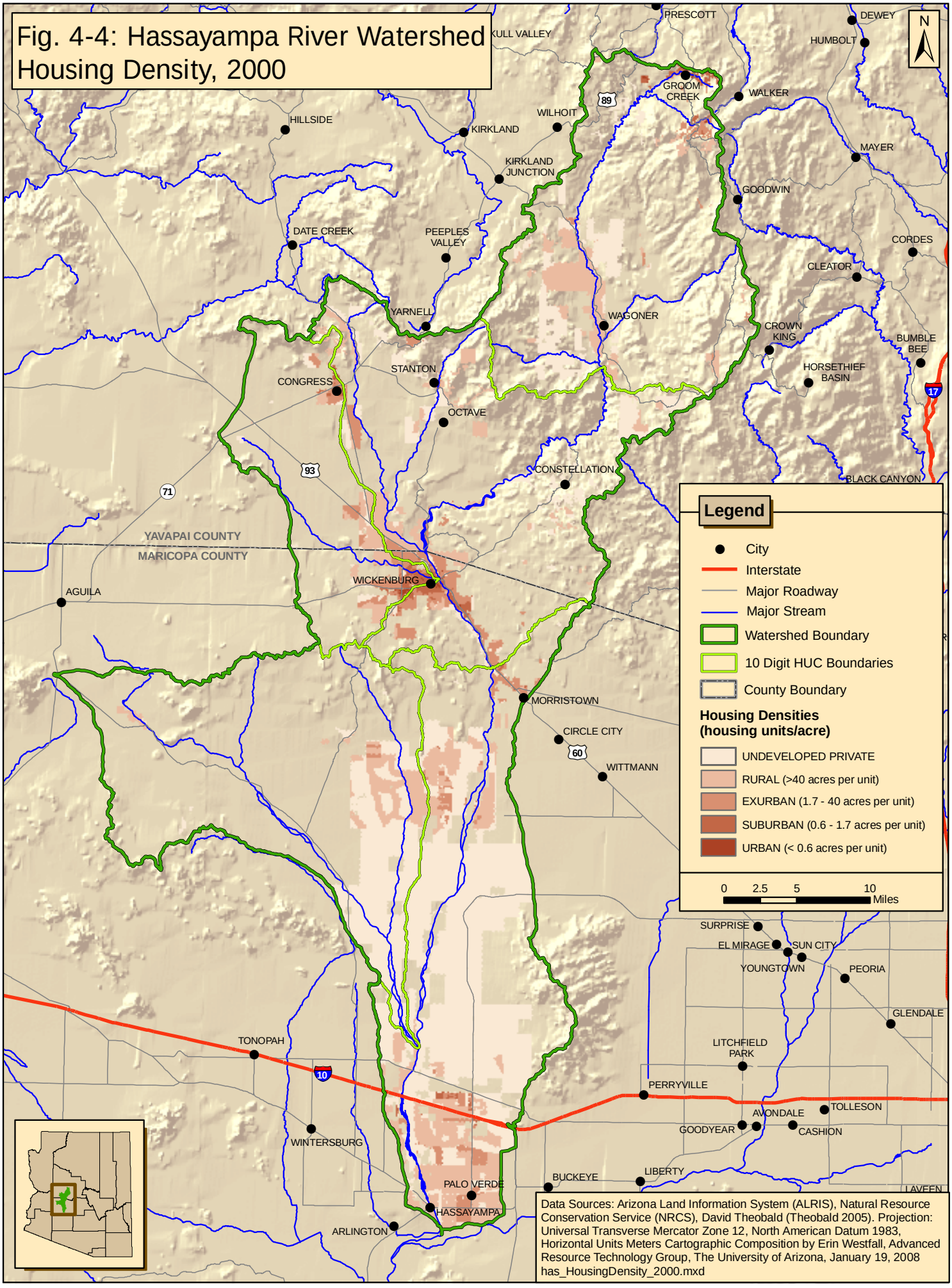
Fig. 4-4: Hassayampa River Watershed
Housing Density, 2000
N
PRESCOTT
DEWEY
HUMBOLT
KULL VALLEY
GROOM CREEK
WALKER
89
WILHOIT
HILLSIDE
KIRKLAND
MAYER
KIRKLAND JUNCTION
GOODWIN
DATE CREEK
PEEPLES VALLEY
CORDES
CLEATOR
YARNELL
WAGONER
CROWN KING
BUMBLE BEE
STANTON
HORSETHIEF BASIN
CONGRESS
17
OCTAVE
93
CONSTELLATION
71
BLACK CANYON
YAVAPAI COUNTY
MARICOPA COUNTY
WICKENBURG
AGUILA
MORRISTOWN
CIRCLE CITY
60
WITTMANN
Legend
City
Interstate
Major Roadway
Major Stream
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
SURPRISE
EL MIRAGE
SUN CITY
YOUNGTOWN
PEORIA
GLENDALE
TONOPAH
LITCHFIELD PARK
10
PERRYVILLE
TOLLESON
AVONDALE
GOODYEAR
CASHION
WINTERSBURG
BUCKEYE
LIBERTY
PALO VERDE
HASSAYAMPA
ARLINGTON
LAVEEN
Data Sources: Arizona Land Information System (ALRIS), Natural Resource Conservation Service (NRCS), David Theobald (Theobald 2005). 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 19, 2008
has_HousingDensity_2000.mxd

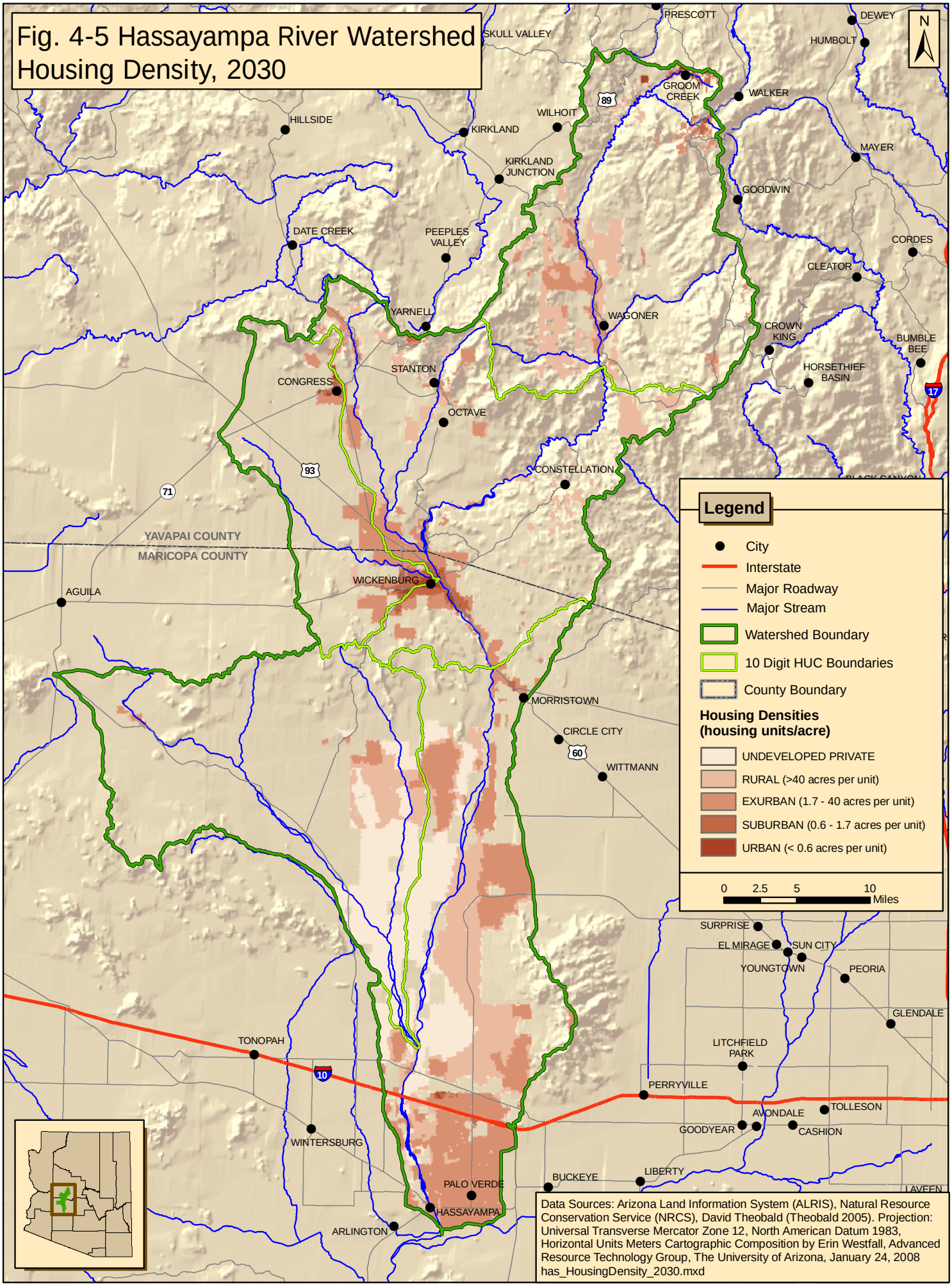
Fig. 4-5 Hassayampa River Watershed
Housing Density, 2030
N
PRESCOTT
DEWEY
HUMBOLT
SKULL VALLEY
GROOM CREEK
WALKER
89
WILHOIT
HILLSIDE
KIRKLAND
MAYER
KIRKLAND JUNCTION
GOODWIN
DATE CREEK
PEEPLES VALLEY
CORDES
CLEATOR
YARNELL
WAGONER
CROWN KING
BUMBLE BEE
STANTON
HORSETHIEF BASIN
CONGRESS
17
OCTAVE
93
CONSTELLATION
71
YAVAPAI COUNTY
MARICOPA COUNTY
WICKENBURG
AGUILA
MORRISTOWN
CIRCLE CITY
60
WITTMANN
Legend
City
Interstate
Major Roadway
Major Stream
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
SURPRISE
EL MIRAGE
SUN CITY
YOUNGTOWN
PEORIA
GLENDALE
LITCHFIELD PARK
TONOPAH
10
PERRYVILLE
TOLLESON
AVONDALE
GOODYEAR
CASHION
WINTERSBURG
BUCKEYE
LIBERTY
PALO VERDE
HASSAYAMPA
ARLINGTON
LAVEEN
Data Sources: Arizona Land Information System (ALRIS), Natural Resource Conservation Service (NRCS), David Theobald (Theobald 2005). 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 24, 2008
has_HousingDensity_2030.mxd