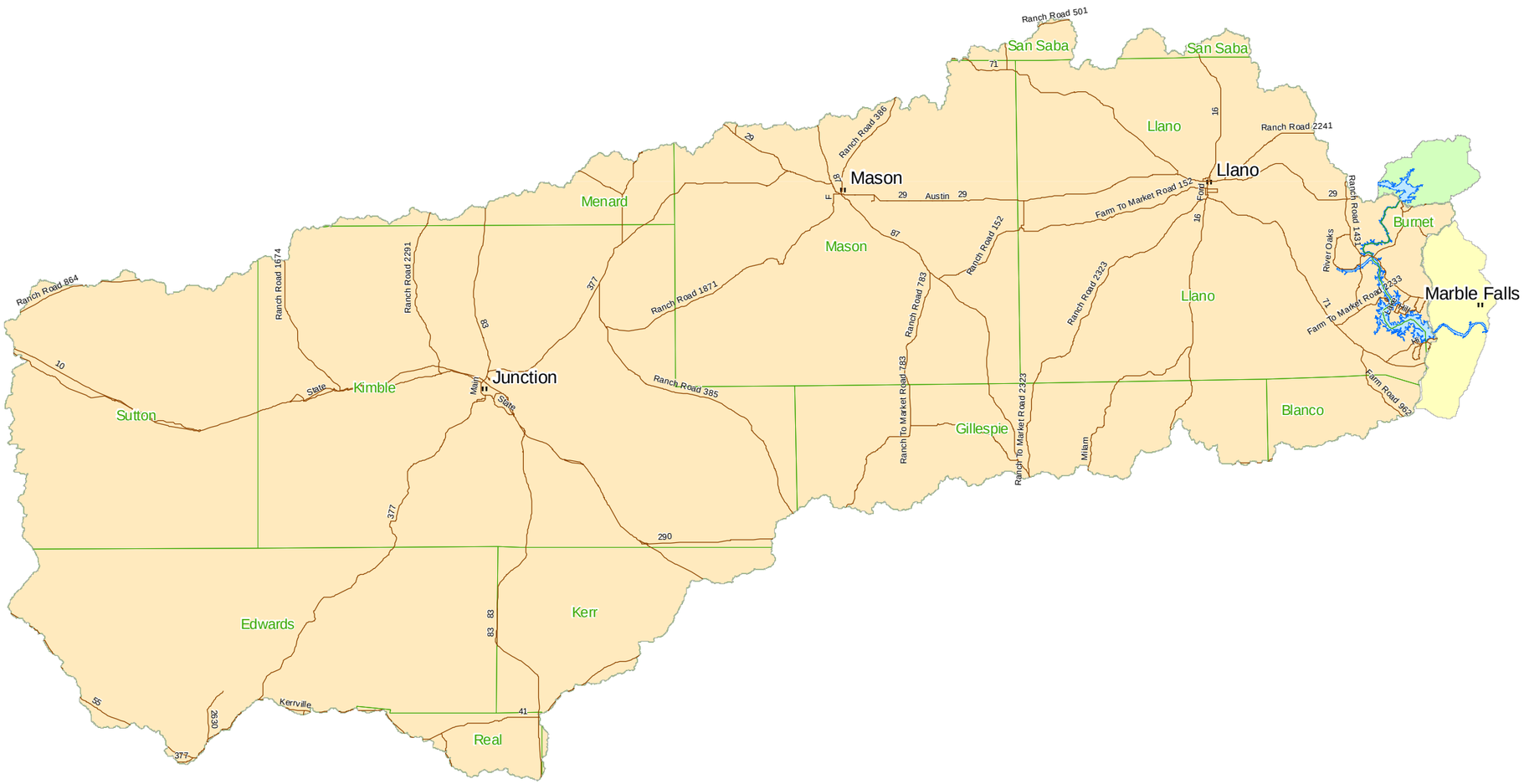

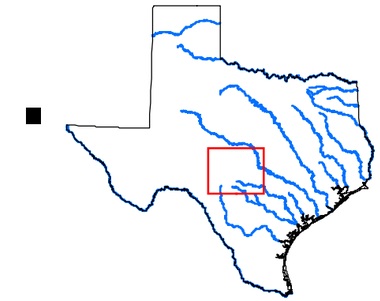

10 5 0 10 Miles

Legend

- " Major Cities
- Highways
- Counties
- Lake Marble Falls
- Lake Marble Falls Watershed
- Inks Lake Watershed
- Lake LBJ Watershed

Figure 3-1.
Phase 3 Watershed

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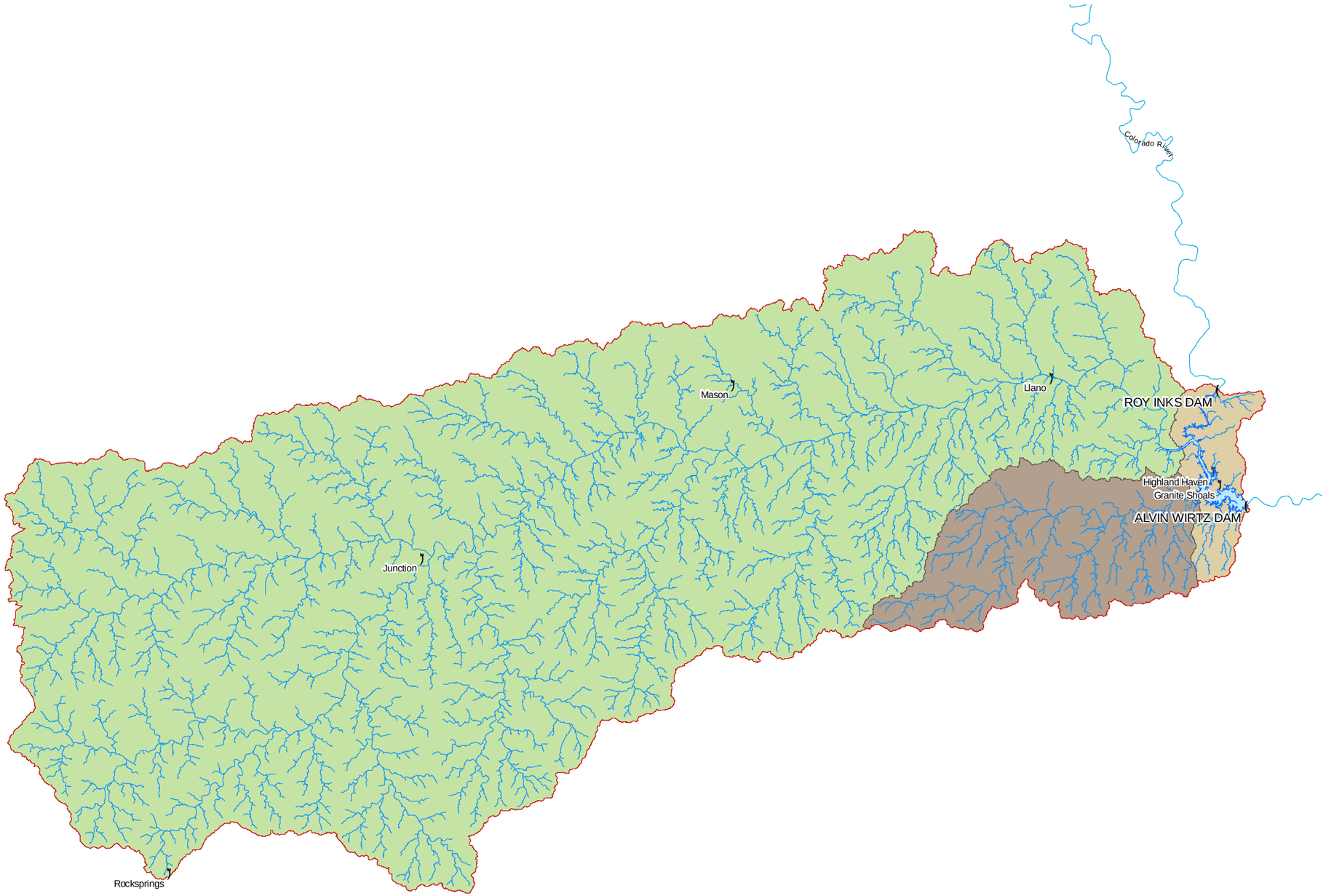

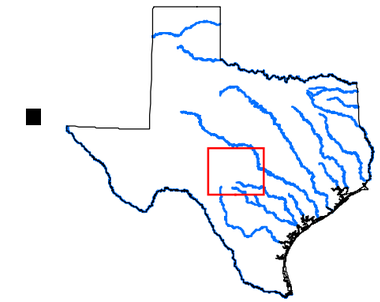

9 4.5 0 9 Miles

Legend

- Texas Cities
- Dam
- Stream
- Lake LBJ Watershed
- Lake LBJ

Lake LBJ Sub-watersheds

- Direct Drainage
- Llano River
- Sandy Creek

Figure 3-2.

Lake LBJ Watershed and Stream Network

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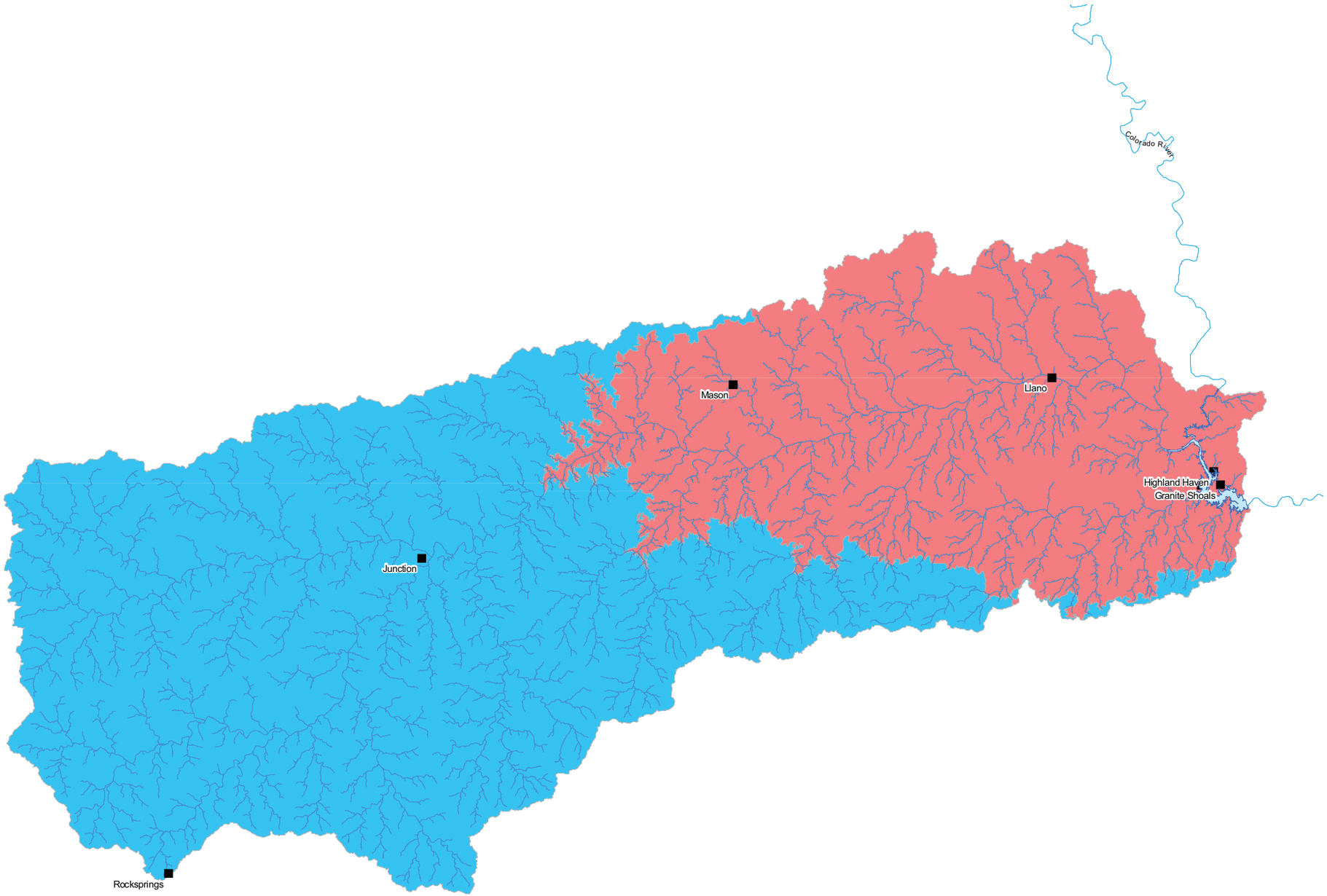

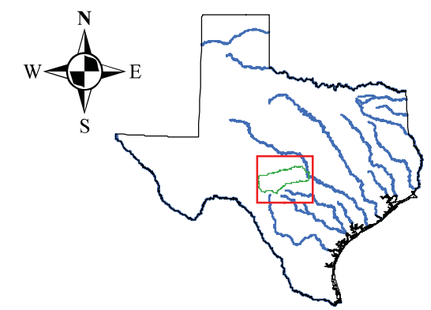

10 5 0 10 Miles

Legend

- Texas Cities
- Stream
- Lake LBJ
- Carbonate Karst
- Crystalline Rock

Figure 3-3.

Lake LBJ Watershed Geologic Regions (Modified TWDB 2009)

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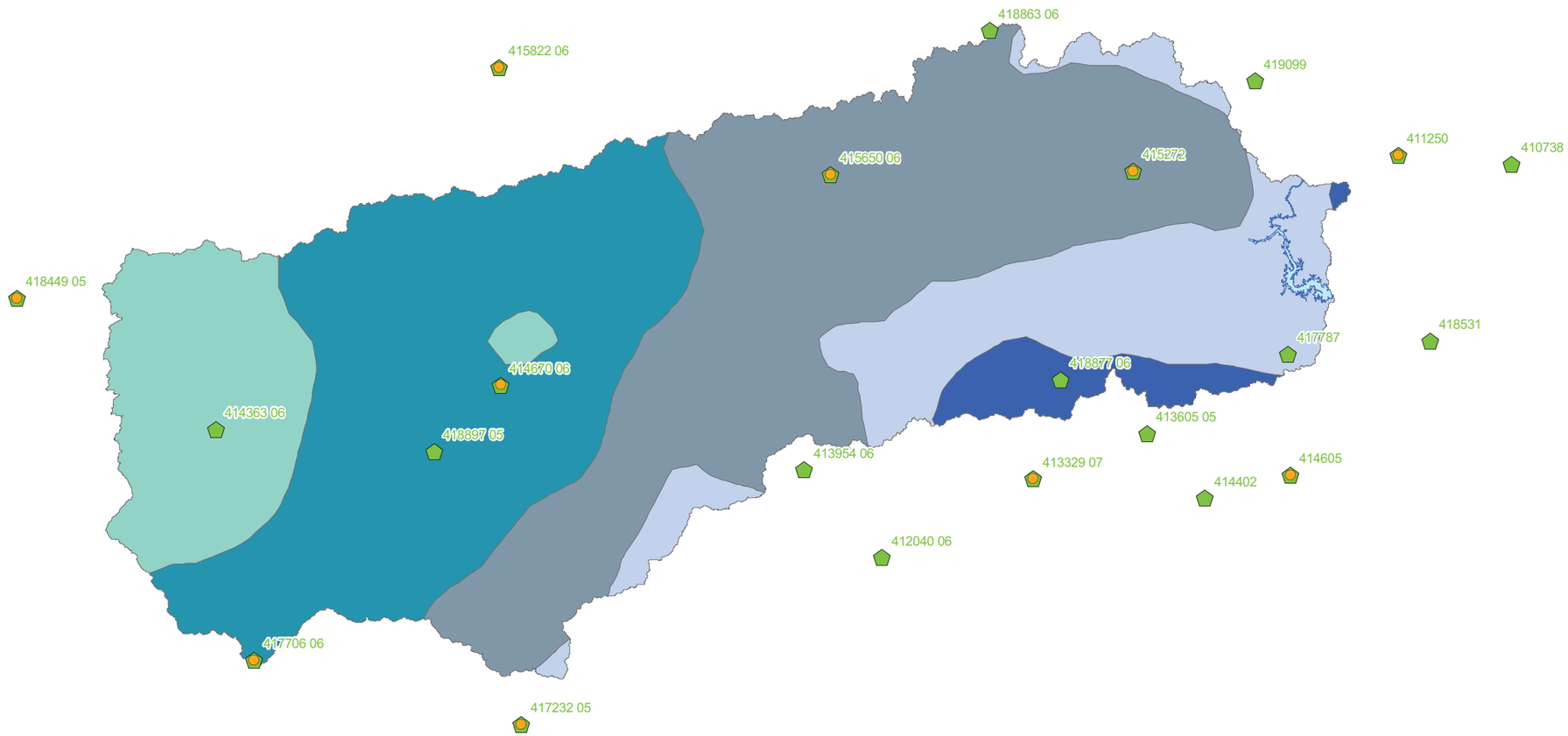

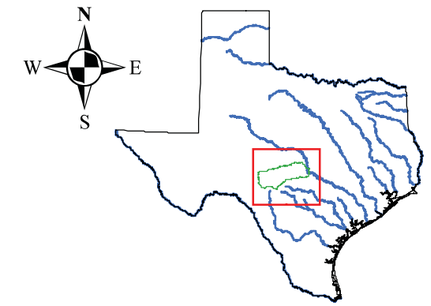

10 5 0 10 Miles

Legend

- Precipitation Gage
- Temperature Gage
- Lake LBJ

Precipitation (inches)

- 22-24
- 24-26
- 26-28
- 28-30
- 30-32

Figure 3-4.

Lake LBJ Watershed
Average Annual Precipitation
and Meteorological Stations

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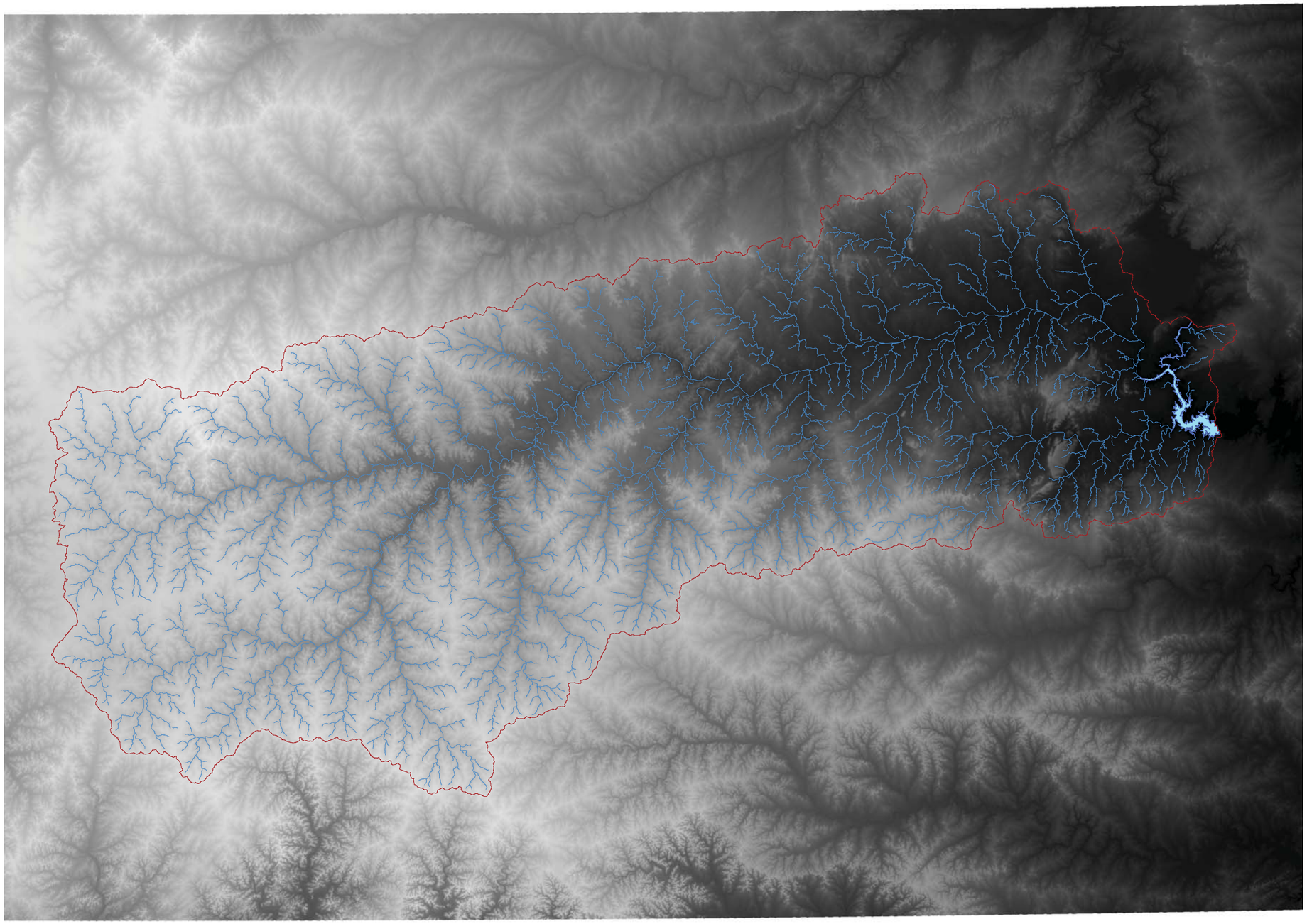

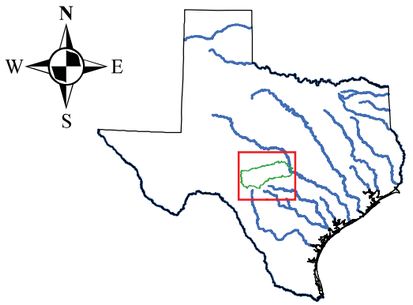

10 5 0 10 Miles

Legend

Lake LBJ

Stream

Lake LBJ Watershed

Elevation (m above msl)

High : 784.497

Low : 146.397

Figure 3-5.

Lake LBJ Watershed
with Digital Elevation Model

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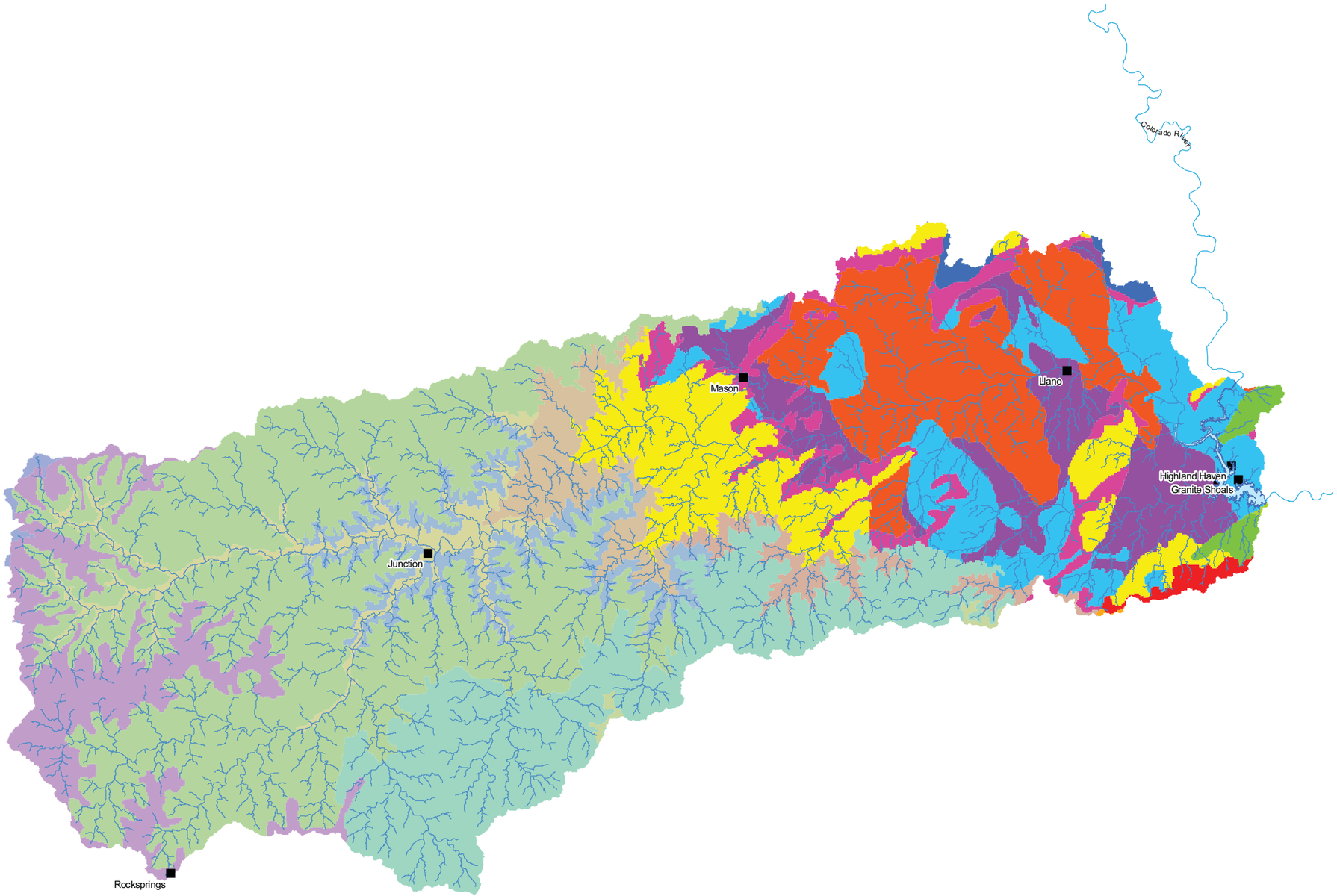
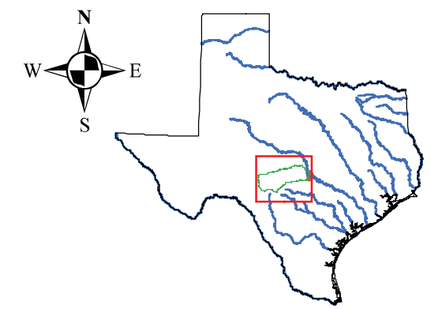
November 2010





10 5 0 10 Miles

Legend

- Texas Cities
- Stream
- Lake LBJ
- TX071
- TX089
- TX144
- TX151
- TX155
- TX227
- TX295
- TX360
- TX481
- TX488
- TX538
- TX253
- TX309
- TX327
- TX369
- TX542
- TX544
- TX546
- TX547
- TX565
- TX000

Figure 3-6.
Lake LBJ Watershed
STATSGO Classification

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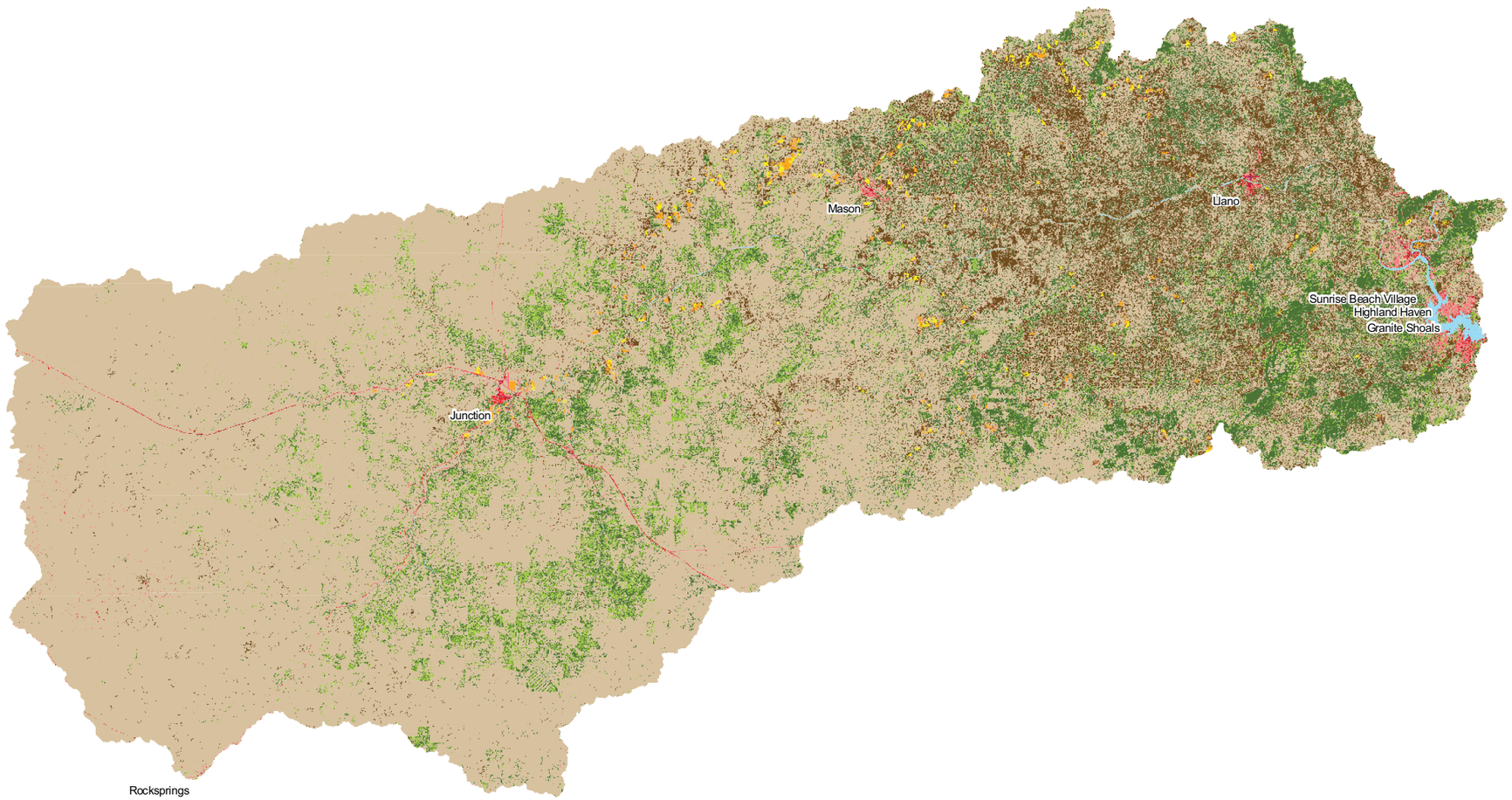

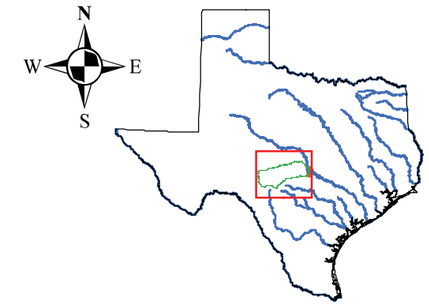

10 5 0 10 Miles

Legend

- Deciduous Forest
- Evergreen Forest
- Mixed Forest
- Forested Wetlands
- Agricultural Land-Row Crop
- Hay
- Range - Brush
- Range - Grasses
- Range - Southwestern Arid
- Residential-Low Density
- Residential-Medium Density
- Residential-High Density
- Industrial
- Water

Figure 3-7.

Lake LBJ Watershed
Land Cover

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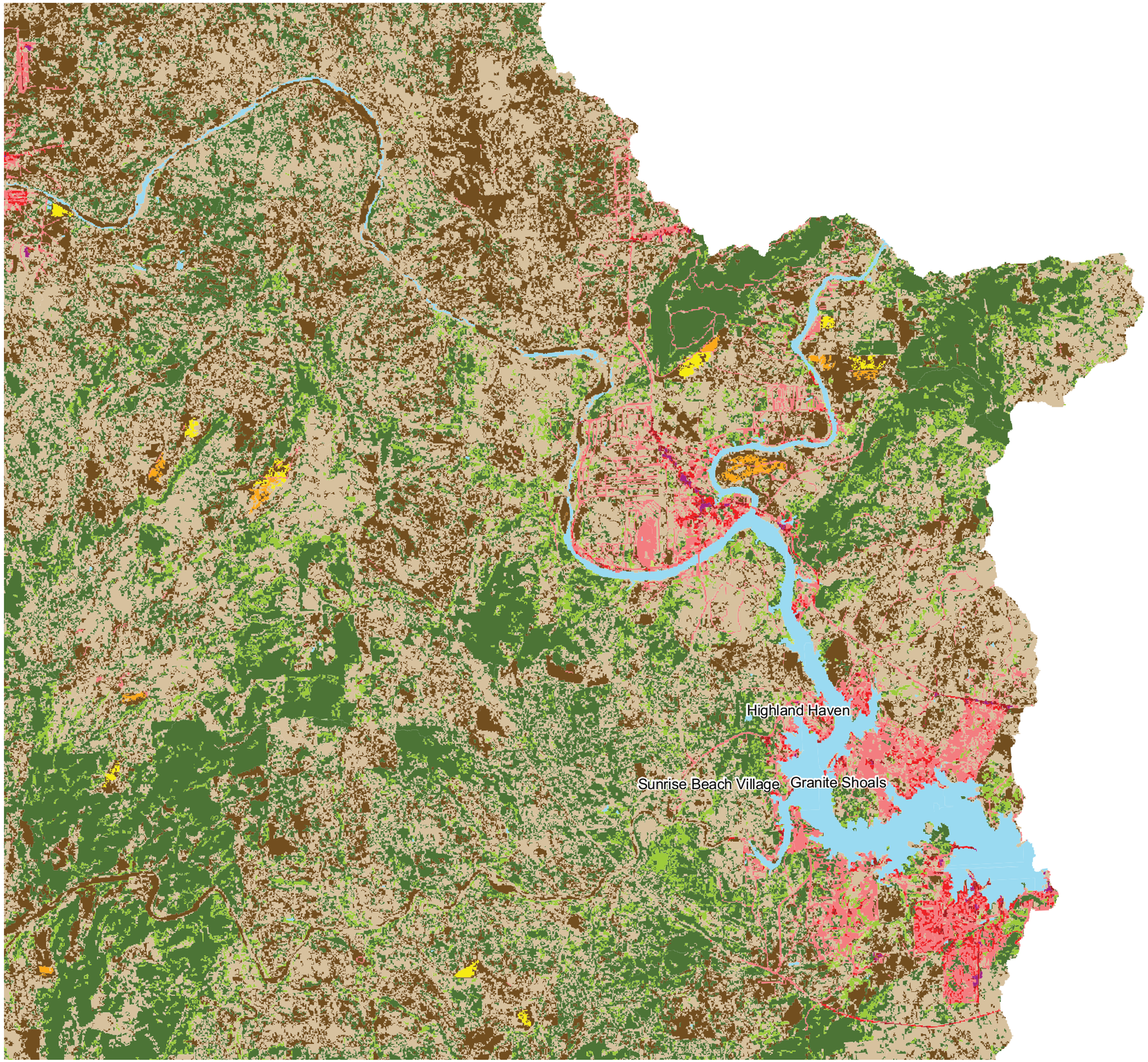
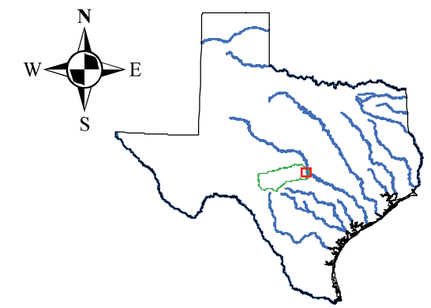
November 2010





2 1 0 2 Miles

Legend

- Deciduous Forest
- Evergreen Forest
- Mixed Forest
- Forested Wetlands
- Agricultural Land-Row Crop
- Hay
- Range - Brush
- Range - Grasses
- Range - Southwestern Arid
- Residential-Low Density
- Residential-Medium Density
- Residential-High Density
- Industrial
- Water

Figure 3-8.

Development near Lake LBJ

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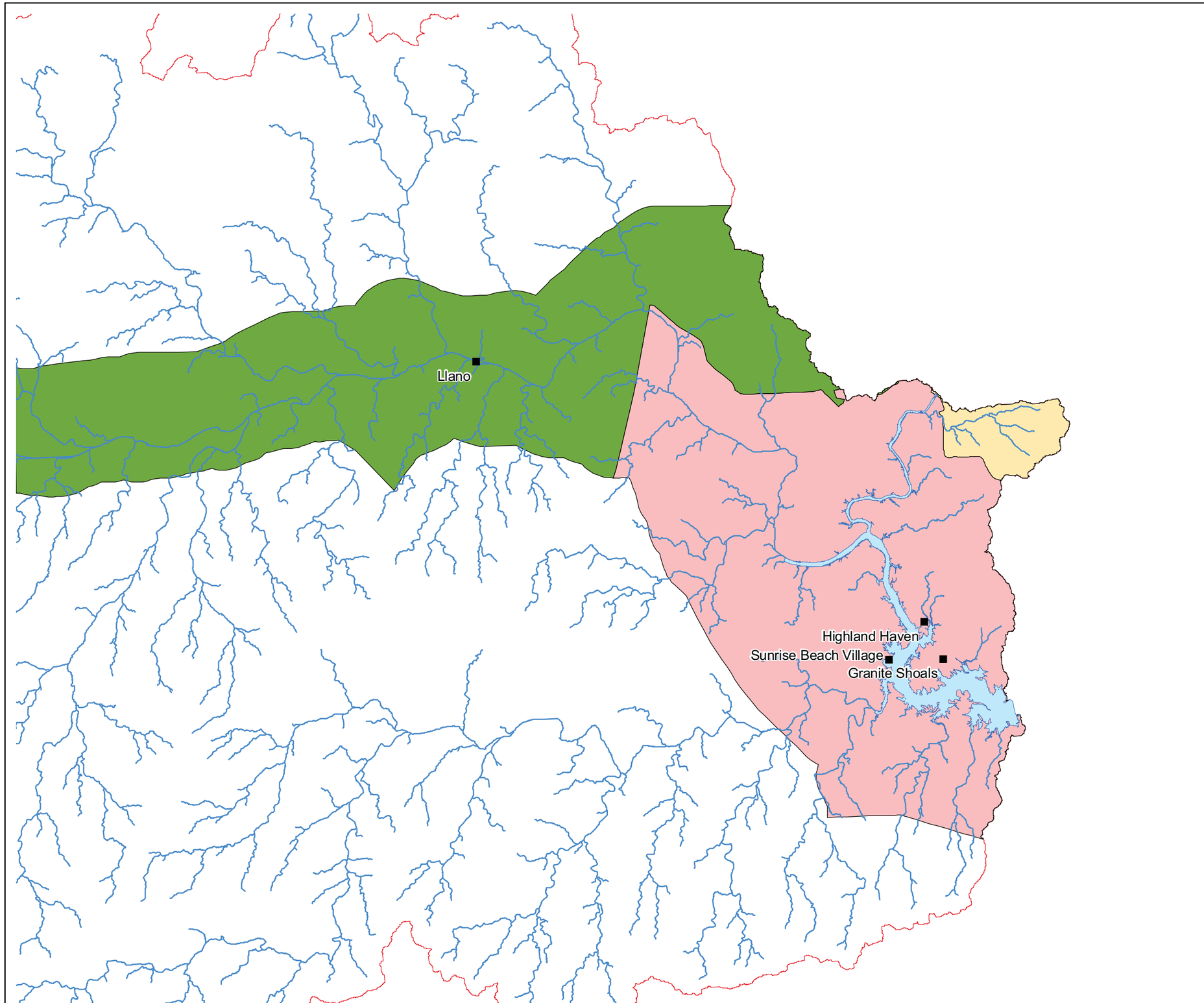
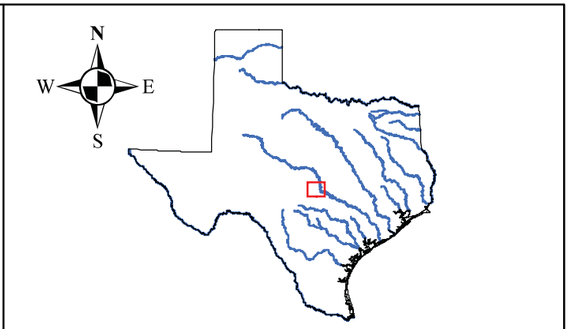
November 2010





4 2 0 4 Miles

Legend

- Texas Cities
- Stream
- Lake LBJ Watershed
- Lake LBJ

Highland Lakes Watershed Ordinance

- Region A
- Region B
- Region C

Figure 3-9.
Lake LBJ Watershed within the HLWO

LCRA
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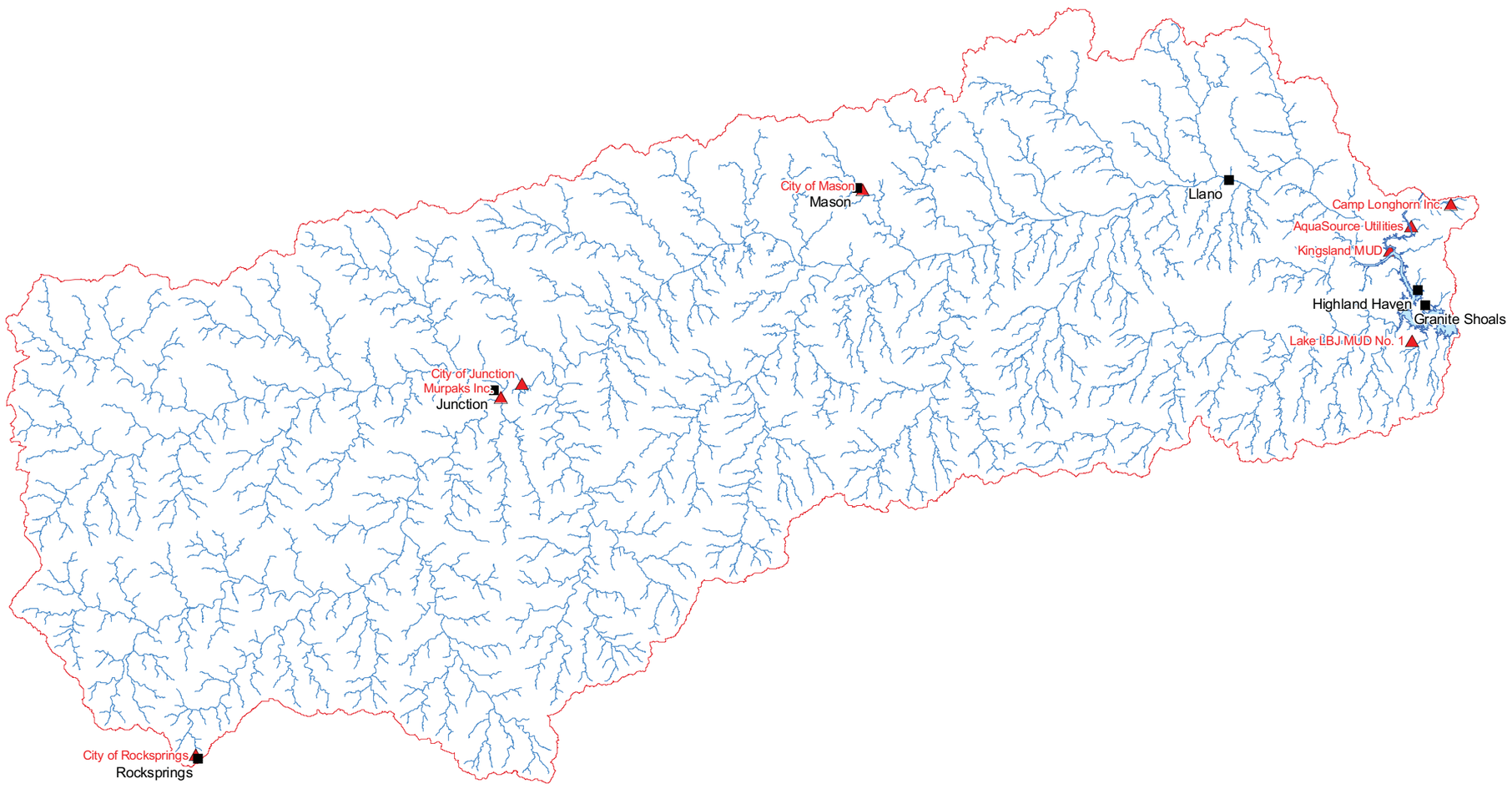
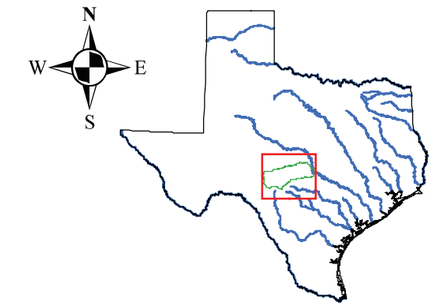
ANCHOR QEA

November 2010





10 5 0 10 Miles

Legend

- Texas Cities
- Permitted Discharger
- Stream
- Lake LBJ Watershed
- Lake LBJ

Figure 3-10.
Lake LBJ Watershed
Permitted Dischargers

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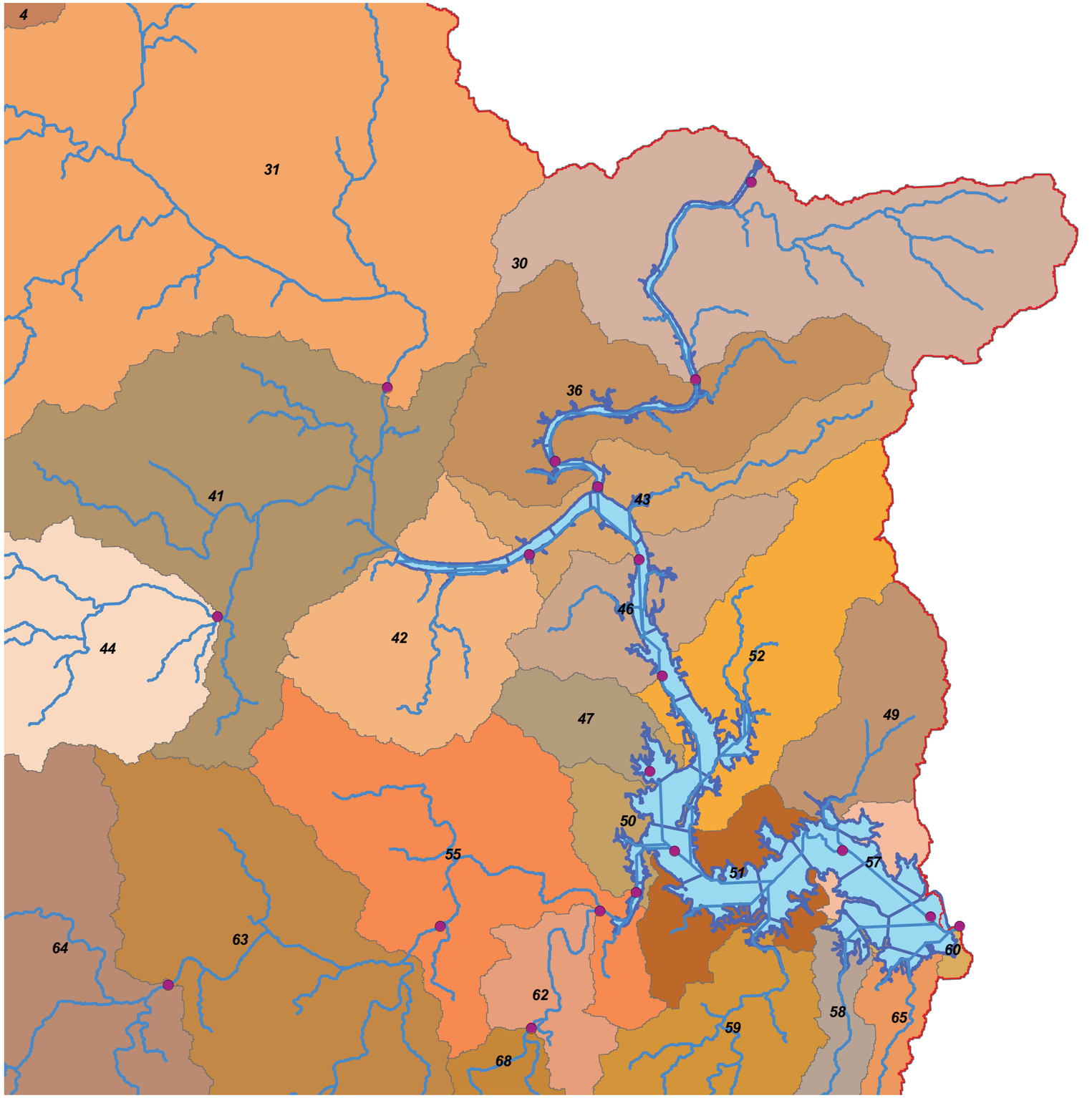
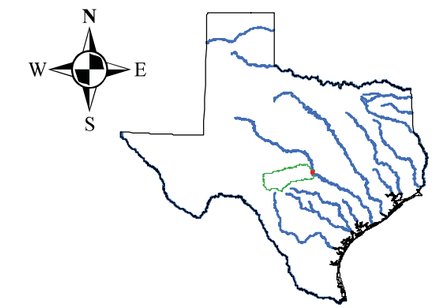
November 2010





2 1 0 2 Miles

Legend

- Pour Points
- Stream
- Lake LBJ Watershed
- Lake LBJ Model Segment
- SWAT Model Subbasin

Figure 3-11.

Lake LBJ Lake Model Segmentation and Watershed Model Pour Points

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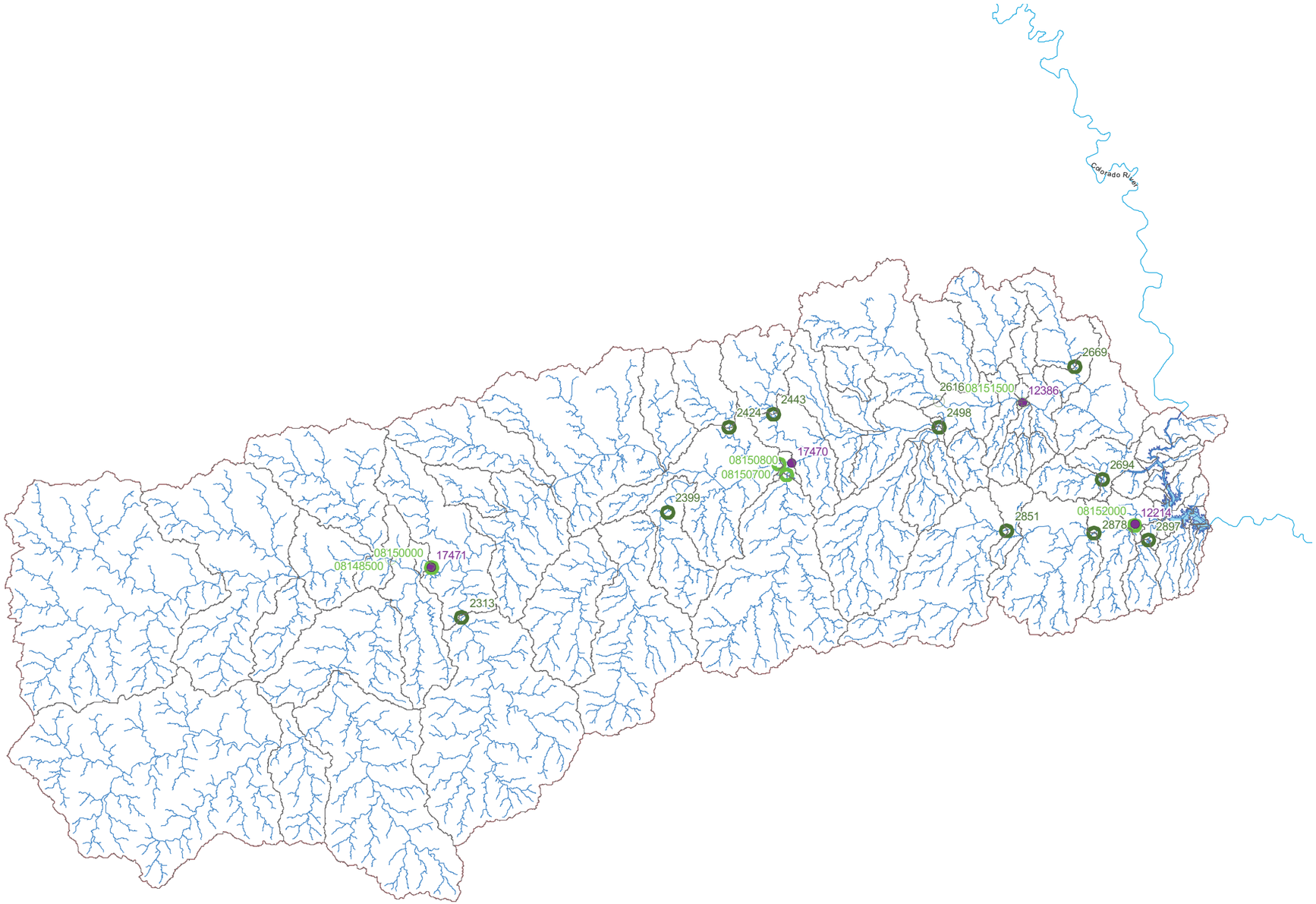

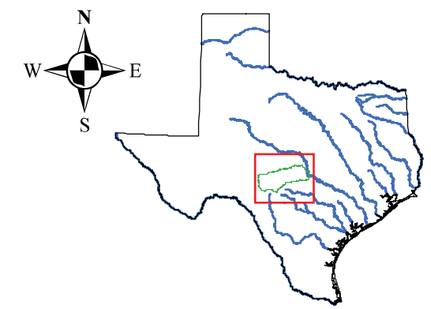

10 5 0 10 Miles

Legend

- USGS Calibration Station
- Hydromet Calibration Station
- Water Quality Calibration Station
- Stream
- Lake LBJ Watershed
- Lake LBJ Model Segment
- Lake LBJ Delineation

Figure 3-12.

Lake LBJ Sub-watershed Delineation with Calibration Stations

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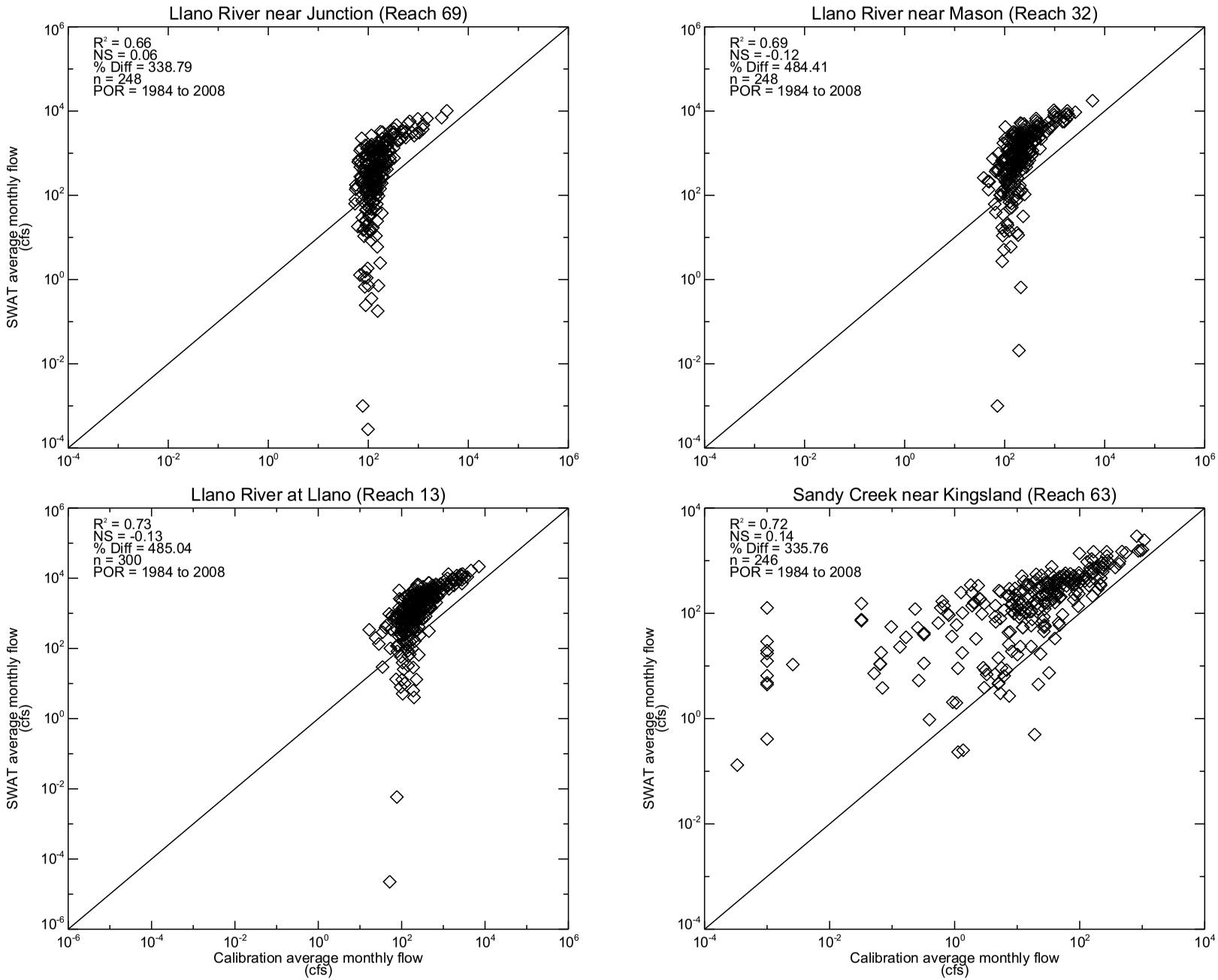

Figure 3-13. Lake LBJ SWAT model monthly average flow calibration by reach using default model parameters

Model run: default.
Calibration values are measured USGS.
Calibration values of 0 are plotted as 0.001.

JRB - D:\Jobs\PARcrm\Analysis\jrb_lbj_postprocess\parcrm_xy_20090709.pro
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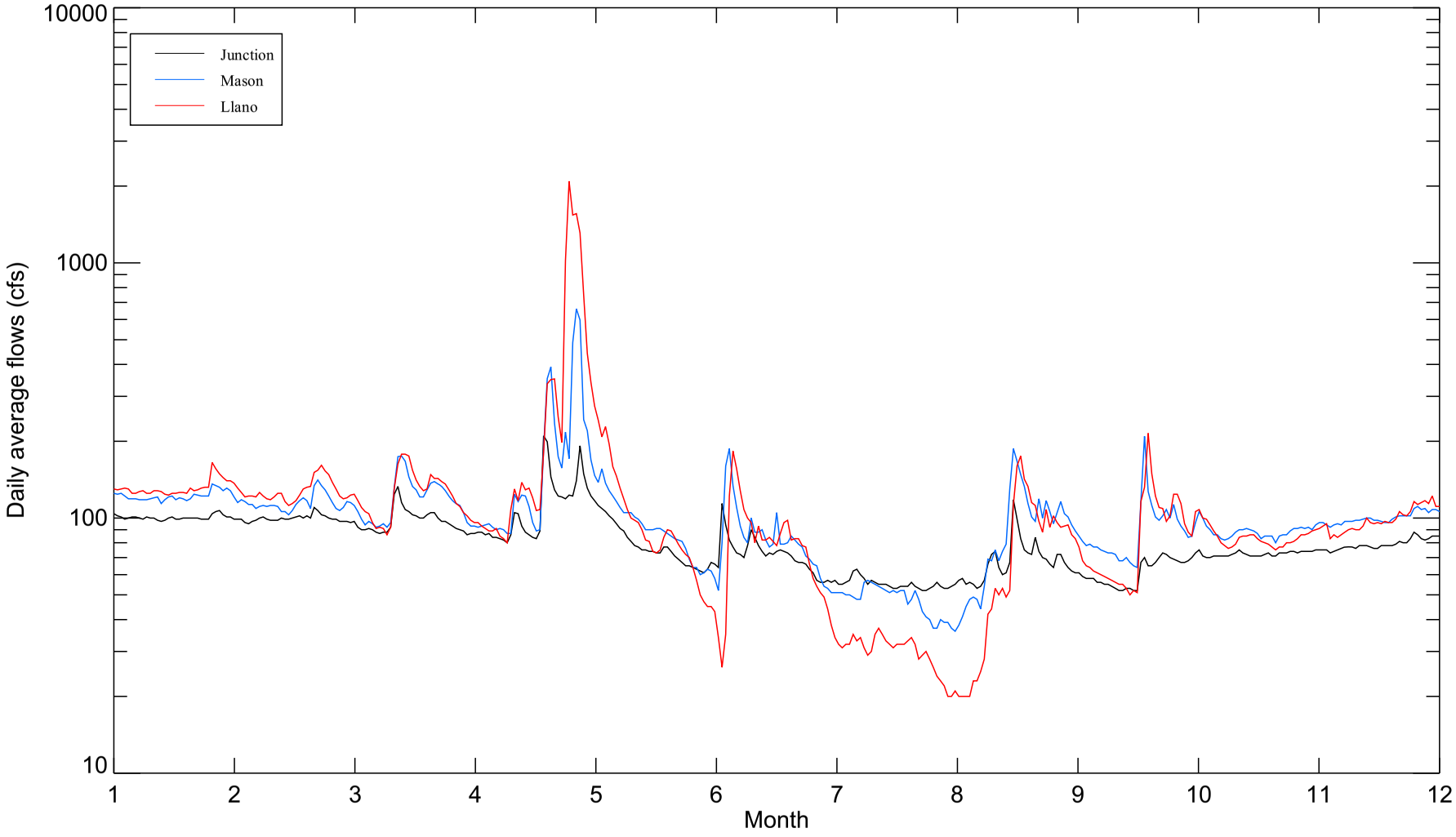

Figure 3-14. Llano River average daily flows at Junction, Mason, and Llano in 2006

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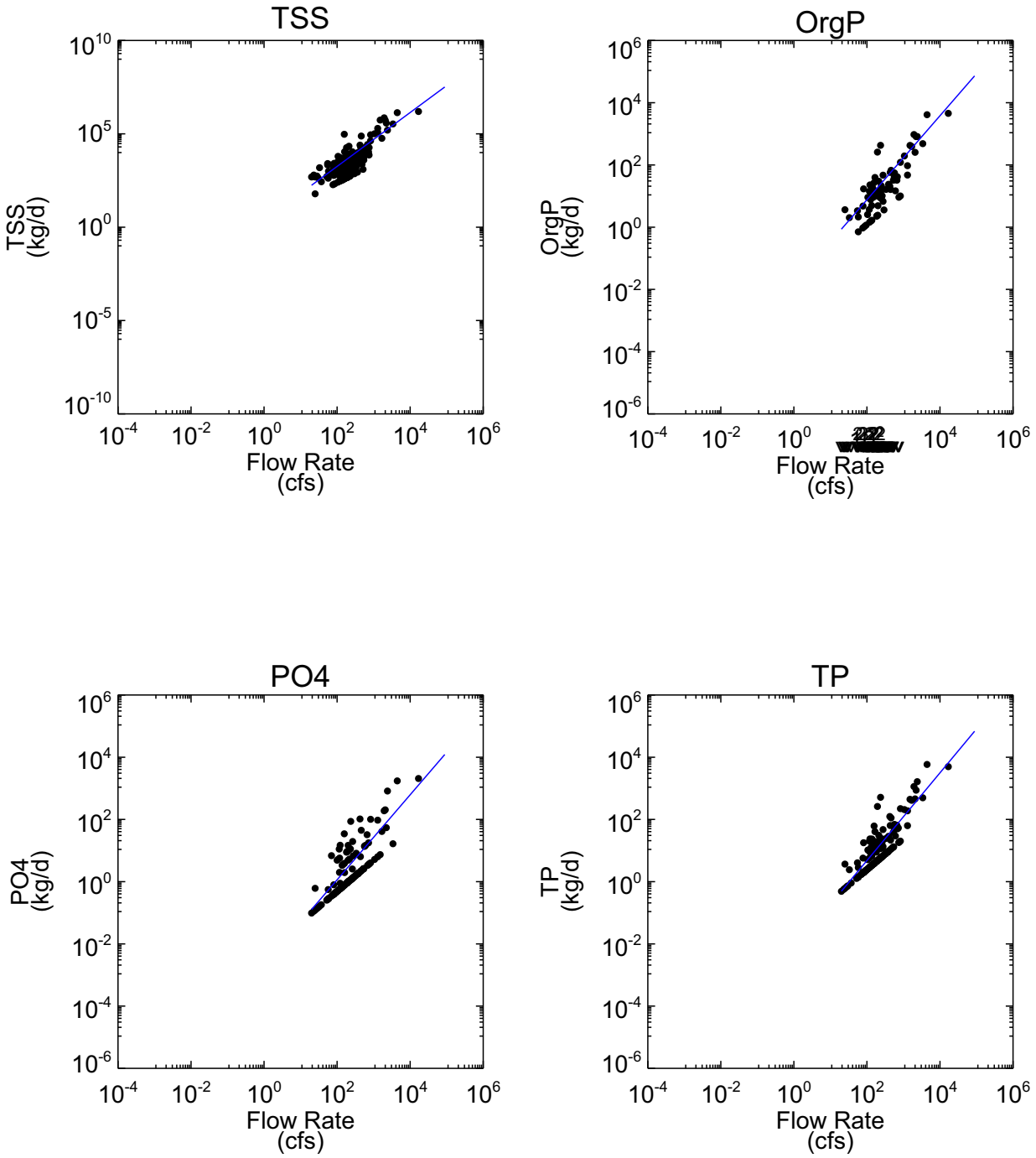

Figure 3-15a. Rating curves predicted by LOADEST for Llano River near Llano

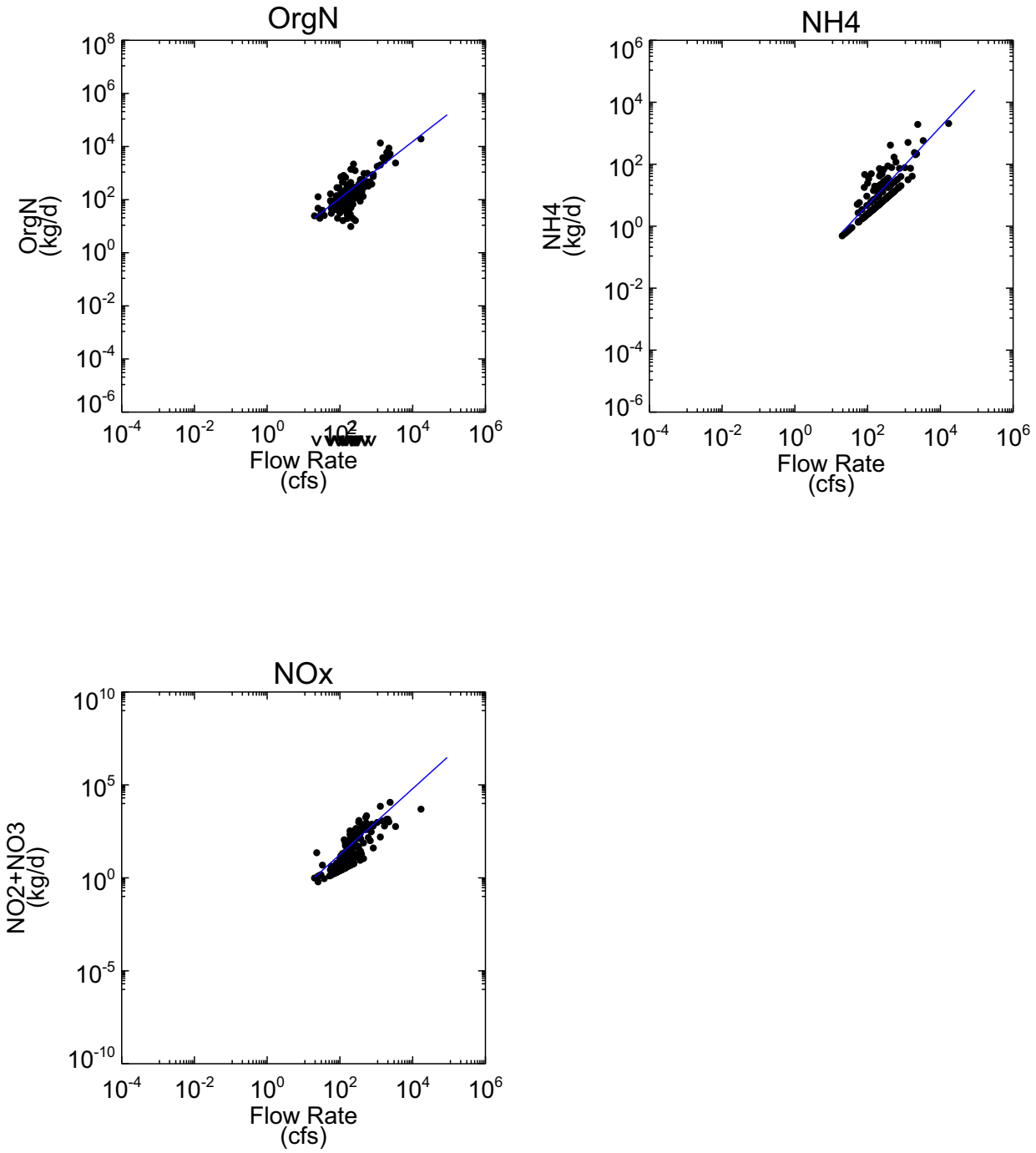

Figure 3-15a. Rating curves predicted by LOADEST for Llano River near Llano

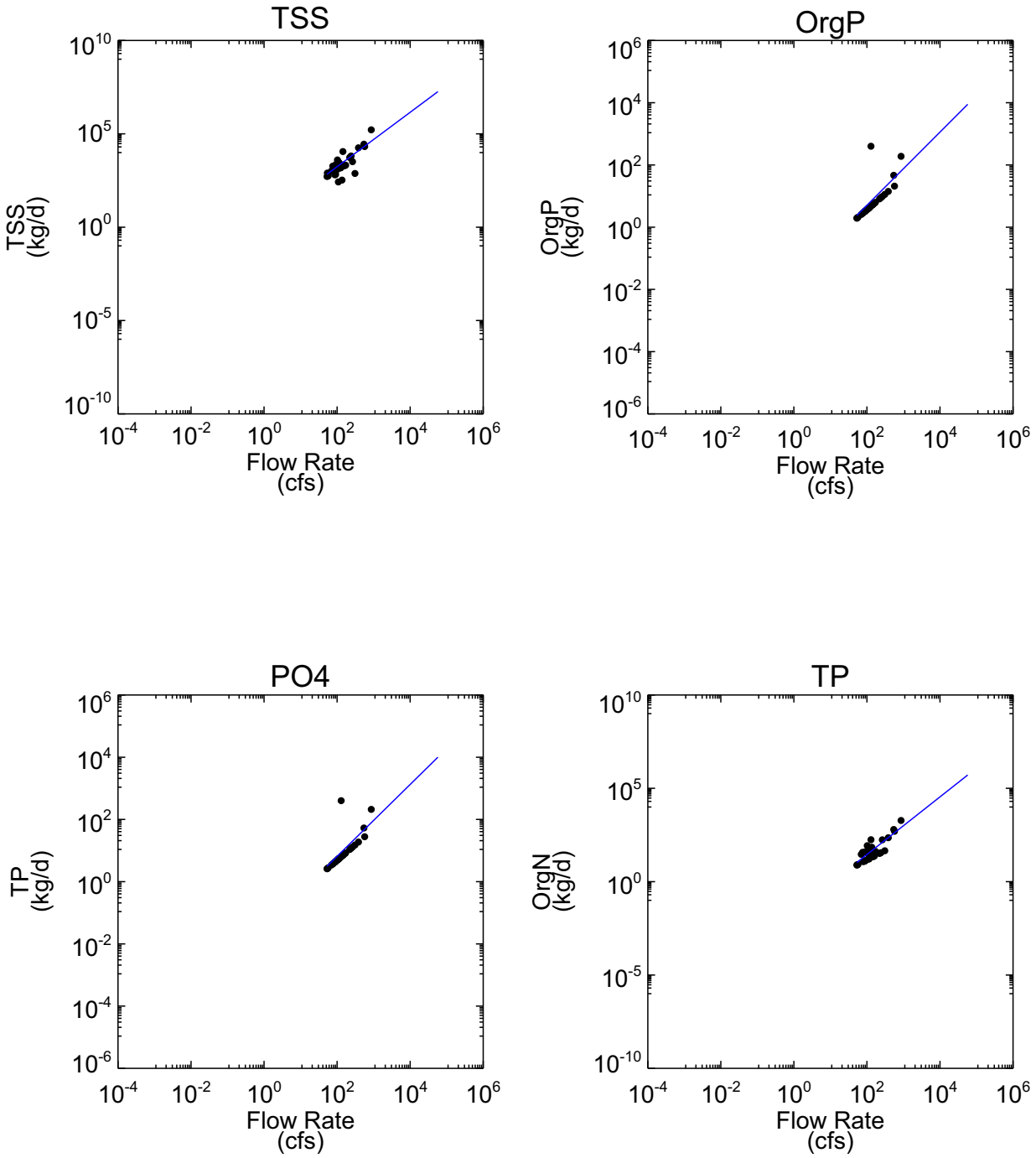

Figure 3-15b. Rating curves predicted by LOADEST for Llano River near Junction

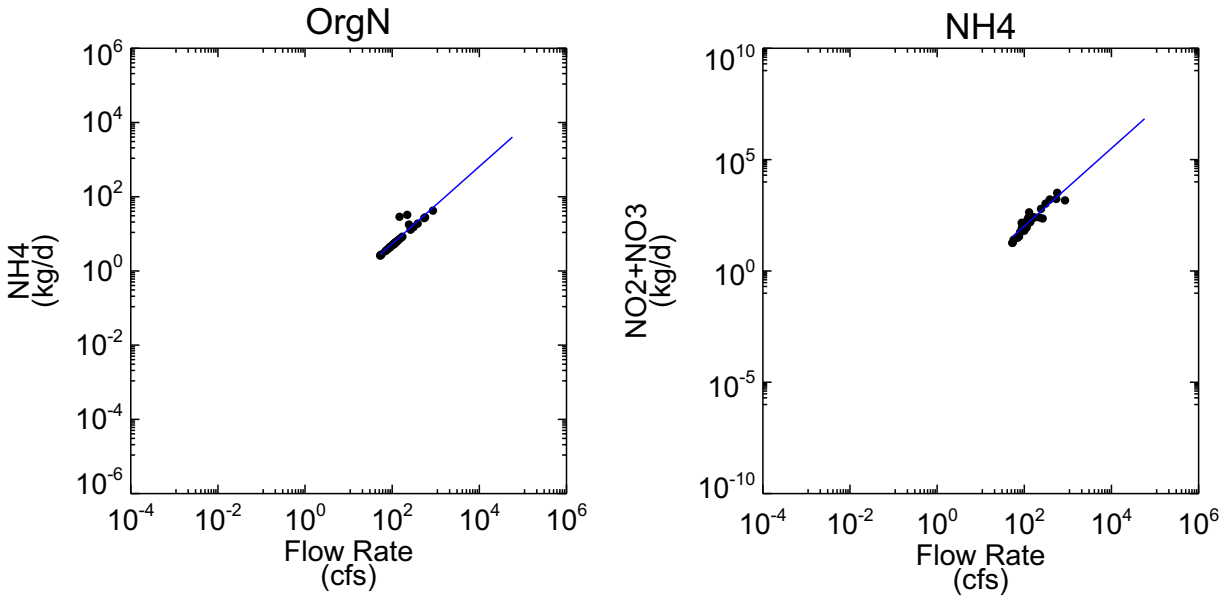

Figure 3-15b. Rating curves predicted by LOADEST for Llano River near Junction

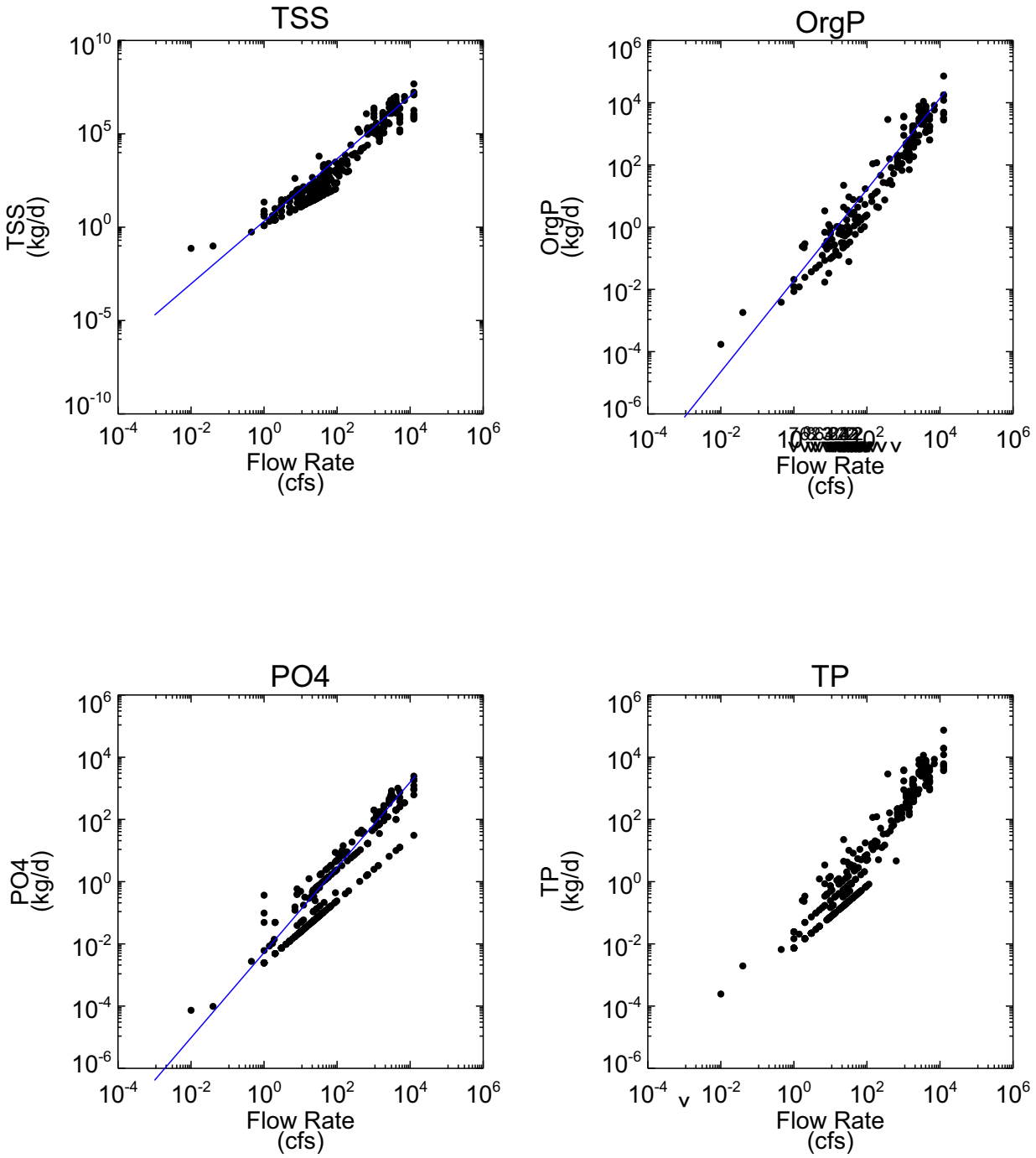

Figure 3-15c. Rating curves predicted by LOADEST for Sandy Creek near Kingsland

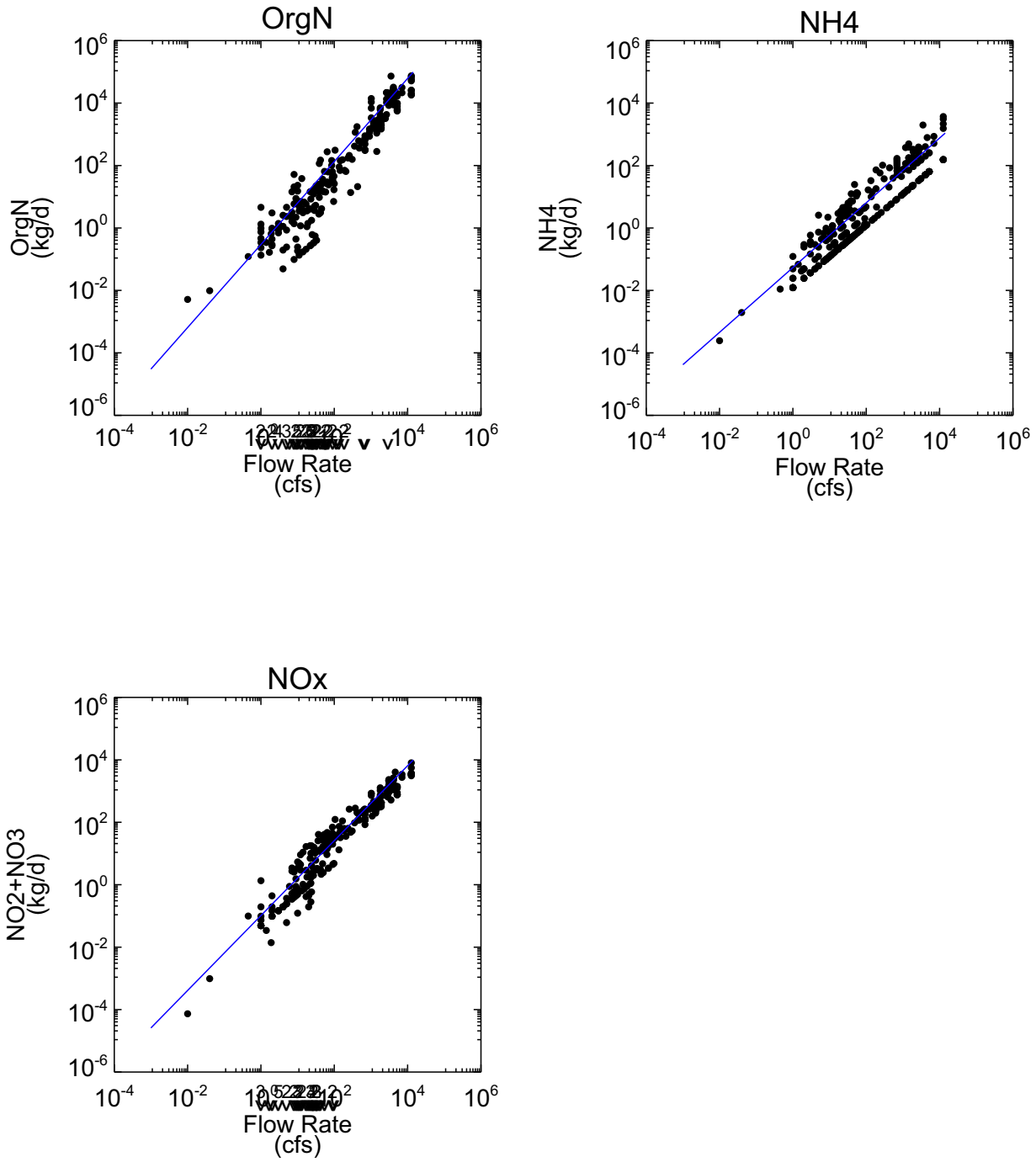

Figure 3-15c. Rating curves predicted by LOADEST for Sandy Creek near Kingsland

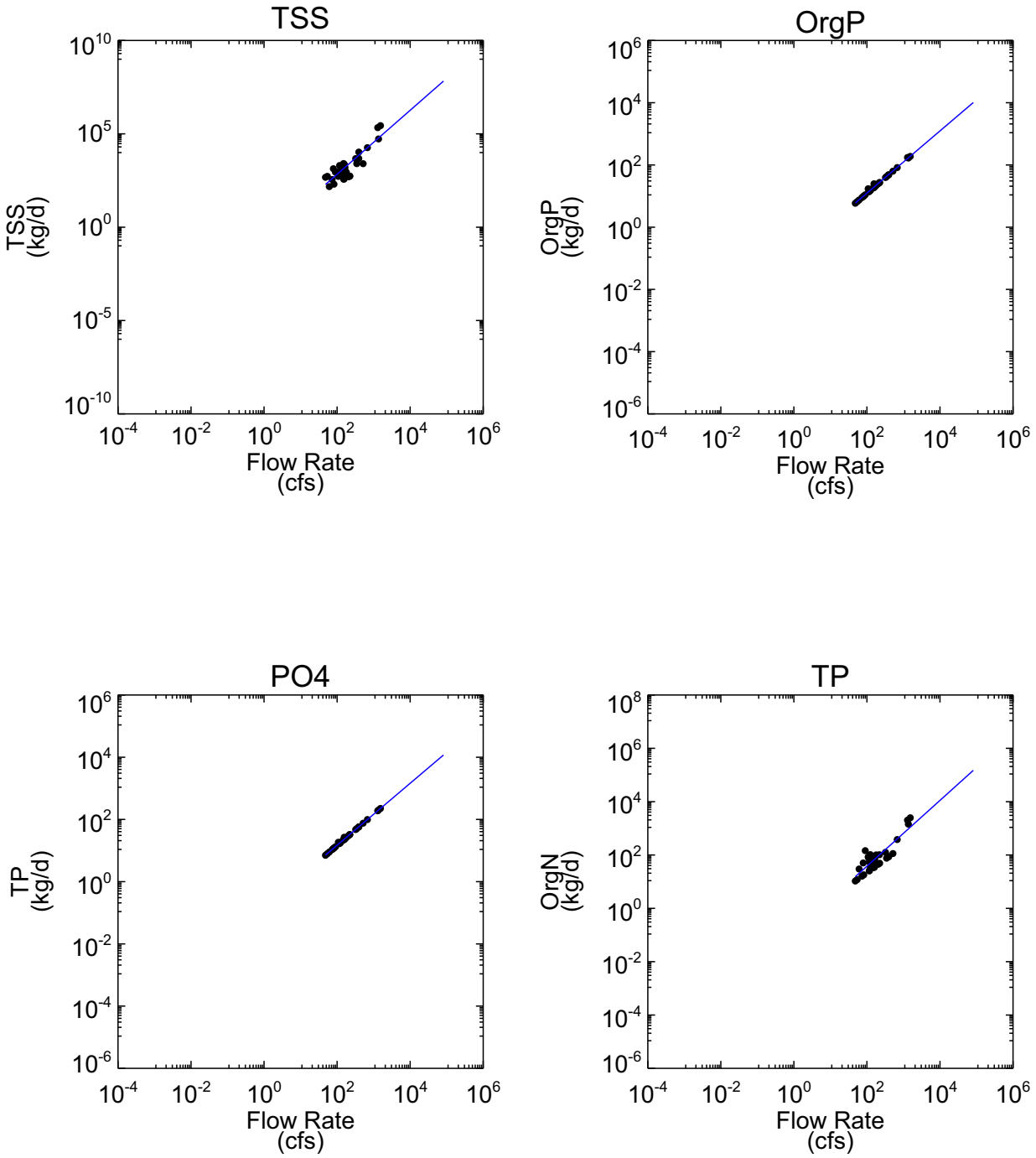

Figure 3-15d. Rating curves predicted by LOADEST for Llano River near Mason

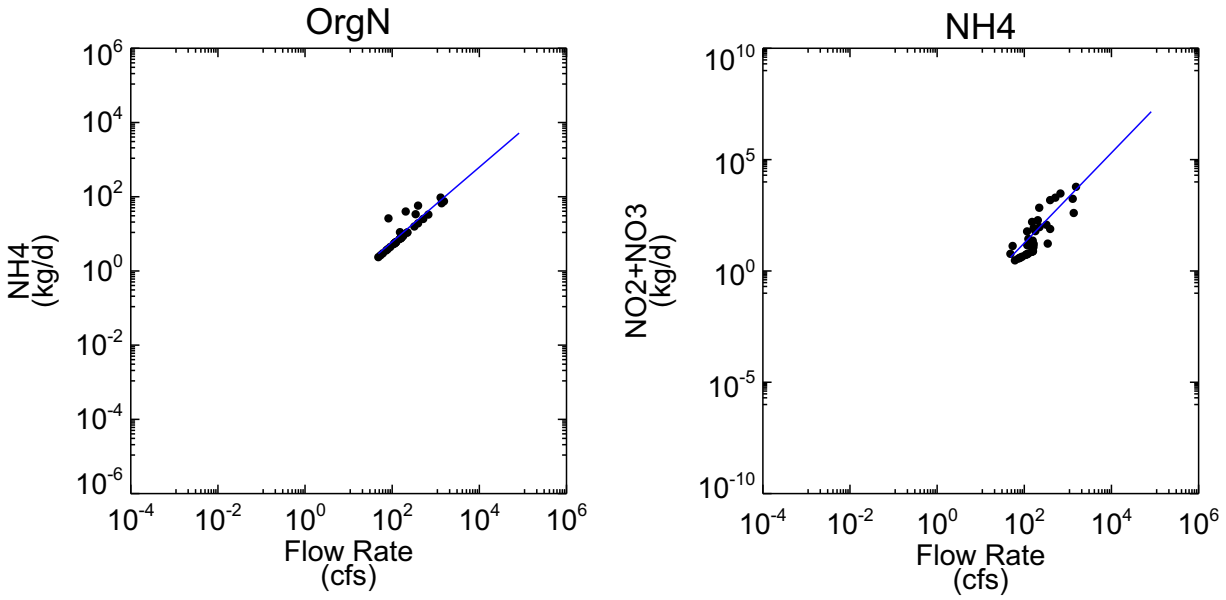

Figure 3-15d. Rating curves predicted by LOADEST for Llano River near Mason

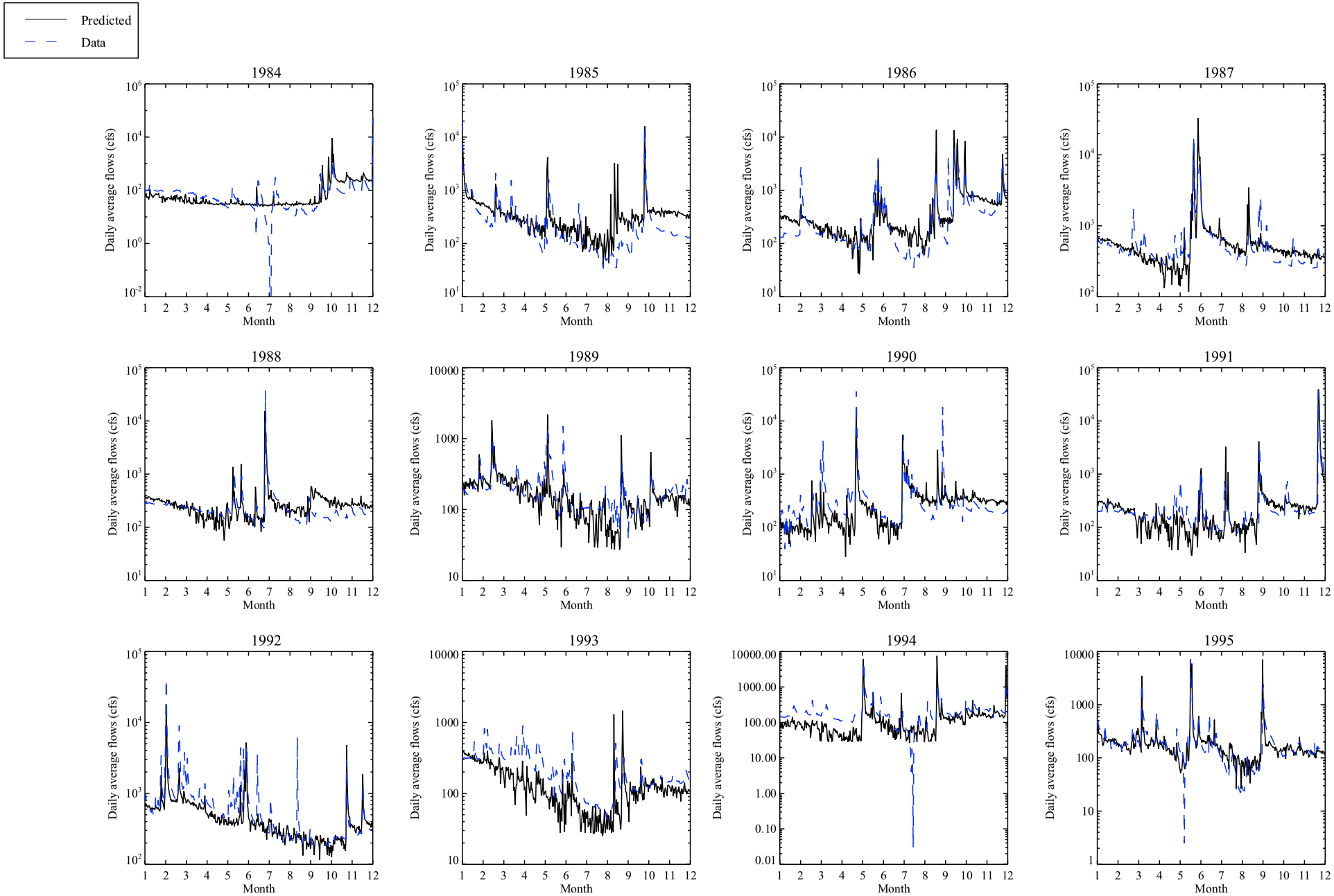

Figure 3-16a. Lake LBJ SWAT model average daily flows calibration for Llano River at Llano (Reach 13)

Model run: final.

R2 = 0.55: NS = 0.47: Vol %Diff = 1.77

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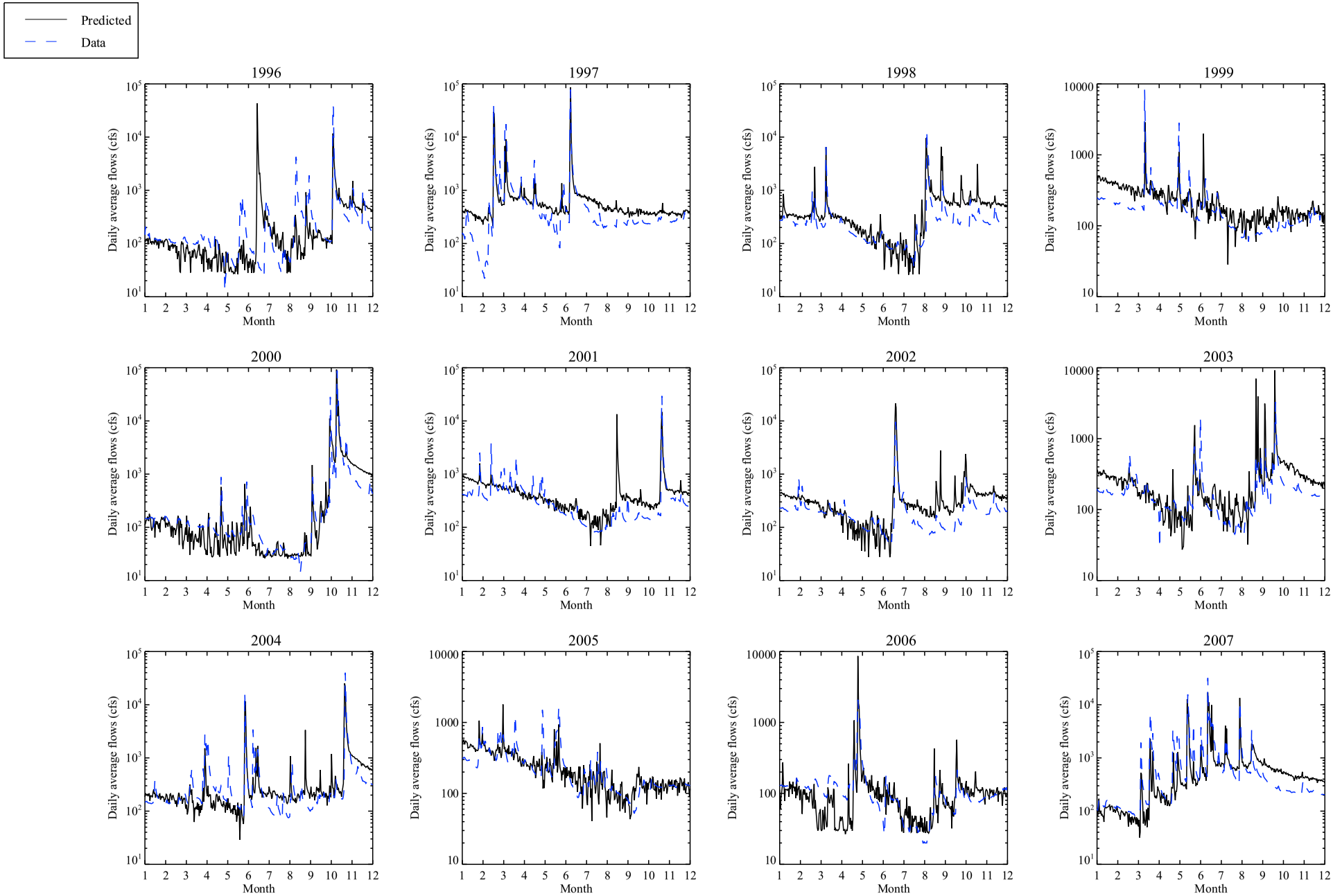

Figure 3-16a. Lake LBJ SWAT model average daily flows calibration for Llano River at Llano (Reach 13)

Model run: final.

R2 = 0.55: NS = 0.47: Vol %Diff = 1.77

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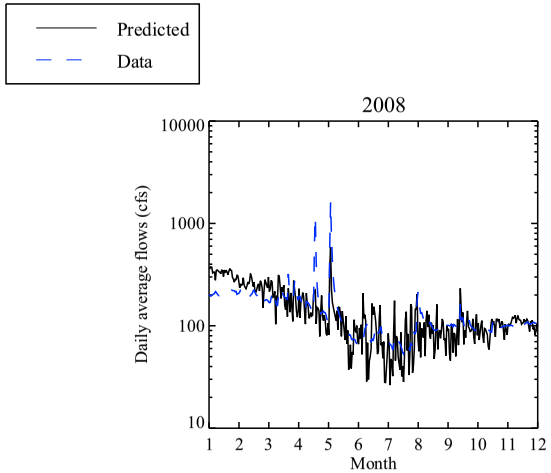

Figure 3-16a. Lake LBJ SWAT model average daily flows calibration for Llano River at Llano (Reach 13)

Model run: final.
R2 = 0.55: NS = 0.47: Vol %Diff = 1.77

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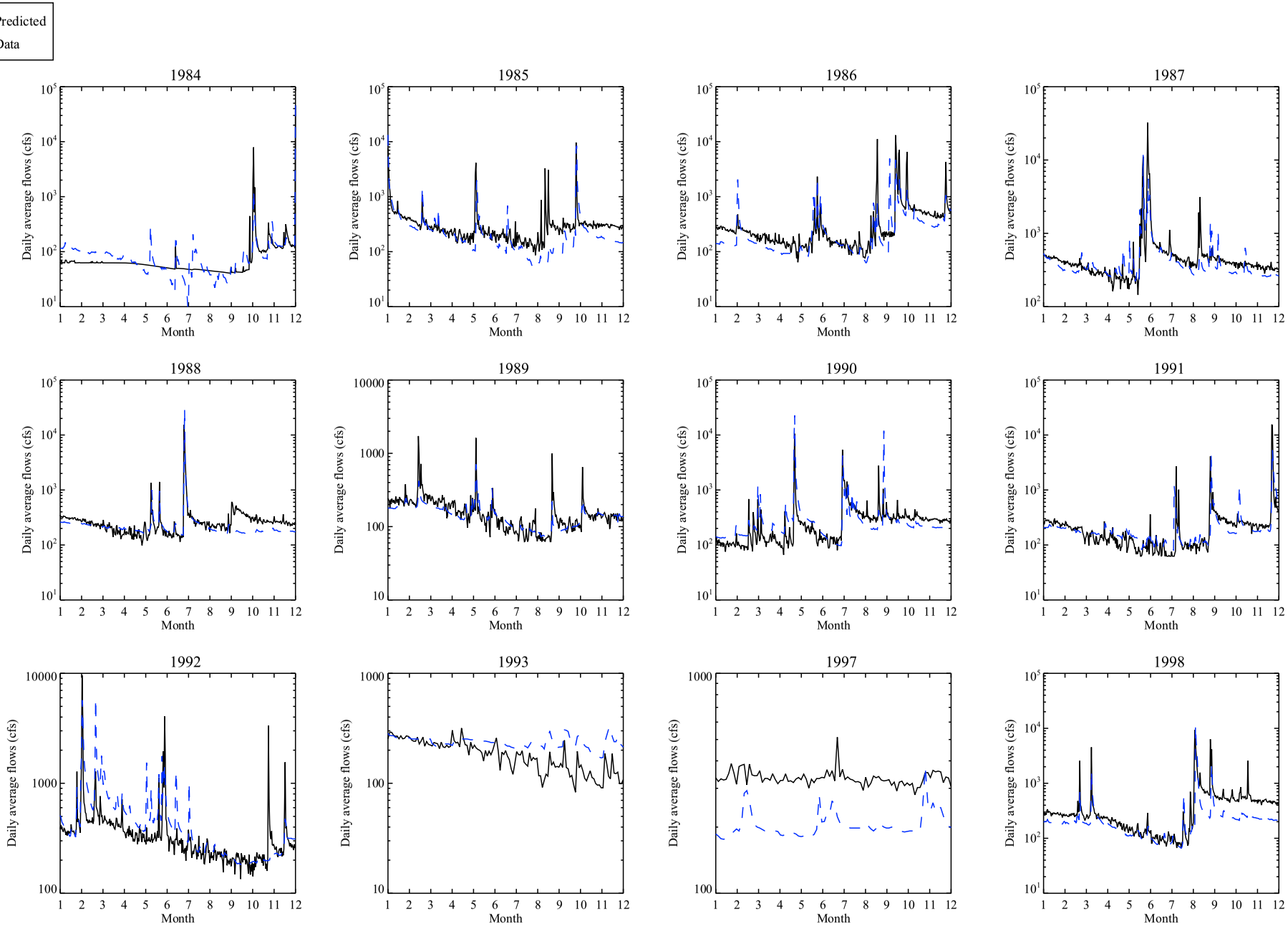

Figure 3-16b. Lake LBJ SWAT model average daily flows calibration for Llano River near Mason (Reach 32)

Model run: final.

R2 = 0.50: NS = 0.42: Vol %Diff = 15.00

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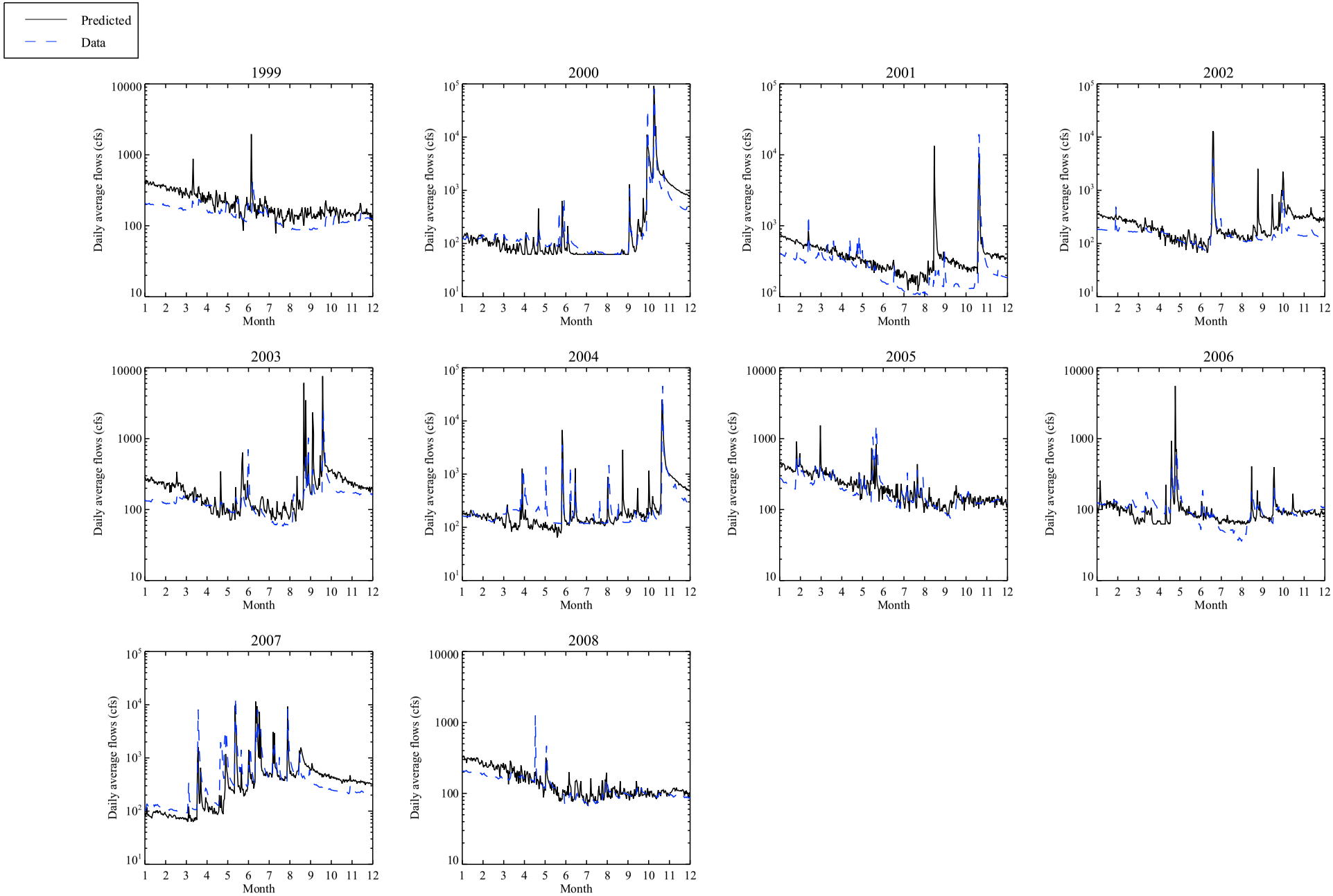

Figure 3-16b. Lake LBJ SWAT model average daily flows calibration for Llano River near Mason (Reach 32)

Model run: final.

R2 = 0.50: NS = 0.42: Vol%Diff = 15.00

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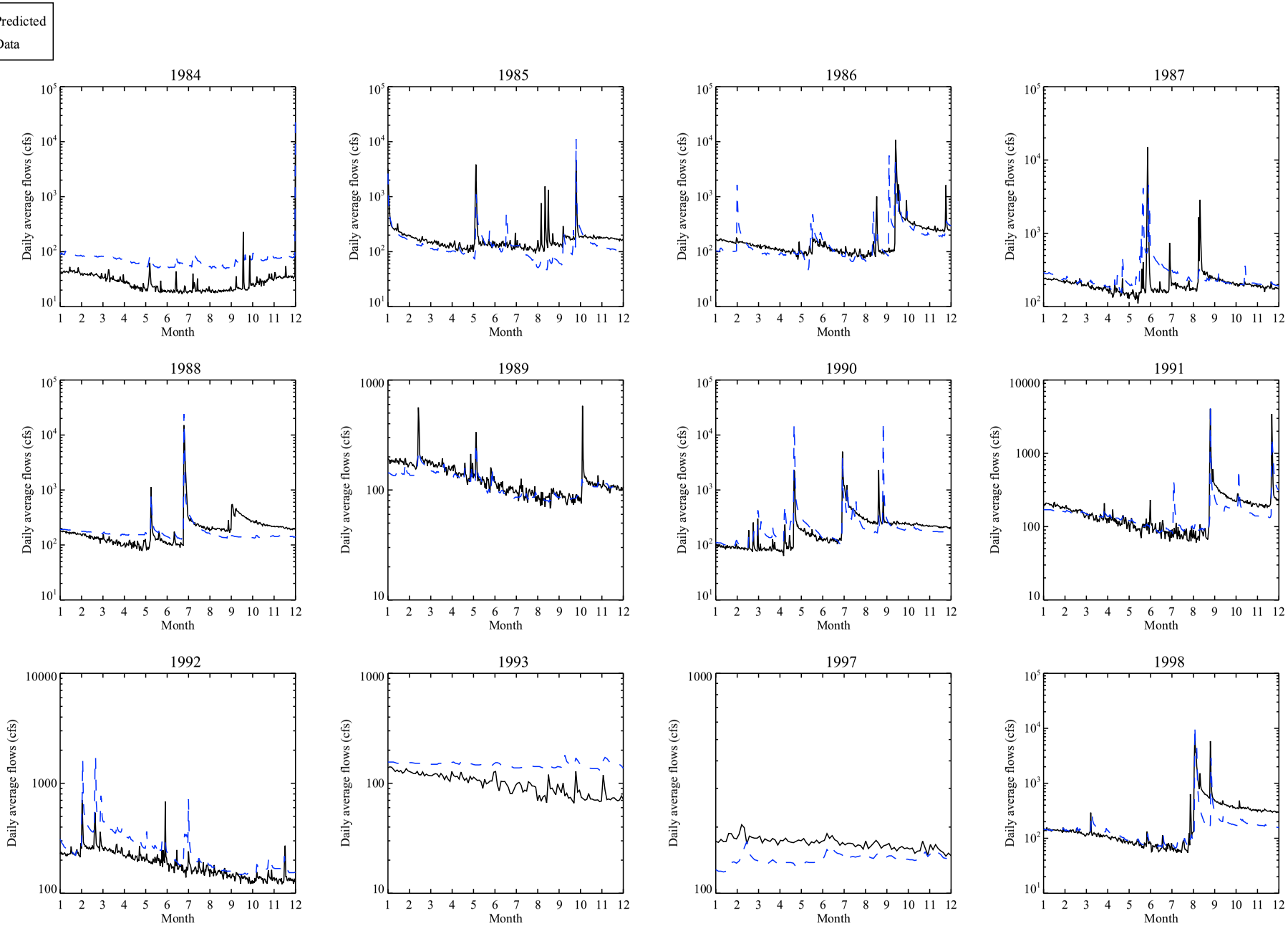

Figure 3-16c. Lake LBJ SWAT model average daily flows calibration for Llano River near Junction (Reach 69)

Model run: final.

R2 = 0.64: NS = 0.52: Vol %Diff = -4.06

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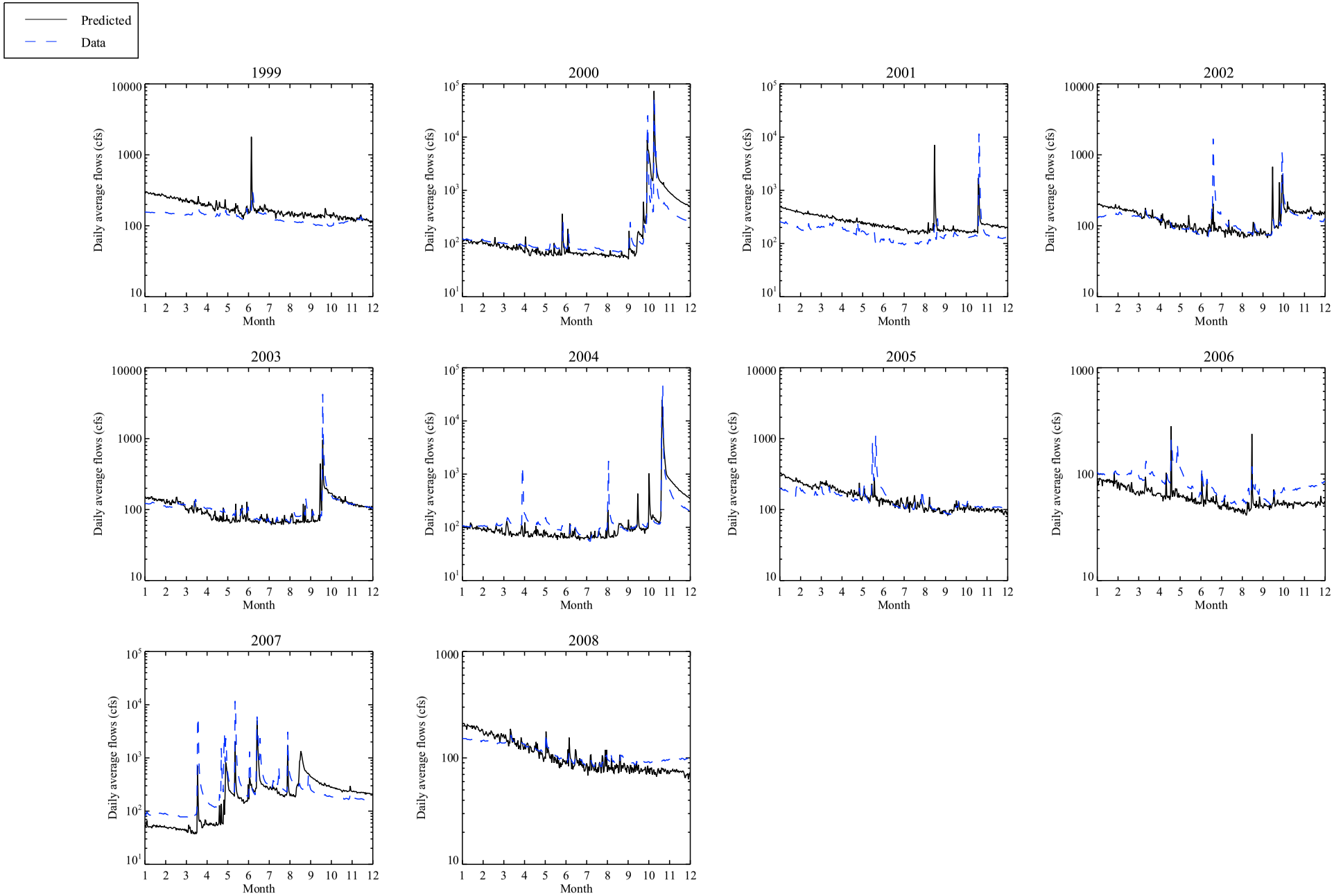

Figure 3-16c. Lake LBJ SWAT model average daily flows calibration for Llano River near Junction (Reach 69)

Model run: final.

R2 = 0.64: NS = 0.52: Vol %Diff = -4.06

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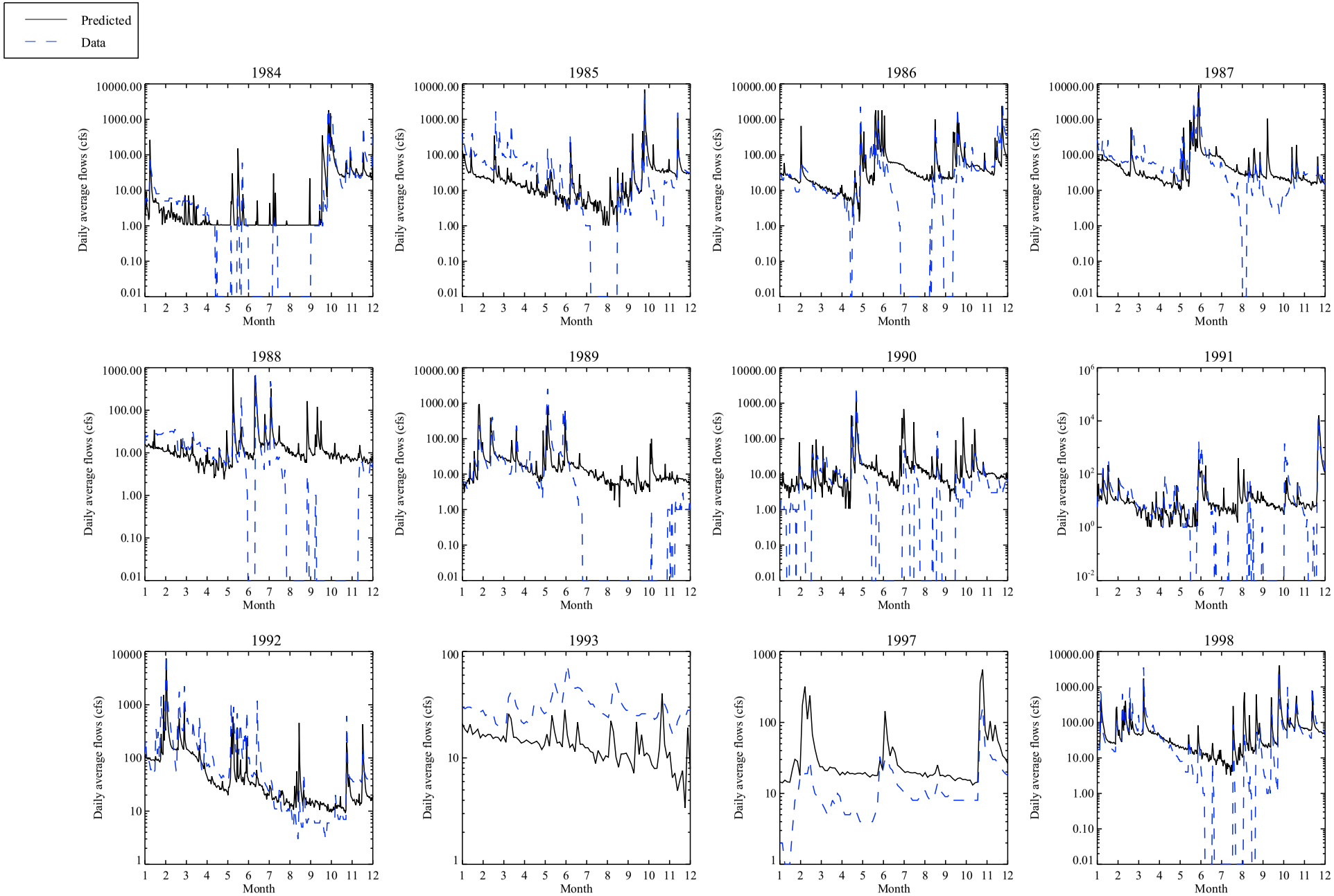

Figure 3-16d. Lake LBJ SWAT model average daily flows calibration for Sandy Creek near Kingsland (Reach 63)

Model run: final.

R2 = 0.57: NS = 0.49: Vol %Diff = -16.42

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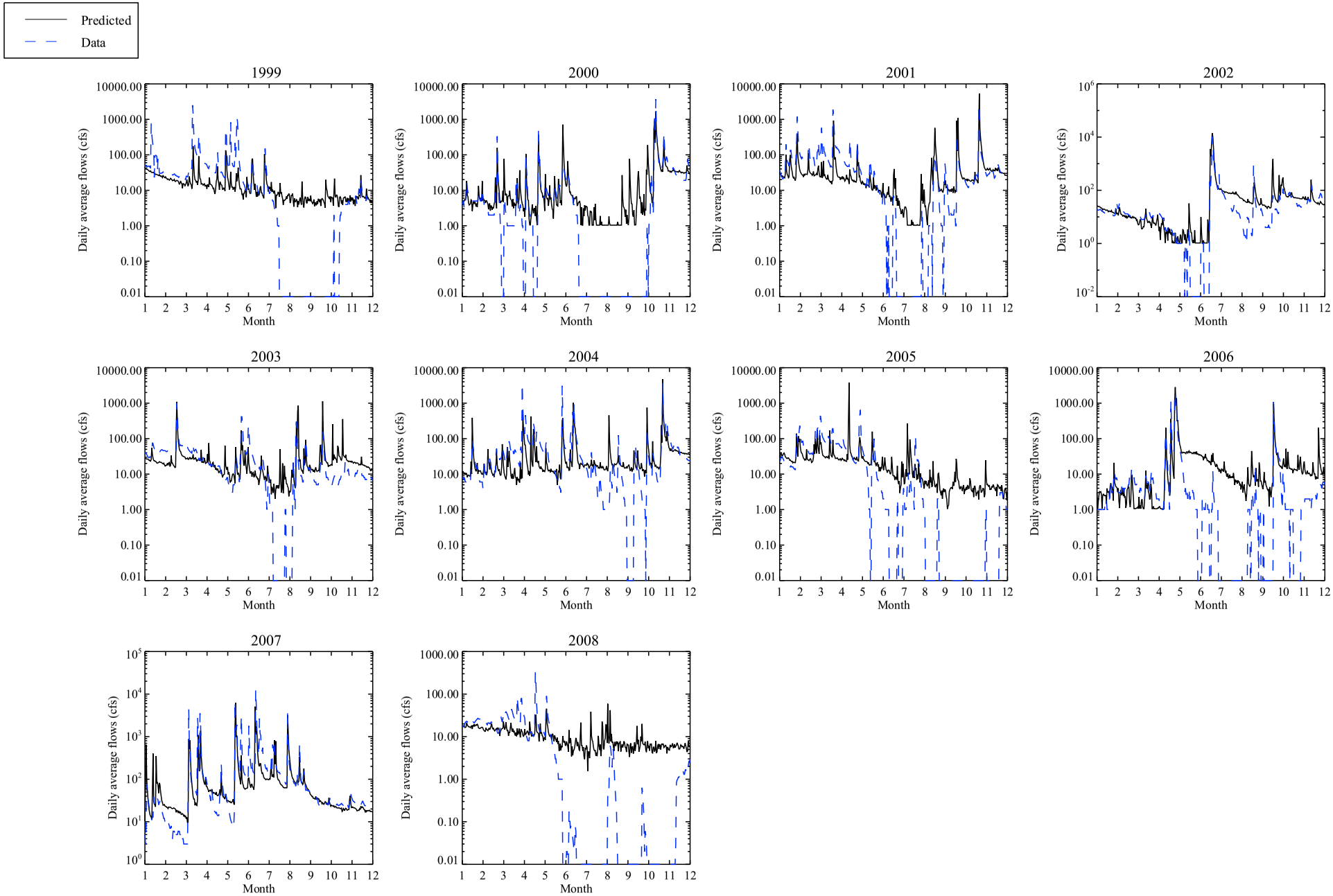

Figure 3-16d. Lake LBJ SWAT model average daily flows calibration for Sandy Creek near Kingsland (Reach 63)

Model run: final.

R2 = 0.57: NS = 0.49: Vol %Diff = -16.42

JRB - C:\working\bumgarner\PARcrm\analysis\jrb_lbj_postprocess\parcrm_mc_flows_20090428.pro
Thu Jan 14 08:43:20 2010

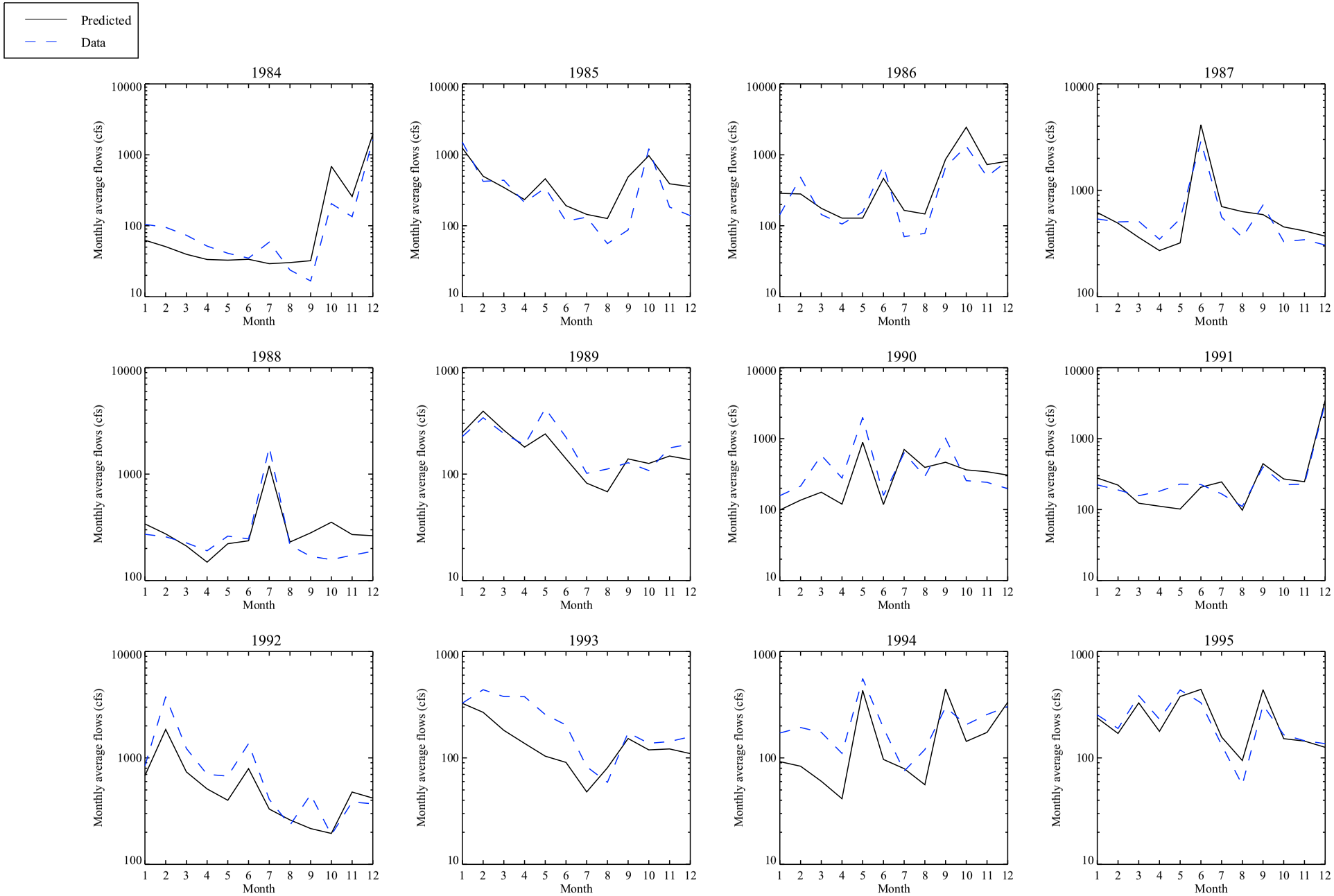

Figure 3-17a. Lake LBJ SWAT model average monthly flows calibration for Llano River at Llano (Reach 13)

Model run: final.

R2 = 0.82: NS = 0.81: Vol%Diff = 1.77

JRB - C:\working\bumgarner\PARcrm\analysis\jrb_lbj_postprocess\parcrm_mc_flows_20090428.pro
Thu Jan 14 08:43:18 2010

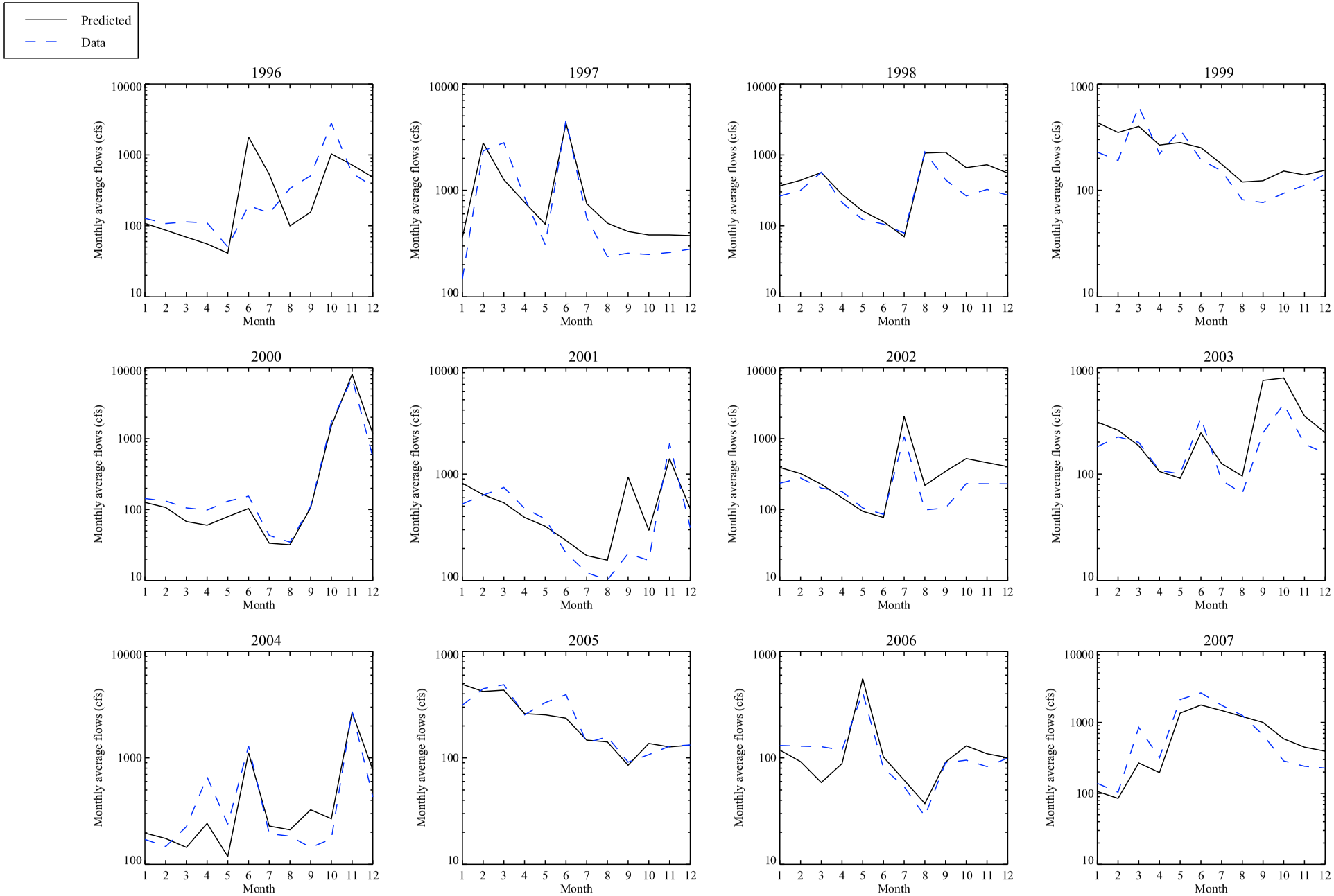

Figure 3-17a. Lake LBJ SWAT model average monthly flows calibration for Llano River at Llano (Reach 13)

Model run: final.

R2 = 0.82: NS = 0.81: Vol %Diff = 1.77

JRB - C:\working\bumgarner\PARcrm\analysis\jrb_lbj_postprocess\parcrm_mc_flows_20090428.pro
Thu Jan 14 08:43:18 2010

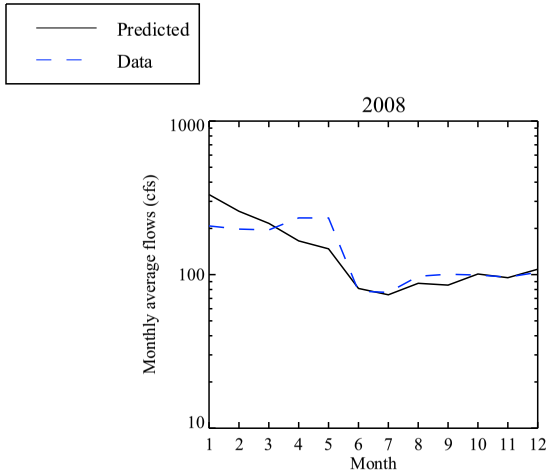

Figure 3-17a. Lake LBJ SWAT model average monthly flows calibration for Llano River at Llano (Reach 13)

Model run: final.
R2 = 0.82: NS = 0.81: Vol %Diff = 1.77

JRB - C:\working\bumgarner\PARcrm\analysis\jrb_lbj_postprocess\parcrm_mc_flows_20090428.pro
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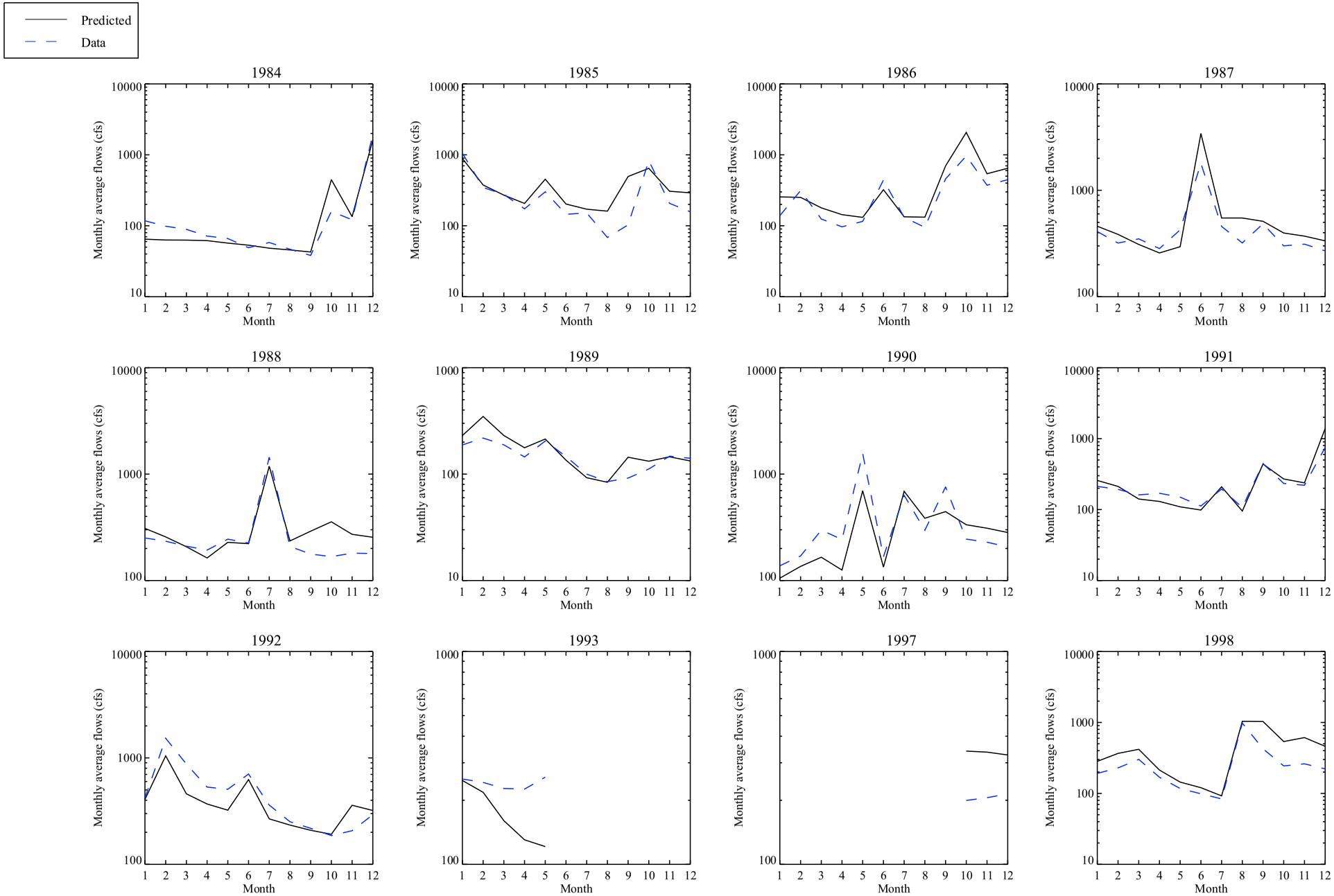

Figure 3-17b. Lake LBJ SWAT model average monthly flows calibration for Llano River near Mason (Reach 32)

Model run: final.

R2 = 0.85: NS = 0.83: Vol%Diff = 15.00

JRB - C:\working\bumgarner\PARcrm\analysis\jrb_lbj_postprocess\parcrm_mc_flows_20090428.pro
Thu Jan 14 08:43:14 2010

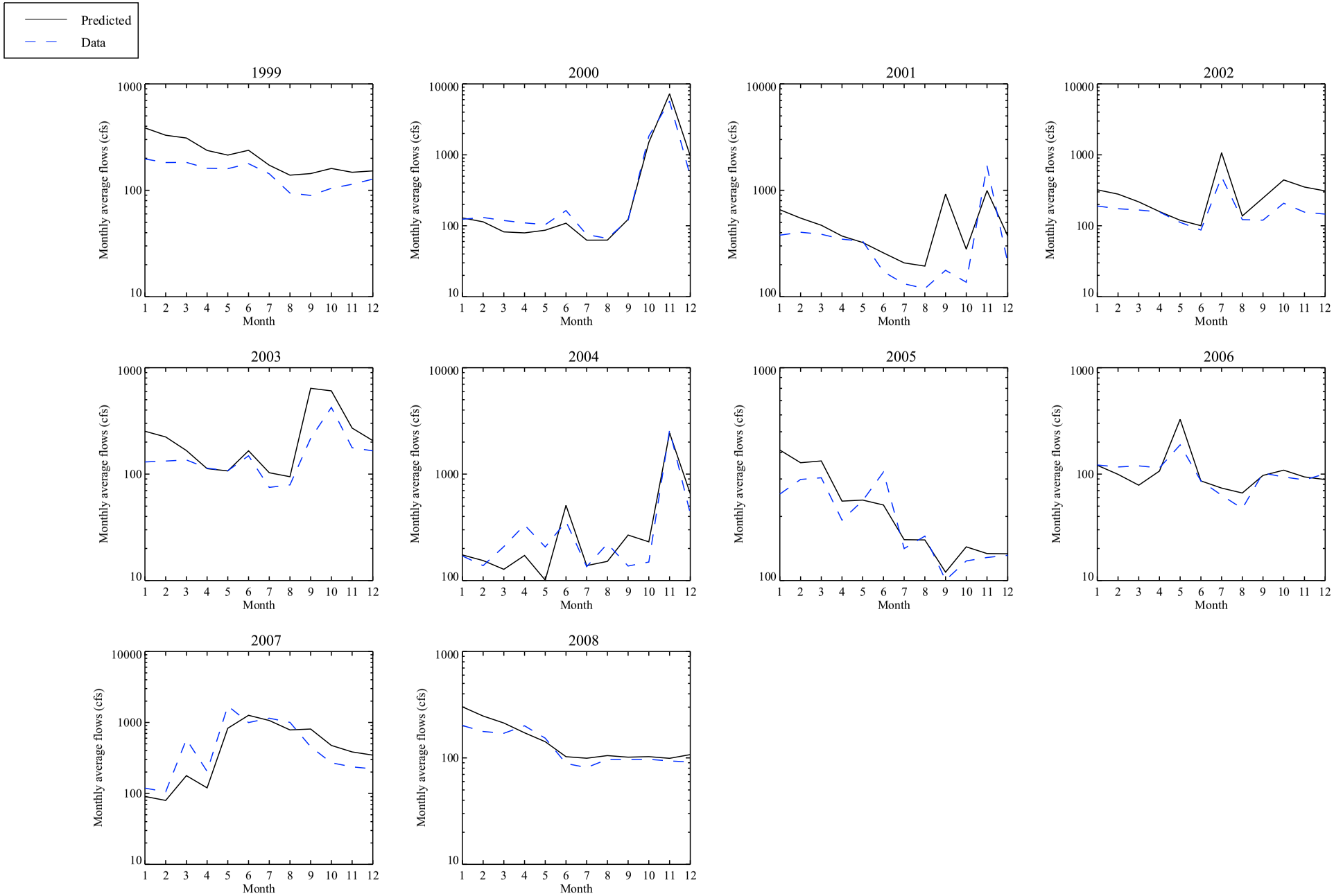

Figure 3-17b. Lake LBJ SWAT model average monthly flows calibration for Llano River near Mason (Reach 32)

Model run: final.

R2 = 0.85: NS = 0.83: Vol%Diff = 15.00

JRB - C:\working\bumgarner\PARcrm\analysis\jrb_lbj_postprocess\parcrm_mc_flows_20090428.pro
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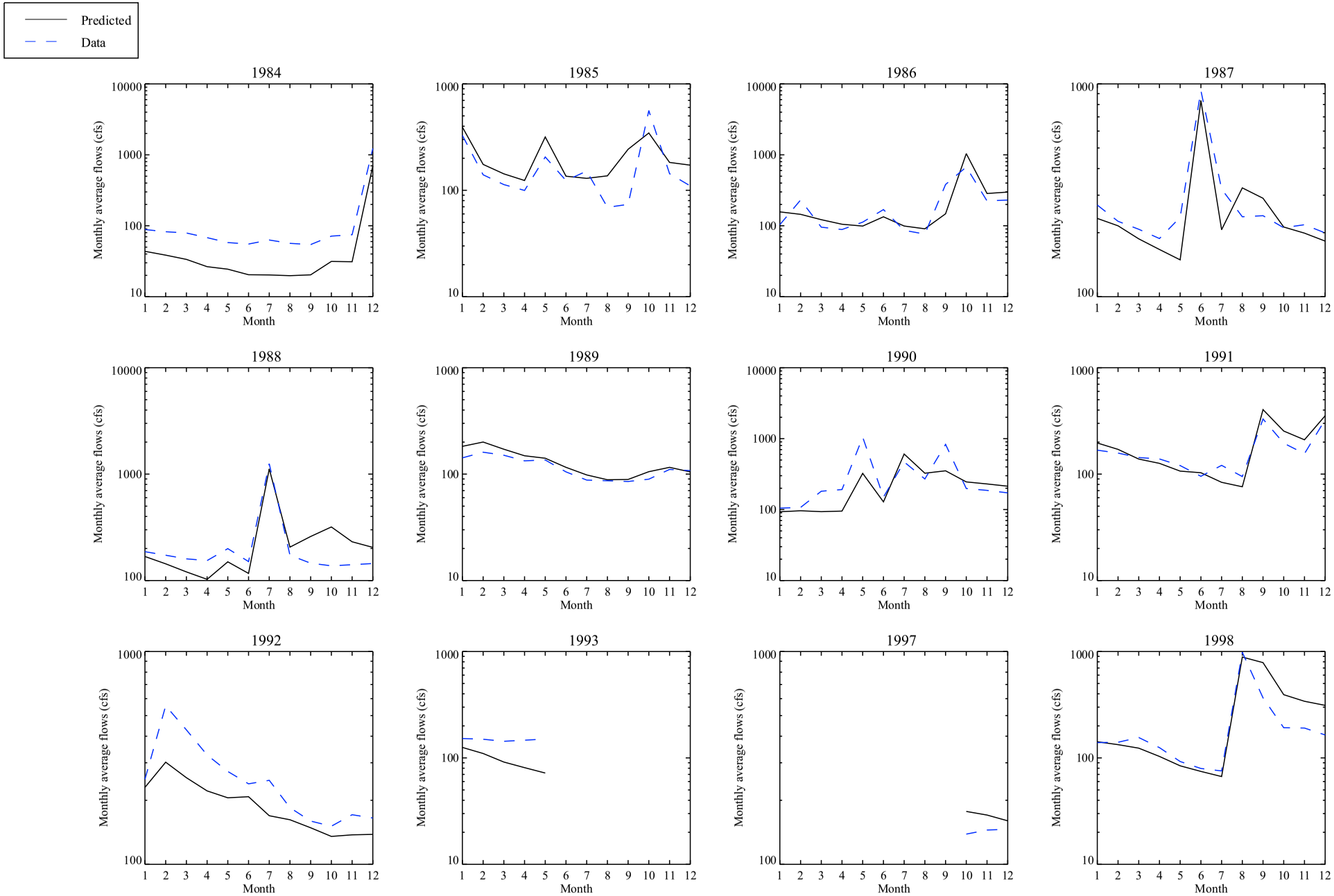

Figure 3-17c. Lake LBJ SWAT model average monthly flows calibration for Llano River near Junction (Reach 69)

Model run: final.

R2 = 0.83: NS = 0.81: Vol %Diff = -4.06

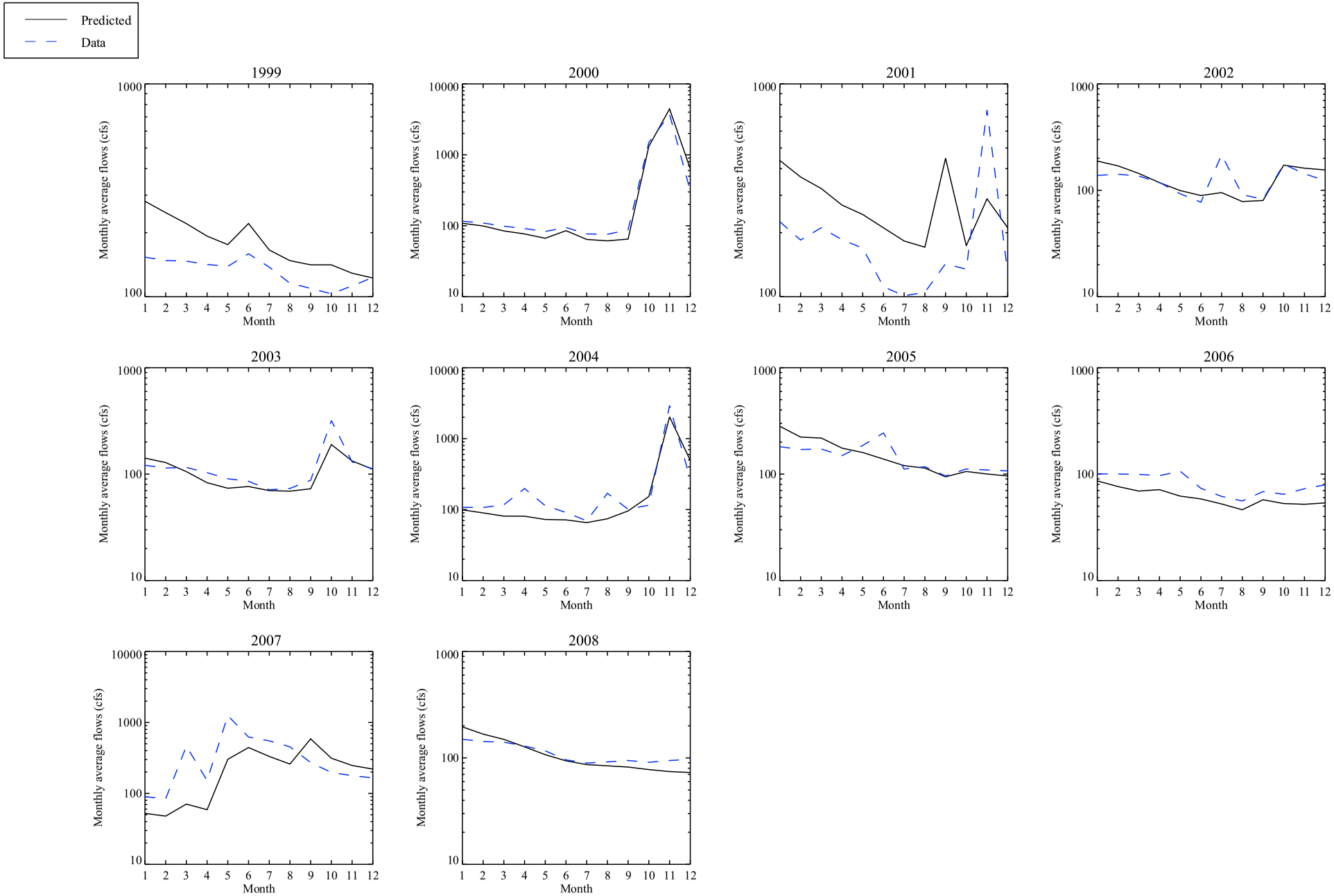

Figure 3-17c. Lake LBJ SWAT model average monthly flows calibration for Llano River near Junction (Reach 69)

Model run: final.

R2 = 0.83: NS = 0.81: Vol%Diff = -4.06

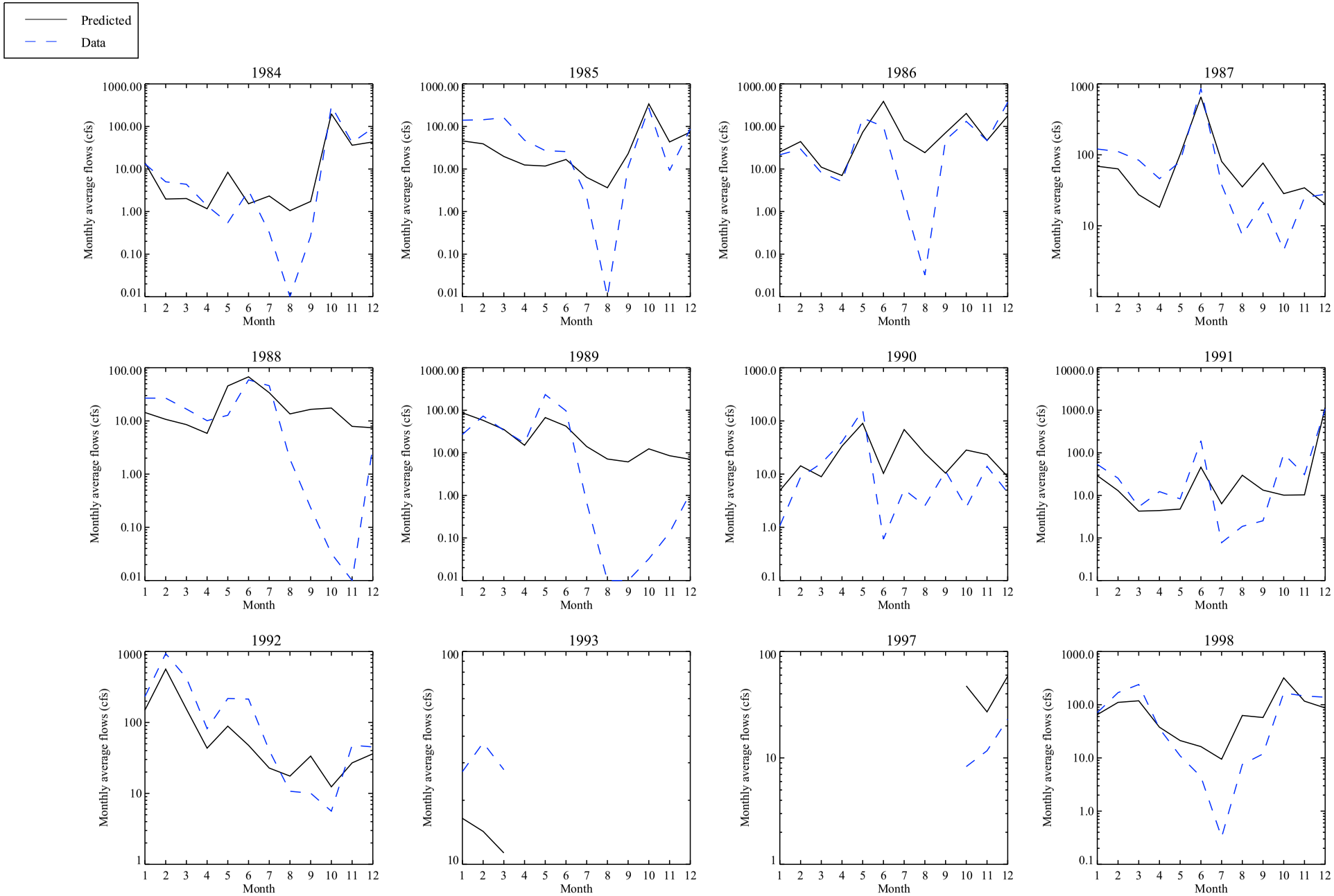

Figure 3-17d. Lake LBJ SWAT model average monthly flows calibration for Sandy Creek near Kingsland (Reach 63)

Model run: final.

R2 = 0.69: NS = 0.62: Vol %Diff = -16.42

JRB - C:\working\bumgarner\PARcrm\analysis\jrb_lbj_postprocess\parcrm_mc_flows_20090428.pro
Thu Jan 14 08:43:20 2010

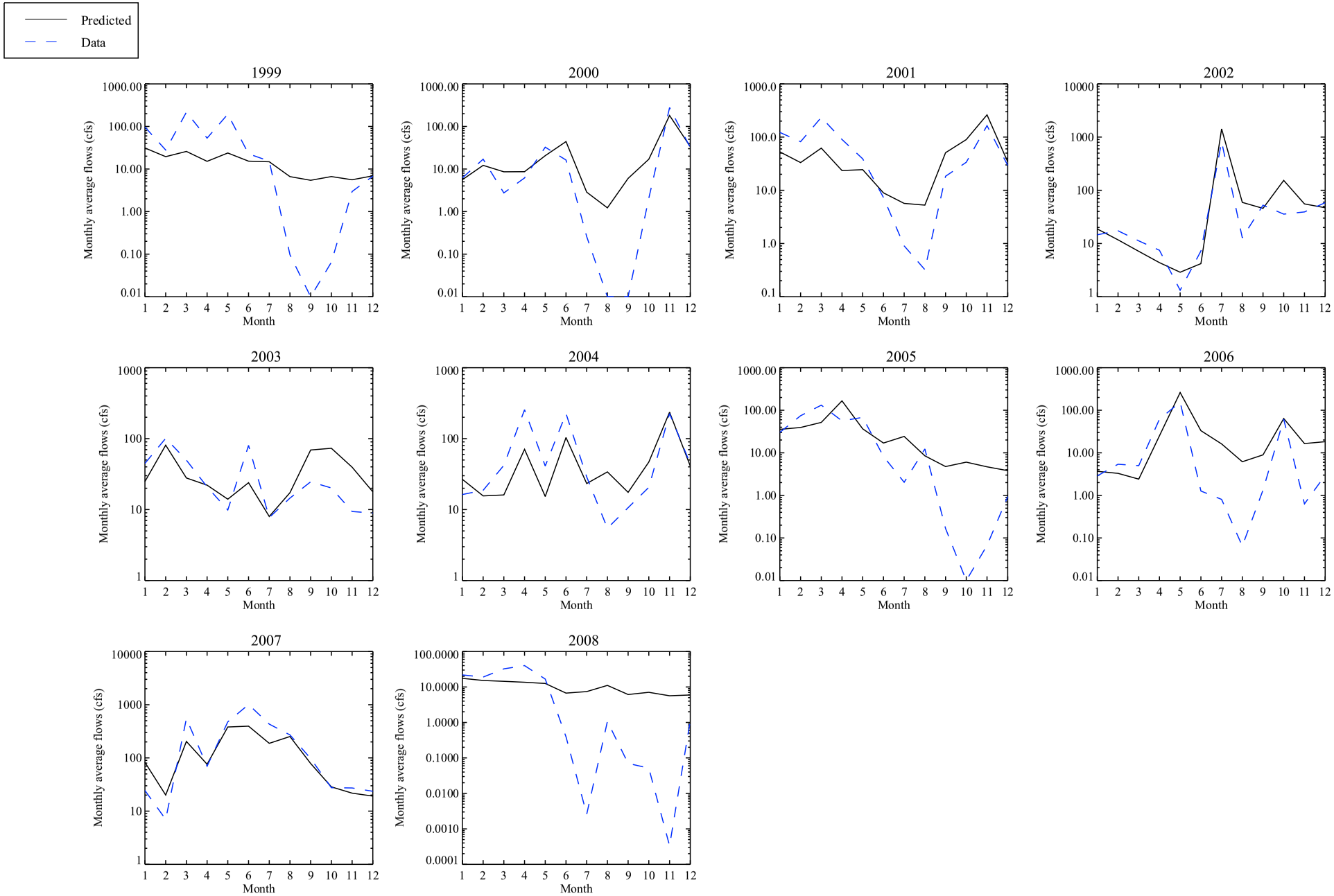

Figure 3-17d. Lake LBJ SWAT model average monthly flows calibration for Sandy Creek near Kingsland (Reach 63)

Model run: final.

R2 = 0.69: NS = 0.62: Vol %Diff = -16.42

JRB - C:\working\bumgarner\PARcrm\analysis\jrb_lbj_postprocess\parcrm_mc_flows_20090428.pro
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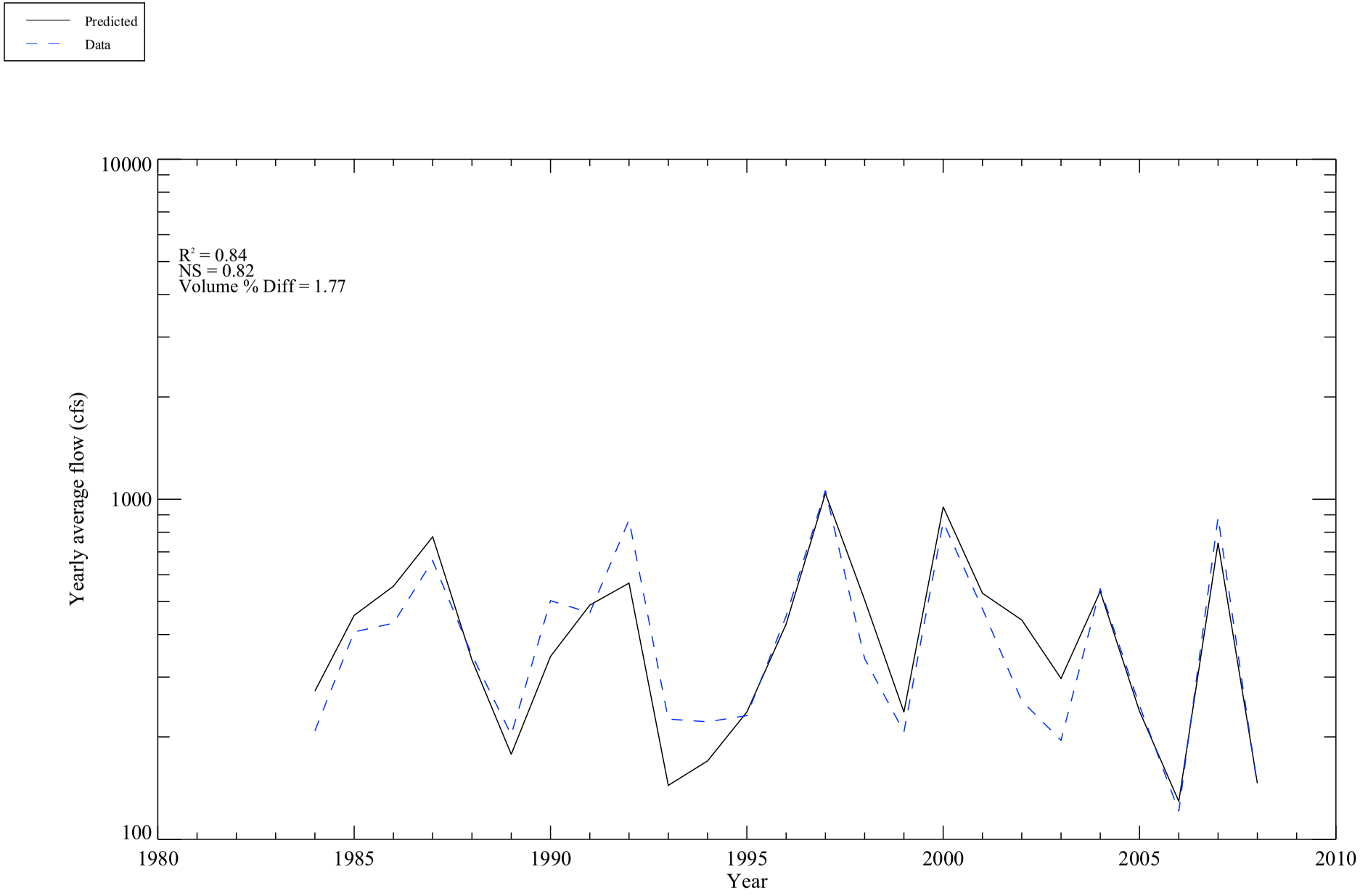

Figure 3-18a. Lake LBJ SWAT model average annual flows calibration for Llano River at Llano (Reach 13)

Averages calculated from hourly values.
Model run: final.

JRB - C:\working\bumgarner\PARcrm\analysis\jrb_lbj_postprocess\parcrm_mc_flows_20090428.pro
Thu Jan 14 08:43:18 2010

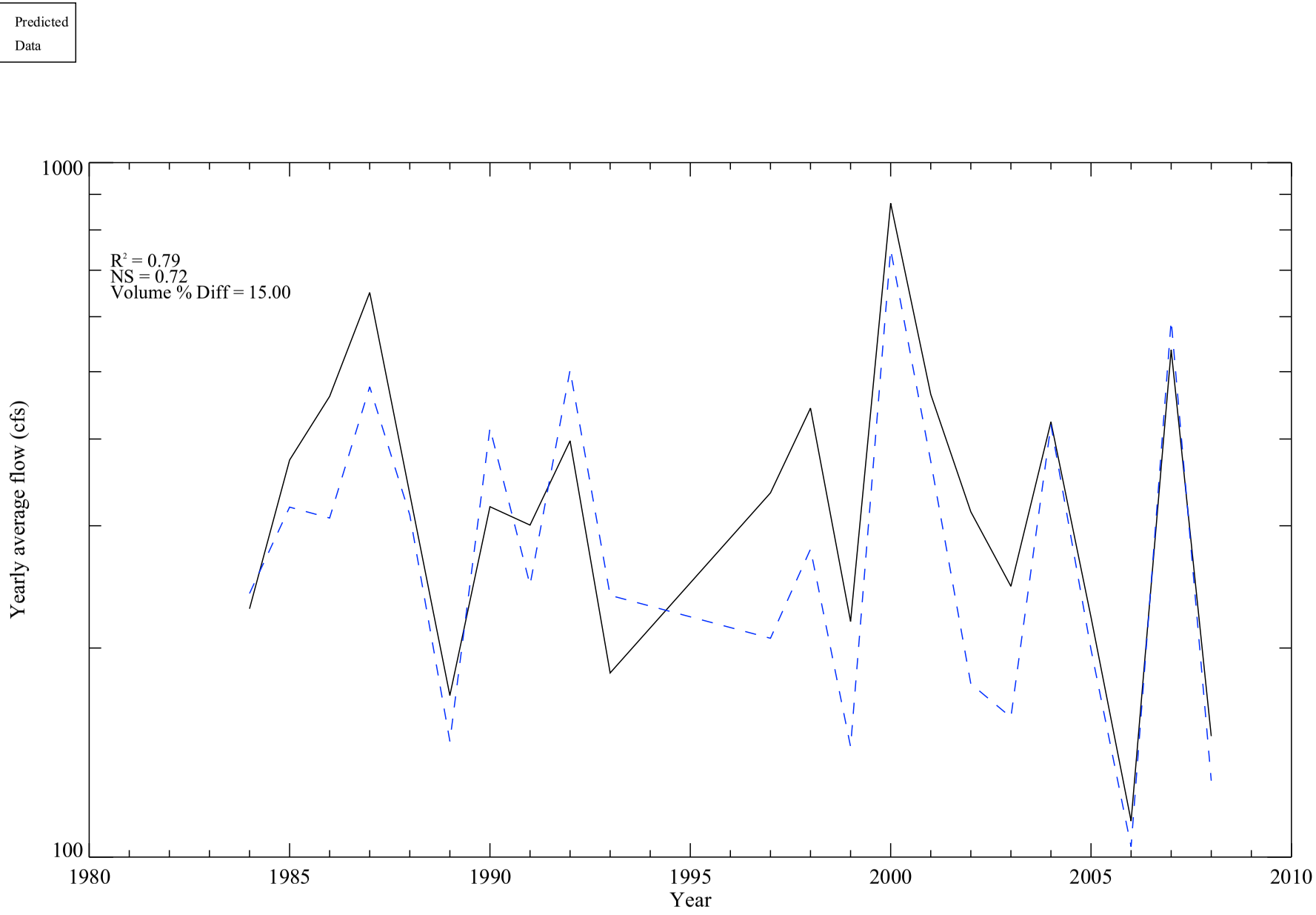

Figure 3-18b. Lake LBJ SWAT model average annual flows calibration for Llano River near Mason (Reach 32)

Averages calculated from hourly values.
Model run: final.

JRB - C:\working\bumgarner\PARcrm\analysis\jrb_lbj_postprocess\parcrm_mc_flows_20090428.pro
Thu Jan 14 08:43:14 2010

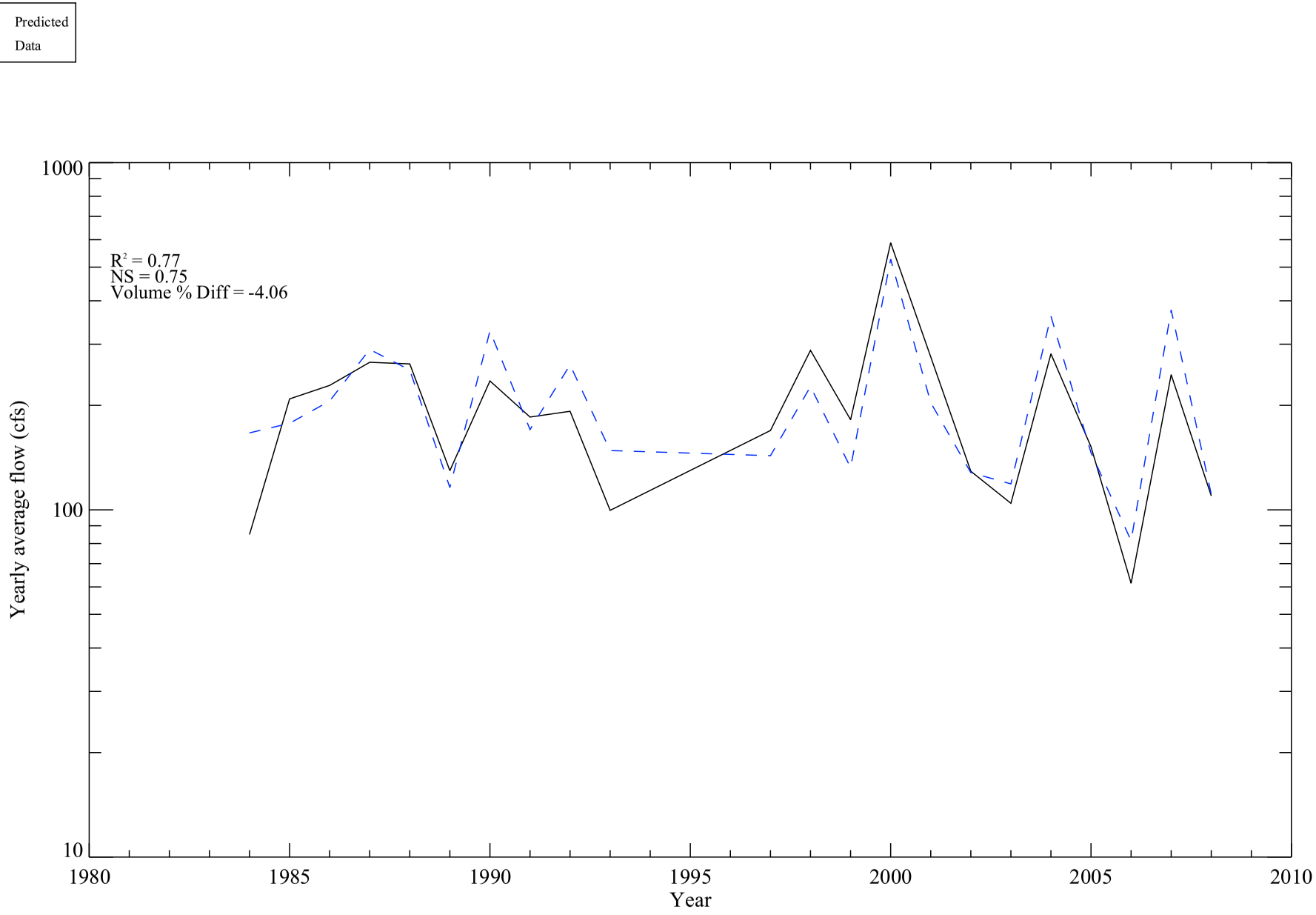

Figure 3-18c. Lake LBJ SWAT model average annual flows calibration for Llano River near Junction (Reach 69)

Averages calculated from hourly values.
Model run: final.

JRB - C:\working\bumgarner\PARcrm\analysis\jrb_lbj_postprocess\parcrm_mc_flows_20090428.pro
Thu Jan 14 08:43:12 2010

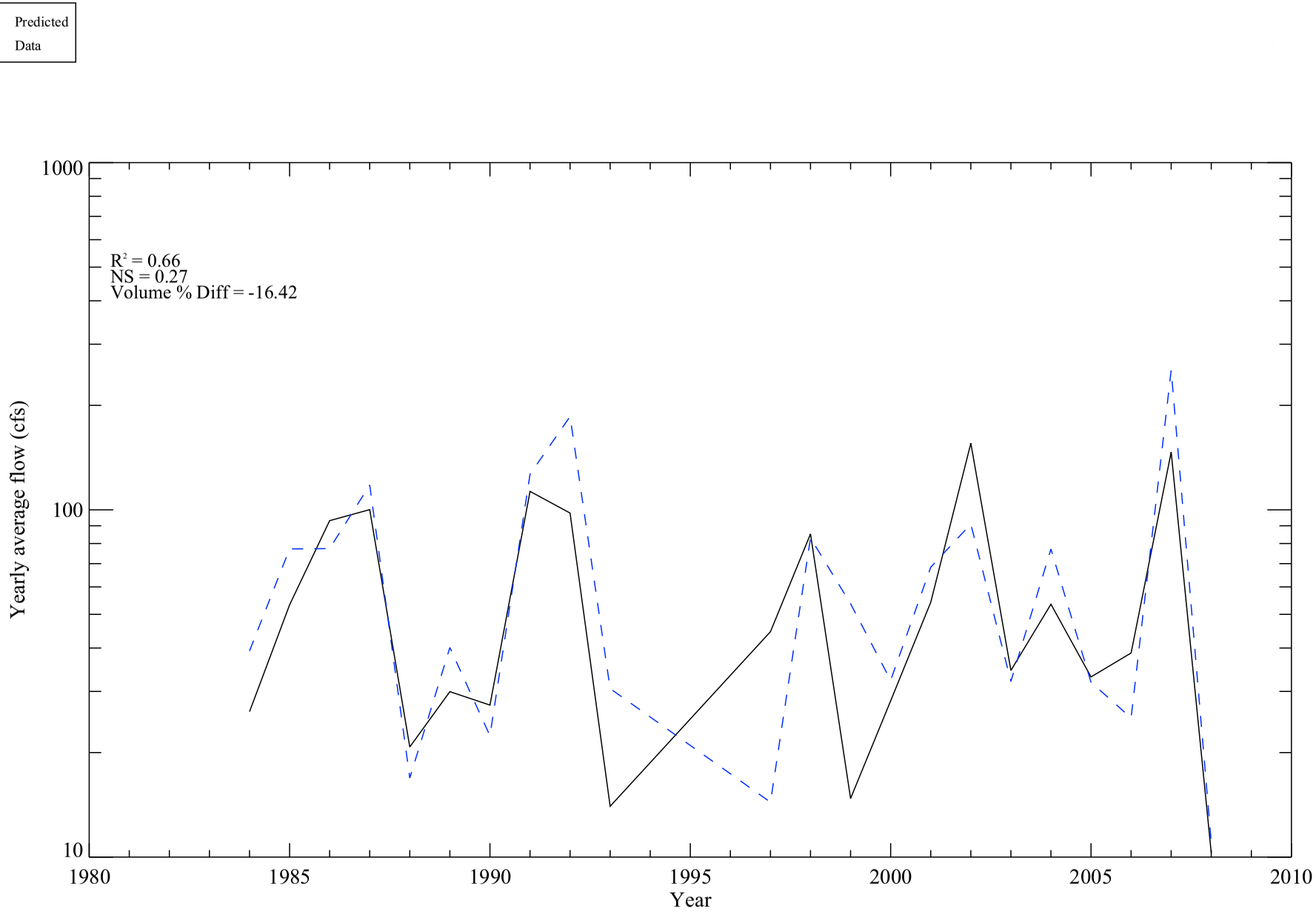

Figure 3-18d. Lake LBJ SWAT model average annual flows calibration for Sandy Creek near Kingsland (Reach 63)

Averages calculated from hourly values.
Model run: final.

JRB - C:\working\bumgarner\PARcrm\analysis\jrb_lbj_postprocess\parcrm_mc_flows_20090428.pro
Thu Jan 14 08:43:20 2010

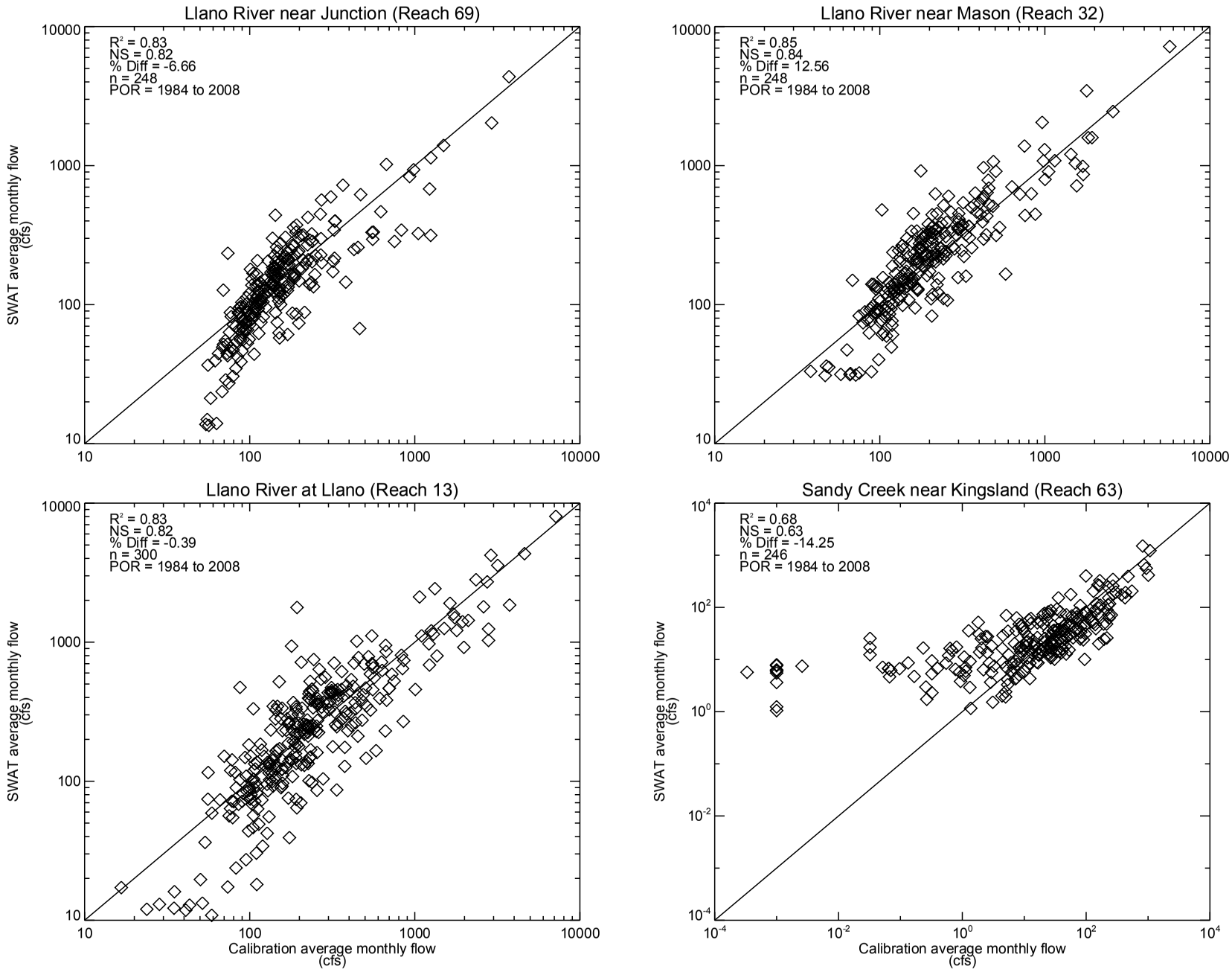

Figure 19. Lake LBJ SWAT model monthly average flow calibration by reach.

Model run: 20100803a.
Calibration values are measured USGS.
Calibration values of 0 are plotted as 0.001.

ARC - C:\Jobs\PARcrm\LBJ\Scenarios\IDL_code\parcrm_xy_20090709.pro
Tue Aug 03 14:13:29 2010

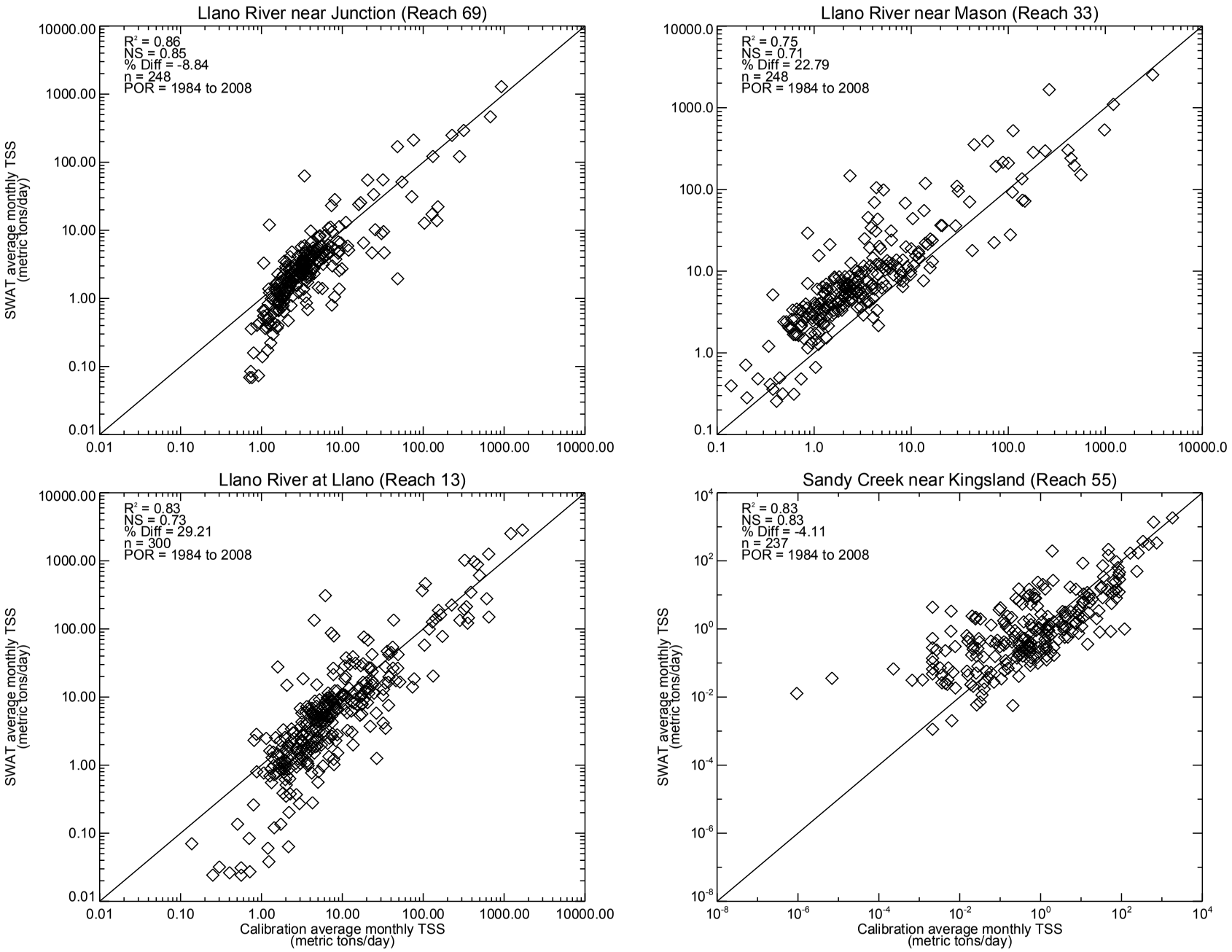

Figure 20. Lake LBJ SWAT model monthly average TSS calibration by reach.

Model run: 20100803a.
Calibration values are calculated from USGS flows and LOADEST rating curves.
Calibration values of 0 are plotted as 0.001.

ARC - C:\Jobs\PARcrm\LBJ\Scenarios\IDL_code\parcrm_xy_20090709.pro
Tue Aug 03 14:13:37 2010

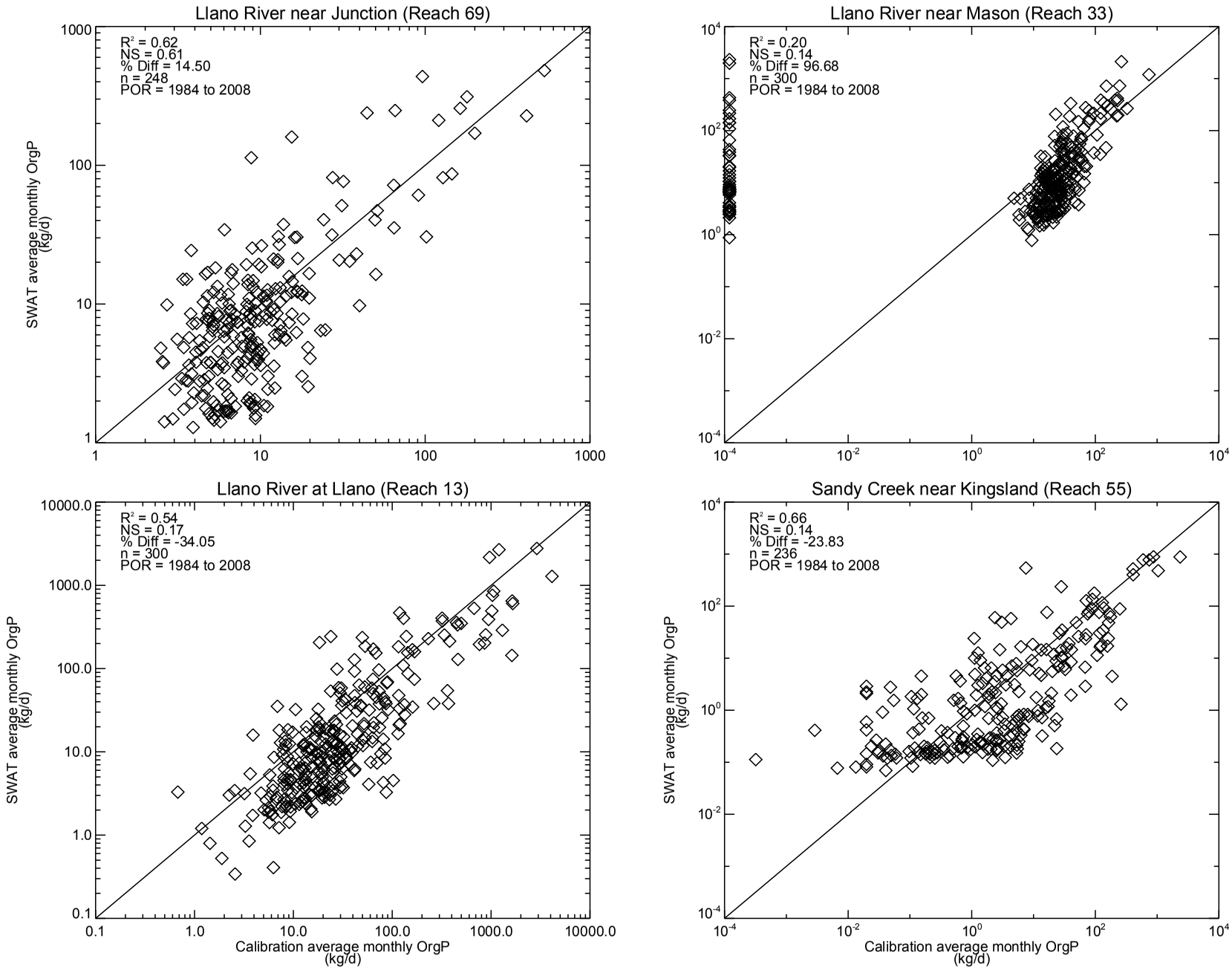

Figure 21a. Lake LBJ SWAT model monthly average OrgP calibration by reach.

Model run: 20100803a.
Calibration values are calculated from USGS flows and LOADEST rating curves.
Calibration values of 0 are plotted as 0.001.

ARC - C:\Jobs\PARcrm\LBJ\Scenarios\IDL_code\parcrm_xy_20090709.pro
Tue Aug 03 14:14:00 2010

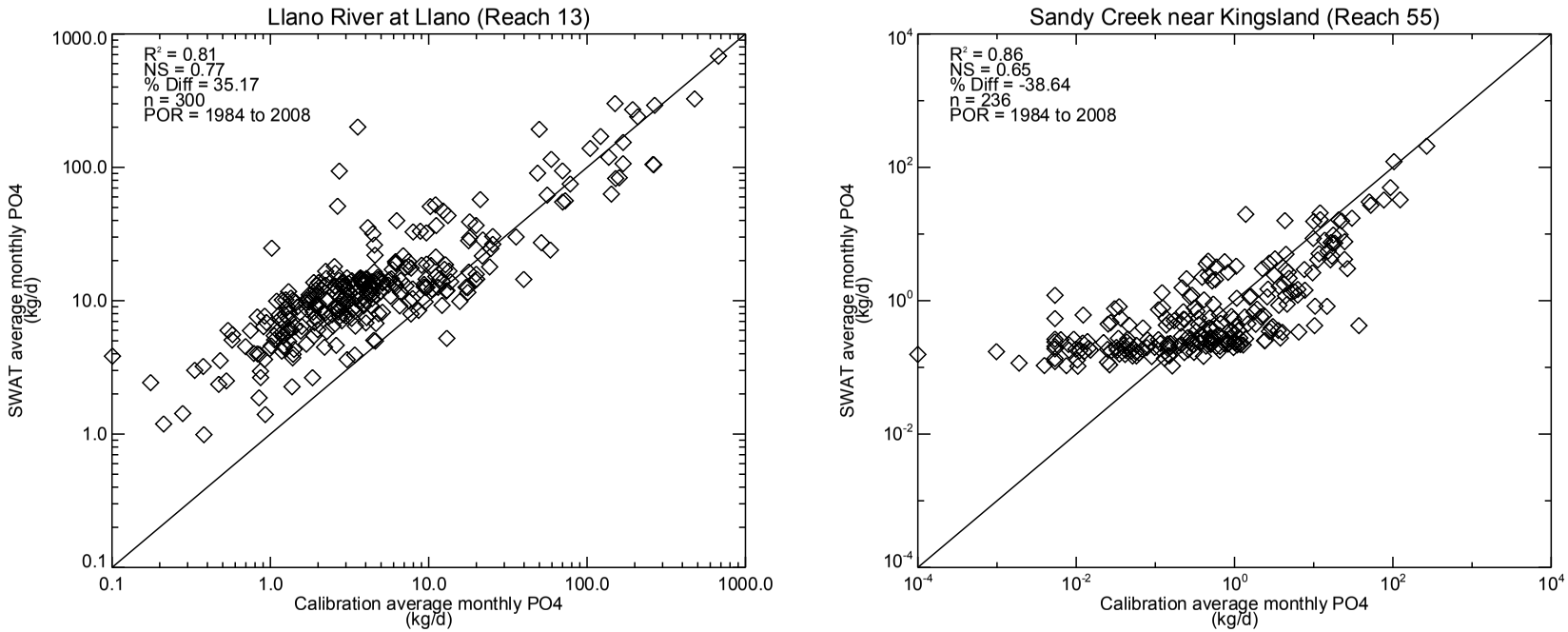

Figure 21b. Lake LBJ SWAT model monthly average PO4 calibration by reach.

Model run: 20100803a.
Calibration values are calculated from USGS flows and LOADEST rating curves.
Calibration values of 0 are plotted as 0.001.

ARC - C:\Jobs\PARcrm\LBJ\Scenarios\IDL_code\parcrm_xy_20090709.pro
Tue Aug 03 14:14:02 2010

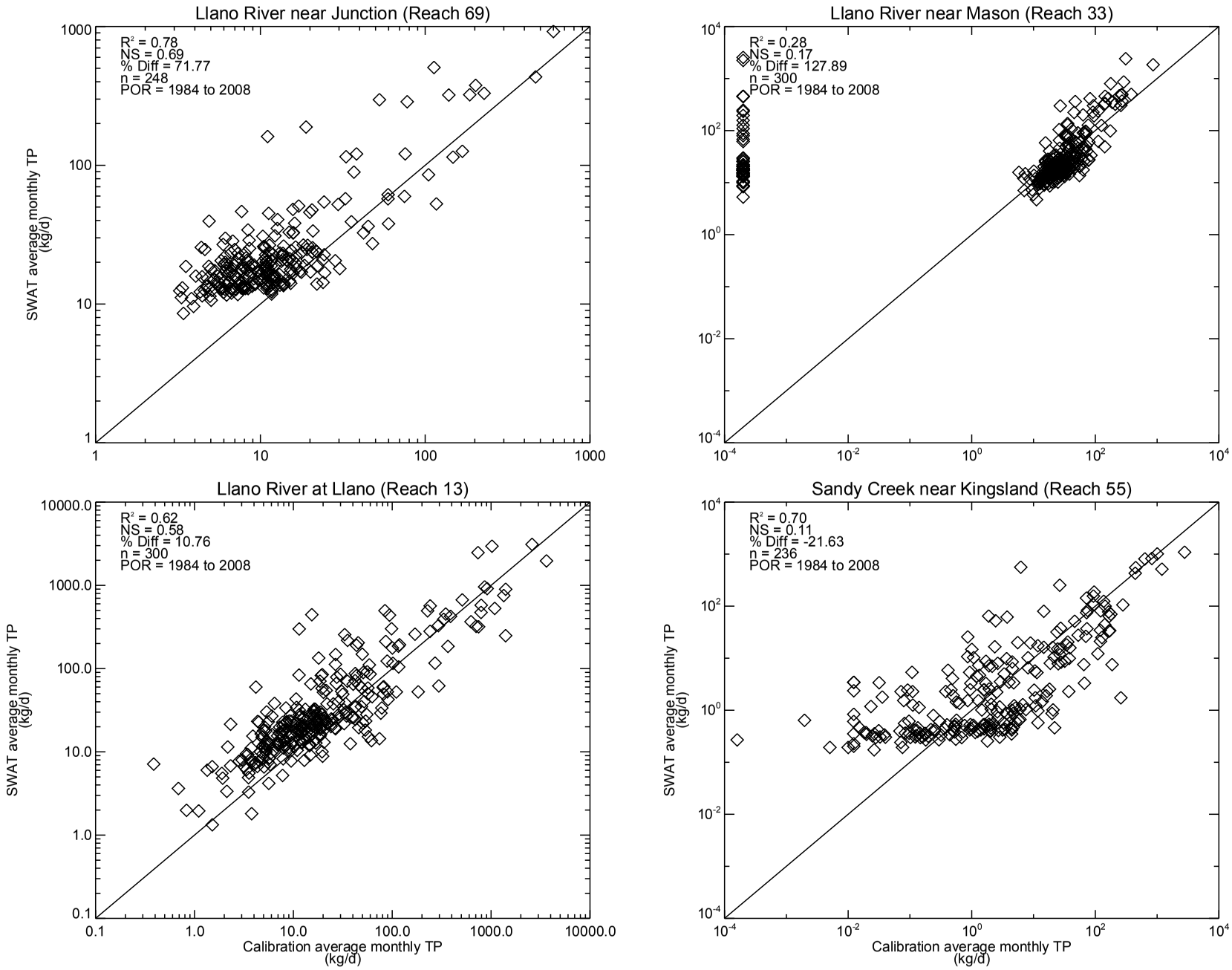

Figure 21c. Lake LBJ SWAT model monthly average TP calibration by reach.

Model run: 20100803a.
Calibration values are calculated from USGS flows and LOADEST rating curves.
Calibration values of 0 are plotted as 0.001.

ARC - C:\Jobs\PARcrm\LBJ\Scenarios\IDL_code\parcrm_xy_20090709.pro
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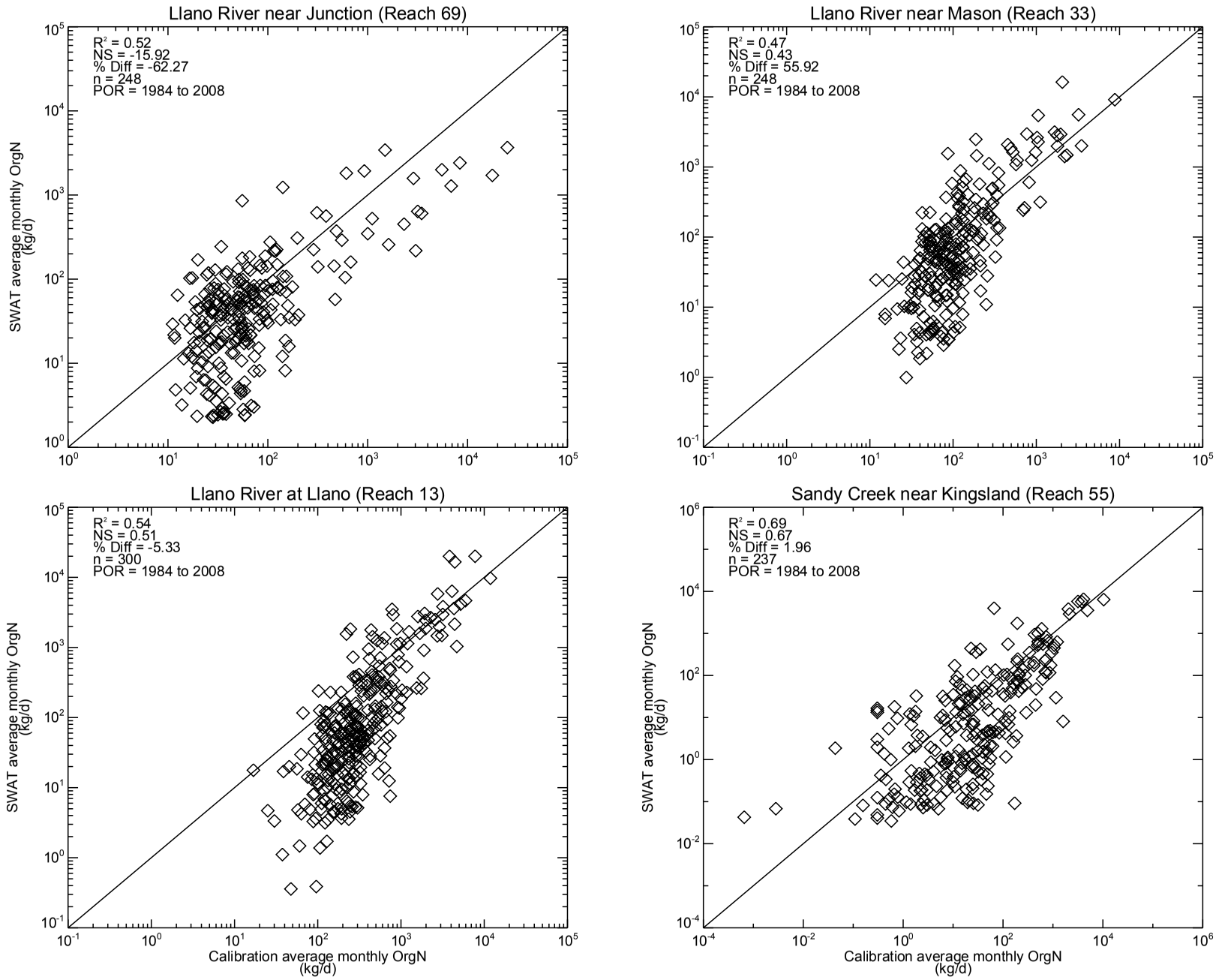

Figure 21d. Lake LBJ SWAT model monthly average OrgN calibration by reach.

Model run: 20100803a.
Calibration values are calculated from USGS flows and LOADEST rating curves.
Calibration values of 0 are plotted as 0.001.

ARC - C:\Jobs\PARcrm\LBJ\Scenarios\IDL_code\parcrm_xy_20090709.pro
Tue Aug 03 14:13:53 2010

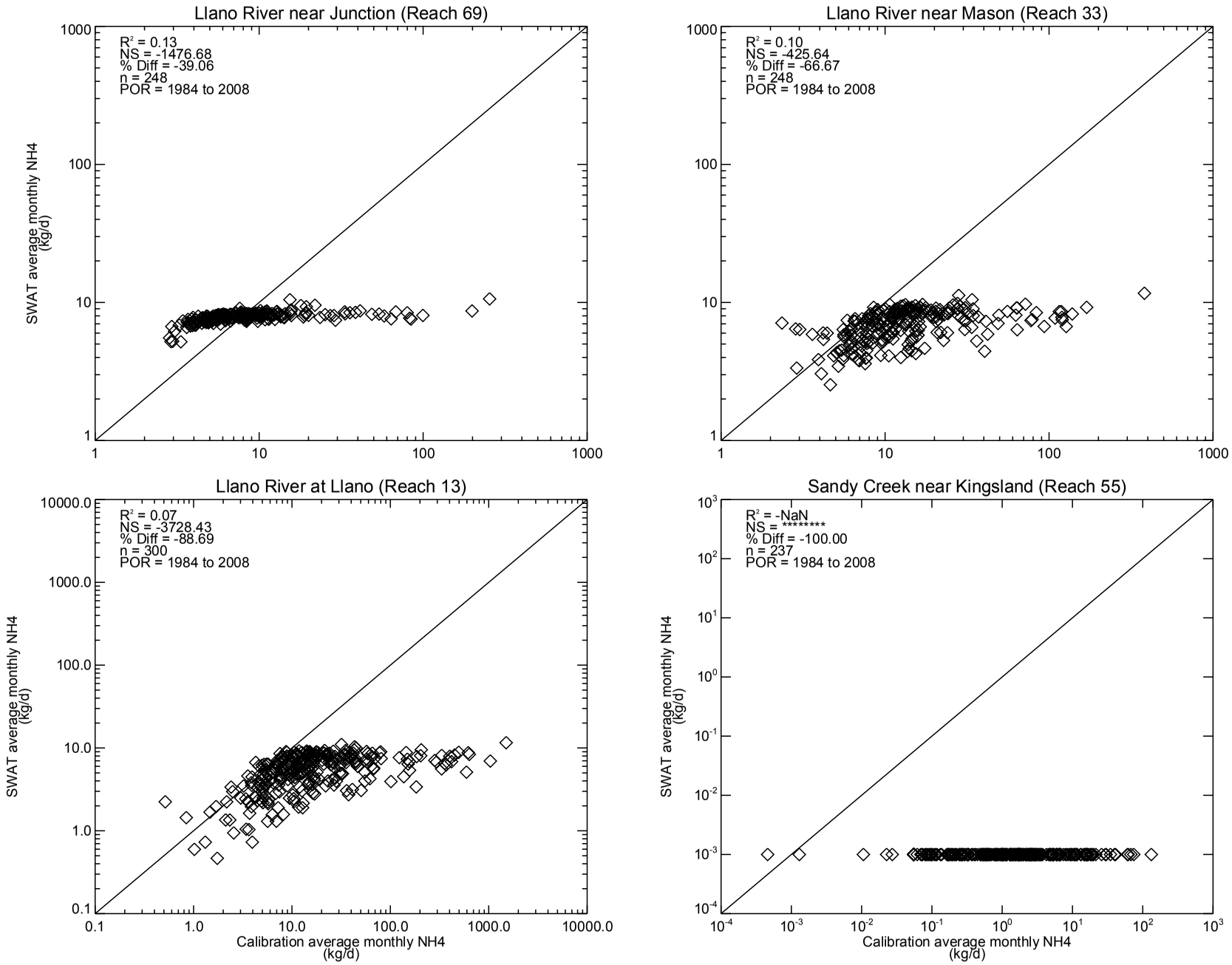

Figure 21e. Lake LBJ SWAT model monthly average NH4 calibration by reach.

Model run: 20100803a.
Calibration values are calculated from USGS flows and LOADEST rating curves.
Calibration values of 0 are plotted as 0.001.

ARC - C:\Jobs\PARcrm\LBJ\Scenarios\IDL_code\parcrm_xy_20090709.pro
Tue Aug 03 14:13:42 2010

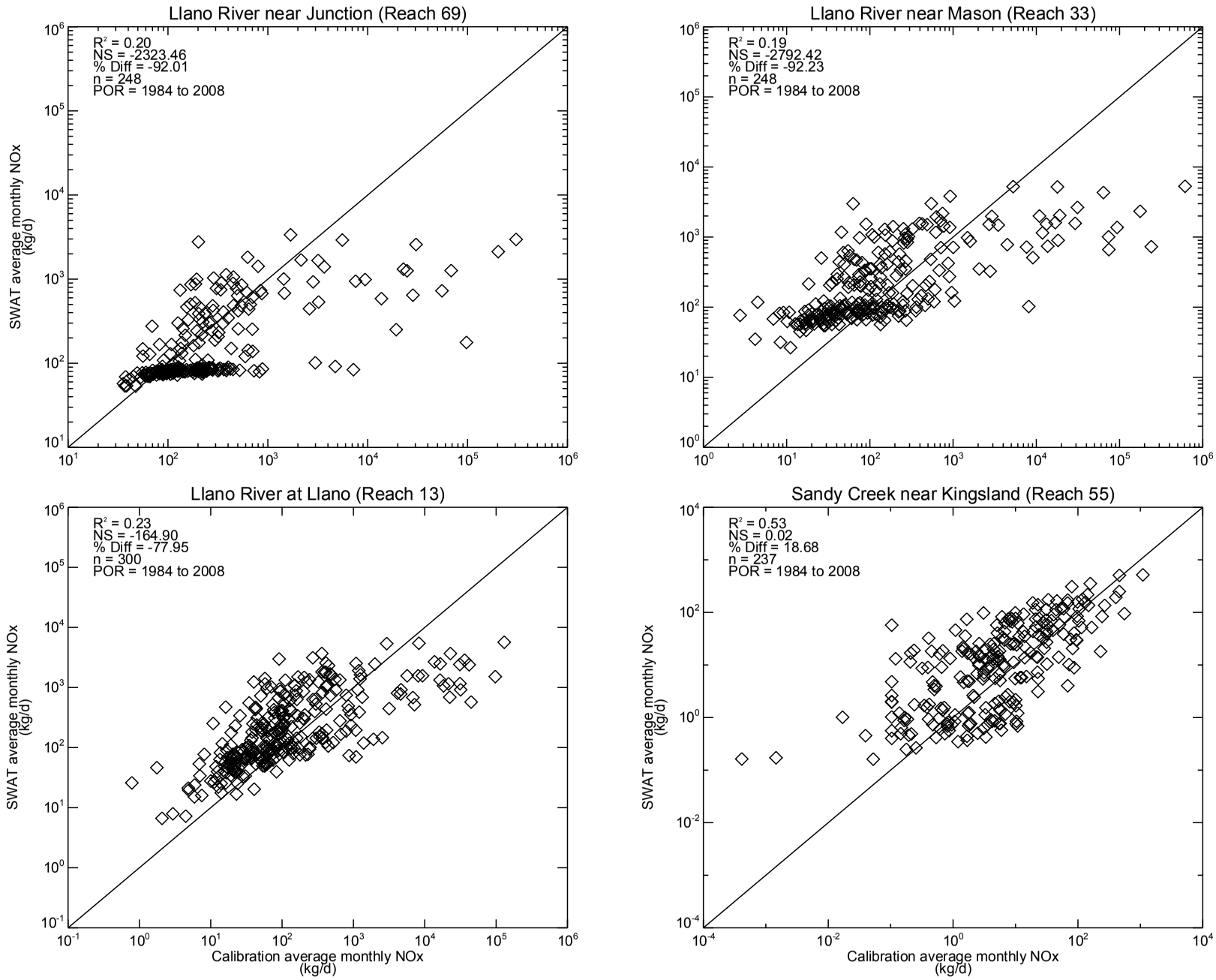

Figure 21f. Lake LBJ SWAT model monthly average NOx calibration by reach.

Model run: 20100803a.
Calibration values are calculated from USGS flows and LOADEST rating curves.
Calibration values of 0 are plotted as 0.001.

ARC - C:\Jobs\PARcrm\LBJ\Scenarios\IDL_code\parcrm_xy_20090709.pro
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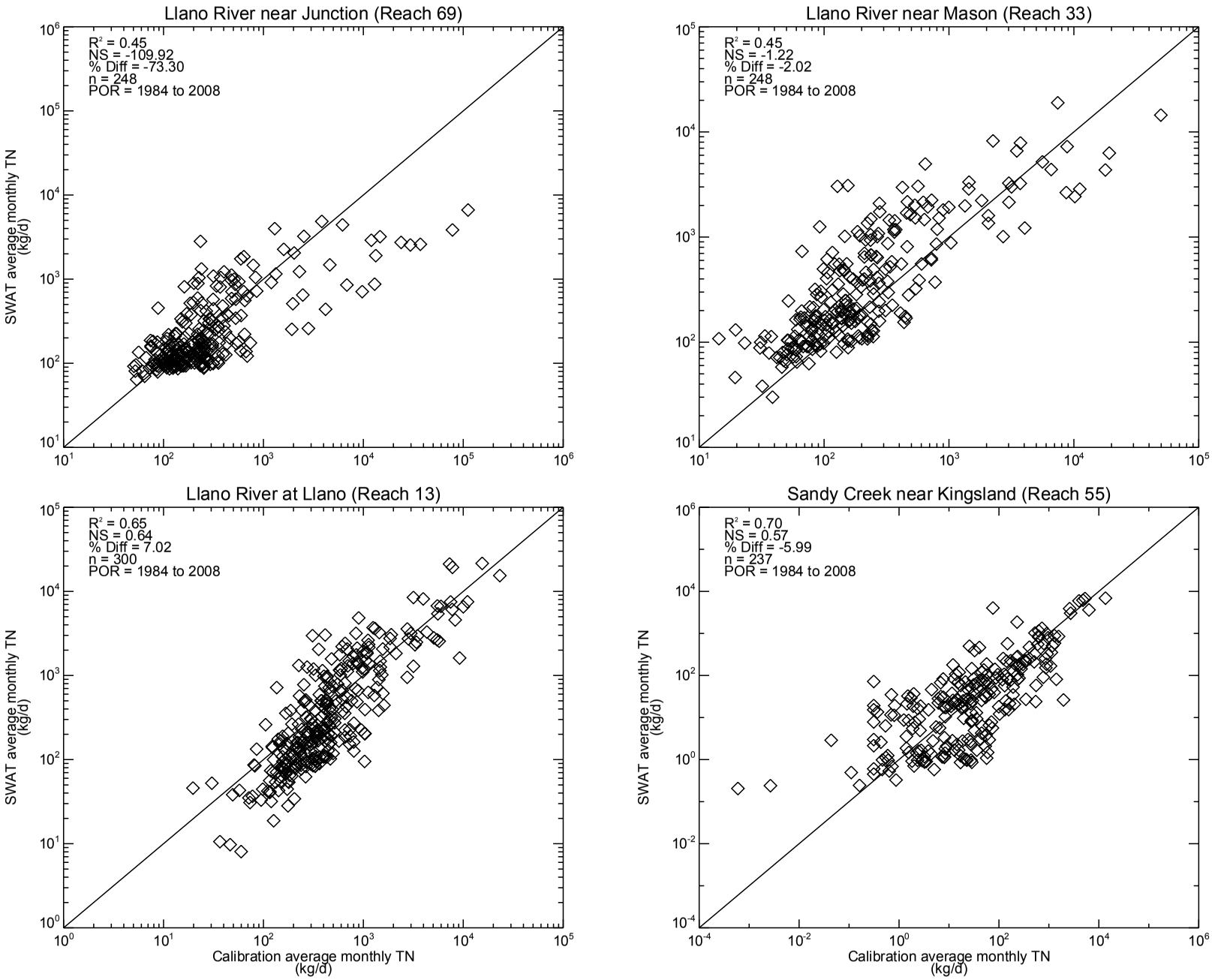

Figure 21g. Lake LBJ SWAT model monthly average TN calibration by reach.

Model run: 20100803a.
Calibration values are calculated from USGS flows and LOADEST rating curves.
Calibration values of 0 are plotted as 0.001.

ARC - C:\Jobs\PARcrm\LBJ\Scenarios\IDL_code\parcrm_xy_20090709.pro
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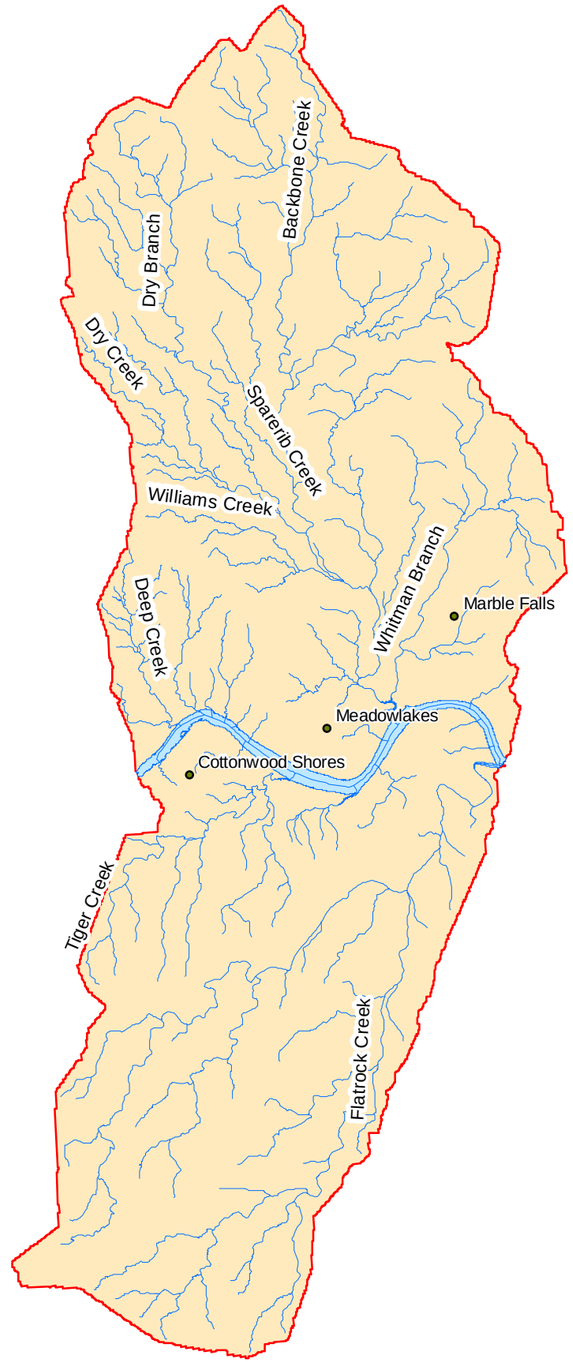

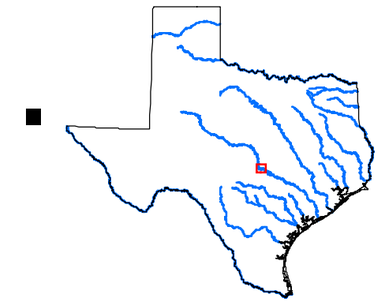

2 1 0 2 Miles

Legend

Lake Marble Falls Watershed

Figure 3-22.

Lake Marble Falls Watershed and Stream Network

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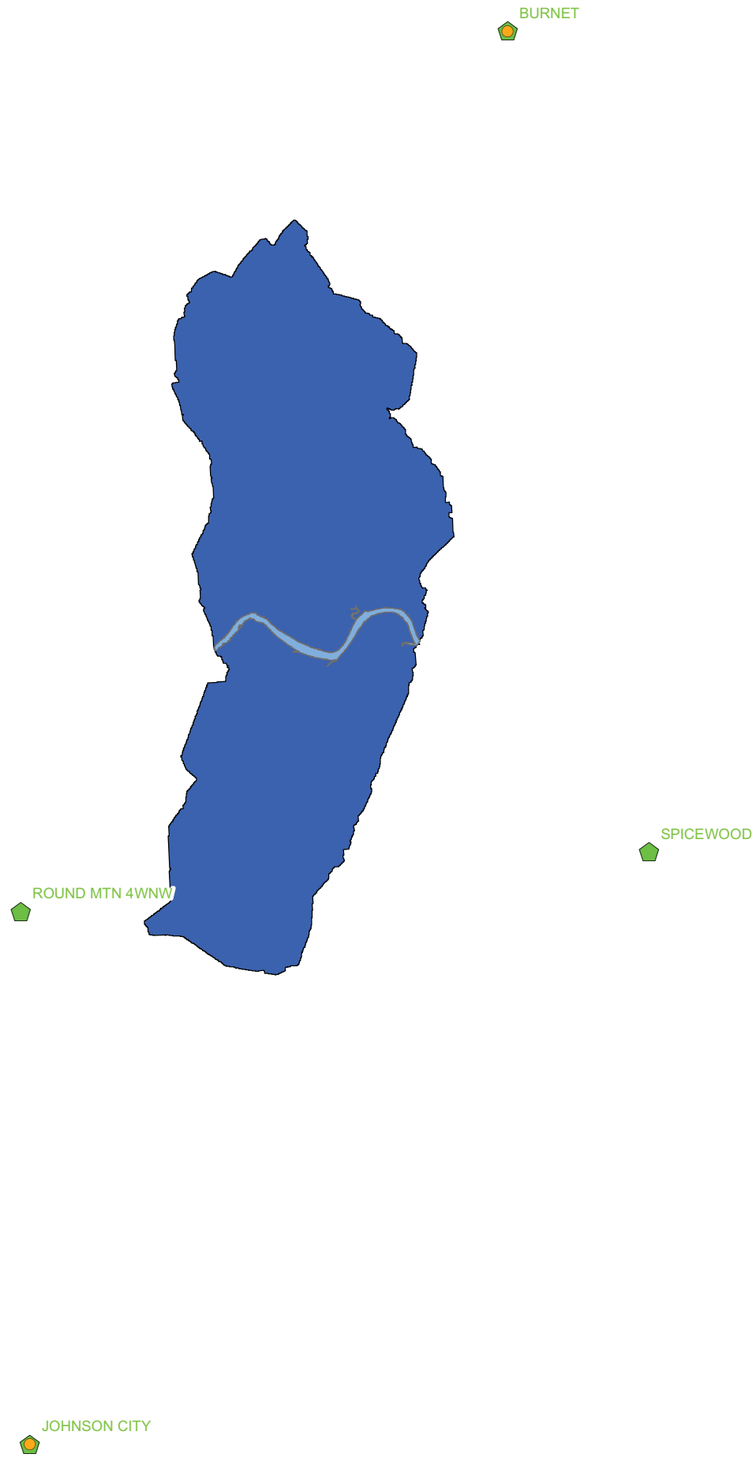
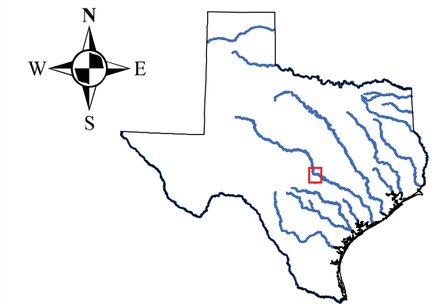
November 2010





4 2 0 4 Miles

Legend

- Precipitation Gage
- Temperature Gage
- Lake Marble Falls

Precipitation (inches)

- 30-32

Figure 3-23.

Lake Marble Falls Watershed Average Annual Precipitation and Meteorological Stations

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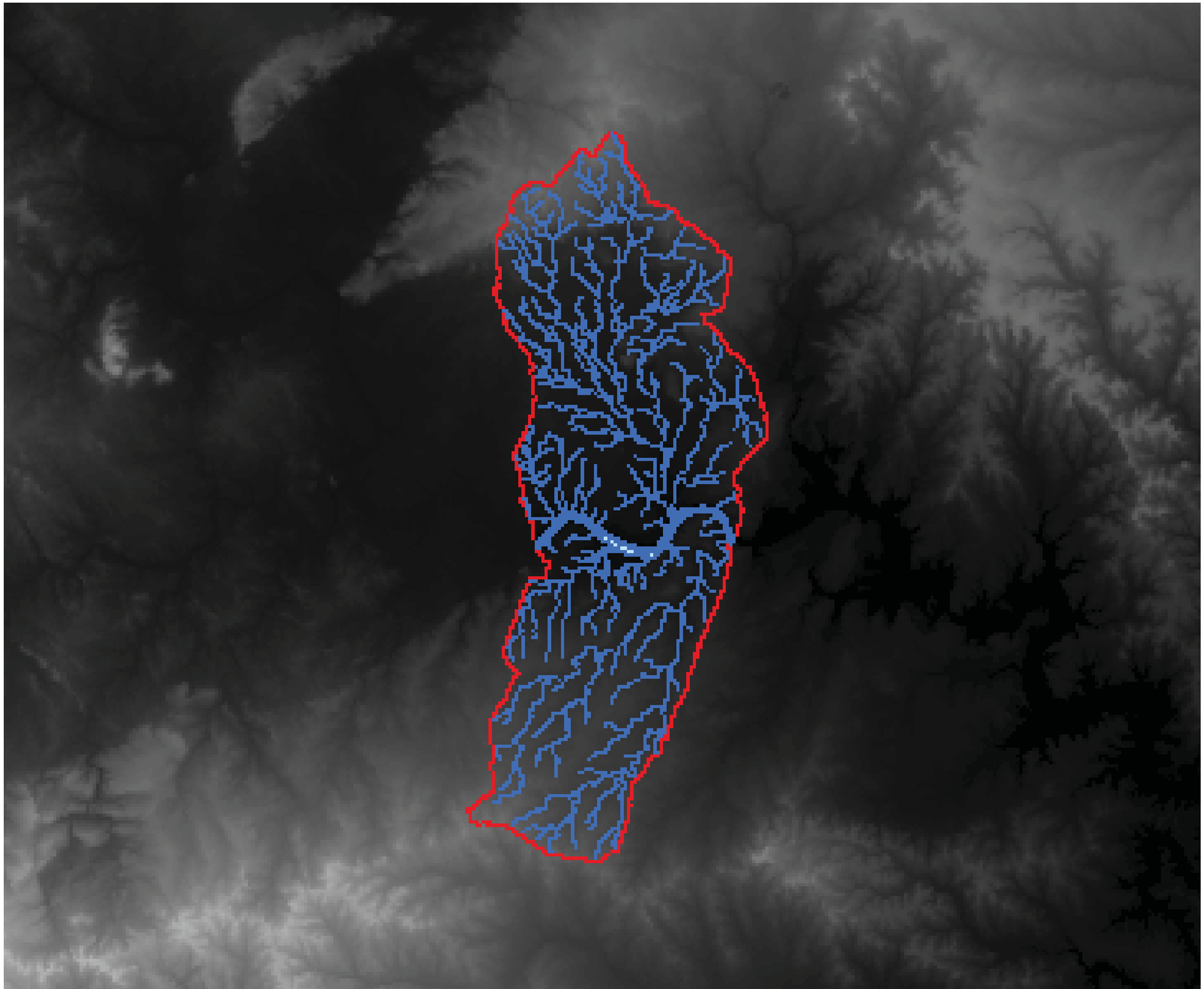
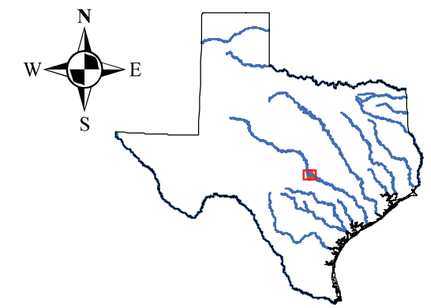
October 2010





2 1 0 2 Miles

Legend

Stream

Lake Marble Falls Watershed

Lake Marble Falls

Elevation (m above msl)

High : 693

Low : 146

Figure 3-24.

Lake Marble Falls Watershed with Digital Elevation Model

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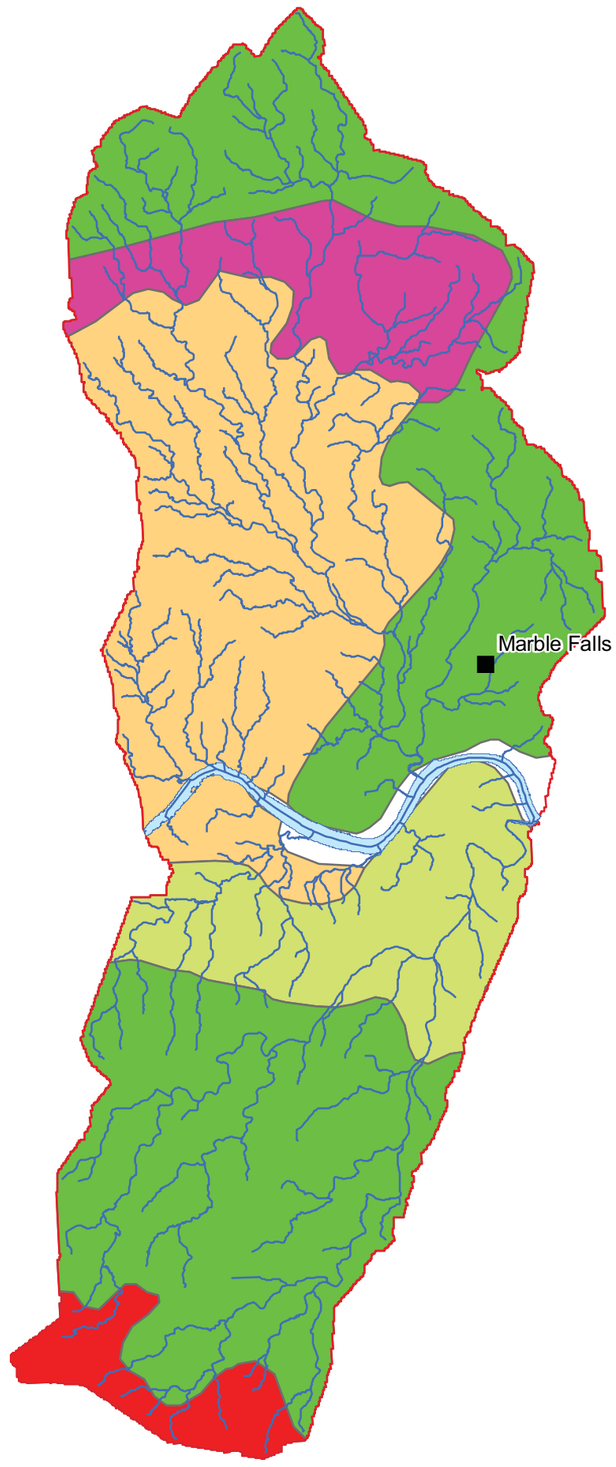
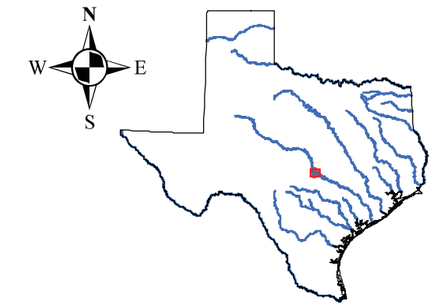
November 2010





2 1 0 2 Miles

Legend

- Major Cities
- Stream
- Lake Marble Falls
- TX071
- TX155
- TX227
- TX360
- TX592

Figure 3-25.
Lake Marble Falls Watershed
STATSGO Classification

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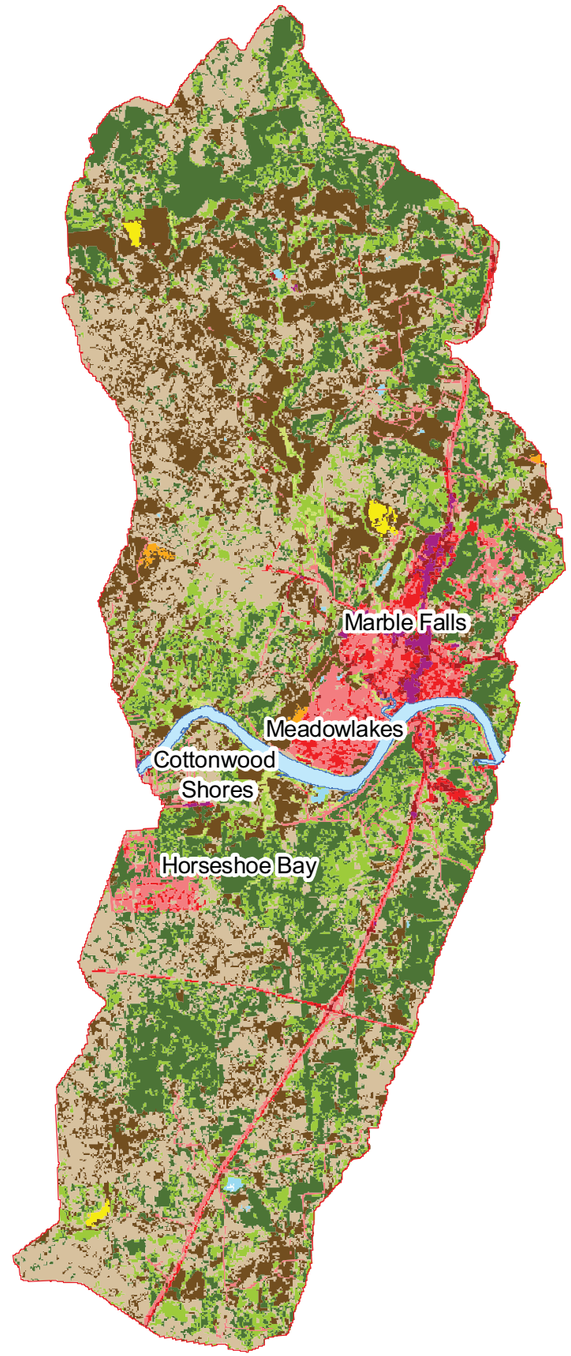

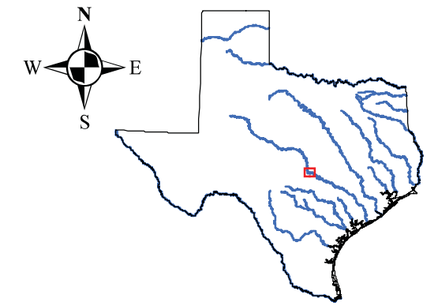

2 1 0 2 Miles

Legend

- Deciduous Forest
- Wetlands
- Evergreen Forest
- Mixed Forest
- Forested Wetlands
- Agricultural Land-Row Crop
- Hay
- Range - Brush
- Range - Grasses
- Range - Southwestern Arid
- Residential-Low Density
- Residential-Medium Density
- Residential-High Density
- Industrial
- Water

Figure 3-26.

Lake Marble Falls Watershed Land Cover

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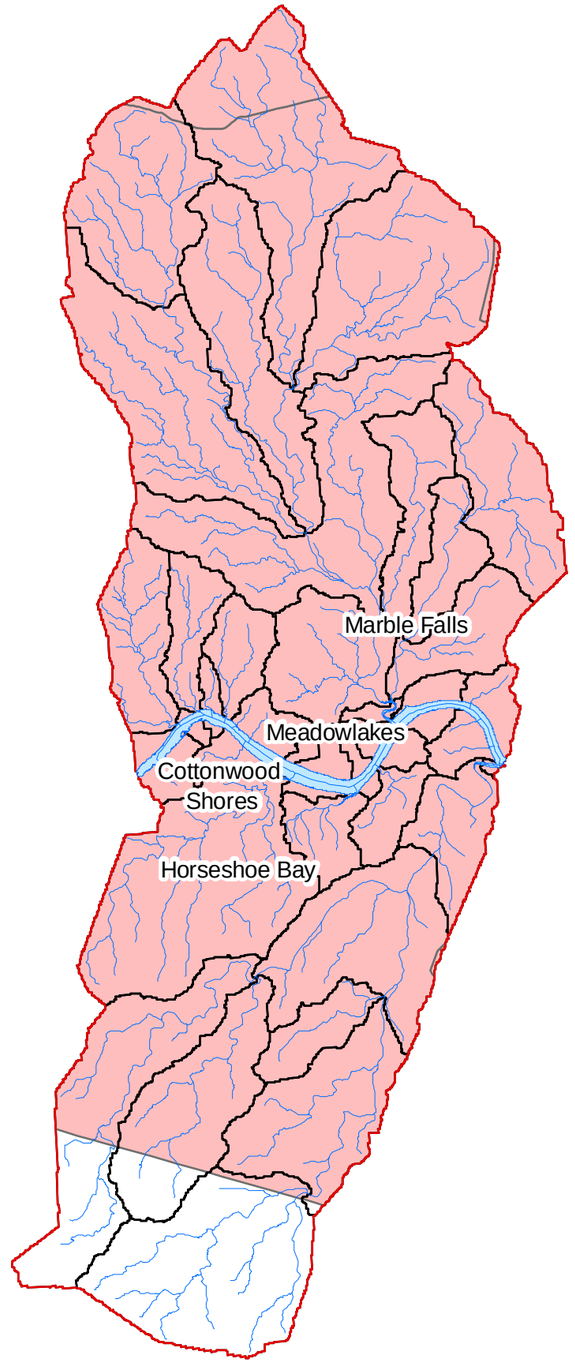
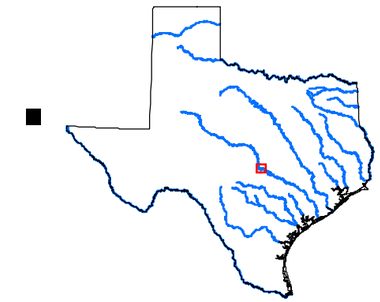
November 2010





2 1 0 2 Miles

Legend

- Stream
- Lake Marble Falls Watershed
- Lake Marble Falls
- Lake Marble Falls Delineation

Highland Lakes Watershed Ordinance

- Region B

Figure 3-27.

Extent of the HLWO within Lake Marble Falls Watershed

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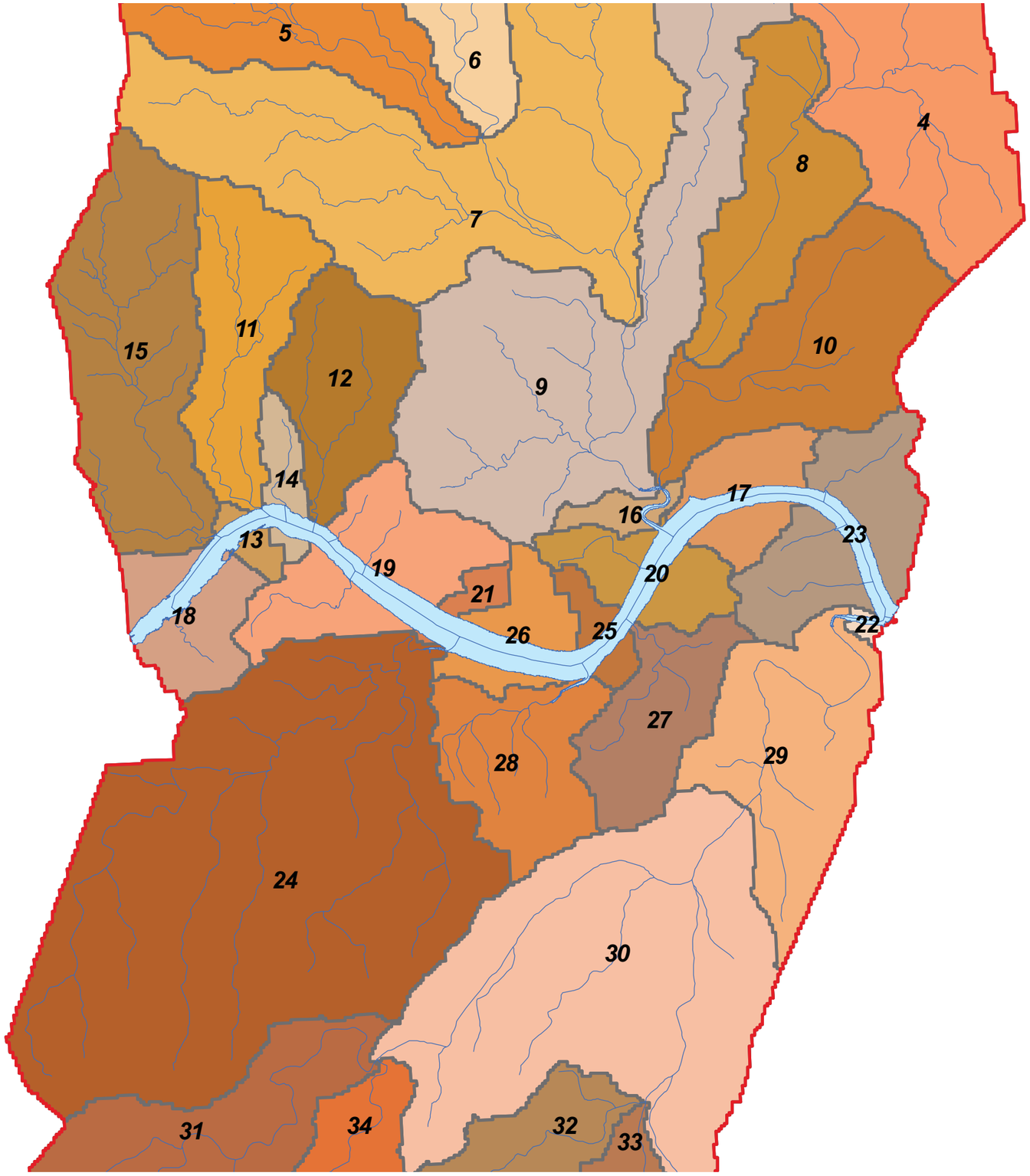
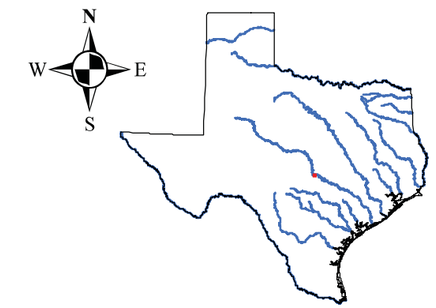
November 2010





1 0.5 0 1 Miles

Legend

- Stream
- Lake Marble Falls Watershed
- Lake Marble Falls
- SWAT Model Subbasin

Figure 3-28.

Lake Marble Falls Watershed Model Segmentation

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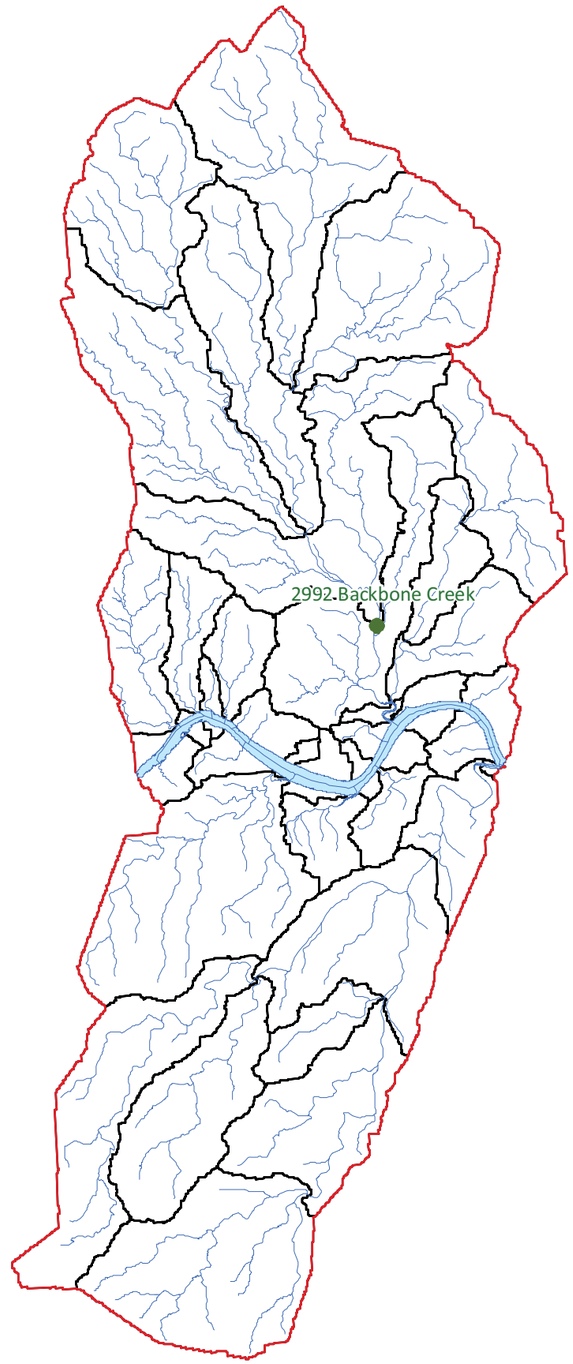
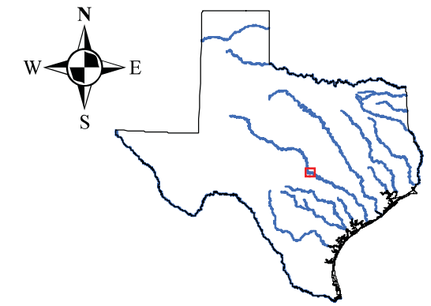
November 2010





2 1 0 2 Miles

Legend

- LCRA Hydromet Station
- Stream
- Lake Marble Falls Watershed
- Lake Marble Falls
- Lake Marble Falls Delineation

Figure 3-29.

Lake Marble Falls Sub-watershed Delineation with Calibration Stations

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November 2010

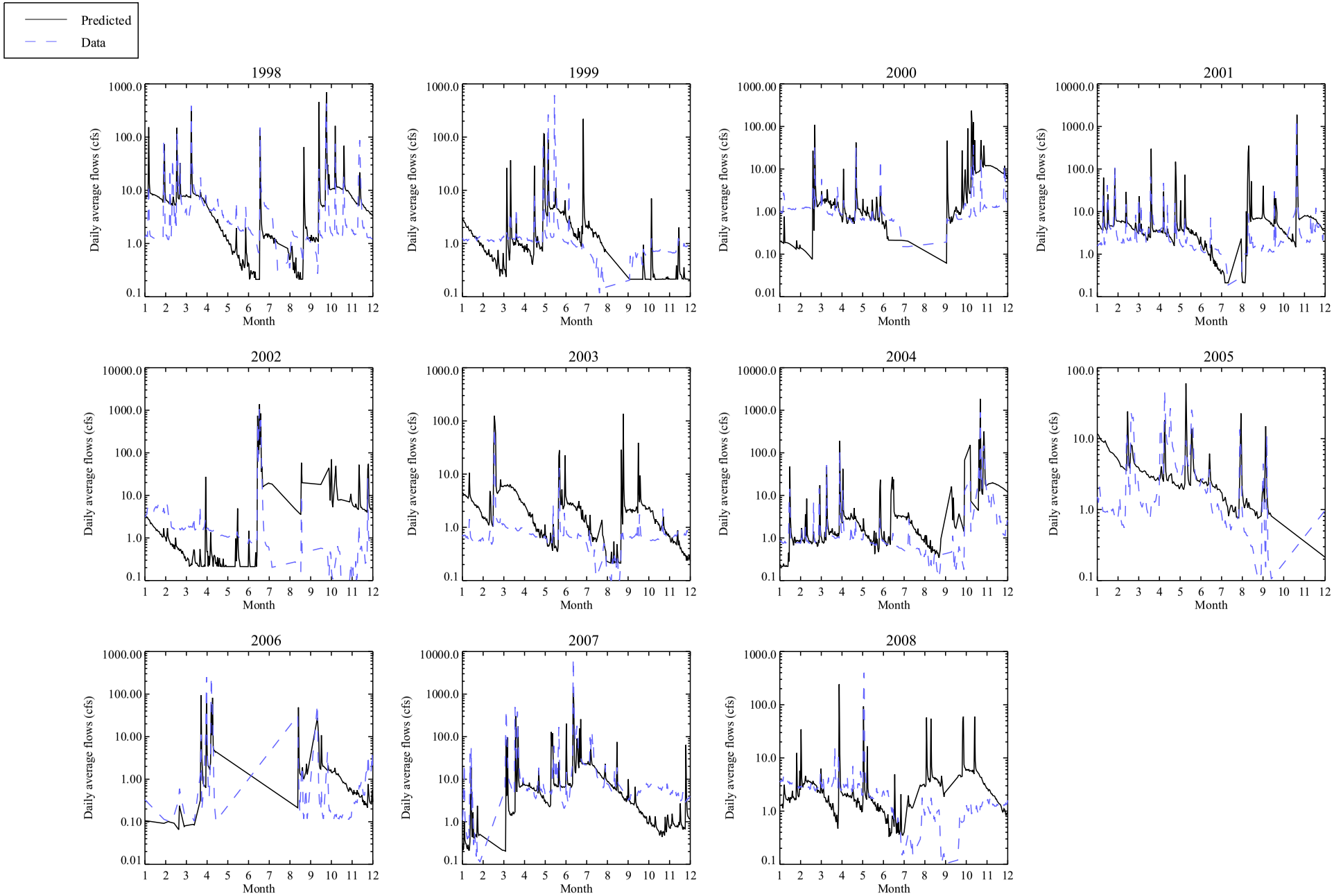


Figure 3-30.
SWAT modeled and reported daily flows for Backbone Creek (Reach 7) draining to LMF

Model run: basecase_mod_20090706.
R2 = 0.31: NS = -1.60

CALL - C:\Jobs\PARcrm\LMF\Analysis\parcrm_mc_flows_xyb.pro
Mon Jul 13 16:15:24 2009

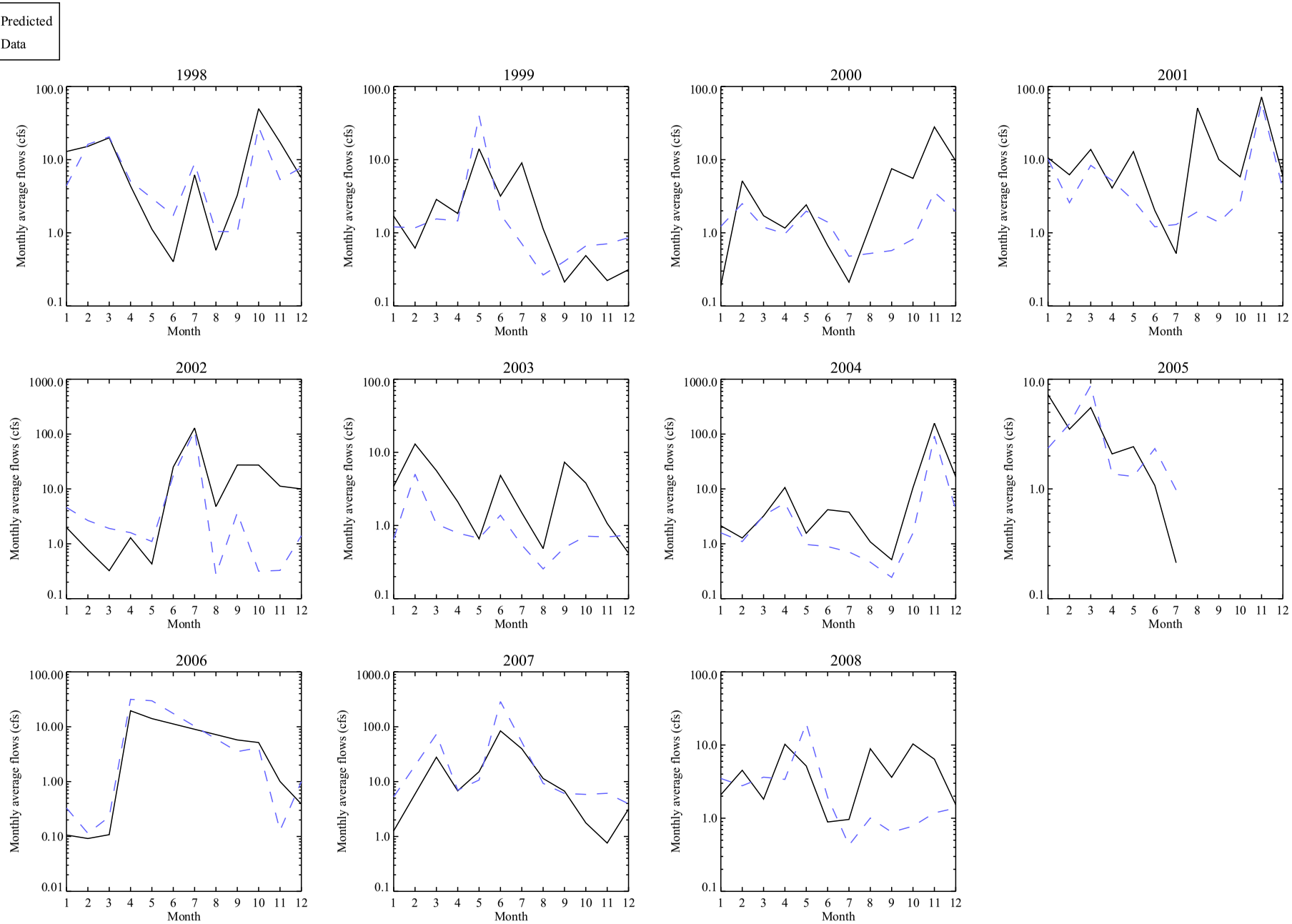


Figure 3-31a.

SWAT modeled and reported monthly average flows for Backbone Creek (Reach 7) draining to Lake LMF

Model run: basecase_mod_20090706.

R2 = 0.50: NS = 0.01:

CALL - C:\Jobs\PARcrm\LMF\Analysis\parcrm_mc_flows_xyb.pro
Mon Jul 13 16:15:24 2009

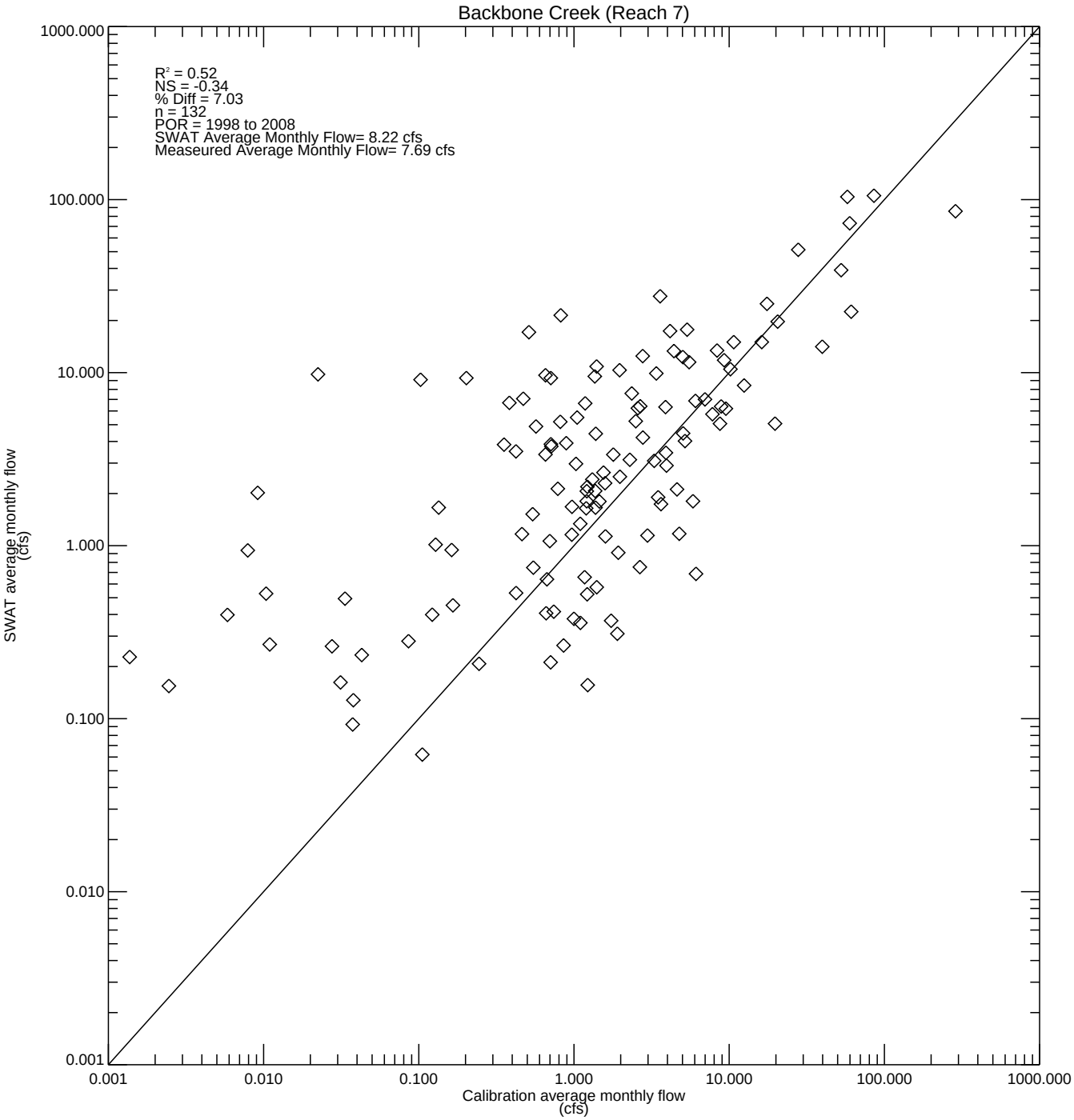


Figure 31b. SWAT modeled and reported monthly average flows for Backbone Creek to Lake LMF

Model run: 20100817c.

Calibration values are measured LCRA Hydromet flows.

Calibration values of 0 are plotted as 0.001.

ARC - C:\Jobs\PARcrm\LMF\parcrm_xy_20100813.pro
Fri Oct 08 15:38:19 2010

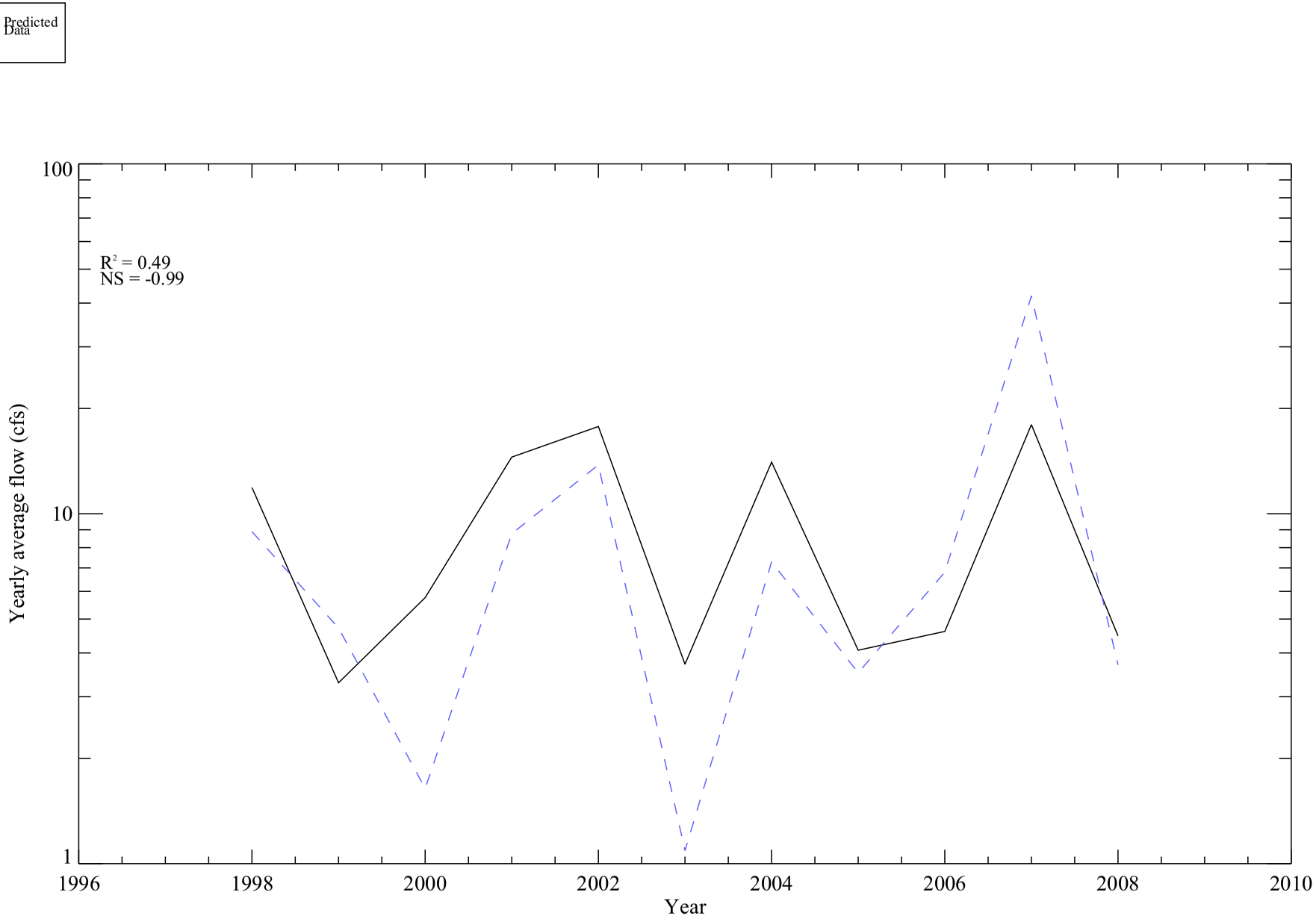
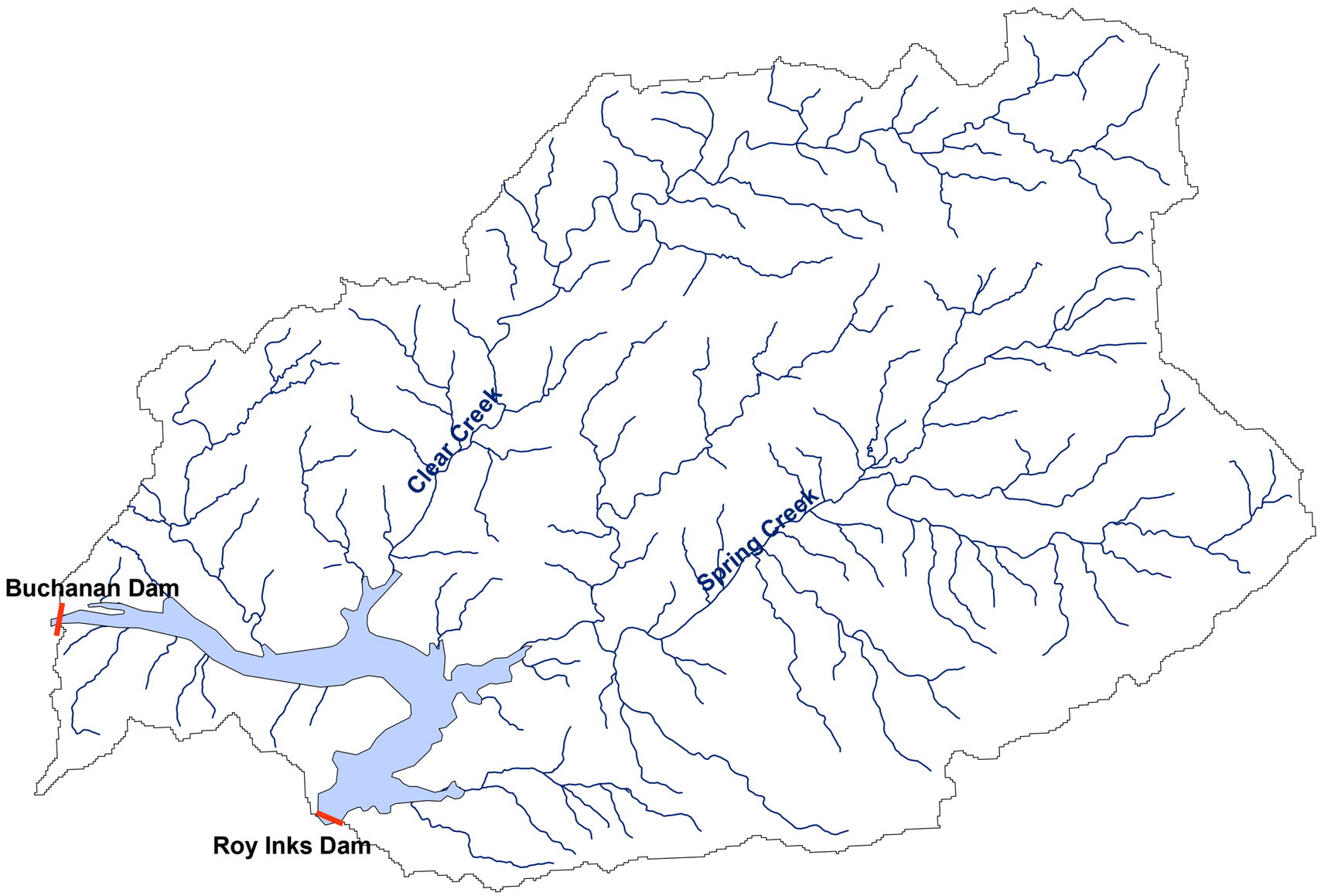


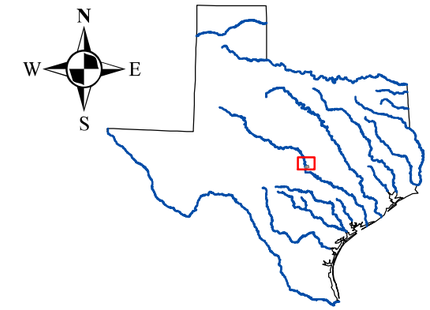
Figure 3-32.

SWAT modeled and reported yearly average flows for Backbone Creek (Reach 7) draining to Lake LMF

Averages calculated from hourly values.
Model run: basecase_mod_20090706.

CALL - C:\Jobs\PARcrm\LMF\Analysis\parcrm_mc_flows_xyb.pro
Mon Jul 13 16:15:25 2009





1 0.5 0 1 Miles

Legend

- Dam
- Stream
- Inks Lake Watershed
- Inks Lake

Figure 3-33.

Inks Lake Watershed
and Stream Network

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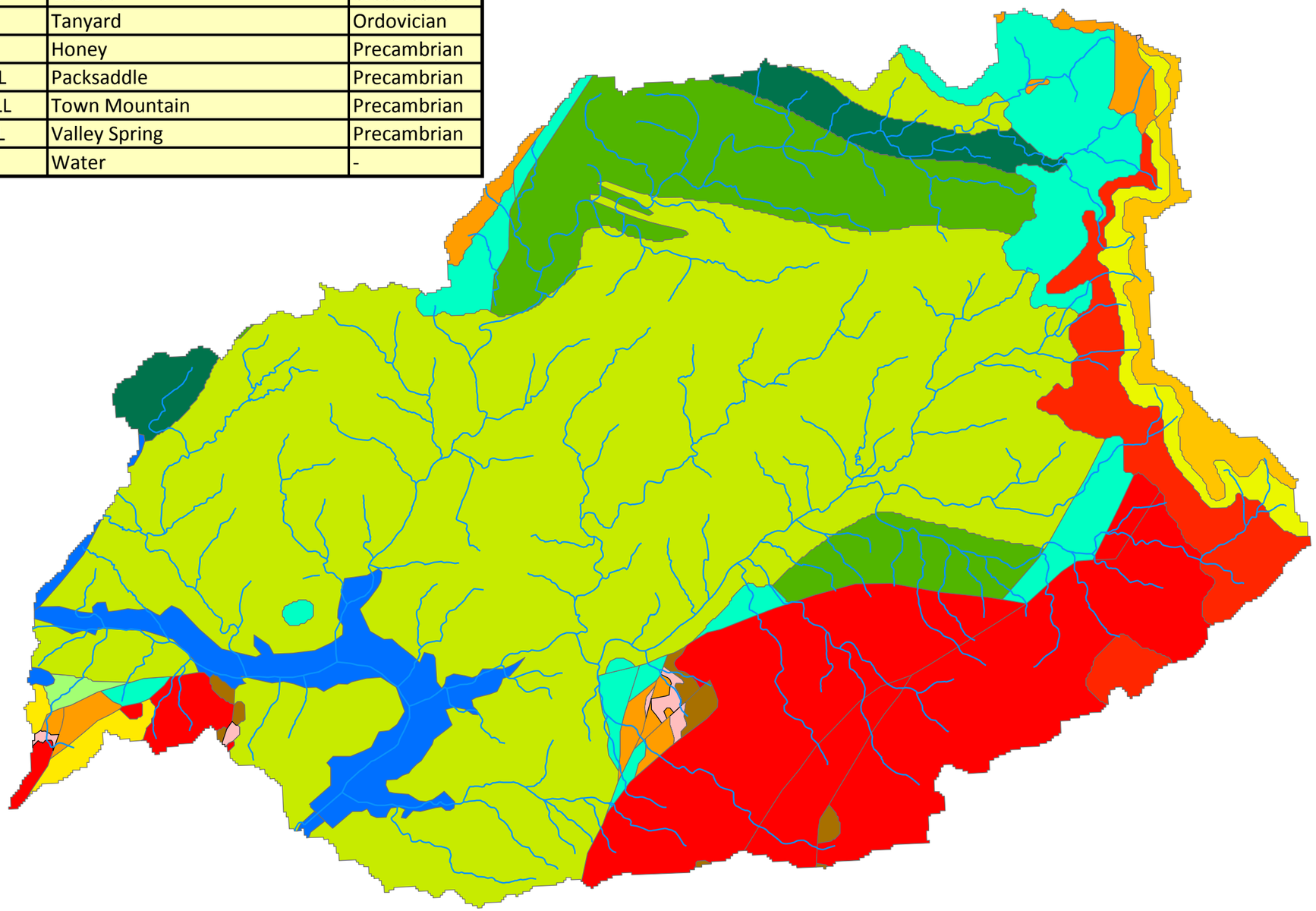
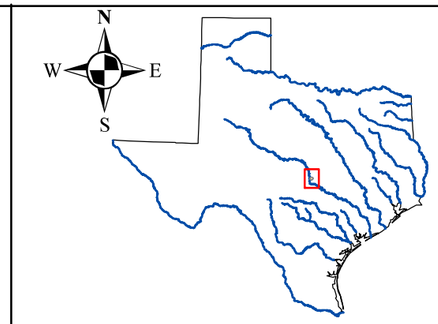
ROCK UNIT	SHORT NAME	PERIOD
Crc_LL	Lion Mountain, Cap Mountain	Cambrian
Crh_LL	Hickory	Cambrian
Cwm_LL	Morgan Creek, Welge	Cambrian
Cwp_LL	Point Peak	Cambrian
Cws_LL	San Saba	Cambrian
Kgru_LL	Glen Rose	Cretaceous
Kh_LL	Hensell	Cretaceous
Kwa_LL	Walnut	Cretaceous
Ot_LL	Tanyard	Ordovician
pCh_LL	Honey	Precambrian
pCps_LL	Packsaddle	Precambrian
pCtm_LL	Town Mountain	Precambrian
pCvs_LL	Valley Spring	Precambrian
Wa_LL	Water	-





1 0.5 0 1 Miles

Legend

Streams

Rock Unit

- Crc_LL
- Crh_LL
- Cwm_LL
- Cwp_LL
- Cws_LL
- Kgru_LL
- Kh_LL
- Kwa_LL
- Ot_LL
- Wa_LL
- pCh_LL
- pCps_LL
- pCtm_LL
- pCvs_LL

Figure 3-34.

Inks Lake Watershed
Geologic Regions

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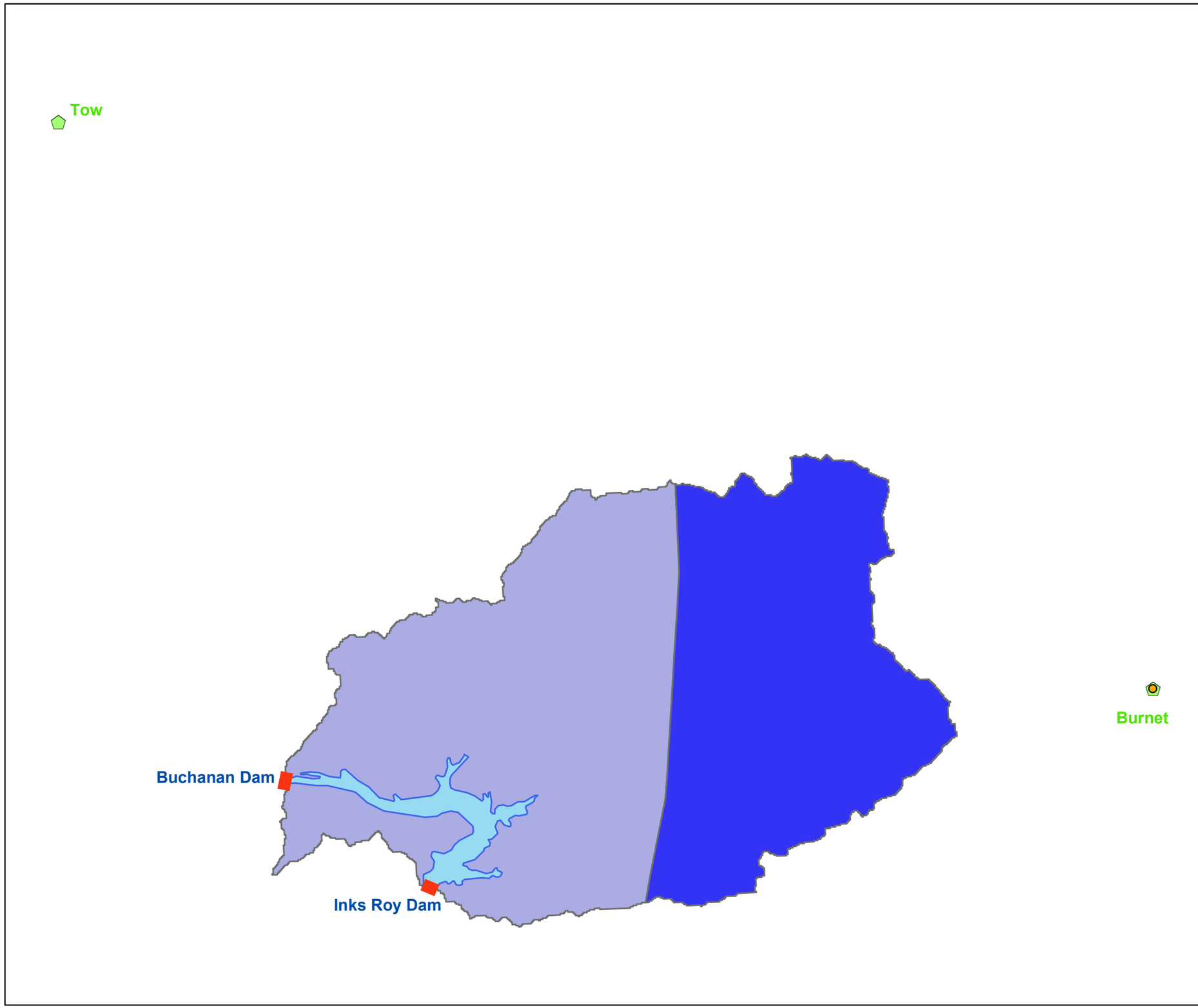

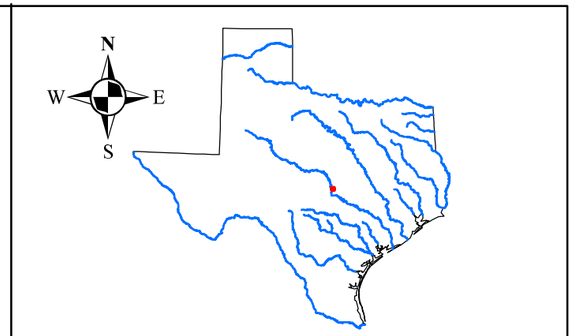

1 0.5 0 1 Miles

Legend

- Precipitation gage
- Temperature gage
- Dam
- Inks Lake

Precipitation (inches)

- 28-30
- 30-32

Figure 3-35.

Inks Lake Watershed
Average Annual Precipitation
and Meteorological Stations

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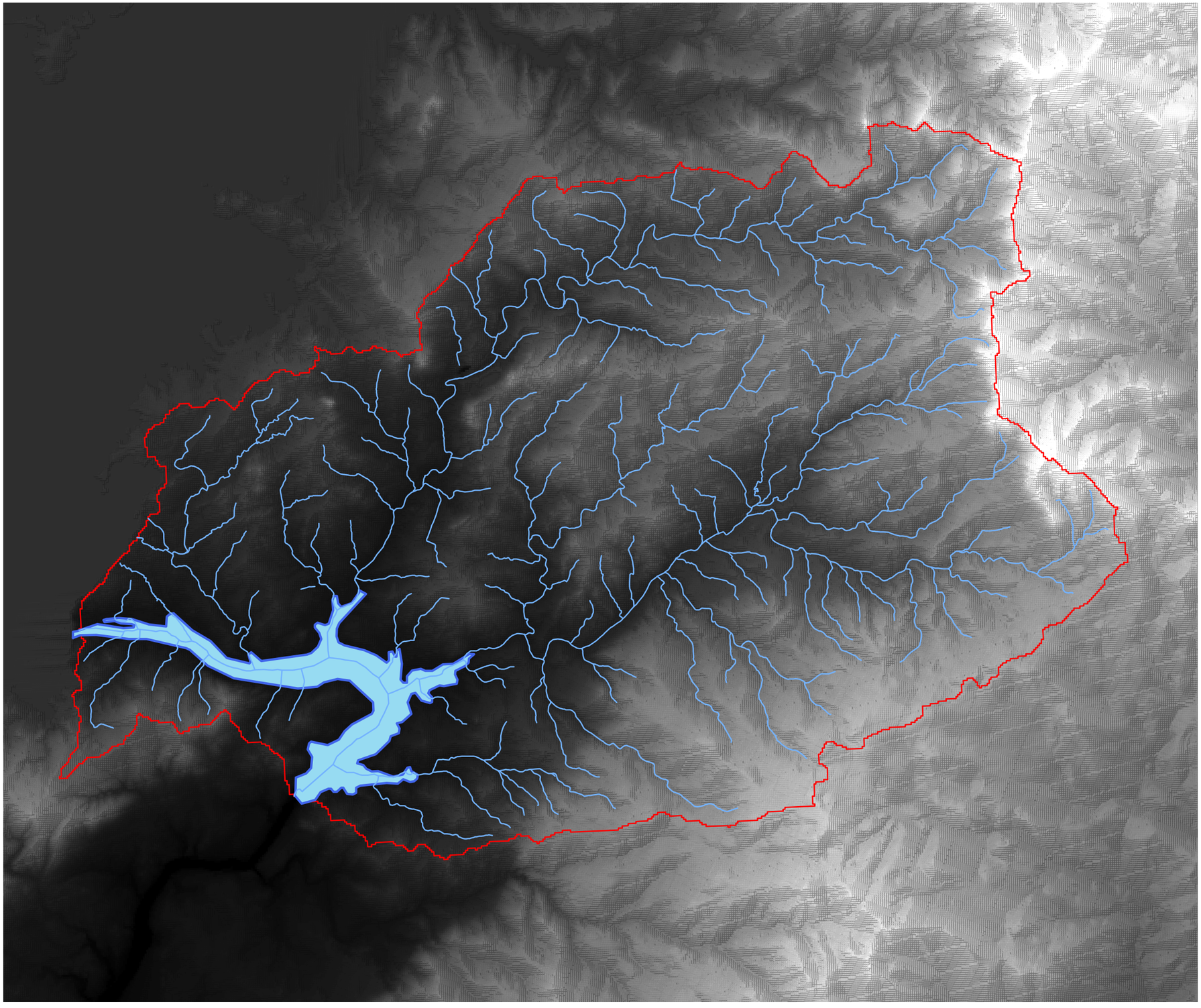

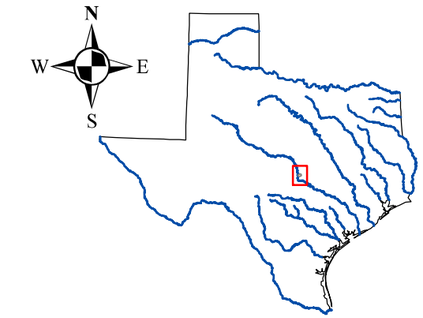

1 0.5 0 1 Miles

Legend

- Stream
- Inks Lake
- Inks Lake Watershed

Elevation (m above msl)

High : 631.782

Low : 206.546

Figure 3-36.

Inks Lake Watershed
with Digital Elevation Model

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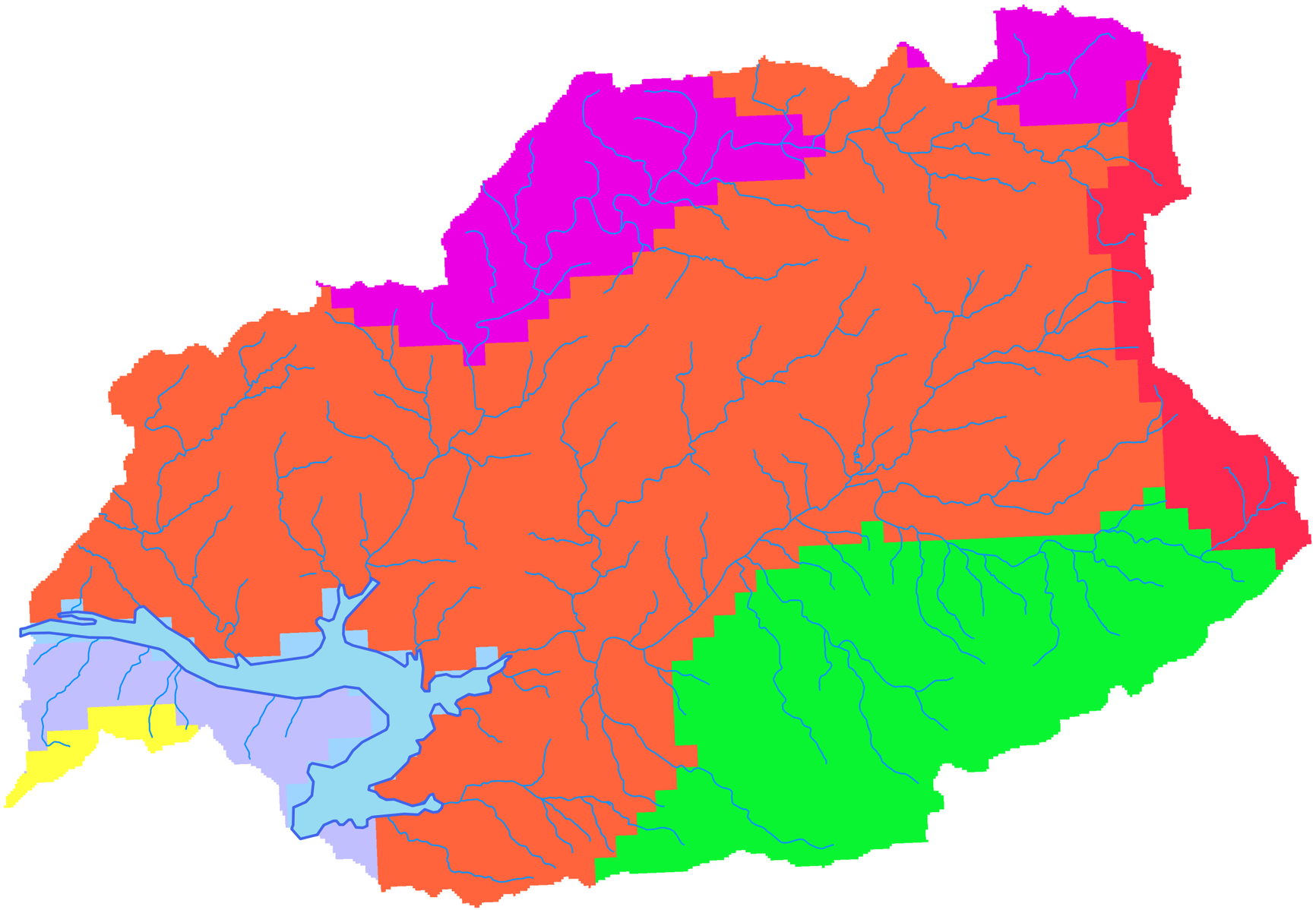

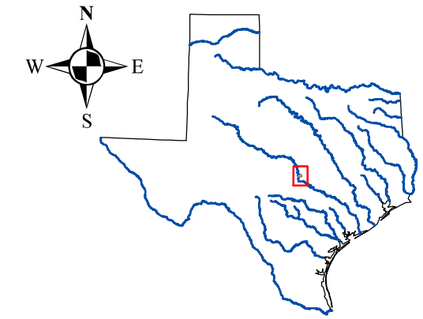

0.6 0.3 0 0.6 Miles

Legend

- Stream
- Inks Lake
- TX071
- TX089
- TX151
- TX227
- TX360
- TX592
- TXW

Figure 3-37.

Inks Lake Watershed
STATSGO Soil Classification

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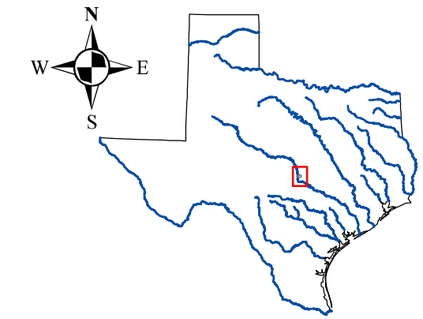

1 0.5 0 1 Miles

Legend

- Forested Wetlands
- Range-Grasses
- Range-Brush
- Evergreen Forest
- Deciduous Forest
- Residential-High Density
- Residential-Medium Density
- Residential-Low Density
- Residential-Open Space
- Water

Figure 3-38.

Inks Lake Watershed
NLCD Land Cover

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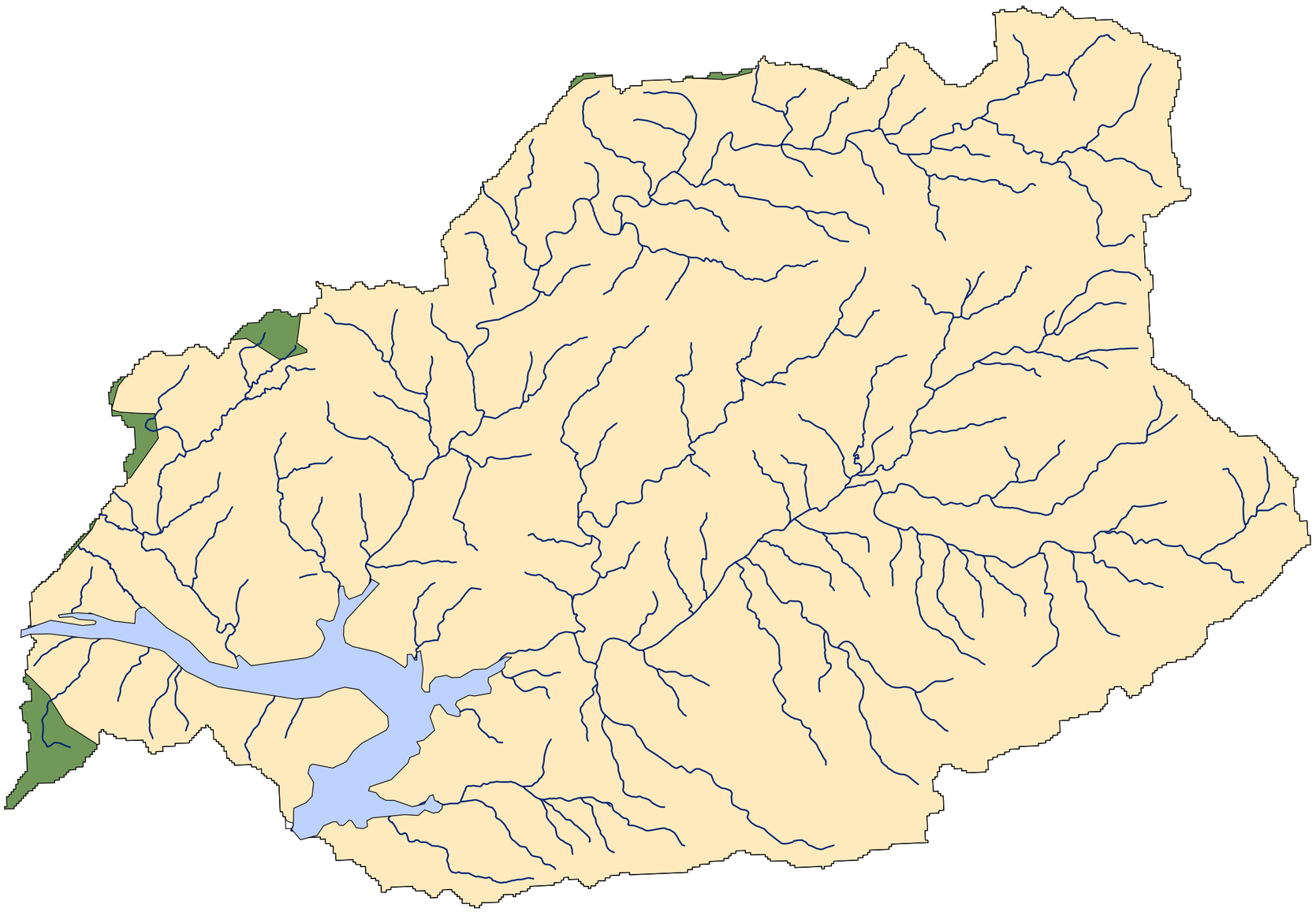

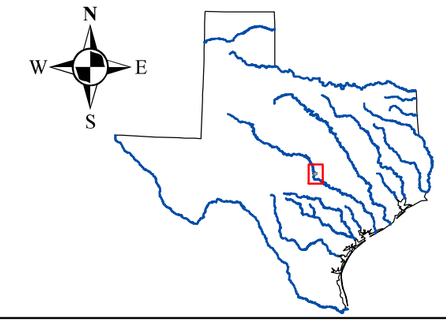

1 0.5 0 1 Miles

Legend

- Inks Lake
- Stream
- Inks Lake Watershed

Highland Lakes Watershed Ordinance

- Region A
- Region C

Figure 3-39.

Inks Lake Watershed within the HLWO

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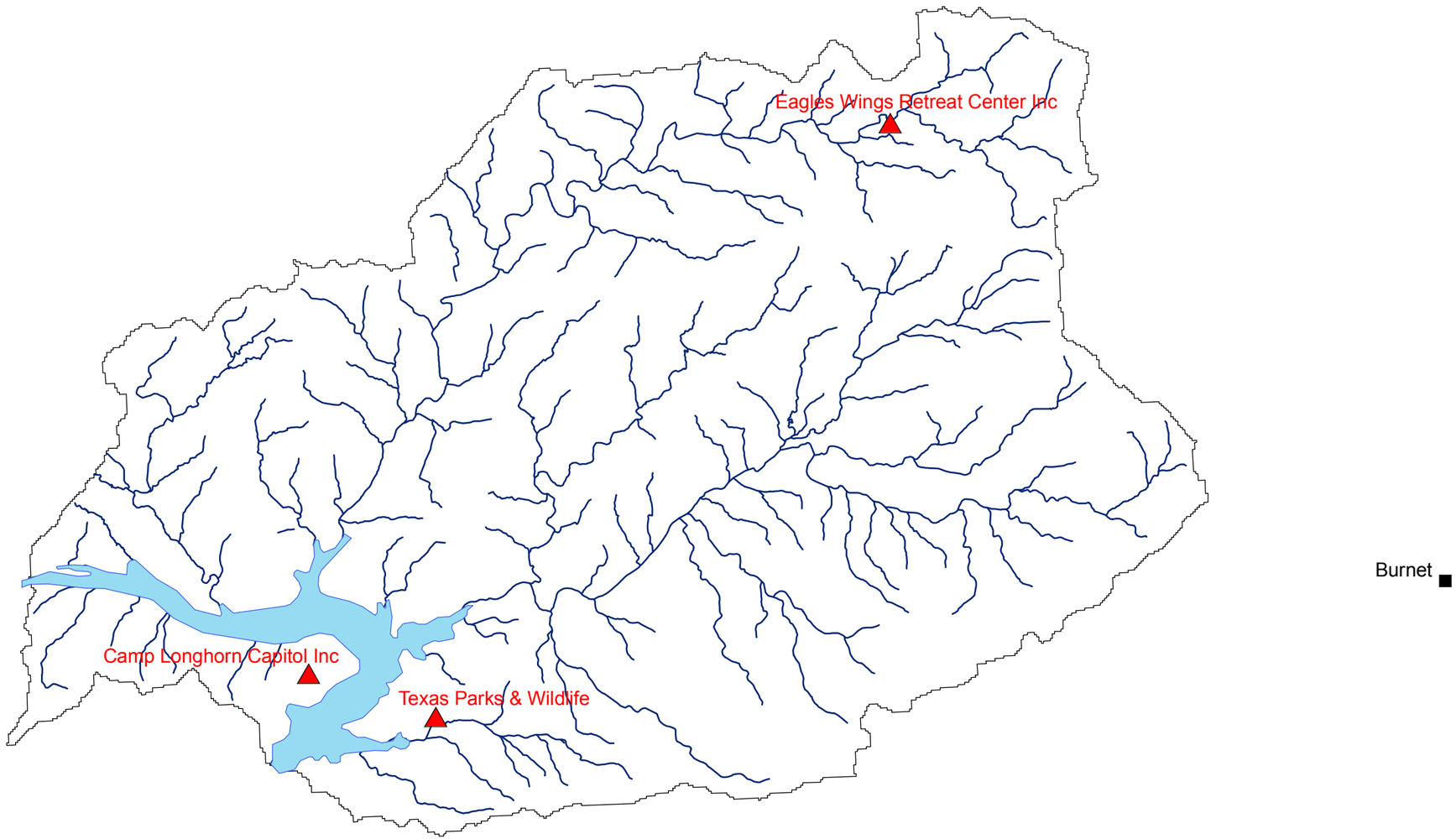

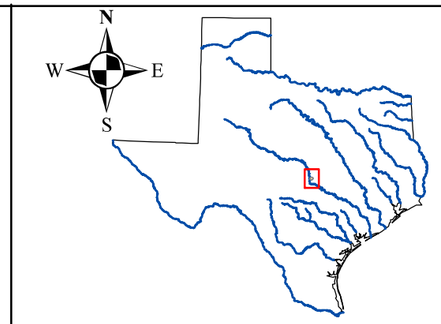

0.8 0.4 0 0.8 Miles

Legend

- Permitted Discharger
- City
- Stream
- Inks Lake
- Inks Lake Watershed

Note: The three permitted dischargers are land application permits.

Figure 3-40.

Inks Lake Watershed
Permitted Dischargers

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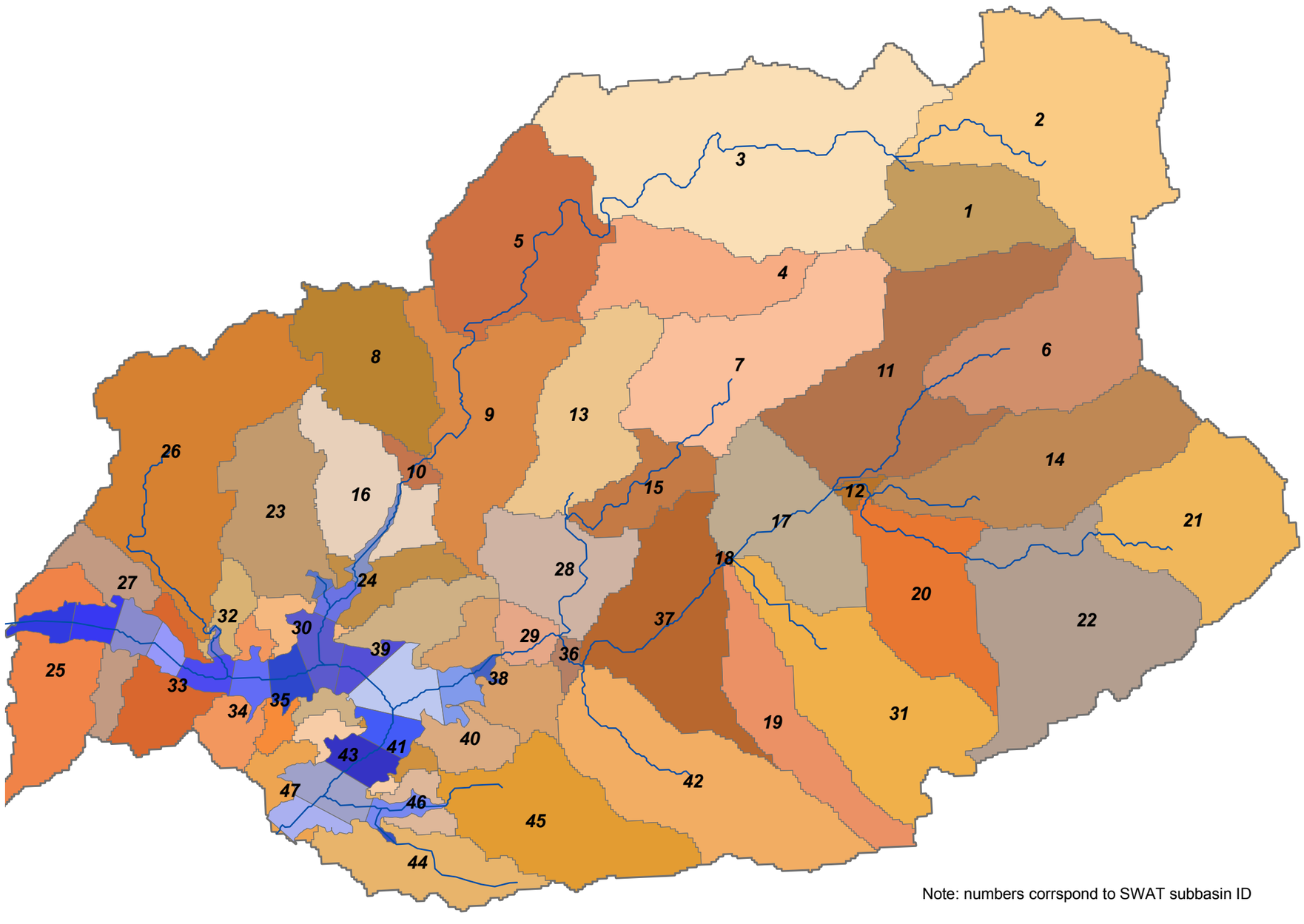

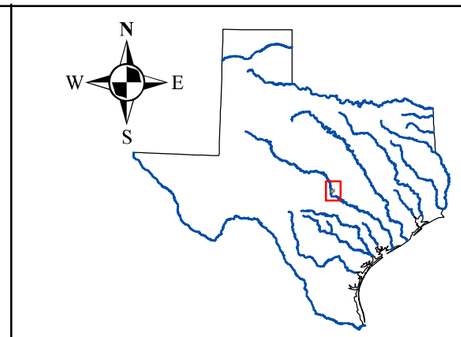

1 0.5 0 1 Miles

Legend

- Surface water
- Lake Model Segment
- SWAT Model Subbasin

Figure 3-41.

Inks Lake Watershed
Model Segmentation

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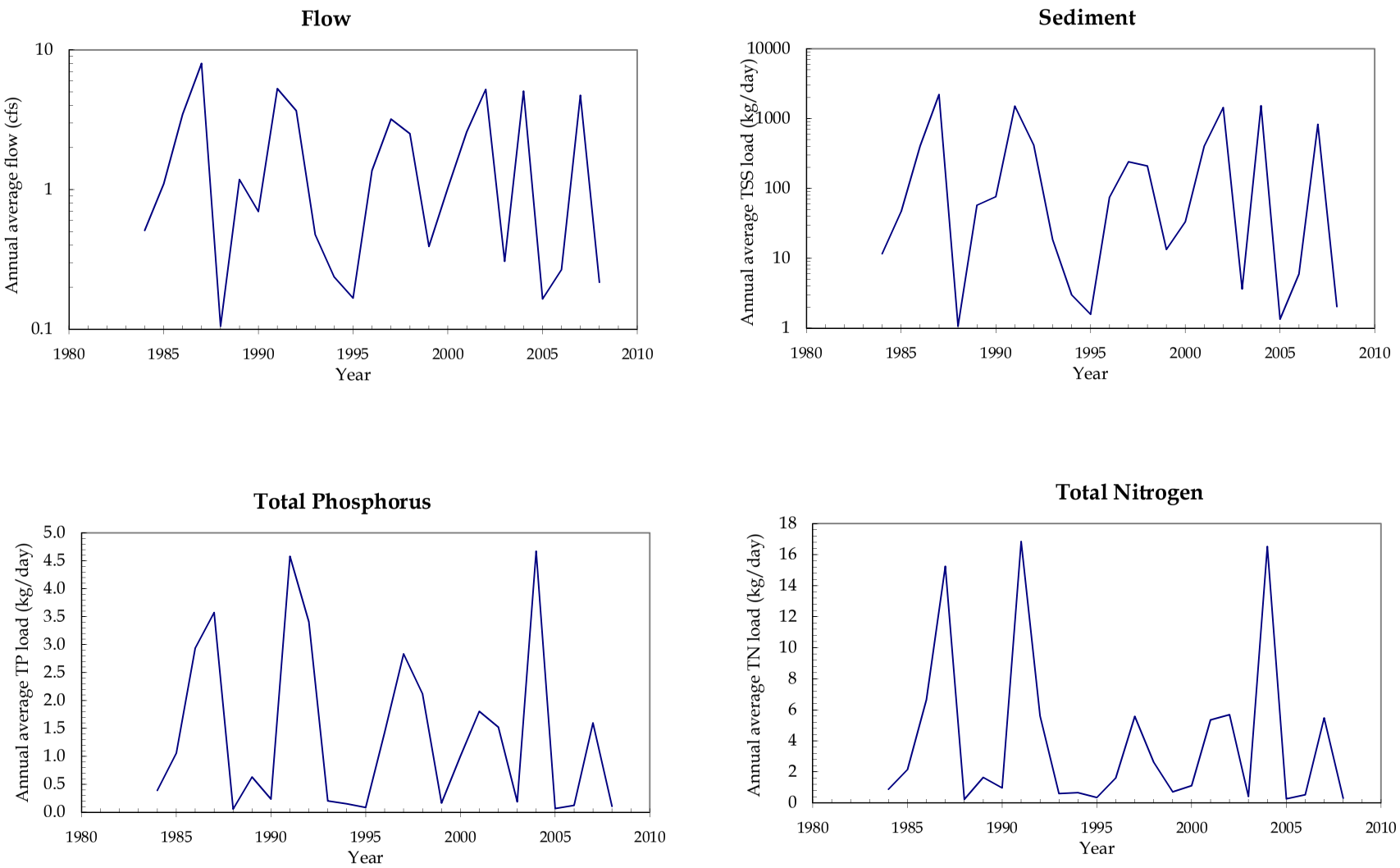

Figure 3-42. Inks Lake SWAT model annual average flows and loads for Spring Creek (Reach 29)

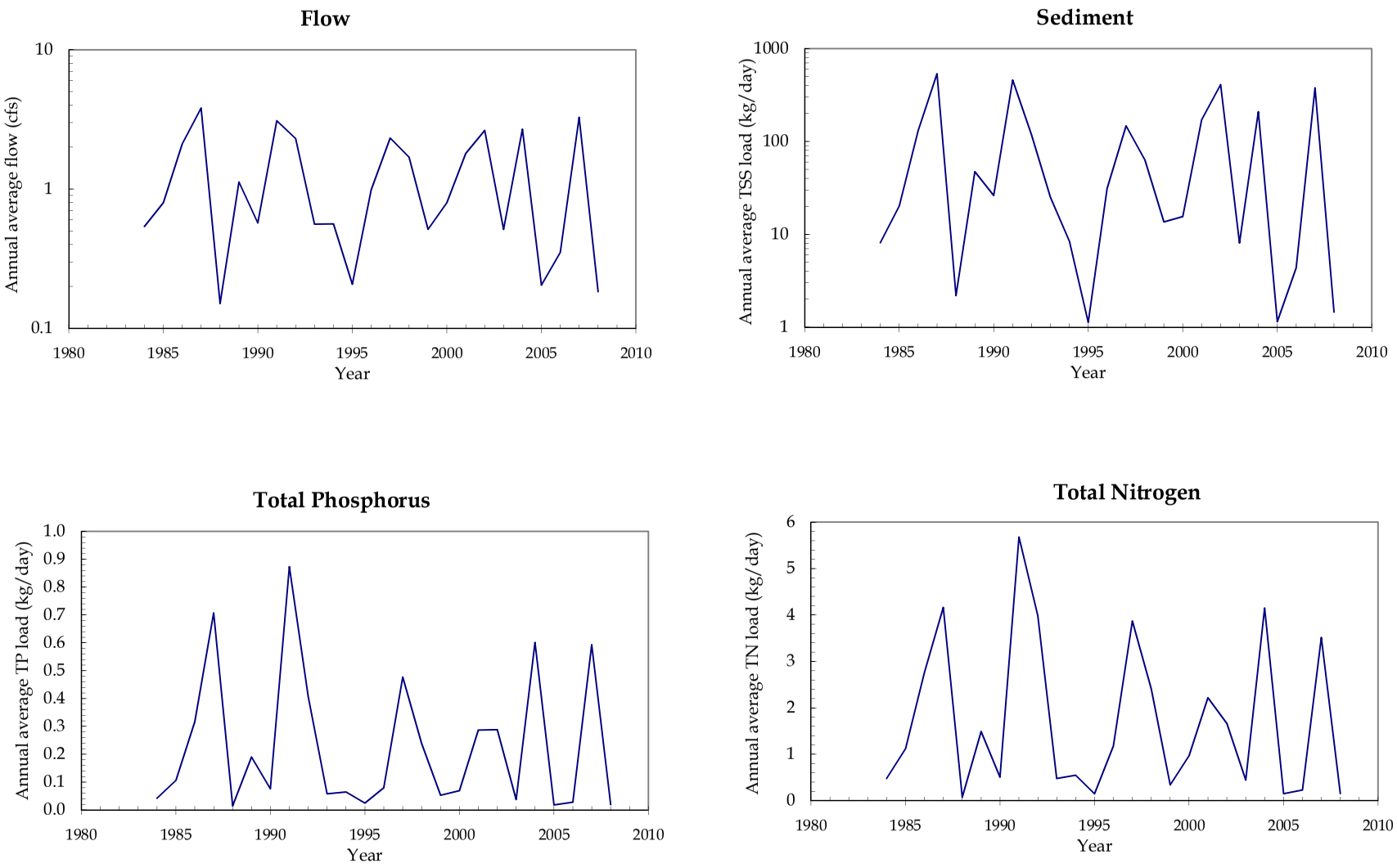

Figure 3-43. Inks Lake SWAT model annual average flows and loads for Clear Creek (Reach 10)