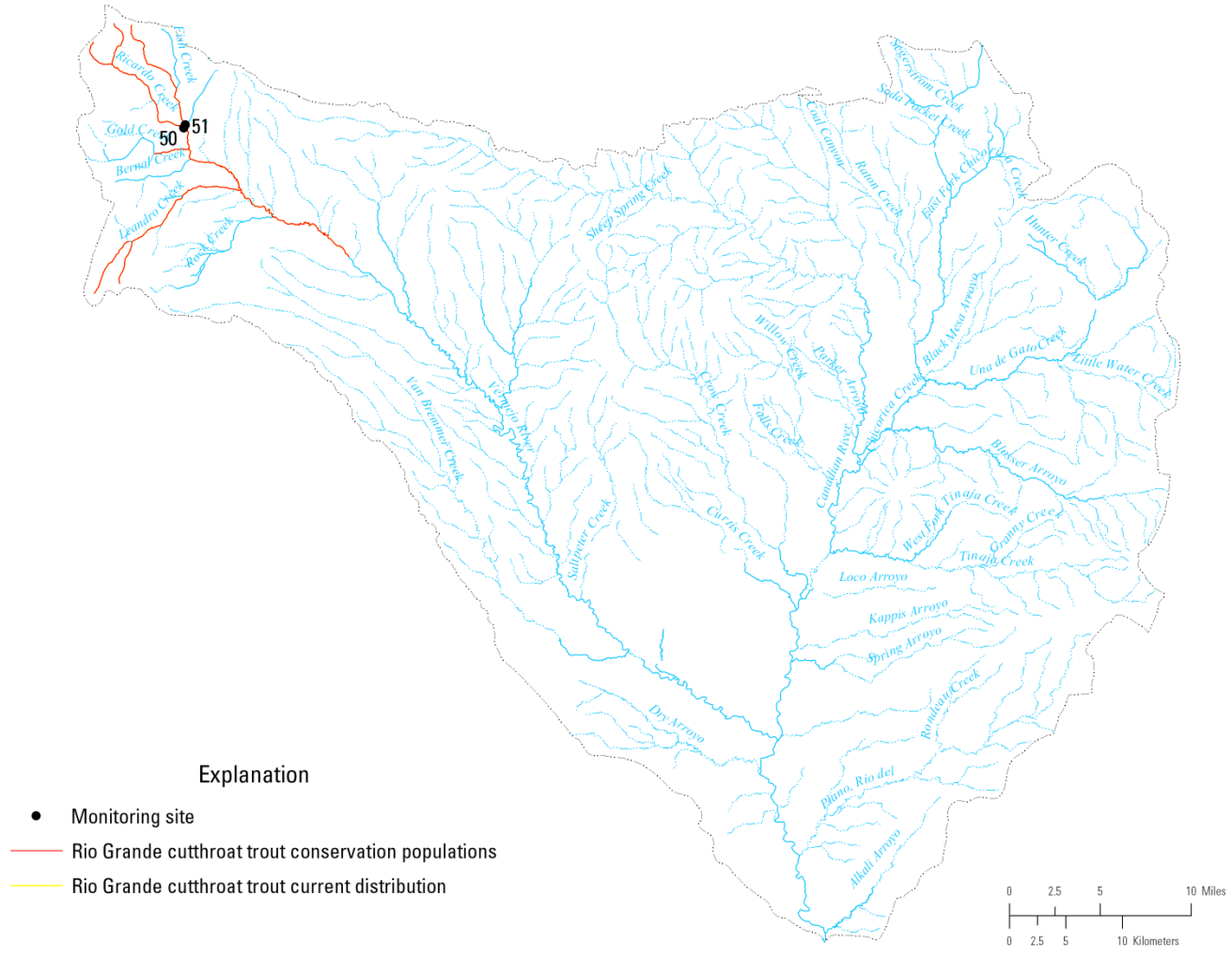
Canadian Headwaters



Ricardo Creek

Site ID: 50
HUC: Canadian Headwaters
Deployed: 6/09/2010
Drainage Area: 4,748 ha
Site Elevation: 2554 m
RGCT Population ID: CAN1-01

Figure 1. Monitoring site on Ricardo Creek.

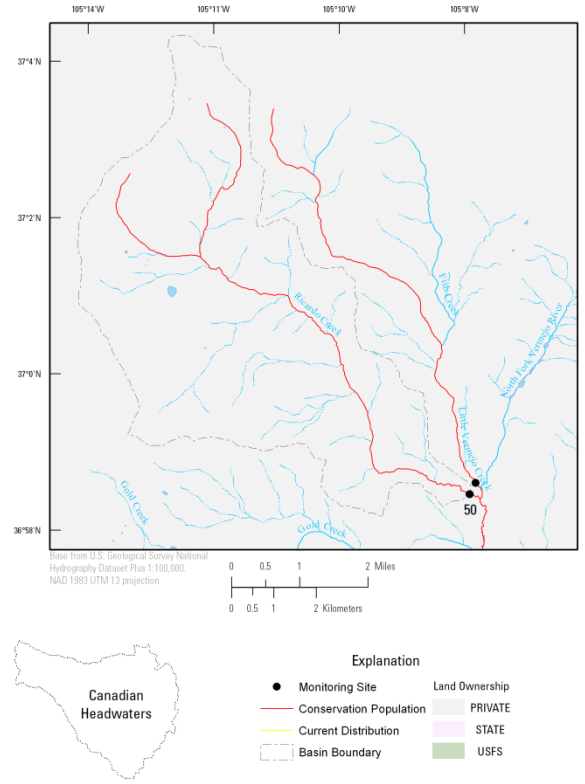


Figure 2. Location of monitoring site on Ricardo Creek.

Population Information

Genetic Status: Unaltered

Non-Natives: Brook trout

Barrier: Unknown

Land Ownership:

USFS: 0.0%

State: 0.0%

Private: 100.0%

Other: 0.0%

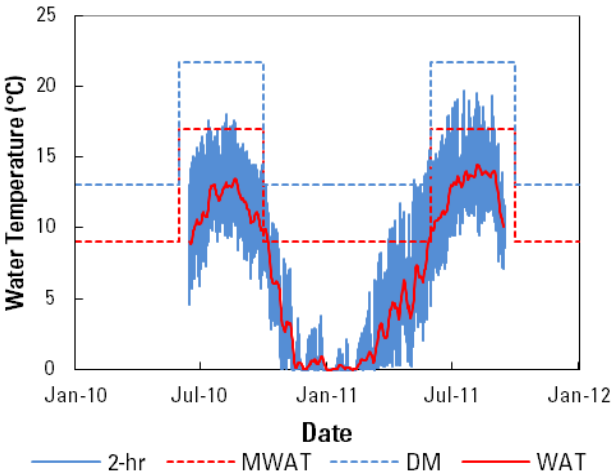


Figure 3. Two hour running mean (blue line) and weekly average temperature (red line) at monitoring site on Ricardo Creek. Dashed lines represent Colorado Tier 1 Cold Water Temperature criteria.

Table 1. Air and stream temperature metrics and discharge in 2010 and 2011.

	Year	2-hr Min (°C)	2-hr Max (°C)	Min WAT (°C)	Max WAT (°C)	Baseflow Discharge (cfs)
Water	2010[a]	-0.03	18.06	-0.02	13.46	2.53[e]
Data	2011[b]	-0.03	19.65	-0.03	14.48	2.36[f]
Air	2010[c]	-16.86	26.48	-4.21	16.88	-----
Data	2011[d]	-33.34	27.16	-11.86	18.43	-----

[a]205 days of data (6/10/2010 – 12/31/2010); [b]269 days of data (1/01/2011 – 9/26/2011); [c]205 days of data (6/10/2010 – 12/31/2010); [d]269 days of data (1/01/2011 – 9/26/2011; [e]measured 9/24/2010 and was precipitation affected; [f]measured 9/27/2011 and was not precipitation affected

Little Vermejo Creek

Site ID: 51
HUC: Canadian Headwaters
Deployed: 6/09/2010
Drainage Area: 2,972 ha
Site Elevation: 2559
RGCT Population ID: CAN1-02

Figure 1. Monitoring site on Little Vermejo Creek.

Population Information

Genetic Status: Unaltered

Non-Natives: Brook trout

Barrier: Complete barrier present

Land Ownership:

USFS: 0.0%

State: 0.0%

Private: 100%

Other: 0.0%

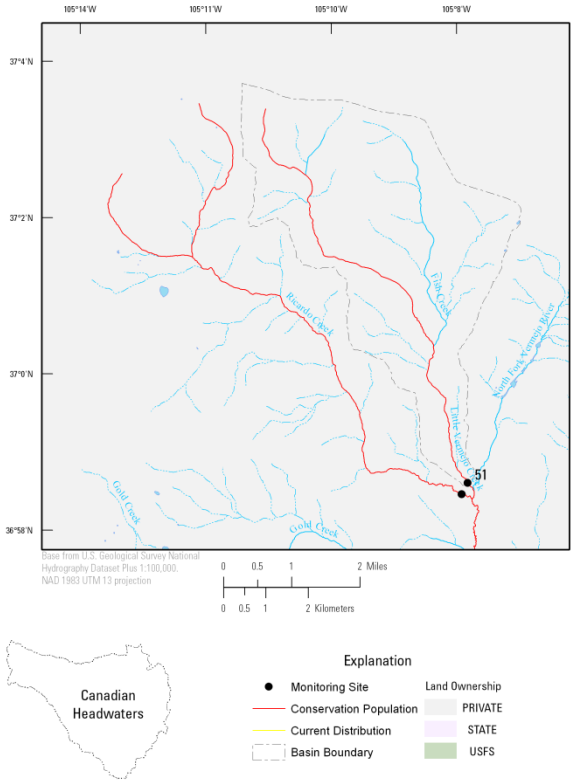


Figure 2. Location of monitoring site on Little Vermejo Creek.

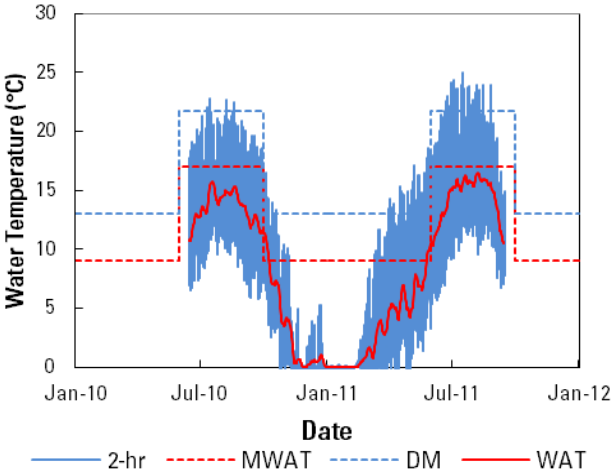


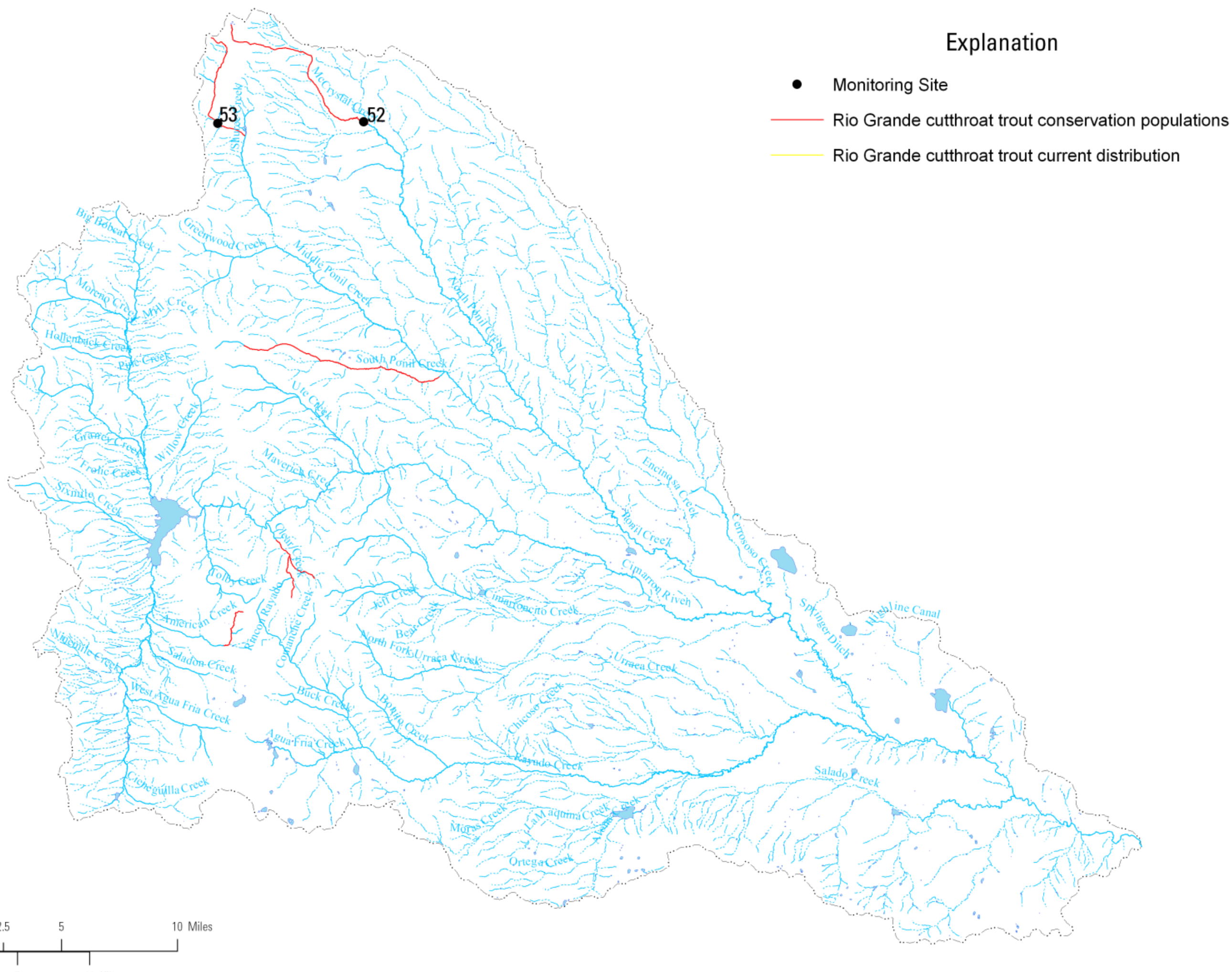
Figure 3. Two hour running mean (blue line) and weekly average temperature (red line) at monitoring site on Little Vermejo Creek. Dashed lines represent Colorado Tier 1 Cold Water Temperature criteria.

Table 1. Air and stream temperature metrics and discharge in 2010 and 2011.

	Year	2-hr Min (°C)	2-hr Max (°C)	Min WAT (°C)	Max WAT (°C)	Baseflow Discharge (cfs)
Water	2010[a]	-0.07	22.82	-0.01	15.77	0.23[e]
Data	2011[b]	-0.07	24.94	-0.03	16.51	0.83[f]
Air	2010[c]	-16.72	26.78	-3.33	17.95	-----
Data	2011[d]	-30.65	27.71	-11.42	19.64	-----

[a]205 days of data (6/10/2010 – 12/31/2010); [b]269 days of data (1/01/2011 – 9/26/2011); [c]205 days of data (6/10/2010 – 12/31/2010); [d]269 days of data (1/01/2011 – 9/26/2011; [e]measured 9/24/2010 and was precipitation affected; [f]measured 9/27/2011 and was not precipitation affected

Cimarron


Explanation
Monitoring Site
Rio Grande cutthroat trout conservation populations
Rio Grande cutthroat trout current distribution
52
53
McCrystal Creek
Big Bobcat Creek
Greenwood Creek
Middle Ponil Creek
North Ponil Creek
Moreno Creek
Mill Creek
Hollenback Creek
Pine Creek
South Ponil Creek
Ute Creek
Willow Creek
Graney Creek
Frolic Creek
Maverick Creek
Encinosa Creek
Sixmile Creek
Ponil Creek
Cerrososo Creek
Cimarron River
Tolby Creek
Jeff Creek
Cimarroncito Creek
American Creek
Bear Creek
Springer Ditch
Highline Canal
North Fork Urraca Creek
Urraca Creek
Saladon Creek
West Agua Fria Creek
Buck Creek
Bonita Creek
Chicoso Creek
Agua Fria Creek
Rayado Creek
Salado Creek
Cieneguilla Creek
Moras Creek
Ortega Creek
0
2.5
5
10 Miles
0
2.5
5
10 Kilometers

McCrystal Creek

Site ID: 52
HUC: Cimarron
Deployed: 5/24/2010
Drainage Area: 2,726 ha
Site Elevation: 2440 m
RGCT Population ID: CAN2-01

Figure 1. Monitoring site on McCrystal Creek.

Population Information

Genetic Status: Unaltered

Non-Natives: None present

Barrier: Complete barrier present further downstream

Land Ownership:

USFS: 53.4%

State: 0.0%

Private: 46.6%

Other: 0.0%

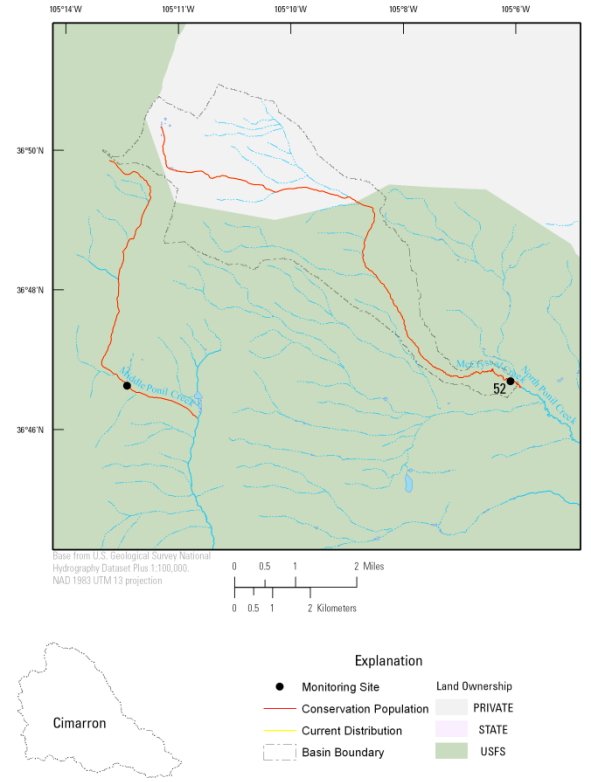


Figure 2. Location of monitoring site on McCrystal Creek.

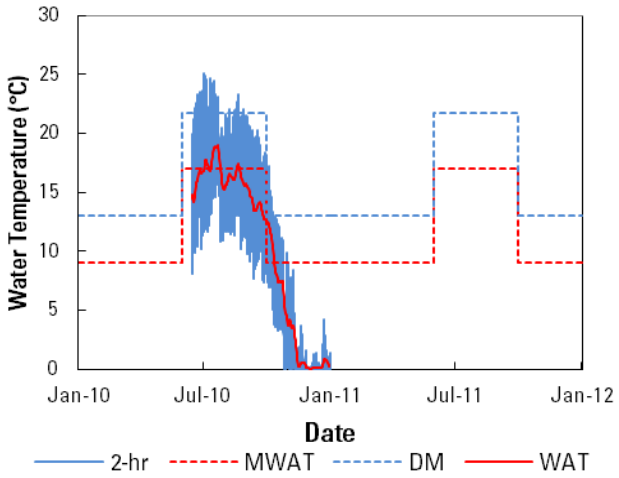


Figure 3. Two hour running mean (blue line) and weekly average temperature (red line) at monitoring site on McCrystal Creek. Dashed lines represent Colorado Tier 1 Cold Water Temperature criteria.

Table 1. Air and stream temperature metrics and discharge in 2010 and 2011.

	Year	2-hr Min (°C)	2-hr Max (°C)	Min WAT (°C)	Max WAT (°C)	Baseflow Discharge (cfs)
Water	2010[a]	-0.02	25.07	0.06	19.01	0.22[e]
Data	2011[b]	Exposed	Exposed	Exposed	Exposed	0.34[f]
Air	2010[c]	-19.98	29.62	-3.45	19.33	-----
Data	2011[d]	-37.25	30.57	-11.81	20.62	-----

[a]220 days of data (5/24/2010 – 12/31/2010); [b]data logger exposed during 2011 and no data is presented; [c]220 days of data (5/24/2010 – 12/31/2010); [d]265 days of data (1/01/2011 – 9/22/2011; [e]measured 9/16/2010 and was not precipitation affected; [f]measured 9/23/2011 and was not precipitation affected

Middle Ponil Creek

Site ID: 53
HUC: Cimarron
Deployed: 9/15/2010
Drainage Area: 1,276 ha
Site Elevation: 2915
RGCT Population ID: CAN2-03

Figure 1. Monitoring site on Middle Ponil Creek.

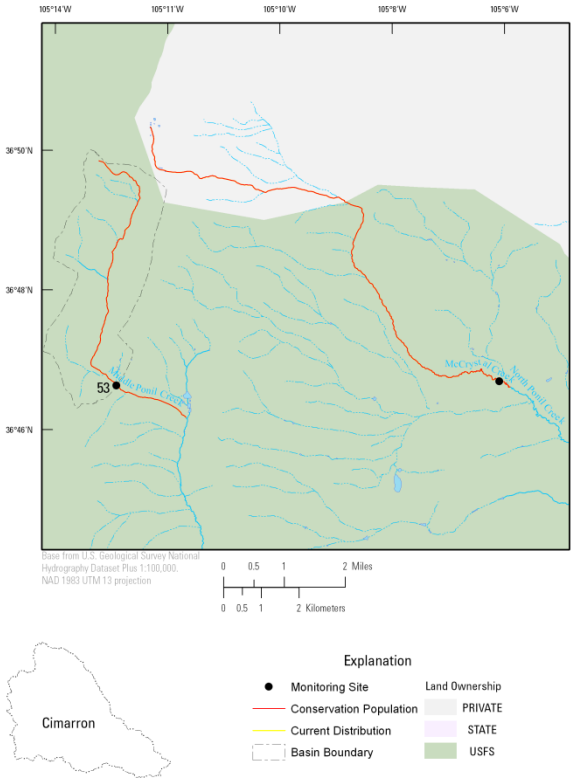


Figure 2. Location of monitoring site on Middle Ponil Creek.

Population Information

Genetic Status: > 10% and ≤ 20%

Non-Natives: None present

Barrier: Complete barrier present

Land Ownership:

USFS: 98.0%

State: 0.0%

Private: 2.0%

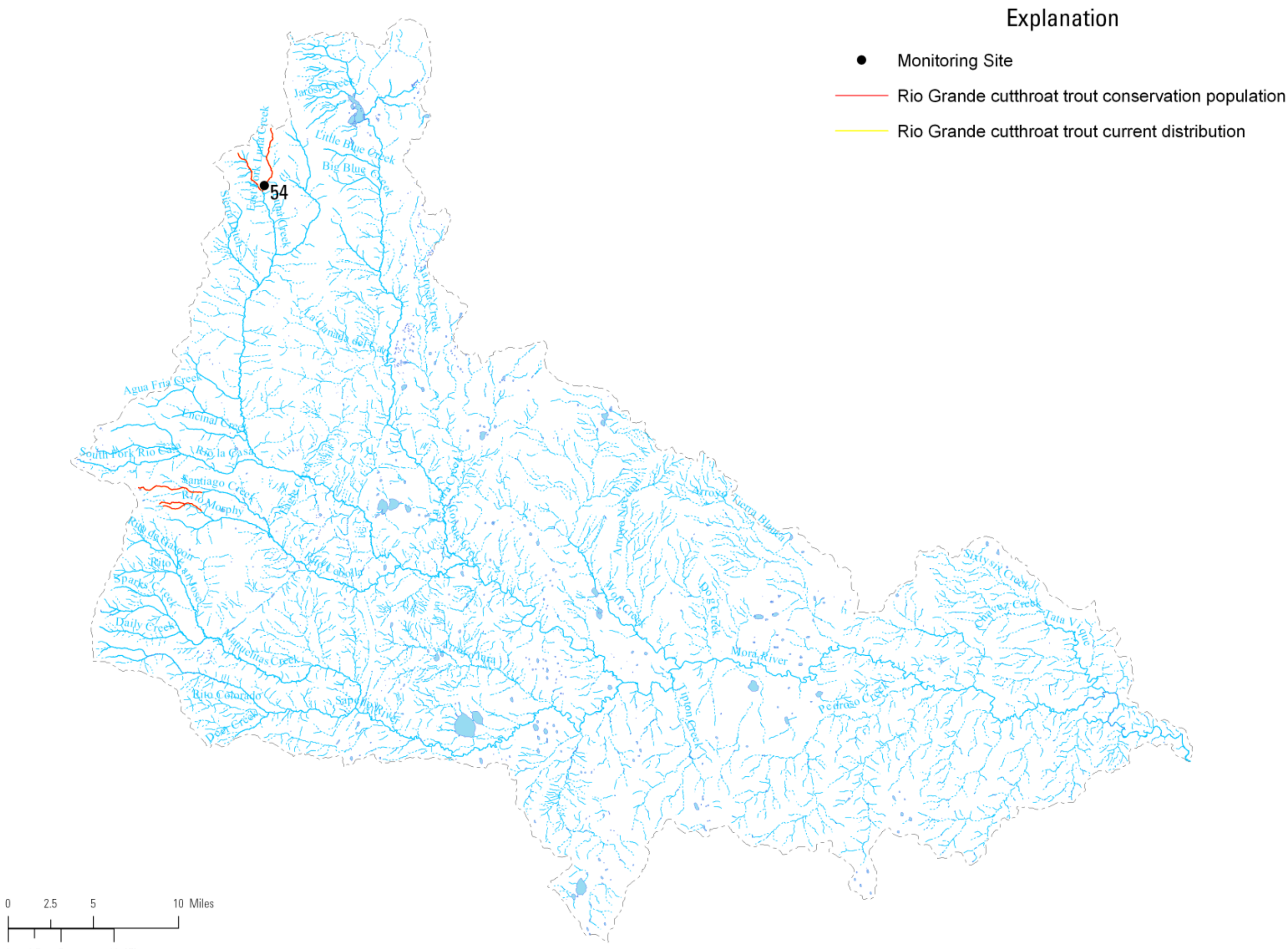
Other: 0.0%

Table 1. Air and stream temperature metrics and discharge in 2010 and 2011.

	Year	2-hr Min (°C)	2-hr Max (°C)	Min WAT (°C)	Max WAT (°C)	Baseflow Discharge (cfs)
Water	2010[a]	NA	NA	NA	NA	NA[e]
Data	2011[b]	Lost	Lost	Lost	Lost	0.15[f]
Air	2010[c]	NA	NA	NA	NA	-----
Data	2011[d]	-31.77	29.30	-13.89	17.87	-----

[a]no data collected in 2010; [b]no data collected in 2011; [c]no data collected in 2010; [d]no data collected in 2011; [e]no summer baseflow measured in 2010; [f]measured 9/23/2011 and was not precipitation affected

Mora


Explanation
Monitoring Site
Rio Grande cutthroat trout conservation population
Rio Grande cutthroat trout current distribution
54
Little Blue Creek
Big Blue Creek
Agua Fria Creek
South Fork Rio Casa
Santiago Creek
Rito Murphy
Sparks Creek
Daily Creek
Manuelitas Creek
Rio Colorado
Mora River
Pendaries Creek
Sixty-six Creek
0 2.5 5 10 Miles
0 2.5 5 10 Kilometers

East Fork Luna Creek

Site ID: 54
HUC: Mora
Deployed: 9/26/2011
Drainage Area: 1,279 ha
Site Elevation: 2713 m
RGCT Population ID: CAN4-01

Figure 1. Monitoring site on East Fork Luna Creek.

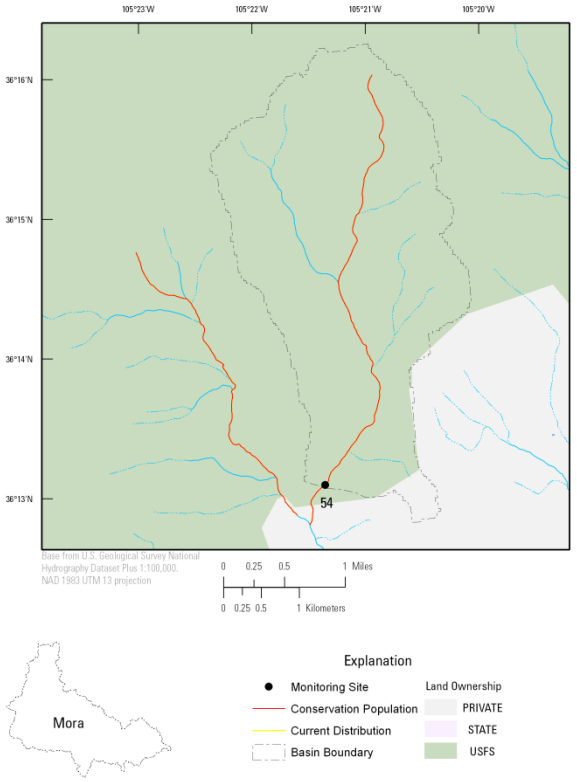


Figure 2. Location of monitoring site on East Fork Luna Creek.

Population Information

Genetic Status: > 1% and ≤ 10%

Non-Natives: Brown trout present

Barrier: Partial barrier present

Land Ownership:

USFS: 97.8%

State: 0.0%

Private: 2.2%

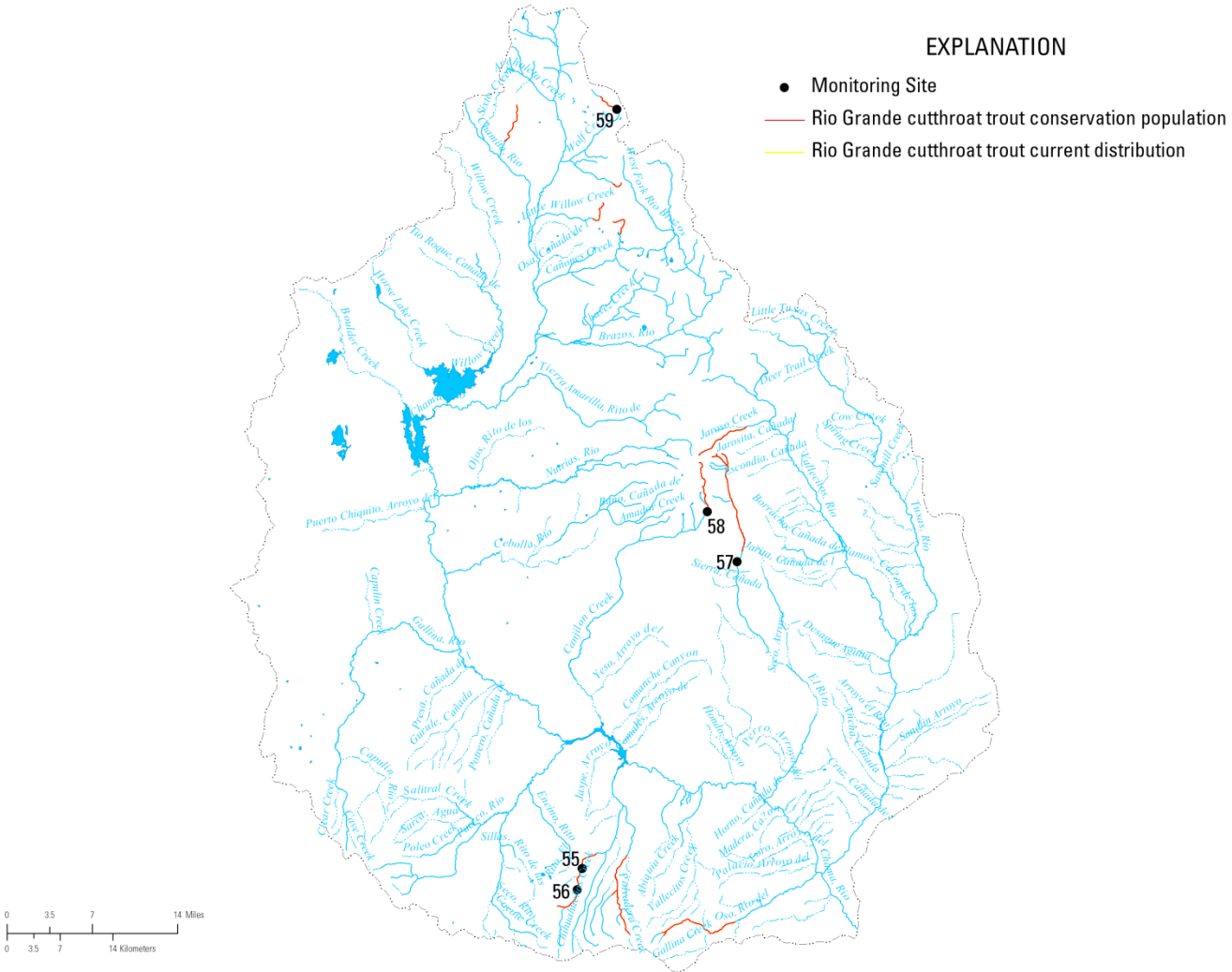
Other: 0.0%

Table 1. Air and stream temperature metrics and discharge in 2010 and 2011.

	Year	2-hr Min (°C)	2-hr Max (°C)	Min Wat (°C)	Max Wat (°C)	Baseflow Discharge (cfs)
Water	2010[a]	NA	NA	NA	NA	NA[e]
Data	2011[b]	NA	NA	NA	NA	0.06[f]
Air	2010[c]	NA	NA	NA	NA	-----
Data	2011[d]	NA	NA	NA	NA	-----

[a]no data collected in 2010; [b]no data collected in 2011; [c]no data collected in 2010; [d]no data collected in 2011; [e]no summer baseflow measured in 2010; [f]measured 9/26/2011 and was not precipitation affected

Rio Chama


EXPLANATION
Monitoring Site
Rio Grande cutthroat trout conservation population
Rio Grande cutthroat trout current distribution
59
58
57
55
56
0 3.5 7 14 Miles
0 3.5 7 14 Kilometers

Canones Creek

Site ID: 55
HUC: Rio Chama
Deployed: 6/03/2010
Drainage Area: 4,325 ha
Site Elevation: 2473 m
RGCT Population ID: LRG2-08

Figure 1. Lower monitoring site on Canones Creek.

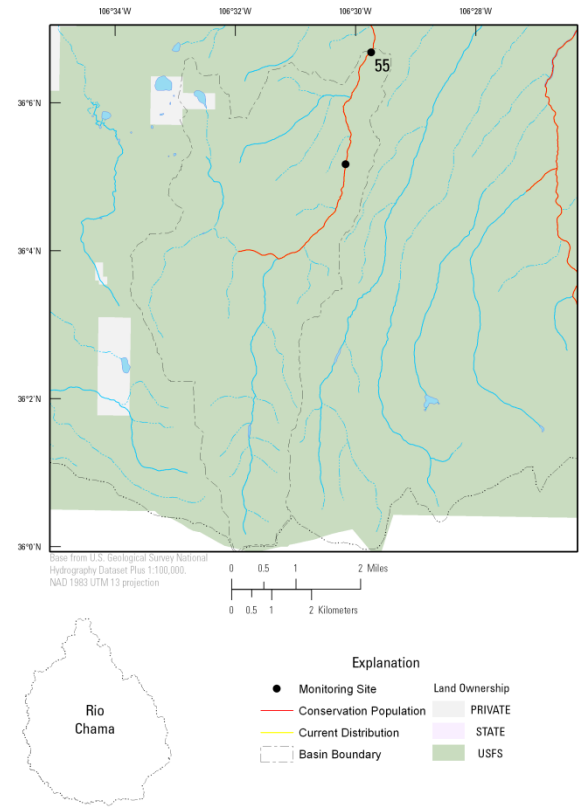


Figure 2. Location of lower monitoring site on Canones Creek.

Population Information

Genetic Status: Unaltered

Non-Natives: None present

Barrier: Complete barrier present

Land Ownership

USFS: 99.1%

State: 0.0%

Private: 0.9%

Other: 0.0%

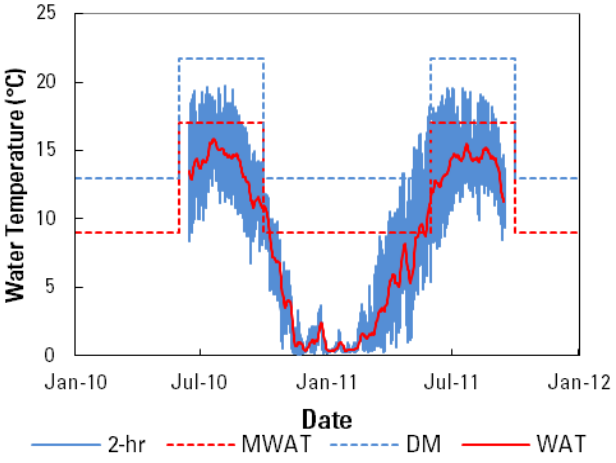


Figure 3. Two hour running mean (blue line) and weekly average temperature (red line) at lower monitoring site on Canones Creek. Dashed lines represent Colorado Tier 1 Cold Water Temperature criteria.

Table 1. Air and stream temperature metrics and discharge in 2010 and 2011.

	Year	2-hr Min (°C)	2-hr Max (°C)	Min WAT (°C)	Max WAT (°C)	Baseflow Discharge (cfs)
Water	2010[a]	0.12	19.75	0.38	15.82	0.49[e]
Data	2011[b]	0.20	19.56	0.33	15.46	0.88[f]
Air	2010[c]	NA	29.50	NA	17.85	-----
Data	2011[d]	Lost	Lost	Lost	Lost	-----

[a]211 days of data (6/04/2010 – 12/31/2010); [b]270 days of data (1/01/2011 – 9/27/2011); [c]108 days of data (6/04/2010 – 9/19/2010); [d]data logger was lost in 2011 and no data is presented; [e]measured 9/20/2010 and was not precipitation affected; [f]measured 9/28/2011 and was not precipitation affected

Canones Creek

Site ID: 56
HUC: Rio Chama
Deployed: 9/23/2010
Drainage Area: 3,338 ha
Site Elevation: 2555 m
RGCT Population ID: LRG2-08

Figure 1. Upper monitoring site on Canones Creek.

Population Information

Genetic Status: Unaltered

Non-Natives: None present

Barrier: Complete barrier present

Land Ownership

USFS: 99.6%

State: 0.0%

Private: 0.4%

Other: 0.0%

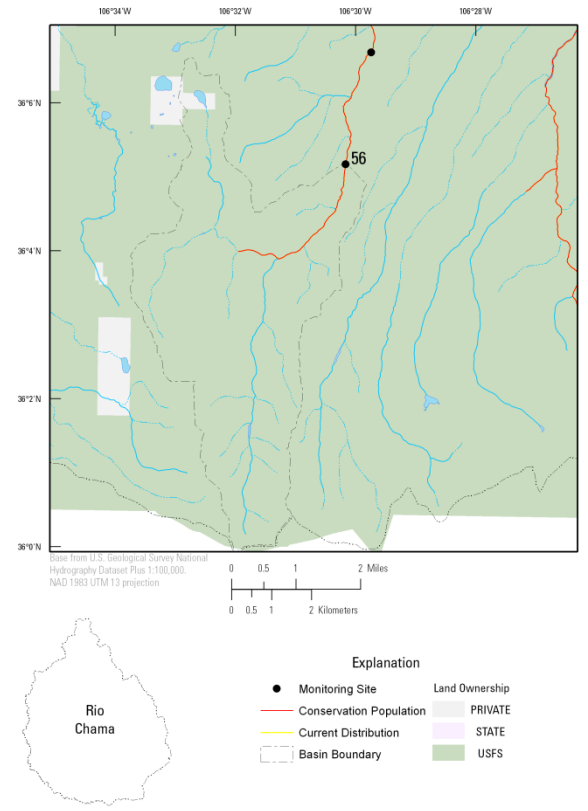


Figure 2. Location of upper monitoring site on Canones Creek.

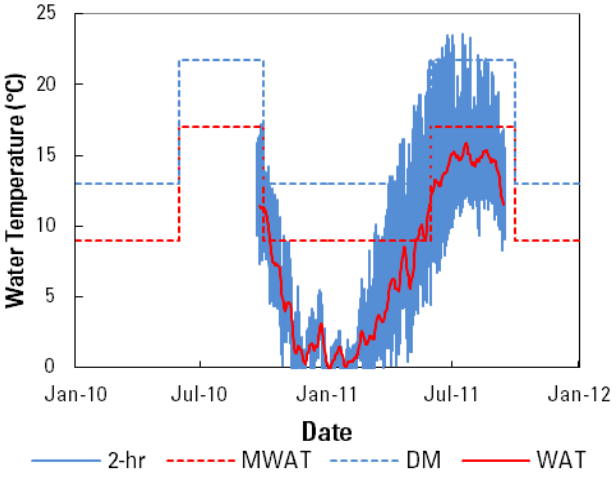


Figure 3. Two hour running mean (blue line) and weekly average temperature (red line) at upper monitoring site on Canones Creek. Dashed lines represent Colorado Tier 1 Cold Water Temperature criteria.

Table 1. Air and stream temperature metrics and discharge in 2010 and 2011.

	Year	2-hr Min (°C)	2-hr Max (°C)	Min WAT (°C)	Max WAT (°C)	Baseflow Discharge (cfs)
Water	2010[a]	NA	NA	NA	NA	0.50[e]
Data	2011[b]	-0.05	23.53	-0.03	15.89	0.75[f]
Air	2010[c]	-19.63	31.28	-8.03	18.60	-----
Data	2011[d]	-27.71	32.54	-12.15	18.29	-----

[a]103 days of data (9/23/2010 – 12/31/2010); [b]270 days of data (1/01/2011 – 9/27/2011); [c]211 days of data (6/04/2010 – 12/31/2010); [d]270 days of data (1/01/2011 – 9/27/2011); [e]measured 9/20/2010 and was not precipitation affected; [f]measured 9/28/2011 and was not precipitation affected

El Rito Creek

Site ID: 57
HUC: Rio Chama
Deployed: 5/31/2010
Drainage Area: 6,477 ha
Site Elevation: 2576 m
RGCT Population ID: LRG2-07

Figure 1. Monitoring site on El Rito Creek.

Population Information

Genetic Status: Suspected Hybridized
Non-Natives: Rainbow trout
Barrier: None present

Land Ownership

USFS: 98.2%
State: 0.0%
Private: 1.8%
Other: 0.0%

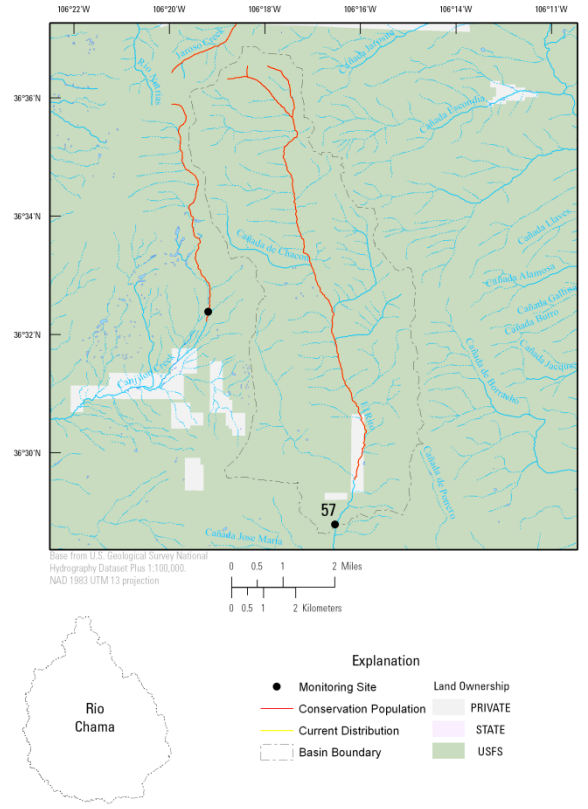


Figure 2. Location of monitoring site on El Rito Creek.

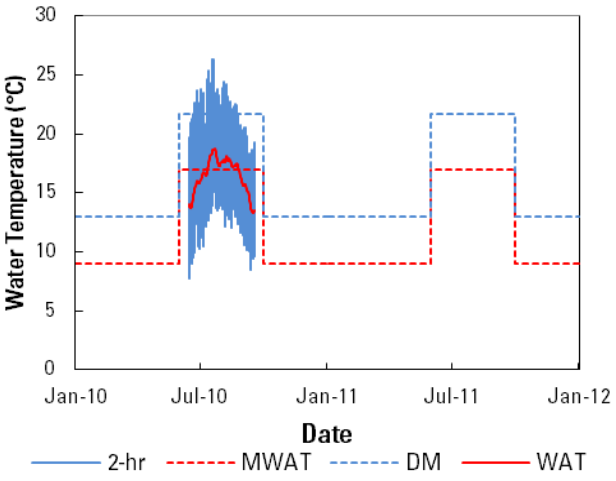


Figure 3. Two hour running mean (blue line) and weekly average temperature (red line) at monitoring site on El Rito Creek. Dashed lines represent Colorado Tier 1 Cold Water Temperature criteria.

Table 1. Air and stream temperature metrics and discharge in 2010 and 2011.

	Year	2-hr Min (°C)	2-hr Max (°C)	Min WAT (°C)	Max WAT (°C)	Baseflow Discharge (cfs)
Water	2010[a]	NA	26.33	NA	18.74	0.86[e]
Data	2011[b]	Lost	Lost	Lost	Lost	1.74[f]
Air	2010[c]	-21.42	31.55	-8.12	18.34	-----
Data	2011[d]	-34.47	30.18	-13.37	18.47	-----

[a]107 days of data (6/04/2010 – 9/18/2010); [b]data logger lost in 2011 and no data is presented; [c]211 days of data (6/04/2010 – 12/31/2010); [d]266 days of data (1/01/2011 – 9/23/2011); [e]measured 9/19/2010 and was not precipitation affected; [f]measured 9/24/2011 and was not precipitation affected

Canjilon Creek

Site ID: 58
HUC: Rio Chama
Deployed: 5/31/2010
Drainage Area: 1,247 ha
Site Elevation: 2831 m
RGCT Population ID: LRG2-05

Figure 1. Monitoring site on Canjilon Creek.

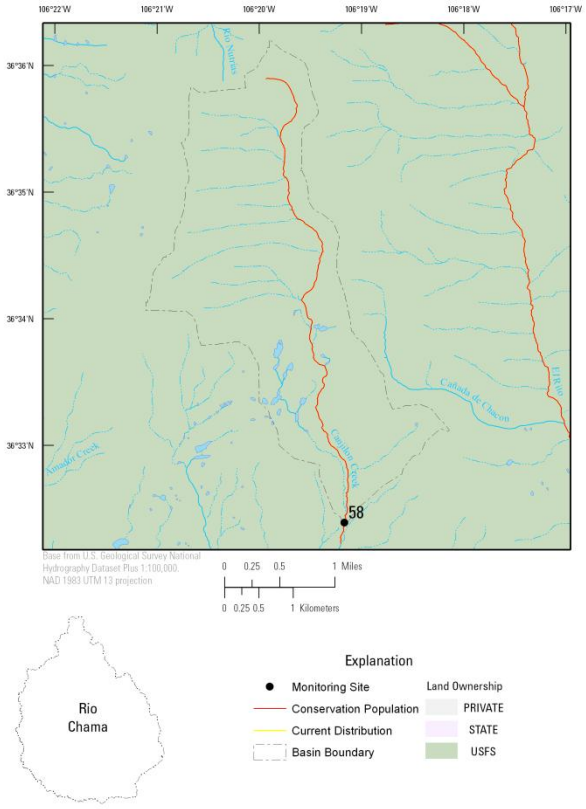


Figure 2. Location of monitoring site on Canjilon Creek.

Population Information

Genetic Status: > 1% and ≤ 10%

Non-Natives: None present

Barrier: No barrier present

Land Ownership

USFS: 100.0%

State: 0.0%

Private: 0.0%

Other: 0.0%

Table 1. Air and stream temperature metrics and discharge in 2010 and 2011.

	Year	2-hr Min (°C)	2-hr Max (°C)	Min WAT (°C)	Max WAT (°C)	Baseflow Discharge (cfs)
Water	2010[a]	Lost	Lost	Lost	Lost	0.24[e]
Data	2011[b]	Lost	Lost	Lost	Lost	0.56[f]
Air	2010[c]	-24.95	28.57	-9.38	16.84	-----
Data	2011[d]	-34.10	29.12	-13.87	16.12	-----

[a]data logger lost in 2010 and no data is presented; [b]data logger lost in 2011 and no data is presented; [c]211 days of data (6/04/2010– 12/31/2010); [d]267 days of data (1/01/2011 – 9/24/2011); [e]measured 9/19/2010 and was not precipitation affected; [f]measured 9/25/2011 and was not precipitation affected

Wolf Creek

Site ID: 59
HUC: Rio Chama
Deployed: 10/07/2011
Drainage Area: 1,071 ha
Site Elevation: 2940 m
RGCT Population ID: LRG2-11

Figure 1. Monitoring site on Wolf Creek.

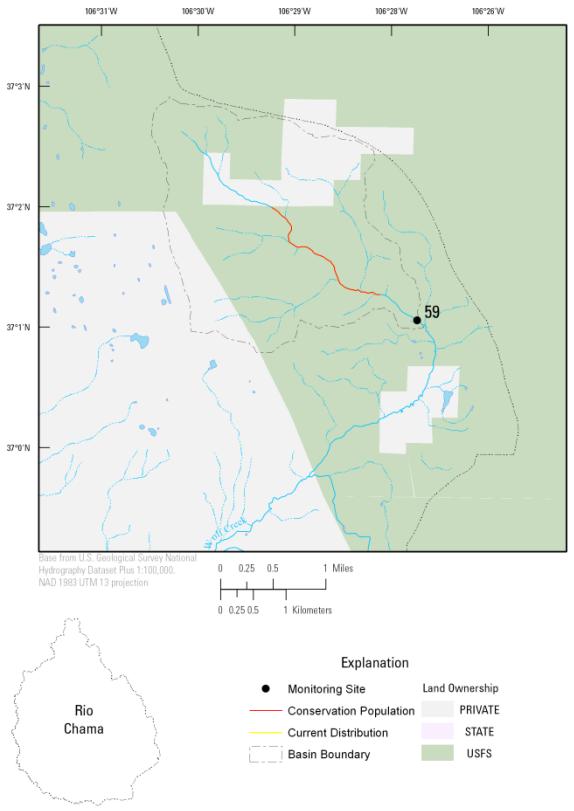


Figure 2. Location of monitoring site on Wolf Creek.

Population Information

Genetic Status: Unaltered

Non-Natives: Brown trout

Barrier: Complete barrier present

Land Ownership

USFS: 73.1%

State: 0.0%

Private: 26.9%

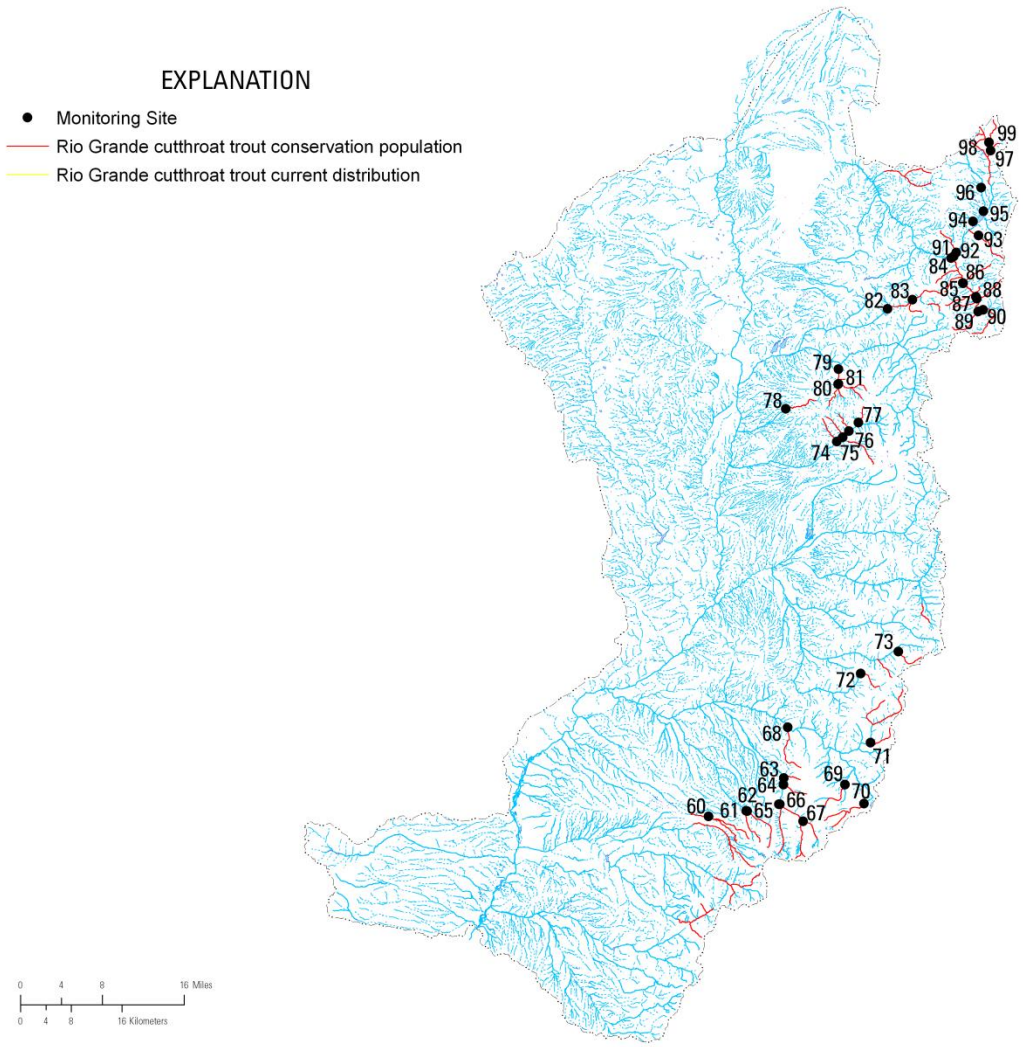
Other: 0.0%

Table 1. Air and stream temperature metrics and discharge in 2010 and 2011.

	Year	2-hr Min (°C)	2-hr Max (°C)	Min WAT (°C)	Max WAT (°C)	Baseflow Discharge (cfs)
Water Data	2010[a]	NA	NA	NA	NA	NA[e]
	2011[b]	NA	NA	NA	NA	0.74[f]
Air Data	2010[c]	NA	NA	NA	NA	-----
	2011[d]	NA	NA	NA	NA	-----

[a]no data collected in 2010; [b]no data collected in 2011; [c]no data collected in 2010; [d]no data collected in 2011; [e]no summer baseflow measured in 2010; [f]measured 10/07/2011 and was precipitation affected

Upper Rio Grande



Rio de Truchas

Site ID: 60
HUC: Upper Rio Grande
Deployed: 9/19/2011
Drainage Area: 1,198 ha
Site Elevation: 2610 m
RGCT Population ID: LRG1-32

Figure 1. Monitoring site on Rio de Truchas.

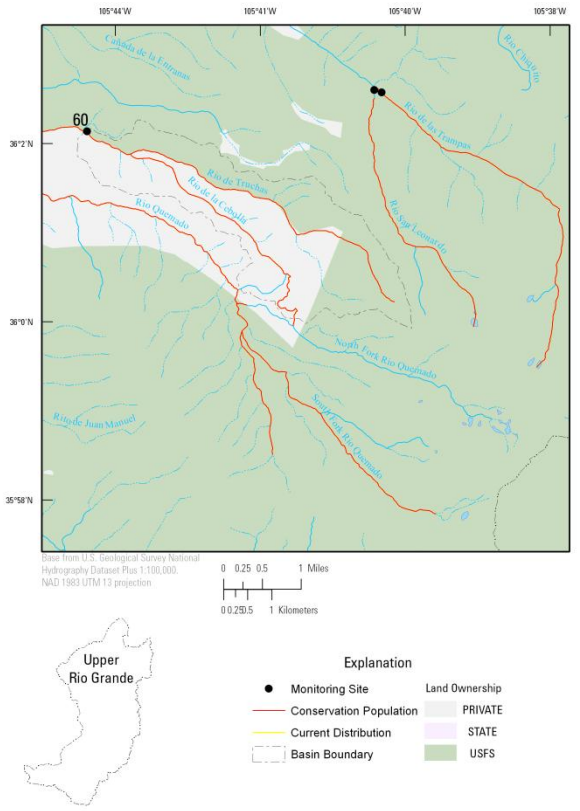


Figure 2. Location of monitoring site on Rio de Truchas.

Population Information

Genetic Status: Unaltered

Non-Natives: None present

Barrier: Unknown

Land Ownership:

USFS: 52.3%

State: 0.0%

Private: 47.7%

Other: 0.0%

Table 1. Air and stream temperature metrics and discharge in 2010 and 2011.

	Year	2-hr Min (°C)	2-hr Max (°C)	Min WAT (°C)	Max WAT (°C)	Baseflow Discharge (cfs)
Water	2010[a]	NA	NA	NA	NA	NA[e]
Data	2011[b]	NA	NA	NA	NA	2.96[f]
Air	2010[c]	NA	NA	NA	NA	-----
Data	2011[d]	NA	NA	NA	NA	-----

[a]no data collected in 2010; [b]no data collected in 2011; [c]no data collected in 2010; [d]no data collected in 2011; [e]no summer baseflow measured in 2010; [f]measured 9/19/2011 and was precipitation affected

Rio San Leonardo

Site ID: 61
HUC: Upper Rio Grande
Deployed: 9/19/2011
Drainage Area: 730 ha
Site Elevation: 2727 m
RGCT Population ID: LRG1-31

Figure 1. Monitoring site on Rio San Leonardo.

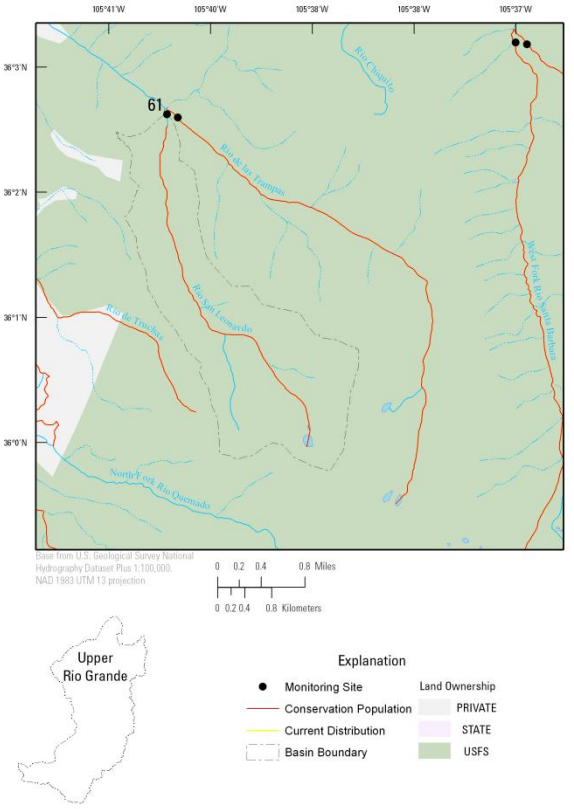


Figure 2. Location of monitoring site on Rio San Leonardo.

Population Information

Genetic Status: Suspected hybridized

Non-Natives: None present

Barrier: Partial barrier present

Land Ownership:

USFS: 100.0%

State: 0.0%

Private: 0.0%

Other: 0.0%

Table 1. Air and stream temperature metrics and discharge in 2010 and 2011.

	Year	2-hr Min (°C)	2-hr Max (°C)	Min WAT (°C)	Max WAT (°C)	Baseflow Discharge (cfs)
Water	2010[a]	NA	NA	NA	NA	NA[e]
Data	2011[b]	NA	NA	NA	NA	0.92[f]
Air	2010[c]	NA	NA	NA	NA	-----
Data	2011[d]	NA	NA	NA	NA	-----

[a]no data collected in 2010; [b]no data collected in 2011; [c]no data collected in 2010; [d]no data collected in 2011; [e]no summer baseflow measured in 2010; [f]measured 9/19/2011 and was precipitation affected

Rio de las Trampas

Site ID: 62
HUC: Upper Rio Grande
Deployed: 9/19/2011
Drainage Area: 1,489 ha
Site Elevation: 2734 m
RGCT Population ID: LRG1-30

Figure 1. Monitoring site on Rio de las Trampas.

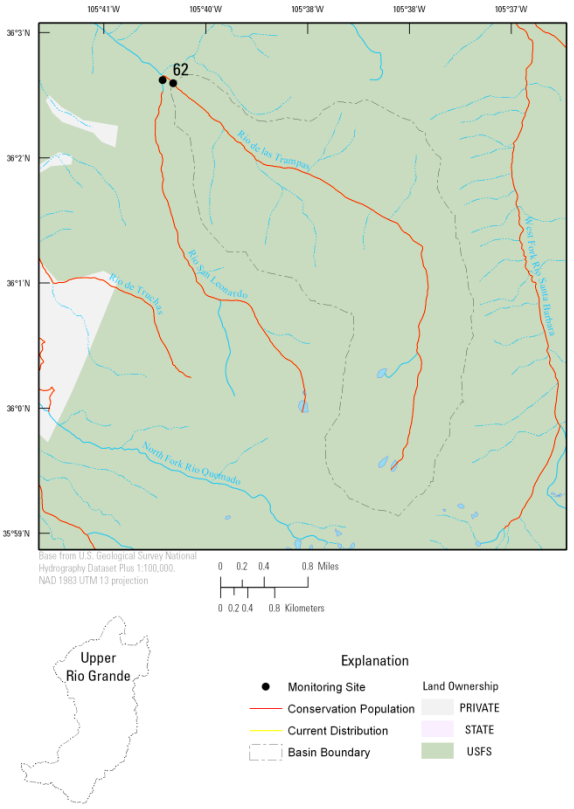


Figure 2. Location of monitoring site on Rio de las Trampas.

Population Information

Genetic Status: Suspected Hybridized

Non-Natives: None present

Barrier: Partial barrier present

Land Ownership:

USFS: 100.0%

State: 0.0%

Private: 0.0%

Other: 0.0%

Table 1. Air and stream temperature metrics and discharge in 2010 and 2011.

	Year	2-hr Min (°C)	2-hr Max (°C)	Min WAT (°C)	Max WAT (°C)	Baseflow Discharge (cfs)
Water	2010[a]	NA	NA	NA	NA	NA[e]
Data	2011[b]	NA	NA	NA	NA	3.37[f]
Air	2010[c]	NA	NA	NA	NA	-----
Data	2011[d]	NA	NA	NA	NA	-----

[a]no data collected in 2010; [b]no data collected in 2011; [c]no data collected in 2010; [d]no data collected in 2011; [e]no summer baseflow measured in 2010; [f]measured 9/19/2011 and was precipitation affected

Indian Creek

Site ID: 63
HUC: Upper Rio Grande
Deployed: 9/20/2011
Drainage Area: 551 ha
Site Elevation: 2774
RGCT Population ID: LRG1-36

Figure 1. Monitoring site on Indian Creek.

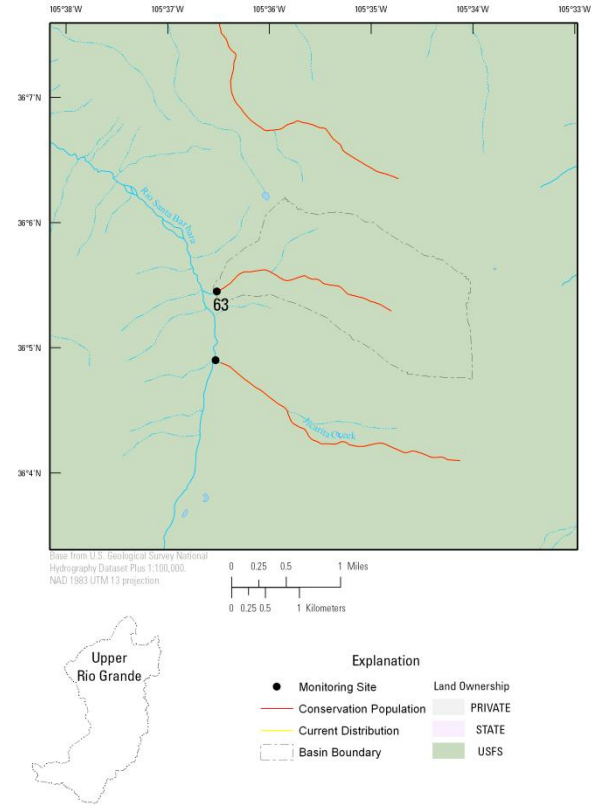


Figure 2. Location of monitoring site on Indian Creek.

Population Information

Genetic Status: Not tested – Suspected hybrid

Non-Natives: Unknown

Barrier: No barrier present

Land Ownership:

USFS: 100.0%

State: 0.0%

Private: 0.0%

Other: 0.0%

Table 1. Air and stream temperature metrics and discharge in 2010 and 2011.

	Year	2-hr Min (°C)	2-hr Max (°C)	Min WAT (°C)	Max WAT (°C)	Baseflow Discharge (cfs)
Water	2010[a]	NA	NA	NA	NA	NA[e]
Data	2011[b]	NA	NA	NA	NA	0.31[f]
Air	2010[c]	NA	NA	NA	NA	-----
Data	2011[d]	NA	NA	NA	NA	-----

[a]no data collected in 2010; [b]no data collected in 2011; [c]no data collected in 2010; [d]no data collected in 2011; [e]no summer baseflow measured in 2010; [f]measured 9/20/2011 and was precipitation affected

Jicarita Creek

Site ID: 64
HUC: Upper Rio Grande
Deployed: 9/23/2010
Drainage Area: 784 ha
Site Elevation: 2735 m
RGCT Population ID: LRG1-35

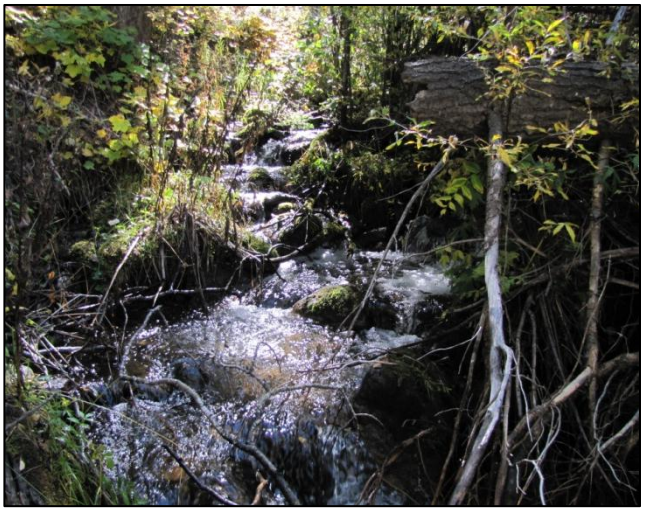


Figure 1. Monitoring site on Jicarita Creek.

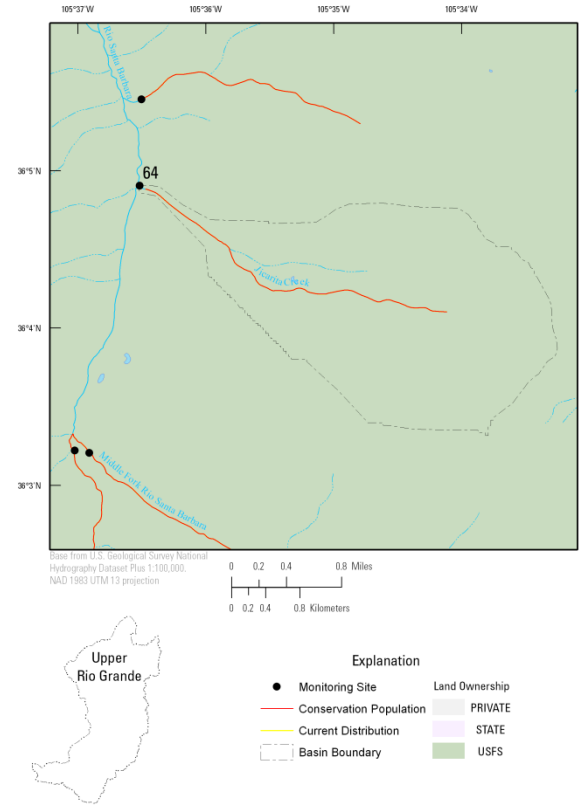


Figure 2. Location of monitoring site on Jicarita Creek.

Population Information

Genetic Status: Unaltered

Non-Natives: None present

Barrier: Partial barrier present

Land Ownership:

USFS: 100.0%

State: 0.0%

Private: 0.0%

Other: 0.0%

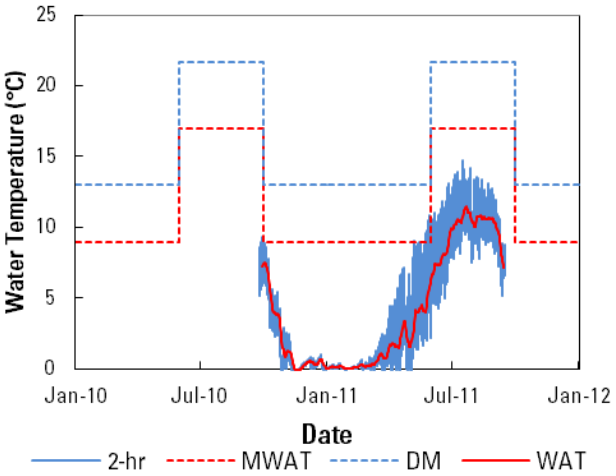


Figure 3. Two hour running mean (blue line) and weekly average temperature (red line) at monitoring site on Jicarita Creek. Dashed lines represent Colorado Tier 1 Cold Water Temperature criteria.

Table 1. Air and stream temperature metrics and discharge in 2010 and 2011.

	Year	2-hr Min (°C)	2-hr Max (°C)	Min WAT (°C)	Max WAT (°C)	Baseflow Discharge (cfs)
Water	2010[a]	NA	NA	NA	NA	NA[e]
Data	2011[b]	-0.05	14.76	-0.01	11.48	1.64[f]
Air	2010[c]	NA	NA	NA	NA	-----
Data	2011[d]	-29.96	28.48	-13.05	16.80	-----

[a]99 days of data (9/24/2010 – 12/31/2010); [b]268 days of data (1/01/2011 – 9/25/2011); [c]99 days of data (9/24/2010 – 12/31/2010); [d]268 days of data (1/01/2011 – 9/25/2011); [e]no summer baseflow measurement taken in 2010; [f]measured 9/26/2011 and was not precipitation affected

Middle Fork Rio Santa Barbara

Site ID: 65
HUC: Upper Rio Grande
Deployed: 5/20/2010
Drainage Area: 4,138 ha
Site Elevation: 2853 m
RGCT Population ID: LRG1-29

Figure 1. Lower monitoring site located on Middle Fork Rio Santa Barbara.

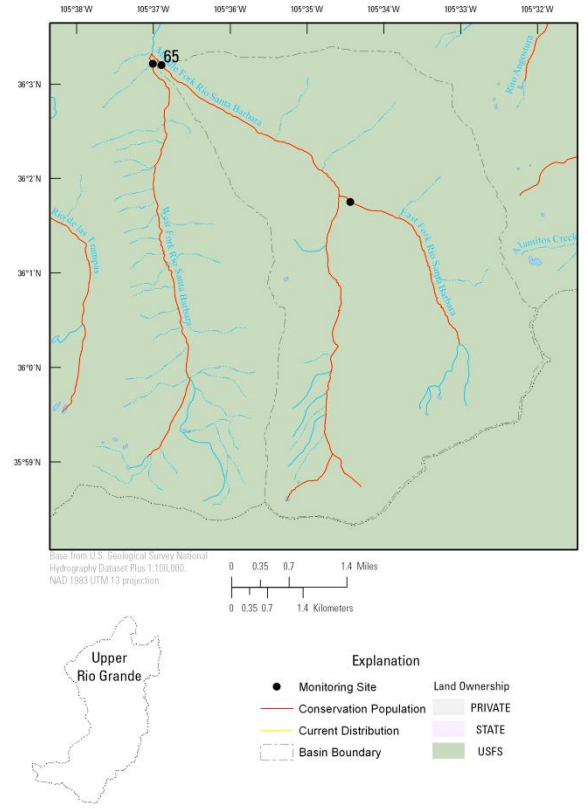


Figure 2. Location of lower monitoring site on Middle Fork Rio Santa Barbara.

Population Information

Genetic Status: Suspected Hybrid

Non-Natives: Brown trout

Barrier: No barrier present

Land Ownership:

USFS: 100.0%

State: 0.0%

Private: 0.0%

Other: 0.0%

Table 1. Air and stream temperature metrics and discharge in 2010 and 2011.

	Year	2-hr Min (°C)	2-hr Max (°C)	Min WAT (°C)	Max WAT (°C)	Baseflow Discharge (cfs)
Water	2010[a]	Lost	Lost	Lost	Lost	NA[e]
Data	2011[b]	Lost	Lost	Lost	Lost	7.80[f]
Air	2010[c]	-19.98	26.97	-9.35	15.49	-----
Data	2011[d]	-32.98	27.65	-13.93	15.95	-----

[a]data logger lost in 2010 and no data is presented; [b]data logger lost in 2011 and no data is presented; [c]211 days of data (6/04/2010 – 12/31/2010); [d]268 days of data (1/01/2011 – 9/25/2011); [e]no summer baseflow measurement taken in 2010; [f]measured 9/26/2011 and was not precipitation affected

West Fork Rio Santa Barbara

Site ID: 66
HUC: Upper Rio Grande
Deployed: 9/24/2010
Drainage Area: 2,498 ha
Site Elevation: 2842 m
RGCT Population ID: LRG1-29

Figure 1. Monitoring site on West Fork Rio Santa Barbara.

Population Information

Genetic Status: Suspected Hybridized

Non-Natives: Brown trout

Barrier: None present

Land Ownership:

USFS: 100.0%

State: 0.0%

Private: 0.0%

Other: 0.0%

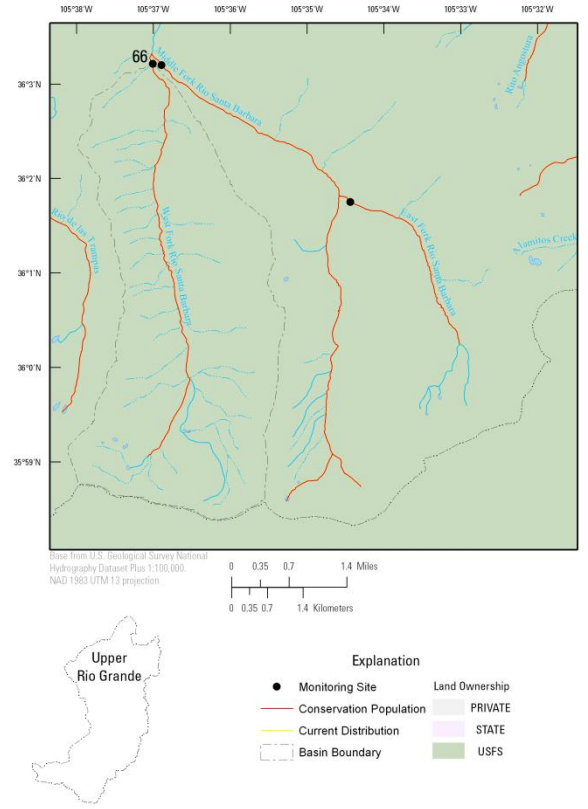


Figure 2. Location of monitoring site on West Fork Rio Santa Barbara.

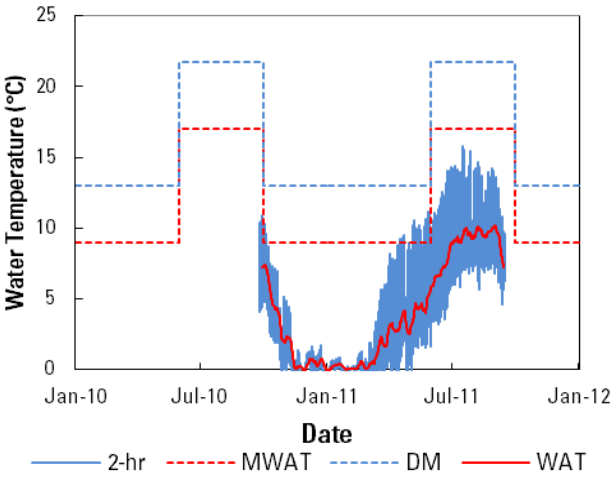


Figure 3. Two hour running mean (blue line) and weekly average temperature (red line) at monitoring site on West Fork Rio Santa Barbara. Dashed lines represent Colorado Tier 1 Cold Water Temperature criteria.

Table 1. Air and stream temperature metrics and discharge in 2010 and 2011.

	Year	2-hr Min (°C)	2-hr Max (°C)	Min WAT (°C)	Max WAT (°C)	Baseflow Discharge (cfs)
Water	2010[a]	NA	NA	NA	NA	NA[e]
Data	2011[b]	-0.03	15.77	0.00	10.17	4.98[f]
Air	2010[c]	-20.52	25.00	-9.60	14.97	-----
Data	2011[d]	-33.41	24.84	-14.23	14.98	-----

[a]99 days of data (9/24/2010 – 12/31/2010); [b]268 days of data (1/01/2011 – 9/25/2011); [c]211 days of data (6/04/2010 – 12/31/2010); [d]268 days of data (1/01/2011 – 9/25/2011); [e]no summer baseflow measurement taken in 2010; [f]measured 9/26/2011 and was not precipitation affected

East Fork Rio Santa Barbara

Site ID: 67
HUC: Upper Rio Grande
Deployed: 5/20/2010
Drainage Area: 1,479 ha
Site Elevation: 3148 m
RGCT Population ID: LRG1-28

Figure 1. Monitoring site on East Fork Rio Santa Barbara.

Population Information

Genetic Status: Unaltered

Non-Natives: None present

Barrier: Complete barrier present

Land Ownership:

USFS: 100.0%

State: 0.0%

Private: 0.0%

Other: 0.0%

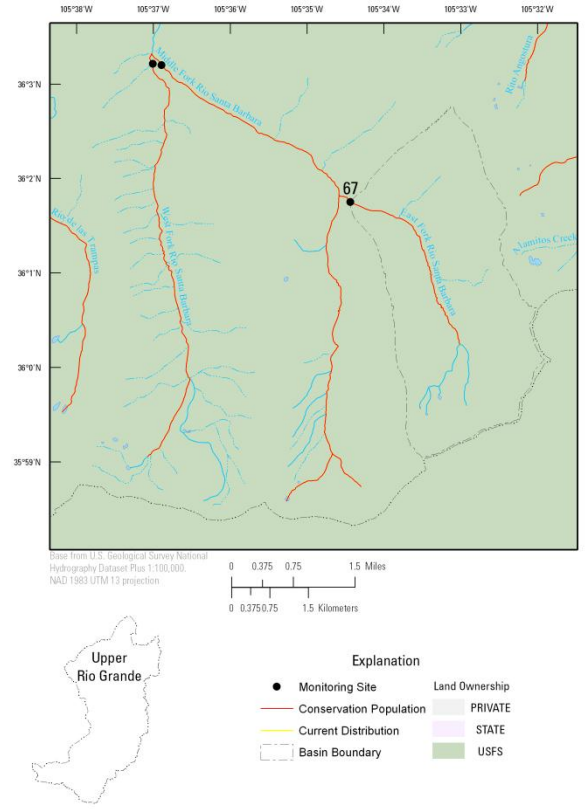


Figure 2. Location of monitoring site on East Fork Rio Santa Barbara.

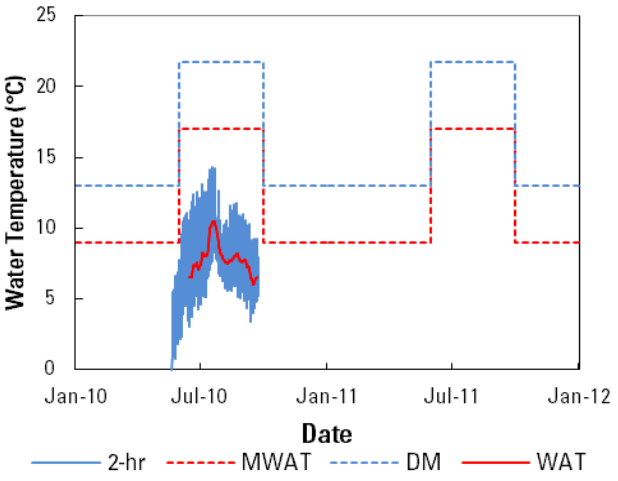


Figure 3. Two hour running mean (blue line) and weekly average temperature (red line) at monitoring site on East Fork Rio Santa Barbara. Dashed lines represent Colorado Tier 1 Cold Water Temperature criteria.

Table 1. Air and stream temperature metrics and discharge in 2010 and 2011.

	Year	2-hr Min (°C)	2-hr Max (°C)	Min WAT (°C)	Max WAT (°C)	Baseflow Discharge (cfs)
Water	2010[a]	NA	14.31	NA	10.50	NA[e]
Data	2011[b]	NA	NA	NA	NA	NA[f]
Air	2010[c]	NA	22.59	NA	13.13	-----
Data	2011[d]	NA	NA	NA	NA	-----

[a]110 days of data (6/04/2010 – 9/21/2010); [b]no data collected in 2011; [c]111 days of data (6/04/2010 – 9/22/2010); [d]no data collected in 2011; [e]no summer baseflow measured in 2010; [f]no summer baseflow measured in 2011

Osha Canyon

Site ID: 68
HUC: Upper Rio Grande
Deployed: 9/19/2011
Drainage Area: 1,631 ha
Site Elevation: 2419 m
RGCT Population ID: LRG1-24

Figure 1. Monitoring site on Osha Canyon.

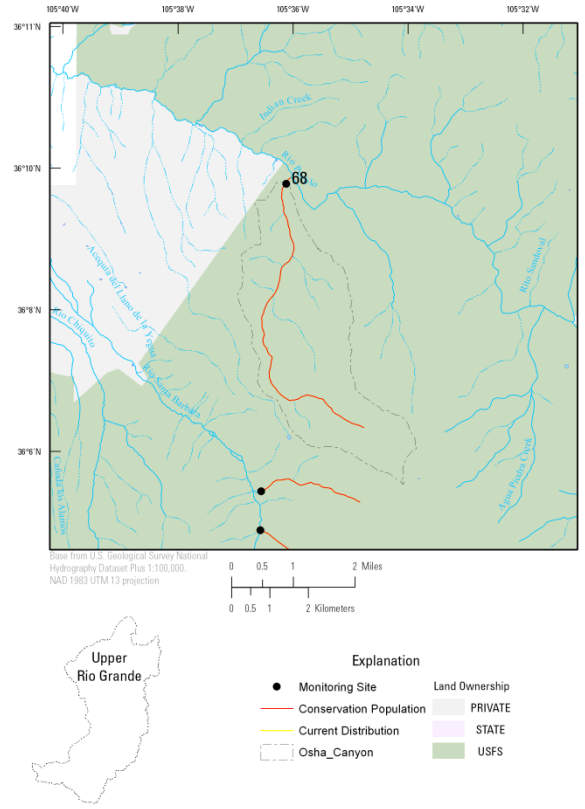


Figure 2. Location of monitoring site on Osha Canyon.

Population Information

Genetic Status: > 1% and ≤ 10%

Non-Natives: None present

Barrier: Partial Barrier Present

Land Ownership:

USFS: 100.0%

State: 0.0%

Private: 0.0%

Other: 0.0%

Table 1. Air and stream temperature metrics and discharge in 2010 and 2011.

	Year	2-hr Min (°C)	2-hr Max (°C)	Min WAT (°C)	Max WAT (°C)	Baseflow Discharge (cfs)
Water	2010[a]	NA	NA	NA	NA	NA[e]
Data	2011[b]	NA	NA	NA	NA	0.23[f]
Air	2010[c]	NA	NA	NA	NA	-----
Data	2011[d]	NA	NA	NA	NA	-----

[a]no data collected in 2010; [b]no data collected in 2011; [c]no data collected in 2010; [d]no data collected in 2011; [e]no summer baseflow measured in 2010; [f]measured 9/19/2011 and was precipitation affected

Rito Angostura

Site ID: 69
HUC: Upper Rio Grande
Deployed: 5/21/2010
Drainage Area: 1,392 ha
Site Elevation: 2935 m
RGCT Population ID: LRG1-25

Figure 1. Monitoring site on Rito Angostura.

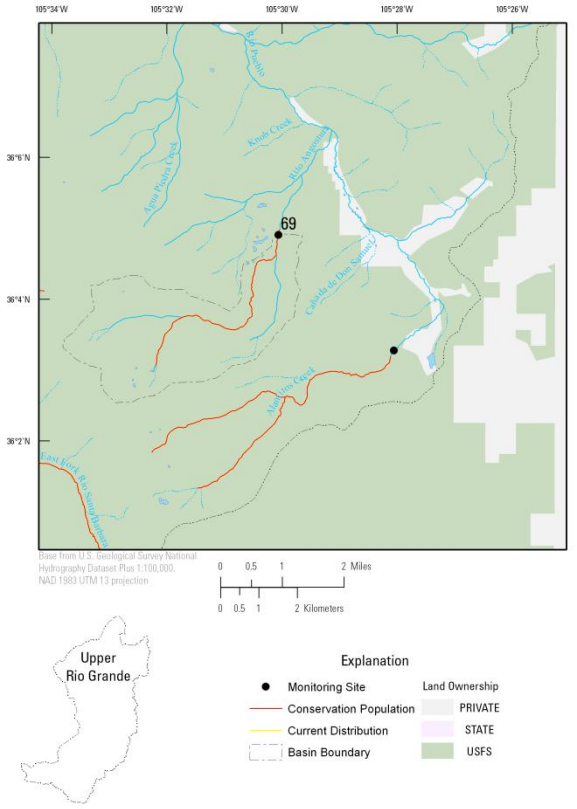


Figure 2. Location of monitoring site on Rito Angostura.

Population Information

Genetic Status: > 1% and ≤ 10%

Non-Natives: None present

Barrier: Complete barrier present

Land Ownership:

USFS: 100.0%

State: 0.0%

Private: 0.0%

Other: 0.0%

Table 1. Air and stream temperature metrics and discharge in 2010 and 2011.

	Year	2-hr Min (°C)	2-hr Max (°C)	Min WAT (°C)	Max WAT (°C)	Baseflow Discharge (cfs)
Water	2010[a]	Lost	Lost	Lost	Lost	0.22[e]
Data	2011[b]	NA	NA	NA	NA	NA[f]
Air	2010[c]	NA	25.35	NA	14.97	-----
Data	2011[d]	NA	NA	NA	NA	-----

[a]data logger lost in 2010 and no data is presented; [b]no data collected in 2011; [c]109 days of data (6/04/2010 – 9/20/2010); [d]no data collected in 2011; [e]measured on 9/21/2010 and was not precipitation affected; [f]no summer baseflow measured in 2011

Alamitos Creek

Site ID: 70
HUC: Upper Rio Grande
Deployed: 9/22/2010
Drainage Area: 1,788 ha
Site Elevation: 2951 m
RGCT Population ID: LRG1-26

Figure 1. Monitoring site on Alamitos Creek .

Population Information

Genetic Status: Unaltered

Non-Natives: None present

Barrier: Partial barrier present

Land Ownership:

USFS: 100.0%

State: 0.0%

Private: 0.0%

Other: 0.0%

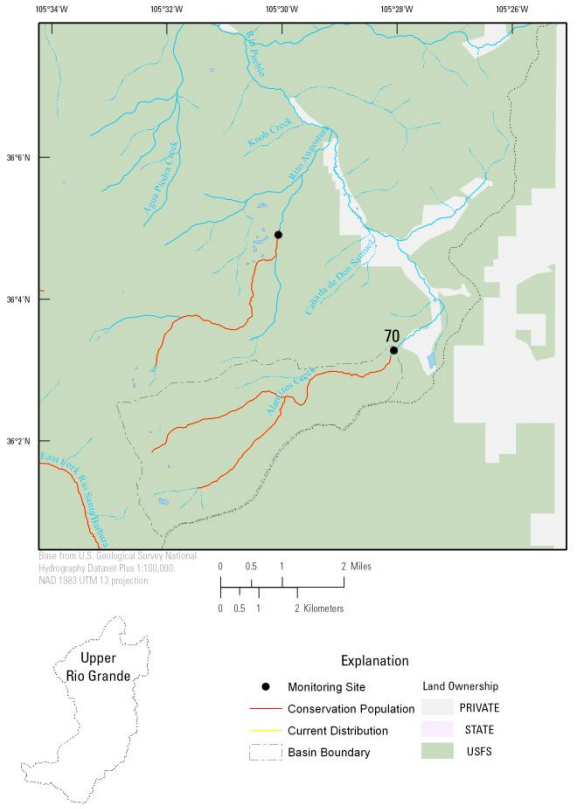


Figure 2. Location of monitoring site on Alamitos Creek.

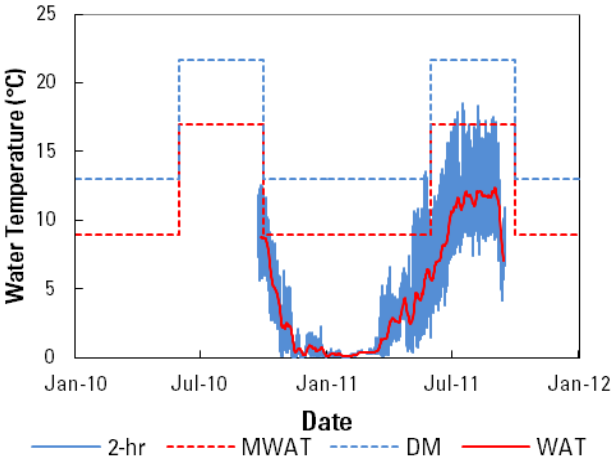


Figure 3. Two hour running mean (blue line) and weekly average temperature (red line) at monitoring site on Alamitos Creek. Dashed lines represent Colorado Tier 1 Cold Water Temperature criteria.

Table 1. Air and stream temperature metrics and discharge in 2010 and 2011.

	Year	2-hr Min (°C)	2-hr Max (°C)	Min WAT (°C)	Max WAT (°C)	Baseflow Discharge (cfs)
Water	2010[a]	NA	NA	NA	NA	0.06[e]
Data	2011[b]	0.08	18.56	0.09	12.40	1.92[f]
Air	2010[c]	NA	26.38	NA	16.38	-----
Data	2011[d]	Lost	Lost	Lost	Lost	-----

[a]101 days of data (9/22/2010 – 12/31/2010); [b]261 days of data (1/01/2011 – 9/18/2011); [c]109 days of data (6/04/2010 – 9/20/2010); [d]data logger lost in 2011 and no data is presented; [e]measured on 9/21/2010 and was not precipitation affected; [f]measured 9/19/2011 and was not precipitation affected

Policarpio Creek

Site ID: 71
HUC: Upper Rio Grande
Deployed: 5/20/2010
Drainage Area: 779 ha
Site Elevation: 2772 m
RGCT Population ID: LRG1-23

Figure 1. Monitoring site on Policarpio Creek.

Population Information

Genetic Status: Unaltered

Non-Natives: None present

Barrier: Complete barrier present

Land Ownership:

USFS: 92.7%

State: 0.0%

Private: 7.3%

Other: 0.0%

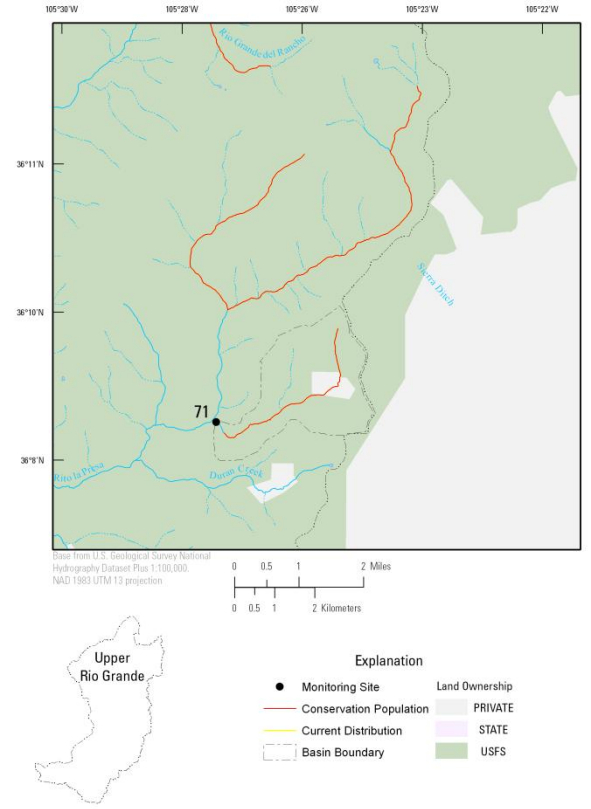


Figure 2. Location of monitoring site on Policarpio Creek.

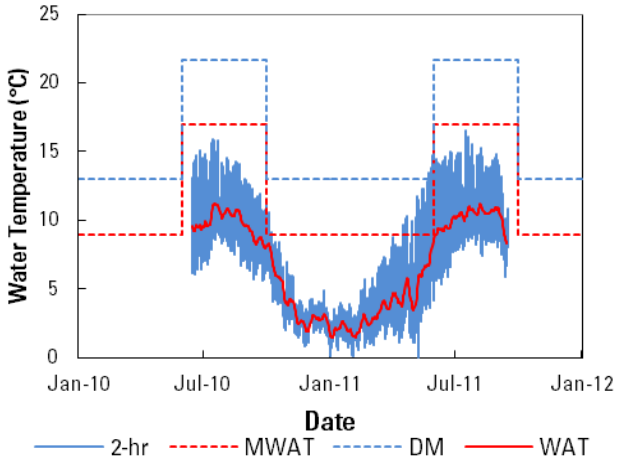


Figure 3. Two hour running mean (blue line) and weekly average temperature (red line) at monitoring site on Policarpio Creek. Dashed lines represent Colorado Tier 1 Cold Water Temperature criteria.

Table 1. Air and stream temperature metrics and discharge in 2010 and 2011.

	Year	2-hr Min (°C)	2-hr Max (°C)	Min WAT (°C)	Max WAT (°C)	Baseflow Discharge (cfs)
Water	2010[a]	0.44	15.93	1.89	11.23	0.46[e]
Data	2011[b]	0.11	16.53	1.46	11.19	0.62[f]
Air	2010[c]	-18.50	28.37	-7.09	15.87	-----
Data	2011[d]	-34.26	30.69	-13.84	16.17	-----

[a]211 days of data (6/04/2010 – 12/31/2010); [b]261 days of data (1/01/2011 – 9/18/2011); [c]211 days of data (6/04/2010 – 12/31/2010); [d]261 days of data (1/01/2011 – 9/18/2011); [e]measured on 9/21/2010 and was not precipitation affected; [f]measured 9/19/2011 and was not precipitation affected

Rio Grande del Rancho

Site ID: 72
HUC: Upper Rio Grande
Deployed: 9/20/2011
Drainage Area: 1,068 ha
Site Elevation: 2928 m
RGCT Population ID: LRG1-21

Figure 1. Monitoring site on Rio Grande del Rancho.

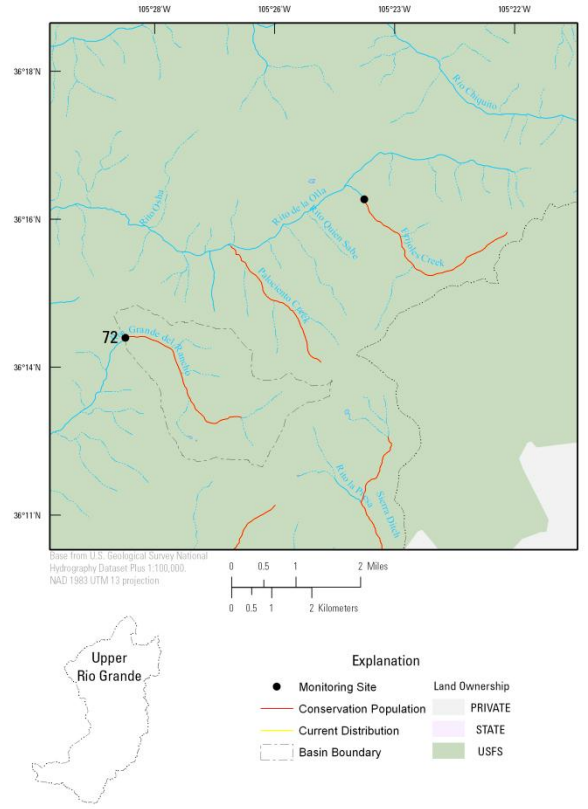


Figure 2. Location of monitoring site on Rio Grande del Rancho.

Population Information

Genetic Status: > 1% and ≤ 10%

Non-Natives: Brown trout

Barrier: No barrier present

Land Ownership:

USFS: 100.0%

State: 0.0%

Private: 0.0%

Other: 0.0%

Table 1. Air and stream temperature metrics and discharge in 2010 and 2011.

	Year	2-hr Min (°C)	2-hr Max (°C)	Min WAT (°C)	Max WAT (°C)	Baseflow Discharge (cfs)
Water	2010[a]	NA	NA	NA	NA	NA[e]
Data	2011[b]	NA	NA	NA	NA	0.52[f]
Air	2010[c]	NA	NA	NA	NA	-----
Data	2011[d]	NA	NA	NA	NA	-----

[a]no data collected in 2010; [b]no data collected in 2011; [c]no data collected in 2010; [d]no data collected in 2011; [e]no summer baseflow measured in 2010; [f]measured 9/20/2011 and was precipitation affected

Frijoles Creek

Site ID: 73
HUC: Upper Rio Grande
Deployed: 9/20/2011
Drainage Area: 804 ha
Site Elevation: 2923 m
RGCT Population ID: LRG1-29

Figure 1. Monitoring site on Frijoles Creek.

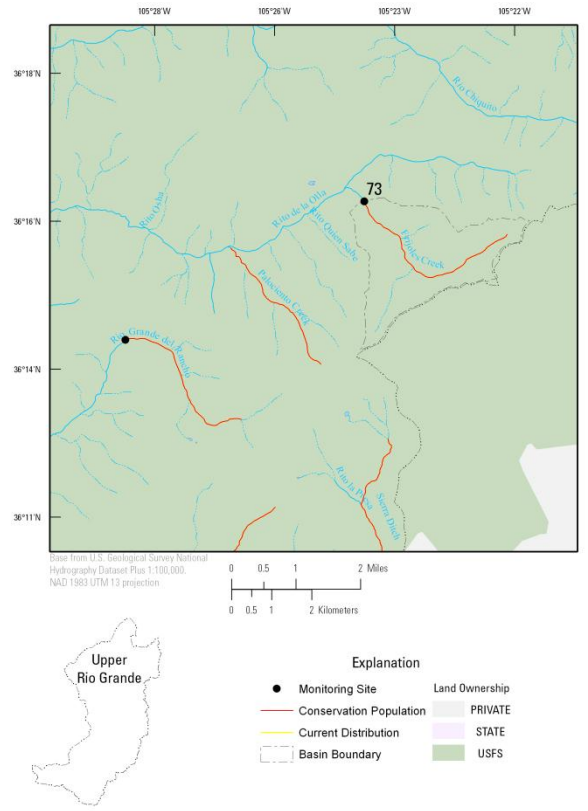


Figure 2. Location of monitoring site on Frijoles Creek.

Population Information

Genetic Status: Unaltered

Non-Natives: Brown trout

Barrier: Partial barrier present

Land Ownership:

USFS: 100.0%

State: 0.0%

Private: 0.0%

Other: 0.0%

Table 1. Air and stream temperature metrics and discharge in 2010 and 2011.

	Year	2-hr Min (°C)	2-hr Max (°C)	Min WAT (°C)	Max WAT (°C)	Baseflow Discharge (cfs)
Water	2010[a]	NA	NA	NA	NA	NA[e]
Data	2011[b]	NA	NA	NA	NA	0.55[f]
Air	2010[c]	NA	NA	NA	NA	-----
Data	2011[d]	NA	NA	NA	NA	-----

[a]no data collected in 2010; [b]no data collected in 2011; [c]no data collected in 2010; [d]no data collected in 2011; [e]no summer baseflow measured in 2010; [f]measured 9/20/2011 and was precipitation affected

Yerba Creek

Site ID: 74
HUC: Upper Rio Grande
Deployed: 9/21/2011
Drainage Area: 619 ha
Site Elevation: 2516 m
RGCT Population ID: LRG1-13

Figure 1. Monitoring location on Yerba Creek.

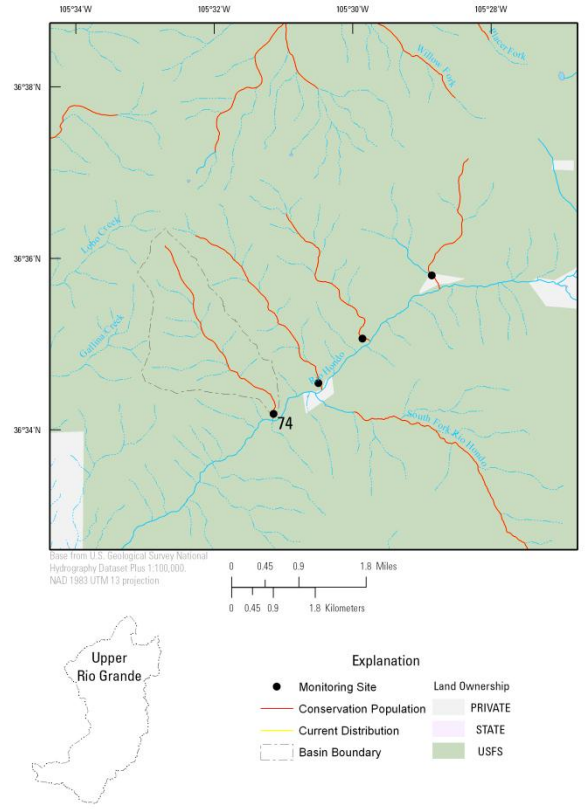


Figure 2. Location of monitoring site on Yerba Creek.

Population Information

Genetic Status: Unaltered

Non-Natives: Brown trout

Barrier: Partial barrier present

Land Ownership:

USFS: 100.0%

State: 0.0%

Private: 0.0%

Other: 0.0%

Table 1. Air and stream temperature metrics and discharge in 2010 and 2011.

	Year	2-hr Min (°C)	2-hr Max (°C)	Min WAT (°C)	Max WAT (°C)	Baseflow Discharge (cfs)
Water	2010[a]	NA	NA	NA	NA	NA[e]
Data	2011[b]	NA	NA	NA	NA	0.20[f]
Air	2010[c]	NA	NA	NA	NA	-----
Data	2011[d]	NA	NA	NA	NA	-----

[a]no data collected in 2010; [b]no data collected in 2011; [c]no data collected in 2010; [d]no data collected in 2011; [e]no summer baseflow measured in 2010; [f]measured 9/21/2011 and was precipitation affected

Manzanita Creek

Site ID: 75
HUC: Upper Rio Grande
Deployed: 9/17/2010
Drainage Area: 588 ha
Site Elevation: 2501 m
RGCT Population ID: LRG1-14

Figure 1. Monitoring site on Manzanita Creek.

Population Information

Genetic Status: Not tested

Non-Natives: None present

Barrier: Complete barrier present

Land Ownership:

USFS: 100.0%

State: 0.0%

Private: 0.0%

Other: 0.0%

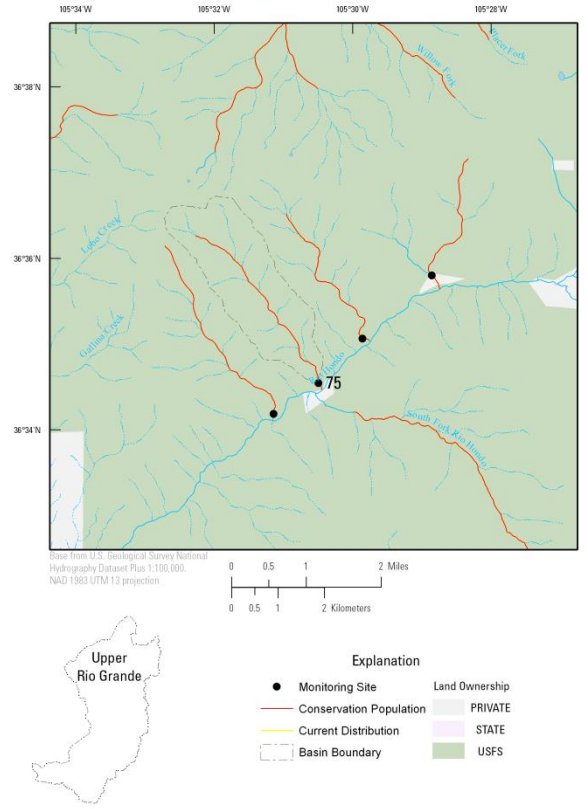


Figure 2. Location of monitoring site on Manzanita Creek.

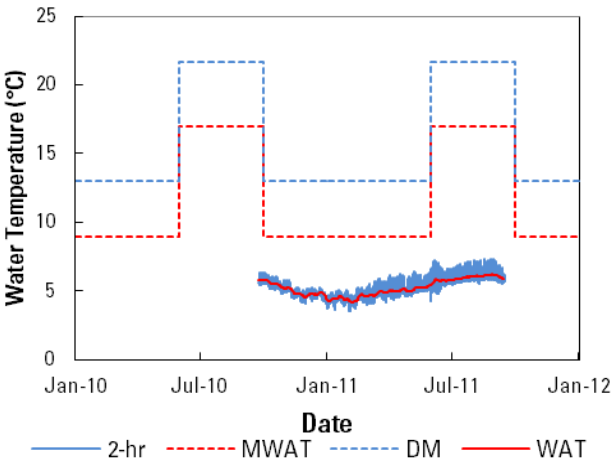


Figure 3. Two hour running mean (blue line) and weekly average temperature (red line) at monitoring site on Manzanita Creek. Dashed lines represent Colorado Tier 1 Cold Water Temperature criteria.

Table 1. Air and stream temperature metrics and discharge in 2010 and 2011.

	Year	2-hr Min (°C)	2-hr Max (°C)	Min WAT (°C)	Max WAT (°C)	Baseflow Discharge (cfs)
Water	2010[a]	NA	NA	NA	NA	0.28[e]
Data	2011[b]	3.51	7.36	4.17	6.21	0.22[f]
Air	2010[c]	NA	NA	NA	NA	-----
Data	2011[d]	-29.62	30.41	-12.92	16.71	-----

[a]105 days of data (9/18/2010 – 12/31/2010); [b]263 days of data (1/01/2011 – 9/20/2011); [c]105 days of data (9/18/2010 – 12/31/2010); [d]263 days of data (1/01/2011 – 9/20/2011); [e]measured on 9/17/2010 and was not precipitation affected; [f]measured 9/21/2011 and was not precipitation affected

Italianos Creek

Site ID: 76
HUC: Upper Rio Grande
Deployed: 5/22/2010
Drainage Area: 581 ha
Site Elevation: 2677m
RGCT Population ID: LRG1-15

Figure 1. Monitoring site on Italianos Creek.

Population Information

Genetic Status: Not tested

Non-Natives: None present

Barrier: Complete barrier present

Land Ownership:

USFS: 100.0%

State: 0.0%

Private: 0.0%

Other: 0.0%

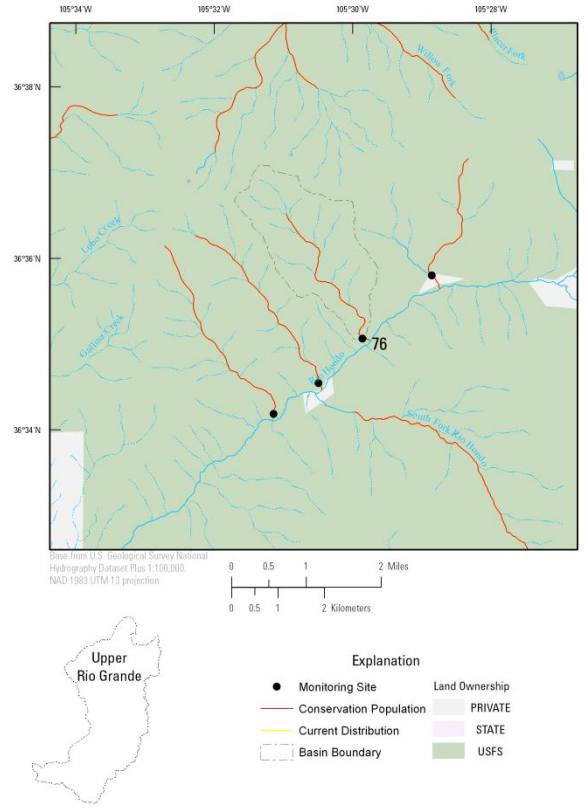


Figure 2. Location of monitoring site on Italianos Creek.

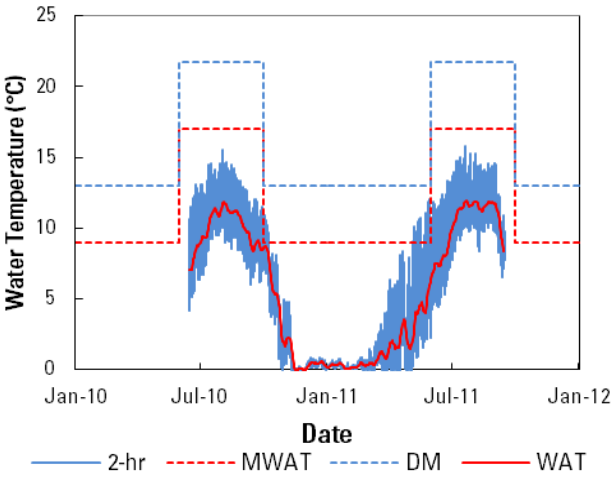


Figure 3. Two hour running mean (blue line) and weekly average temperature (red line) at monitoring site on Italianos Creek. Dashed lines represent Colorado Tier 1 Cold Water Temperature criteria.

Table 1. Air and stream temperature metrics and discharge in 2010 and 2011.

	Year	2-hr Min (°C)	2-hr Max (°C)	Min WAT (°C)	Max WAT (°C)	Baseflow Discharge (cfs)
Water	2010[a]	-0.03	15.57	0.00	11.87	0.50[e]
Data	2011[b]	-0.03	15.78	0.07	11.92	0.32[f]
Air	2010[c]	-17.97	27.17	-8.67	15.99	-----
Data	2011[d]	-29.42	27.16	-13.66	16.61	-----

[a]211 days of data (6/04/2010 – 12/31/2010); [b]263 days of data (1/01/2011 – 9/20/2011); [c]211 days of data (6/04/2010 – 12/31/2010); [d]263 days of data (1/01/2011 – 9/20/2011); [e]measured on 9/17/2010 and was not precipitation affected; [f]measured 9/21/2011 and was not precipitation affected

Gavilan Creek

Site ID: 77
HUC: Upper Rio Grande
Deployed: 9/21/2011
Drainage Area: 764 ha
Site Elevation: 2775 m
RGCT Population ID: LRG1-26

Figure 1. Monitoring site on Gavilan Creek.

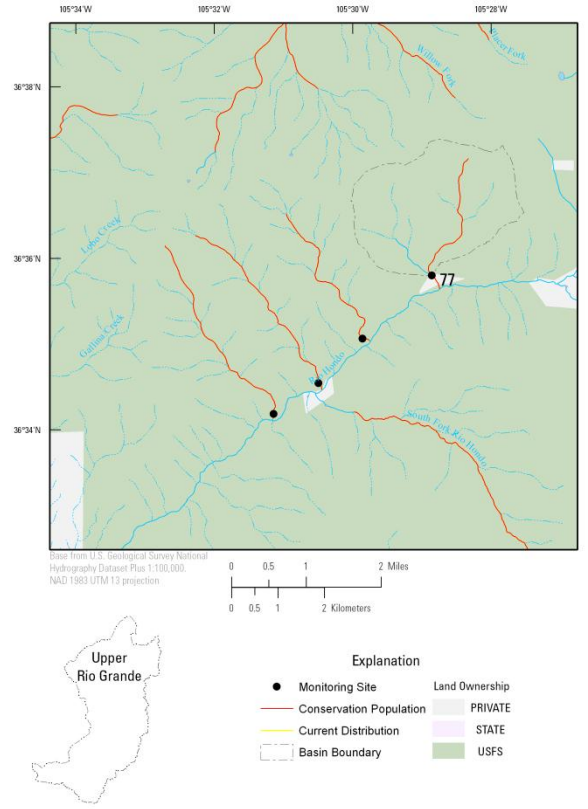


Figure 2. Location of monitoring site on Gavilan Creek.

Population Information

Genetic Status: Unaltered

Non-Natives: Brown trout

Barrier: No barrier present

Land Ownership:

USFS: 99.9%

State: 0.0%

Private: 0.1%

Other: 0.0%

Table 1. Air and stream temperature metrics and discharge in 2010 and 2011.

	Year	2-hr Min (°C)	2-hr Max (°C)	Min WAT (°C)	Max WAT (°C)	Baseflow Discharge (cfs)
Water	2010[a]	NA	NA	NA	NA	NAe
Data	2011[b]	NA	NA	NA	NA	0.80[f]
Air	2010[c]	NA	NA	NA	NA	-----
Data	2011[d]	NA	NA	NA	NA	-----

[a]no data collected in 2010; [b]no data collected in 2011; [c]no data collected in 2010; [d]no data collected in 2011; [e]no summer baseflow measured in 2010; [f]measured 9/21/2011 and was precipitation affected

San Cristobal Creek

Site ID: 78
HUC: Upper Rio Grande
Deployed: 5/22/2010
Drainage Area: 1, 200 ha
Site Elevation: 2497 m
RGCT Population ID:LRG1-12

Figure 1. Monitoring site on San Cristobal Creek.

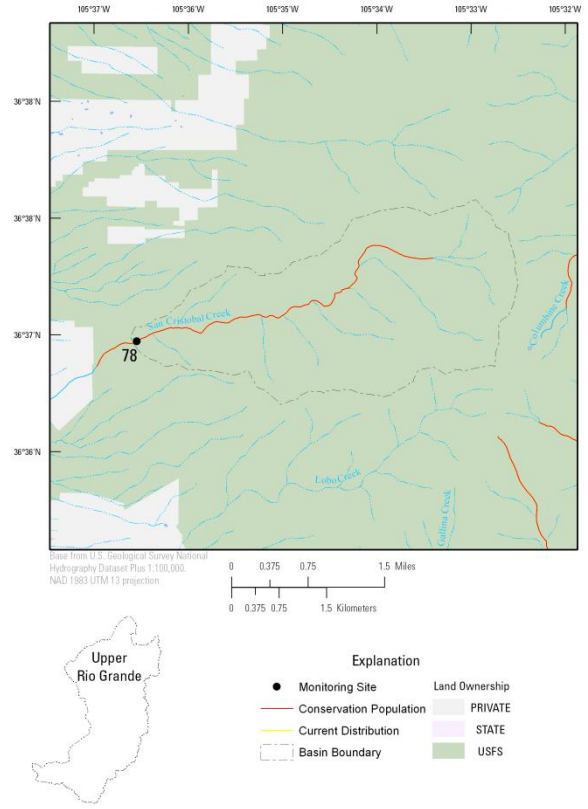


Figure 2. Location of monitoring site on San Cristobal Creek.

Population Information

Genetic Status: > 1% and ≤ 10%

Non-Natives: None present

Barrier: No barrier present

Land Ownership:

USFS: 100.0%

State: 0.0%

Private: 0.0%

Other: 0.0%

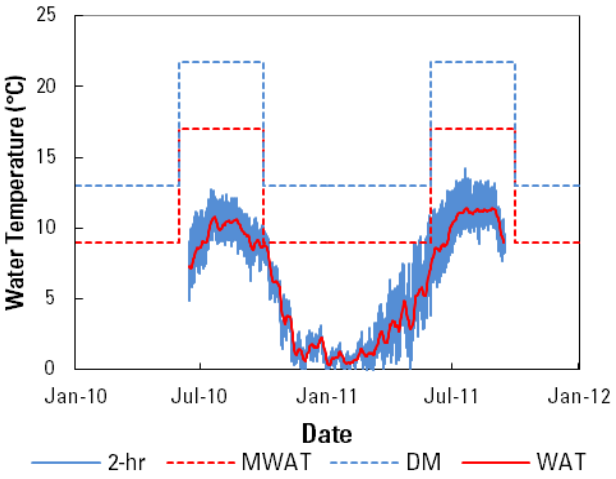


Figure 3. Two hour running mean (blue line) and weekly average temperature (red line) at monitoring site on San Cristobal Creek. Dashed lines represent Colorado Tier 1 Cold Water Temperature criteria.

Table 1. Air and stream temperature metrics and discharge in 2010 and 2011.

	Year	2-hr Min (°C)	2-hr Max (°C)	Min WAT (°C)	Max WAT (°C)	Baseflow Discharge (cfs)
Water	2010[a]	0.02	12.74	0.59	10.78	0.90[e]
Data	2011[b]	0.01	14.24	0.31	11.44	0.45[f]
Air	2010[c]	-21.11	32.76	-6.53	19.12	-----
Data	2011[d]	29.39	32.54	-12.09	19.05	-----

[a]211 days of data (6/04/2010 – 12/31/2010); [b]263 days of data (1/01/2011 – 9/20/2011); [c]211 days of data (6/04/2010 – 12/31/2010); [d]263 days of data (1/01/2011 – 9/20/2011); [e]measured on 9/13/2010 and was not precipitation affected; [f]measured 9/21/2011 and was not precipitation affected

Columbine Creek

Site ID: 79
HUC: Upper Rio Grande
Deployed: 5/22/2010
Drainage Area: 4,164 ha
Site Elevation: 2435 m
RGCT Population ID: LRG1-11

Figure 2. Lower monitoring site on Columbine Creek .

Population Information

Genetic Status: Unaltered

Non-Natives: Brown trout

Barrier: Compete barrier present

Land Ownership:

USFS: 100.0%

State: 0.0%

Private: 0.0%

Other: 0.0%

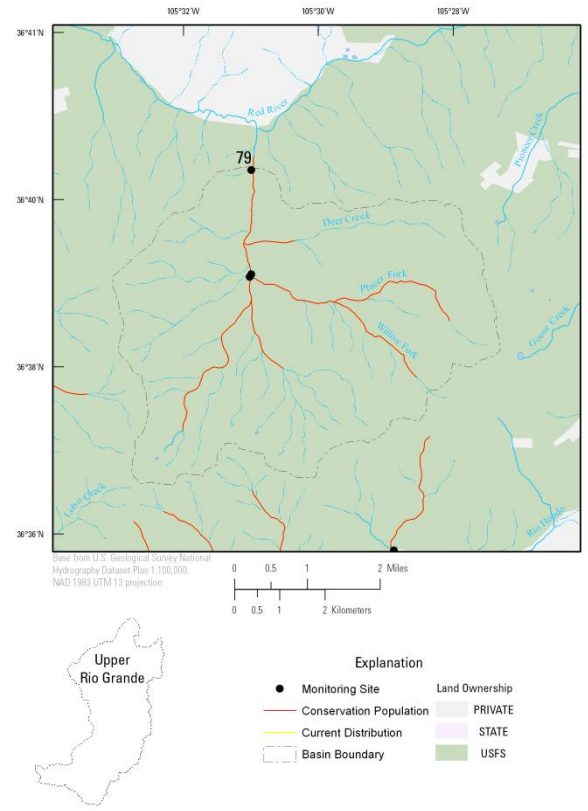


Figure 2. Location of lower monitoring site on Columbine Creek.

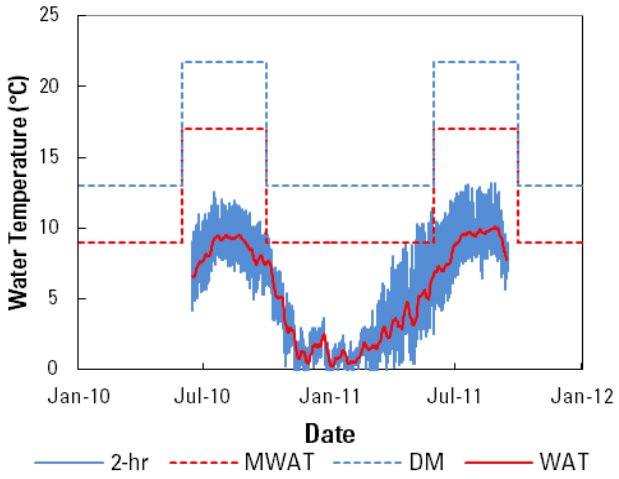


Figure 3. Two hour running mean (blue line) and weekly average temperature (red line) at lower monitoring site on Columbine Creek. Dashed lines represent Colorado Tier 1 Cold Water Temperature criteria.

Table 1. Air and stream temperature metrics and discharge in 2010 and 2011.

	Year	2-hr Min (°C)	2-hr Max (°C)	Min Wat (°C)	Max Wat (°C)	Baseflow Discharge (cfs)
Water	2010[a]	-0.06	12.55	0.37	9.52	7.13[e]
Data	2011[b]	-0.05	13.16	0.22	10.12	2.57[f]
Air	2010[c]	Lost	Lost	Lost	Lost	-----
Data	2011[d]	Lost	Lost	Lost	Lost	-----

[a]211 days of data (6/04/2010 – 12/31/2010); [b]264 days of data (1/01/2011 – 9/21/2011); [c]data logger lost in 2010 and no data is presented; [d]data logger lost in 2011 and no data is presented; [e]measured on 9/14/2010 and was not precipitation affected; [f]measured 9/22/2011 and was not precipitation affected

Columbine Creek

Site ID: 80
HUC: Upper Rio Grande
Deployed: 9/15/2010
Drainage Area: 1,451 ha
Site Elevation: 2583 m
RGCT Population ID: LRG1-11

Figure 1. Upper monitoring site on Columbine Creek.

Population Information

Genetic Status: Unaltered

Non-Natives: None present

Barrier: Complete barrier present

Land Ownership:

USFS: 100.0%

State: 0.0%

Private: 0.0%

Other: 0.0%

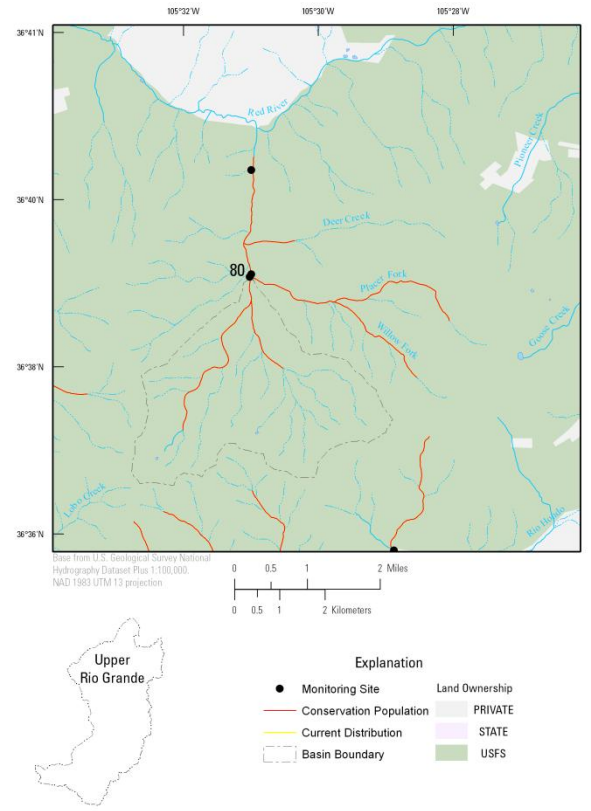


Figure 2. Location of upper monitoring site on Columbine Creek.

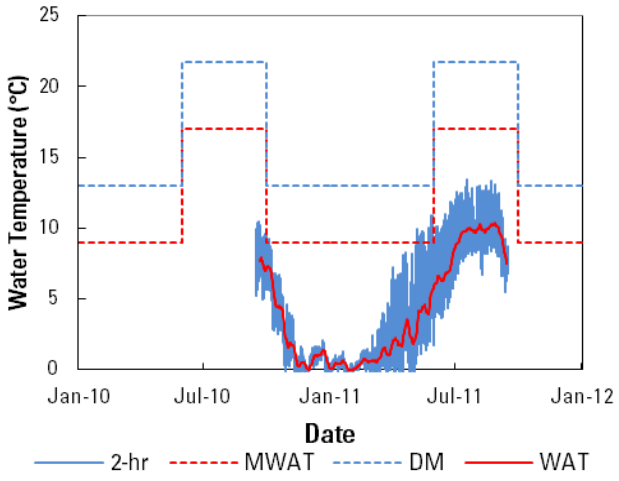


Figure 3. Two hour running mean (blue line) and weekly average temperature (red line) at upper monitoring site on Columbine Creek. Dashed lines represent Colorado Tier 1 Cold Water Temperature criteria.

Table 1. Air and stream temperature metrics and discharge in 2010 and 2011.

	Year	2-hr Min (°C)	2-hr Max (°C)	Min WAT (°C)	Max WAT (°C)	Baseflow Discharge (cfs)
Water	2010[a]	NA	NA	NA	NA	1.26[e]
Data	2011[b]	-0.10	13.40	-0.06	10.37	1.17[f]
Air	2010[c]	NA	29.32	NA	15.89	-----
Data	2011[d]	NA	28.67	NA	16.35	-----

[a]108 days of data (9/15/2010 – 12/31/2010); [b]264 days of data (1/01/2011 – 9/21/2011); [c]102 days of data (6/04/2010 – 9/13/2010); [d]130 days of data (5/15/2011 – 9/21/2011); [e]measured on 9/14/2010 and was not precipitation affected; [f]measured 9/22/2011 and was not precipitation affected

Placer Fork

Site ID: 81
HUC: Upper Rio Grande
Deployed: 9/15/2010
Drainage Area: 1,324 ha
Site Elevation: 2581 m
RGCT Population ID: LRG1-11

Figure 1. Monitoring site on Placer Fork.

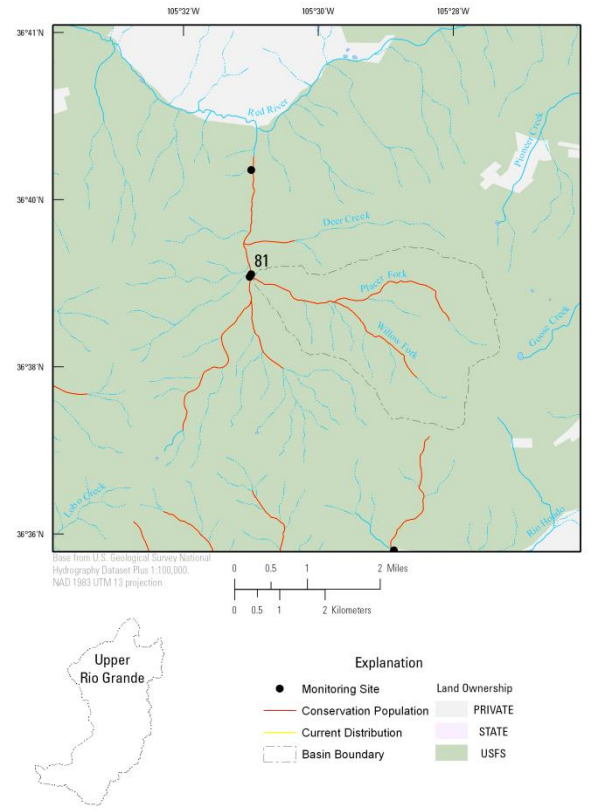


Figure 2. Location of monitoring site on Placer Fork.

Population Information

Genetic Status: Unaltered

Non-Natives: Brown trout

Barrier: Complete barrier present

Land Ownership:

USFS: 100.0%

State: 0.0%

Private: 0.0%

Other: 0.0%

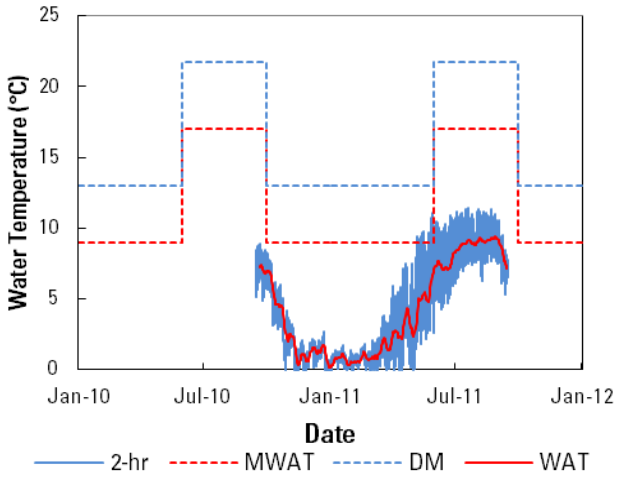


Figure 3. Two hour running mean (blue line) and weekly average temperature (red line) at monitoring site on Placer Fork. Dashed lines represent Colorado Tier 1 Cold Water Temperature criteria.

Table 1. Air and stream temperature metrics and discharge in 2010 and 2011.

	Year	2-hr Min (°C)	2-hr Max (°C)	Min WAT (°C)	Max WAT (°C)	Baseflow Discharge (cfs)
Water	2010[a]	NA	NA	NA	NA	3.10[e]
Data	2011[b]	-0.03	11.42	0.12	9.43	1.11[f]
Air	2010[c]	NA	30.82	NA	15.76	-----
Data	2011[d]	Lost	Lost	Lost	Lost	-----

[a]108 days of data (9/15/2010 – 12/31/2010); [b]264 days of data (1/01/2011 – 9/21/2011); [c]102 days of data (6/04/2010 – 9/13/2010); [d]data logger lost in 2011; [e]measured on 9/14/2010 and was not precipitation affected; [f]measured 9/22/2011 and was not precipitation affected

Cabresto Creek

Site ID: 82
HUC: Upper Rio Grande
Deployed: 5/24/2010
Drainage Area: 2,415 ha
Site Elevation: 2852 m
RGCT Population ID: LRG1-09

Figure 1. Lower monitoring site on Cabresto Creek.

Population Information

Genetic Status: Unaltered

Non-Natives: Brook trout

Barrier: No barrier present

Land Ownership:

USFS: 100.0%

State: 0.0%

Private: 0.0%

Other: 0.0%

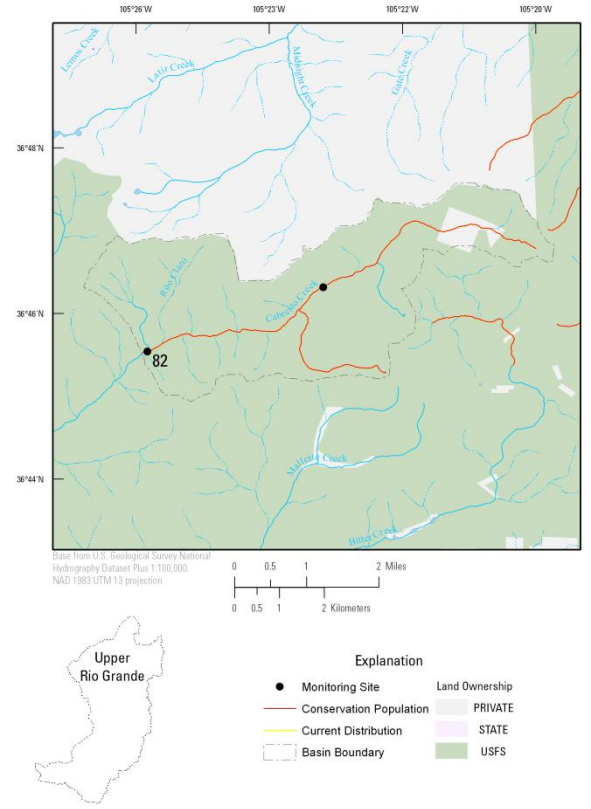


Figure 2. Location of lower monitoring site on Cabresto Creek.

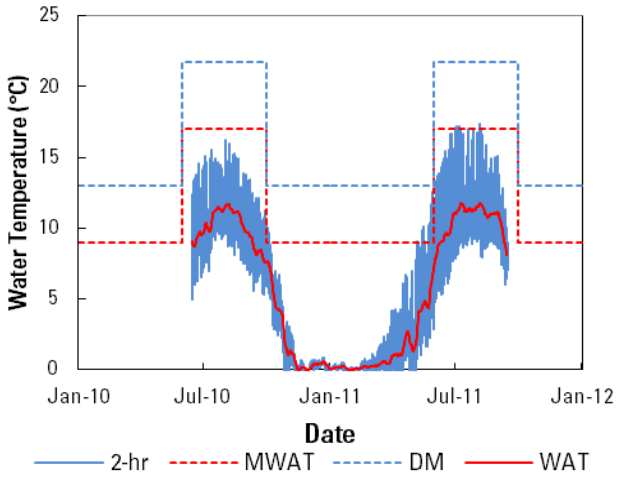


Figure 3. Two hour running mean (blue line) and weekly average temperature (red line) at lower monitoring site on Cabresto Creek. Dashed lines represent Colorado Tier 1 Cold Water Temperature criteria.

Table 1. Air and stream temperature metrics and discharge in 2010 and 2011.

	Year	2-hr Min (°C)	2-hr Max (°C)	Min WAT (°C)	Max WAT (°C)	Baseflow Discharge (cfs)
Water	2010[a]	-0.06	16.23	-0.03	11.66	0.43[e]
Data	2011[b]	-0.05	17.40	-0.02	11.81	0.55[f]
Air	2010[c]	-19.42	NA	-10.11	NA	-----
Data	2011[d]	-30.37	27.74	-15.95	15.53	-----

[a]211 days of data (6/04/2010 – 12/31/2010); [b]263 days of data (1/01/2011 – 9/20/2011); [c]211 days of data (6/04/2010 – 12/31/2010); [d]263 days of data (1/01/2011 – 9/20/2011); [e]measured on 9/16/2010 and was not precipitation affected; [f]measured 9/21/2011 and was not precipitation affected

Cabresto Creek

Site ID: 83
HUC: Upper Rio Grande
Deployed: 9/18/2010
Drainage Area: 906 ha
Site Elevation: 3088 m
RGCT Population ID: LRG1-09

Figure 1. Upper monitoring site on Cabresto Creek.

Population Information

Genetic Status: Unaltered

Non-Natives: Brook trout

Barrier: No barrier present

Land Ownership:

USFS: 100.0%

State: 0.0%

Private: 0.0%

Other: 0.0%

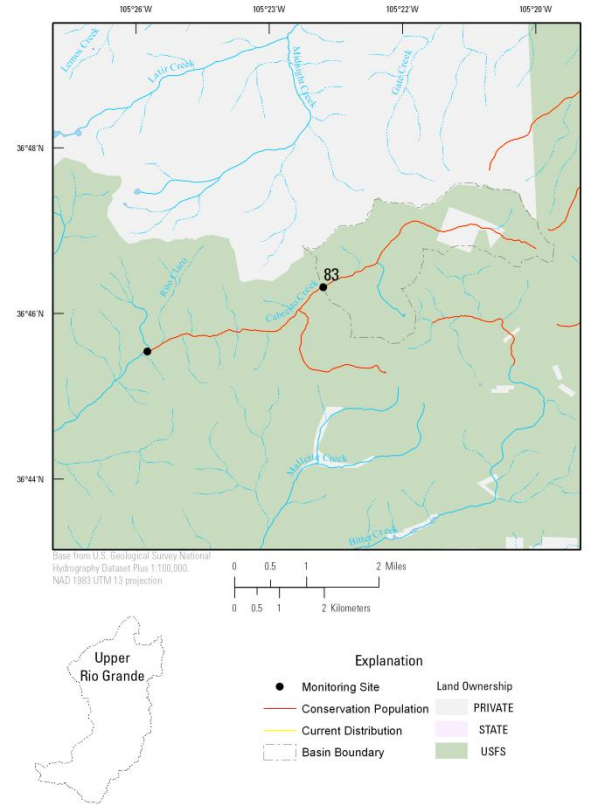


Figure 2. Location of upper monitoring site on Cabresto Creek.

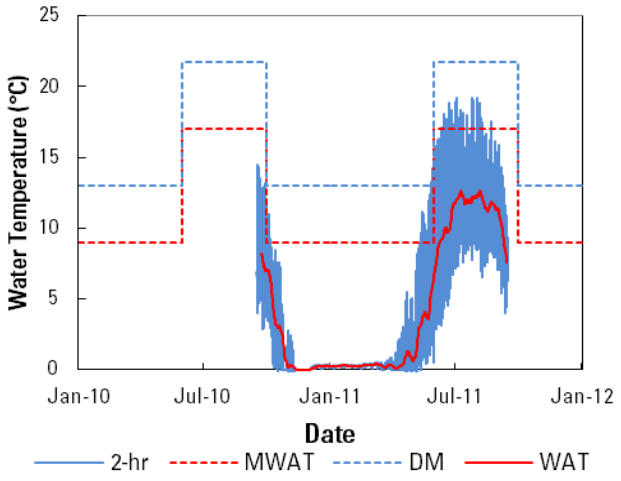


Figure 3. Two hour running mean (blue line) and weekly average temperature (red line) at upper monitoring site on Cabresto Creek. Dashed lines represent Colorado Tier 1 Cold Water Temperature criteria.

Table 1. Air and stream temperature metrics and discharge in 2010 and 2011.

	Year	2-hr Min (°C)	2-hr Max (°C)	Min WAT (°C)	Max WAT (°C)	Baseflow Discharge (cfs)
Water	2010[a]	NA	NA	NA	NA	0.09[e]
Data	2011[b]	-0.07	19.20	0.06	12.65	0.09[f]
Air	2010[c]	-21.40	23.79	-10.54	12.99	-----
Data	2011[d]	-32.45	23.17	-16.01	14.61	-----

[a]105 days of data (9/18/2010 – 12/31/2010); [b]263 days of data (1/01/2011 – 9/20/2011); [c]211 days of data (6/04/2010 – 12/31/2010); [d]263 days of data (1/01/2011 – 9/20/2011); [e]measured on 9/16/2010 and was not precipitation affected; [f]measured 9/21/2011 and was not precipitation affected

Comanche Creek

Site ID: 84
HUC: Upper Rio Grande
Deployed: 5/24/2010
Drainage Area: 10,941 ha
Site Elevation: 2728 m
RGCT Population ID: LRG1-07

Figure 1. Monitoring site 1 on Comanche Creek.

Population Information

Genetic Status: > 1% and ≤ 10%

Non-Natives: Rainbow trout, White sucker

Barrier: No barrier present

Land Ownership:

USFS: 100.0%

State: 0.0%

Private: 0.0%

Other: 0.0%

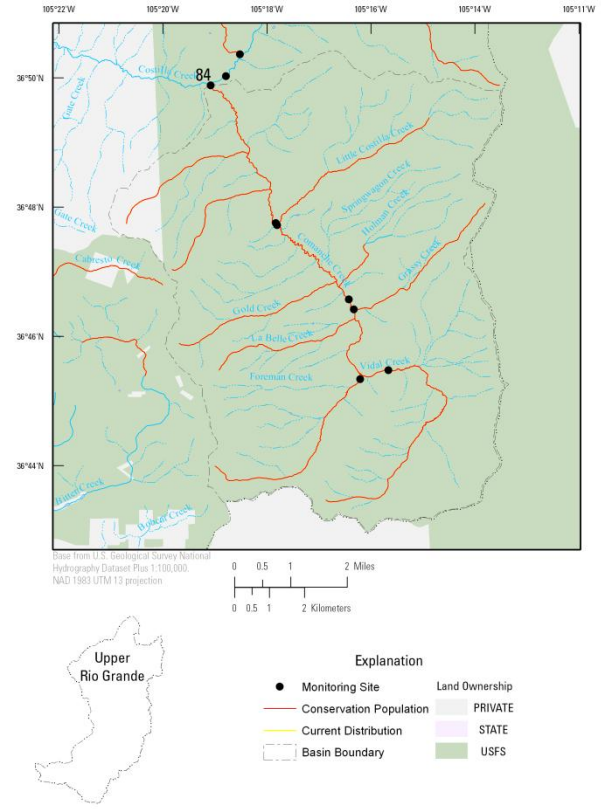


Figure 2. Location of monitoring site 1 on Comanche Creek.

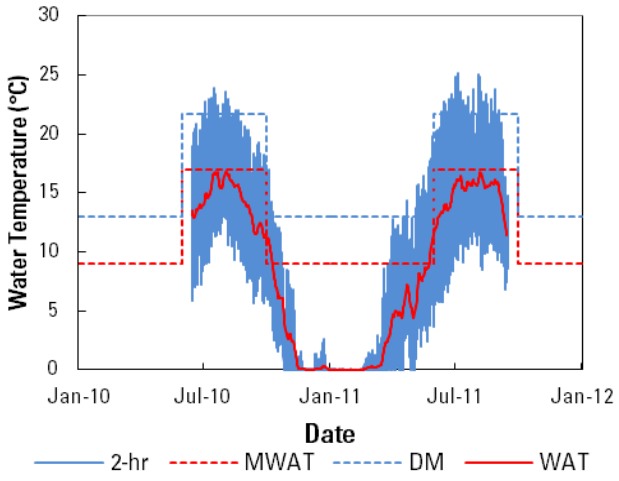


Figure 3. Two hour running mean (blue line) and weekly average temperature (red line) at monitoring site 1 on Comanche Creek. Dashed lines represent Colorado Tier 1 Cold Water Temperature criteria.

Table 1. Air and stream temperature metrics and discharge in 2010 and 2011.

	Year	2-hr Min (°C)	2-hr Max (°C)	Min WAT (°C)	Max WAT (°C)	Baseflow Discharge (cfs)
Water	2010[a]	-0.06	23.83	-0.01	16.77	0.76[e]
Data	2011[b]	-0.05	25.13	-0.03	16.70	0.70[f]
Air	2010[c]	-20.26	27.89	-6.87	16.05	-----
Data	2011[d]	-39.64	28.07	-13.38	16.67	-----

[a]211 days of data (6/04/2010 – 12/31/2010); [b]264 days of data (1/01/2011 – 9/21/2011); [c]211 days of data (6/04/2010 – 12/31/2010); [d]264 days of data (1/01/2011 – 9/21/2011); [e]measured on 9/16/2010 and was not precipitation affected; [f]measured 9/22/2011 and was not precipitation affected

Comanche Creek

Site ID: 85
HUC: Upper Rio Grande
Deployed: 9/16/2010
Drainage Area: 7,440 ha
Site Elevation: 2780 m
RGCT Population ID: LRG1-06

Figure 1. Monitoring site 2 on Comanche Creek.

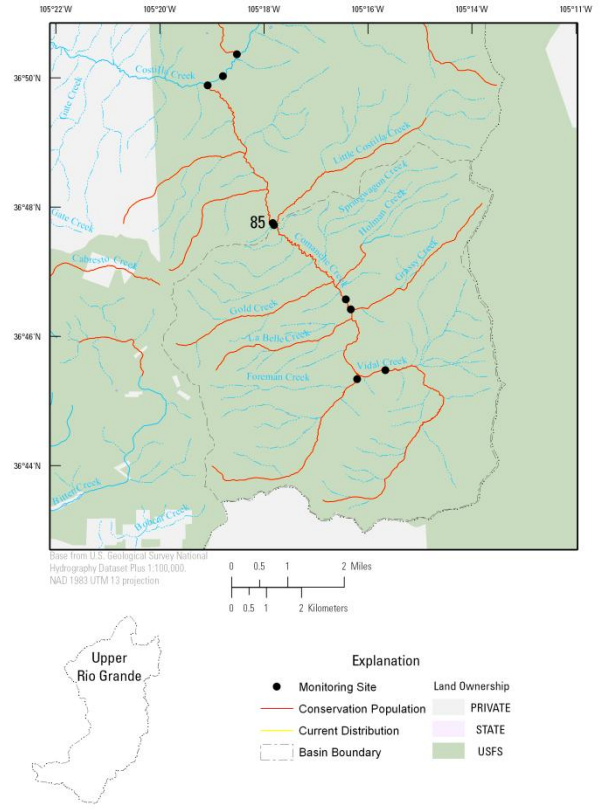


Figure 2. Location of monitoring site 2 on Comanche Creek.

Population Information

Genetic Status: Unaltered

Non-Natives: None present

Barrier: Complete barrier present

Land Ownership:

USFS: 100.0%

State: 0.0%

Private: 0.0%

Other: 0.0%

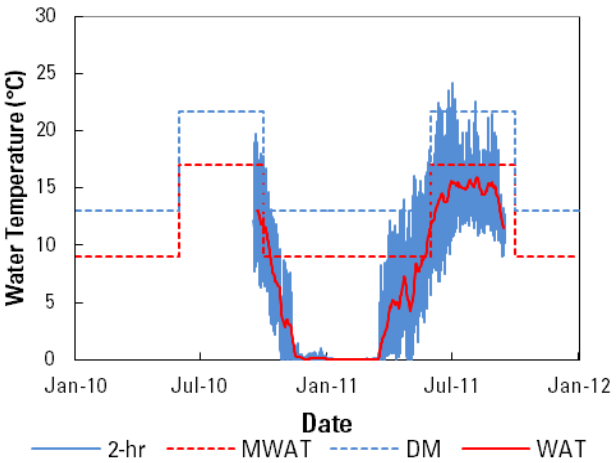


Figure 3. Two hour running mean (blue line) and weekly average temperature (red line) at monitoring site 2 on Comanche Creek. Dashed lines represent Colorado Tier 1 Cold Water Temperature criteria.

Table 1. Air and stream temperature metrics and discharge in 2010 and 2011.

	Year	2-hr Min (°C)	2-hr Max (°C)	Min WAT (°C)	Max WAT (°C)	Baseflow Discharge (cfs)
Water	2010[a]	NA	NA	NA	NA	0.80[e]
Data	2011[b]	0.00	24.12	0.02	15.95	0.25[f]
Air	2010[c]	-22.58	27.68	-7.56	15.74	-----
Data	2011[d]	-41.79	27.54	-14.46	17.16	-----

[a]107 days of data (9/16/2010 – 12/31/2010); [b]265 days of data (1/01/2011 – 9/22/2011); [c]211 days of data (6/04/2010 – 12/31/2010); [d]265 days of data (1/01/2011 – 9/22/2011); [e]measured on 9/16/2010 and was not precipitation affected; [f]measured 9/23/2011 and was not precipitation affected

Little Costilla Creek

Site ID: 86
HUC: Upper Rio Grande
Deployed: 5/24/2010
Drainage Area: 1,398 ha
Site Elevation: 2785 m
RGCT Population ID: LRG1-06

Figure 1. Monitoring site on Little Costilla Creek.

Population Information

Genetic Status: Unaltered

Non-Natives: None present

Barrier: Complete barrier present

Land Ownership:

USFS: 100.0%

State: 0.0%

Private: 0.0%

Other: 0.0%

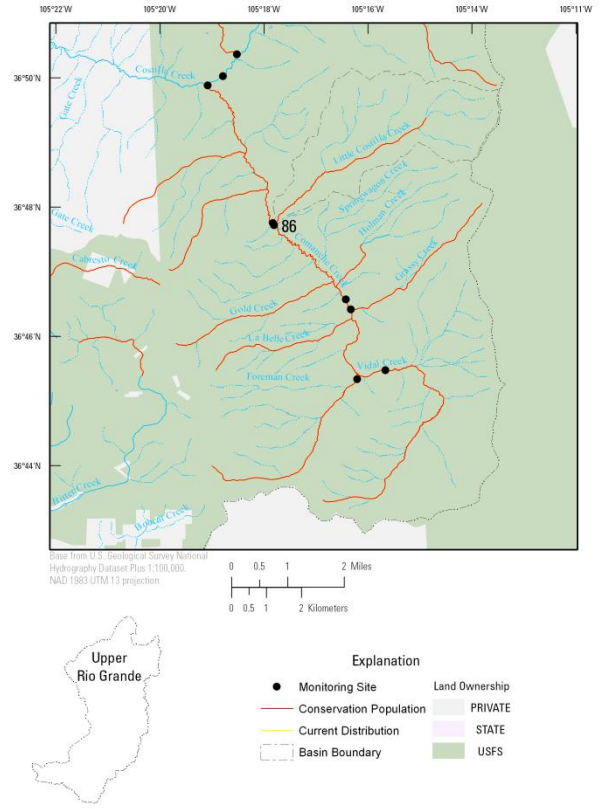


Figure 2. Location of monitoring site on Little Costilla Creek.

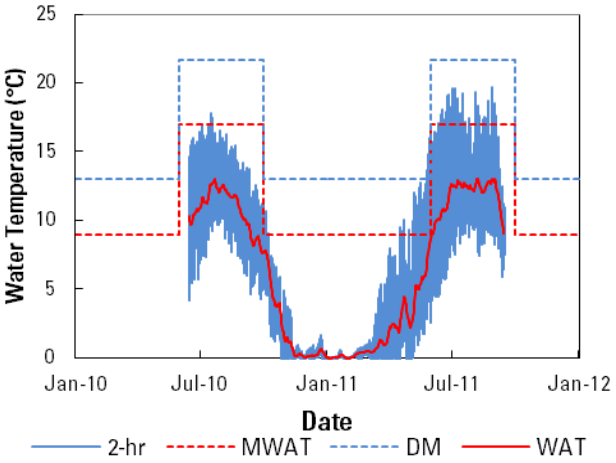


Figure 3. Two hour running mean (blue line) and weekly average temperature (red line) at monitoring site on Little Costilla Creek. Dashed lines represent Colorado Tier 1 Cold Water Temperature criteria.

Table 1. Air and stream temperature metrics and discharge in 2010 and 2011.

	Year	2-hr Min (°C)	2-hr Max (°C)	Min WAT (°C)	Max WAT (°C)	Baseflow Discharge (cfs)
Water	2010[a]	-0.06	17.76	0.04	12.98	0.47[e]
Data	2011[b]	-0.06	19.65	-0.03	13.03	0.32[f]
Air	2010[c]	-22.58	27.68	-7.56	15.74	-----
Data	2011[d]	-41.79	27.54	-14.56	17.16	-----

[a]211 days of data (6/04/2010 – 12/31/2010); [b]265 days of data (1/01/2011 – 9/22/2011); [c]211 days of data (6/04/2010 – 12/31/2010); [d]265 days of data (1/01/2011 – 9/22/2011); [e]measured on 9/16/2010 and was not precipitation affected; [f]measured 9/23/2011 and was not precipitation affected

Comanche Creek

Site ID: 87
HUC: Upper Rio Grande
Deployed: 5/26/2010
Drainage Area: 5,078 ha
Site Elevation: 2816 m
RGCT Population ID: LRG1-06

Figure 1. Monitoring site 3 on Comanche Creek.

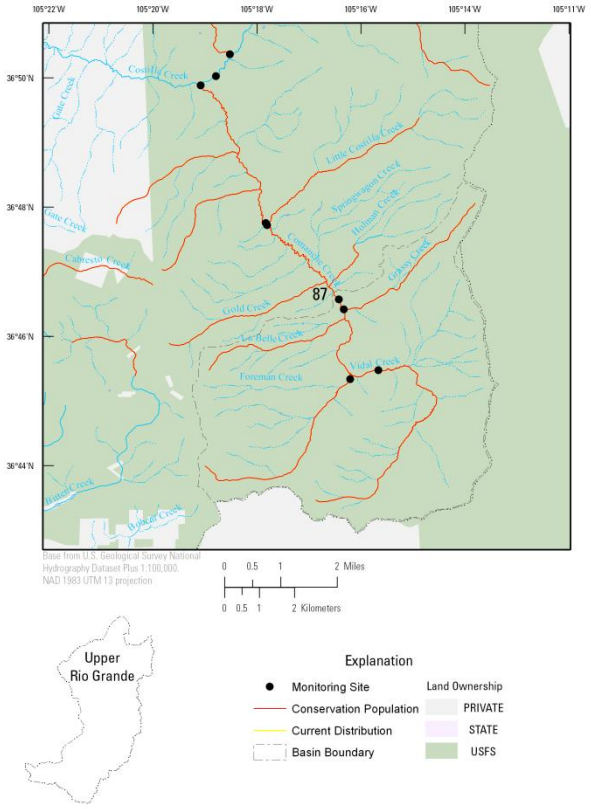


Figure 2. Location of monitoring site 3 on Comanche Creek.

Population Information

Genetic Status: Unaltered

Non-Natives: None present

Barrier: Complete barrier present

Land Ownership:

USFS: 100.0%

State: 0.0%

Private: 0.0%

Other: 0.0%

Table 1. Air and stream temperature metrics and discharge in 2010 and 2011.

	Year	2-hr Min (°C)	2-hr Max (°C)	Min WAT (°C)	Max WAT (°C)	Baseflow Discharge (cfs)
Water	2010[a]	Exposed	Exposed	Exposed	Exposed	0.08[e]
Data	2011[b]	Exposed	Exposed	Exposed	Exposed	0.15[f]
Air	2010[c]	-23.04	27.20	-7.10	15.31	-----
Data	2011[d]	-40.60	26.84	-14.37	16.63	-----

[a]data logger exposed to air in 2010 and no data is presented; [b]data logger exposed to air in 2011 and no data is presented; [c]211 days of data (6/04/2010–12/31/2010); [d]265 days of data (1/01/2011– 9/22/2011); [e]measured on 9/15/2010 and was not precipitation affected; [f]measured 9/23/2011 and was not precipitation affected

Grassy Creek

Site ID: 88
HUC: Upper Rio Grande
Deployed: 9/15/2010
Drainage Area: 474 ha
Site Elevation: 2825 m
RGCT Population ID: LRG1-06

Figure 1. Monitoring site on Grassy Creek.

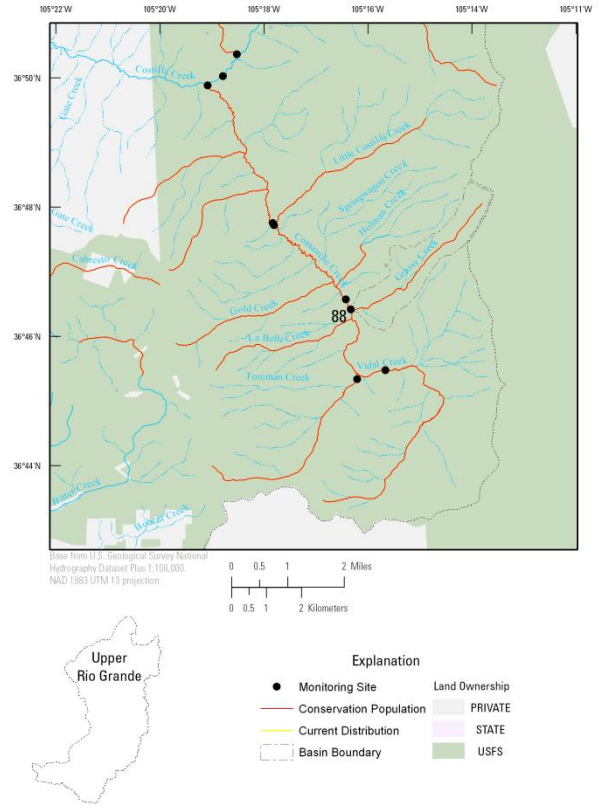


Figure 2. Location of monitoring site on Grassy Creek.

Population Information

Genetic Status: Unaltered

Non-Natives: None present

Barrier: Complete barrier present

Land Ownership:

USFS: 100.0%

State: 0.0%

Private: 0.0%

Other: 0.0%

Table 1. Air and stream temperature metrics and discharge in 2010 and 2011.

	Year	2-hr Min (°C)	2-hr Max (°C)	Min WAT (°C)	Max WAT (°C)	Baseflow Discharge (cfs)
Water	2010[a]	Lost	Lost	Lost	Lost	NA[e]
Data	2011[b]	Lost	Lost	Lost	Lost	NA[f]
Air	2010[c]	-21.37	NA	-7.90	NA	-----
Data	2011[d]	-41.45	27.81	-14.89	16.80	-----

[a]data logger lost in 2010 and no data is presented; [b]data logger lost in 2011 and no data is presented; [c]108 days of data (9/15/2010 – 12/31/2010); [d]265 days of data (1/01/2011 – 9/22/2011); [e]no summer baseflow measured in 2010; [f]no summer baseflow measured in 2011

Comanche Creek

Site ID: 89
HUC: Upper Rio Grande
Deployed: 5/26/2010
Drainage Area: 1,352 ha
Site Elevation: 2852 m
RGCT Population ID: LRG1-06

Figure 1. Monitoring Site 4 on Comanche Creek.

Population Information

Genetic Status: Unaltered

Non-Natives: None present

Barrier: Complete barrier present

Land Ownership:

USFS: 100.0%

State: 0.0%

Private: 0.0%

Other: 0.0%

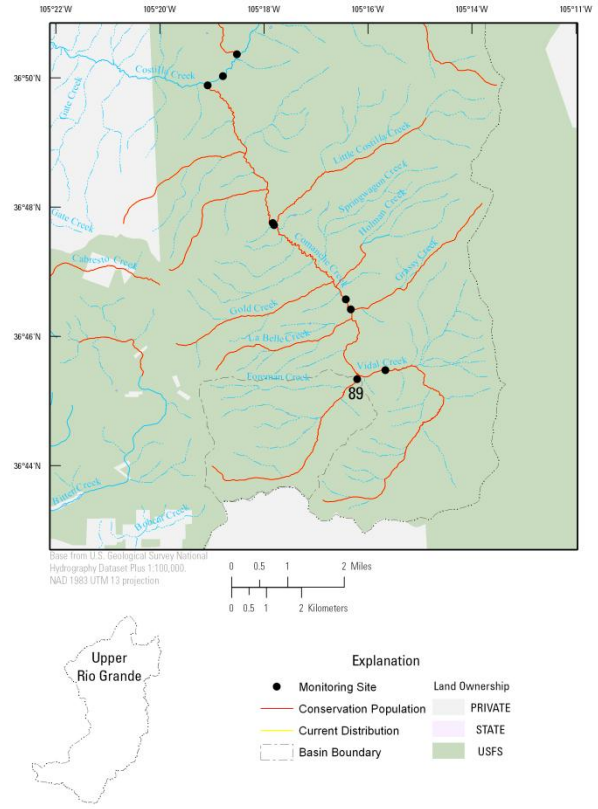


Figure 2. Location of monitoring site 4 on Comanche Creek.

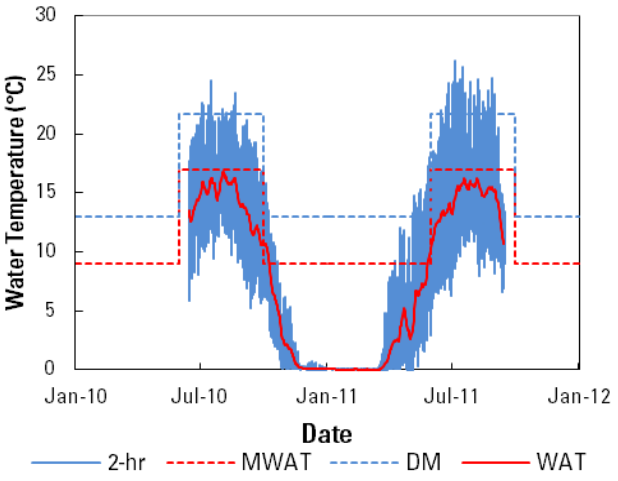


Figure 3. Two hour running mean (blue line) and weekly average temperature (red line) at monitoring site 4 on Comanche Creek. Dashed lines represent Colorado Tier 1 Cold Water Temperature criteria.

Table 1. Air and stream temperature metrics and discharge in 2010 and 2011.

	Year	2-hr Min (°C)	2-hr Max (°C)	Min WAT (°C)	Max WAT (°C)	Baseflow Discharge (cfs)
Water	2010[a]	0.00	24.51	0.04	16.78	0.04[e]
Data	2011[b]	-0.03	26.24	0.00	16.25	0.01[f]
Air	2010[c]	-19.98	26.11	-8.09	15.13	-----
Data	2011[d]	-40.71	27.53	-14.76	16.67	-----

[a]211 days of data (6/04/2010 – 12/31/2010); [b]265 days of data (1/01/2011 – 9/22/2011); [c]211 days of data (6/04/2010 – 12/31/2010); [d]265 days of data (1/01/2011 – 9/22/2011); [e]measured on 9/15/2010 and was not precipitation affected; [f]measured 9/23/2011 and was not precipitation affected

Vidal Creek

Site ID: 90
HUC: Upper Rio Grande
Deployed: 5/26/2010
Drainage Area: 2,447 ha
Site Elevation: 2854 m
RGCT Population ID: LRG1-06

Figure 1. Monitoring site on Vidal Creek.

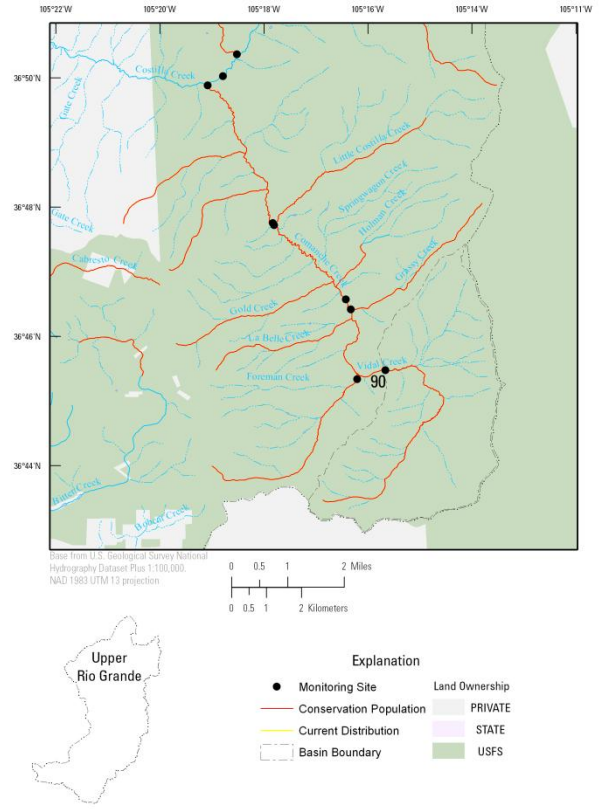


Figure 2. Location of monitoring site on Vidal Creek.

Population Information

Genetic Status: Unaltered

Non-Natives: None present

Barrier: Complete barrier present

Land Ownership:

USFS: 100.0%

State: 0.0%

Private: 0.0%

Other: 0.0%

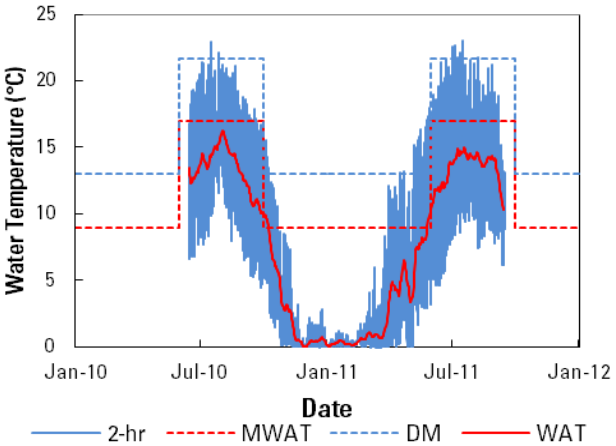


Figure 3. Two hour running mean (blue line) and weekly average temperature (red line) at monitoring site on Vidal Creek. Dashed lines represent Colorado Tier 1 Cold Water Temperature criteria.

Table 1. Air and stream temperature metrics and discharge in 2010 and 2011.

	Year	2-hr Min (°C)	2-hr Max (°C)	Min WAT (°C)	Max WAT (°C)	Baseflow Discharge (cfs)
Water	2010[a]	-0.02	22.90	0.06	16.30	0.04[e]
Data	2011[b]	-0.03	22.99	0.06	15.01	0.02[f]
Air	2010[c]	-20.57	26.33	-8.49	14.72	-----
Data	2011[d]	-41.85	29.20	-15.09	16.83	-----

[a]211 days of data (6/04/2010 – 12/31/2010); [b]265 days of data (1/01/2011 – 9/22/2011); [c]211 days of data (6/04/2010 – 12/31/2010); [d]265 days of data (1/01/2011 – 9/22/2011); [e]measured on 9/15/2010 and was not precipitation affected; [f]measured 9/23/2011 and was not precipitation affected

Costilla Creek

Site ID: 91
HUC: Upper Rio Grande
Deployed: 9/15/2010
Drainage Area: 17,526 ha
Site Elevation: 2729 m
RGCT Population ID: NA

Figure 1. Monitoring site 1 on Costilla creek.

Population Information

Genetic Status: NA

Non-Natives: NA

Barrier: NA

Land Ownership:

USFS: 21.8%

State: 0.0%

Private: 78.0%

Other: 0.0%

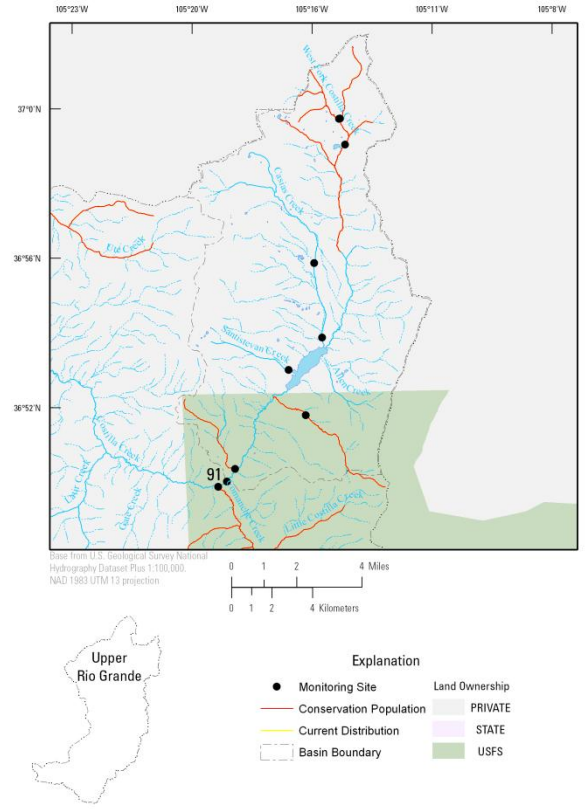


Figure 2. Location of monitoring site 1 on Costilla Creek.

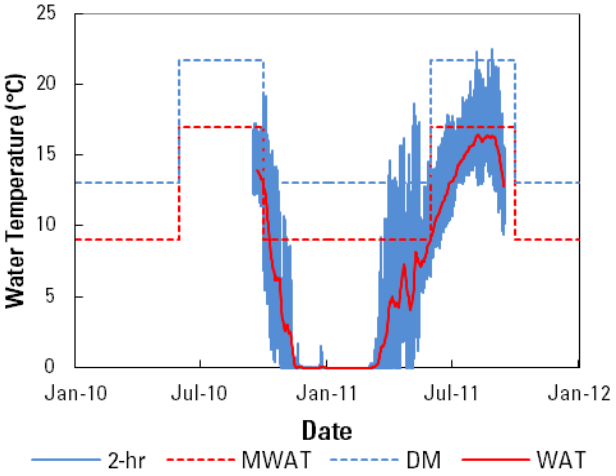


Figure 3. Two hour running mean (blue line) and weekly average temperature (red line) at monitoring site 1 on Costilla Creek. Dashed lines represent Colorado Tier 1 Cold Water Temperature criteria.

Table 1. Air and stream temperature metrics and discharge in 2010 and 2011.

	Year	2-hr Min (°C)	2-hr Max (°C)	Min WAT (°C)	Max WAT (°C)	Baseflow Discharge (cfs)
Water	2010[a]	NA	NA	NA	NA	NA[e]
Data	2011[b]	-0.10	22.51	-0.07	16.41	8.66[f]
Air	2010[c]	NA	NA	NA	NA	-----
Data	2011[d]	-41.33	26.66	-13.74	16.26	-----

[a]107 days of data (9/16/2010 – 12/31/2010); [b]264 days of data (1/01/2011 – 9/21/2011); [c]107 days of data (9/16/2010 – 12/31/2010); [d]264 days of data (1/01/2011 – 9/21/2011); [e]no summer baseflow measured in 2010; [f]measured 9/22/2011 and was not precipitation affected

La Queva Creek

Site ID: 92
HUC: Upper Rio Grande
Deployed: 9/23/2011
Drainage Area: 852 ha
Site Elevation: 2745 m
RGCT Population ID: LRG1-05

Figure 1. Location of monitoring site on La Queva Creek.

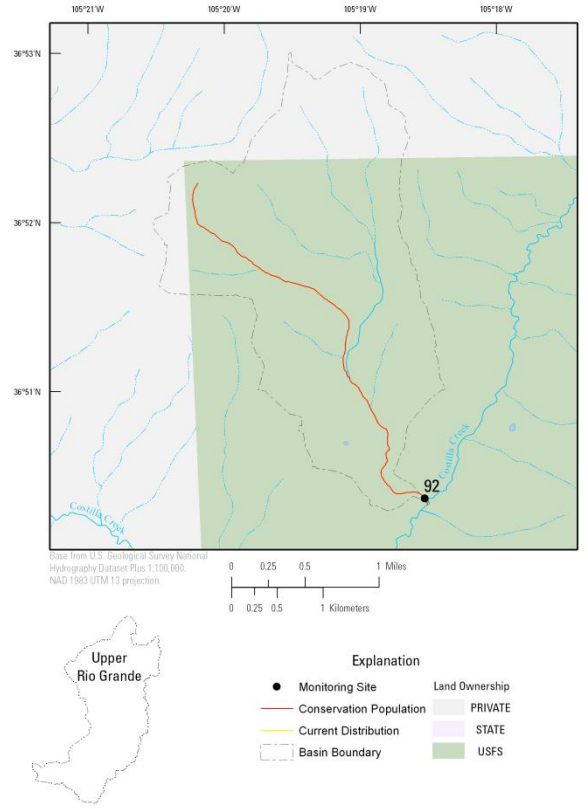


Figure 2. Location of monitoring site on La Queva Creek.

Population Information

Genetic Status: > 1% and ≤ 10%

Non-Natives: None present

Barrier: No barrier present

Land Ownership:

USFS: 80.3%

State: 0.0%

Private: 19.7%

Other: 0.0%

Table 1. Air and stream temperature metrics and discharge in 2010 and 2011.

	Year	2-hr Min (°C)	2-hr Max (°C)	Min WAT (°C)	Max WAT (°C)	Baseflow Discharge (cfs)
Water	2010[a]	NA	NA	NA	NA	NA[e]
Data	2011[b]	NA	NA	NA	NA	0.09[f]
Air	2010[c]	NA	NA	NA	NA	-----
Data	2011[d]	NA	NA	NA	NA	-----

[a]no data collected in 2010; [b]no data collected in 2011; [c]no data collected in 2010; [d]no data collected in 2011; [e]no summer baseflow measured in 2010; [f]measured 9/23/2011 and was precipitation affected

Powderhouse Creek

Site ID: 93
HUC: Upper Rio Grande
Deployed: 5/26/2010
Drainage Area: 903 ha
Site Elevation: 2948 m
RGCT Population ID: LRG1-03

Figure 1. Monitoring site on Powderhouse Creek.

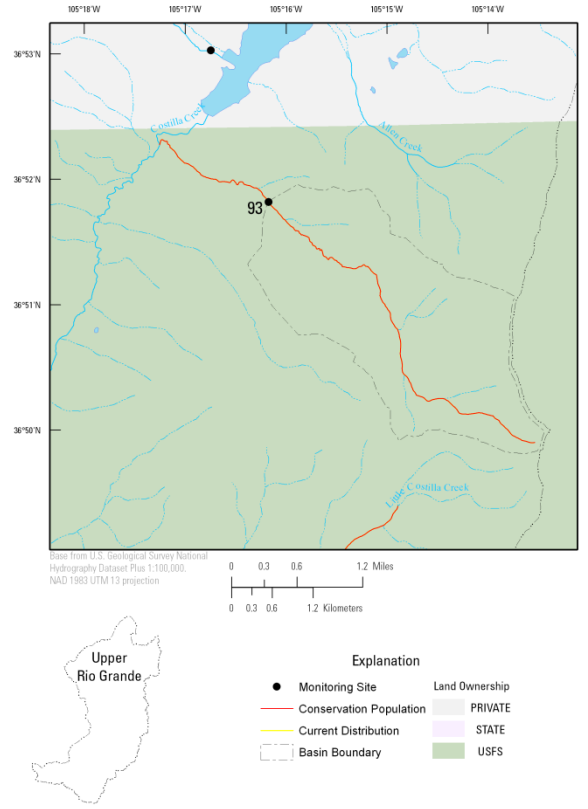


Figure 2. Location of monitoring site on Powderhouse Creek.

Population Information

Genetic Status: Unaltered

Non-Natives: None present

Barrier: Complete barrier present

Land Ownership:

USFS: 100.0%

State: 0.0%

Private: 0.0%

Other: 0.0%

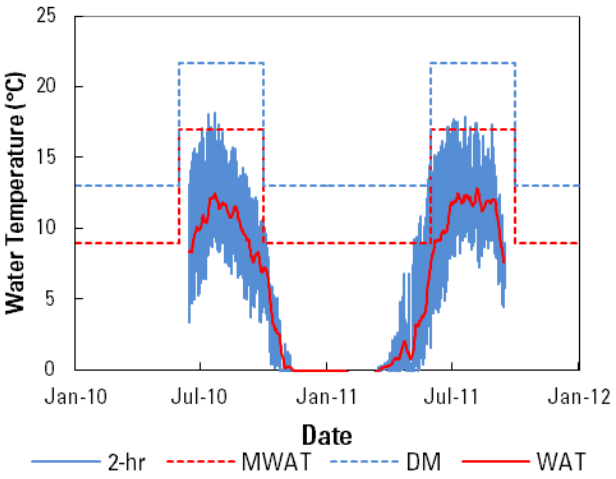


Figure 3. Two hour running mean (blue line) and weekly average temperature (red line) at monitoring site on Powderhouse Creek. Dashed lines represent Colorado Tier 1 Cold Water Temperature criteria.

Table 1. Air and stream temperature metrics and discharge in 2010 and 2011.

	Year	2-hr Min (°C)	2-hr Max (°C)	Min WAT (°C)	Max WAT (°C)	Baseflow Discharge (cfs)
Water	2010[a]	-0.12	18.19	-0.09	12.50	0.16[e]
Data	2011[b]	-0.65	17.89	-0.48	12.84	0.10[f]
Air	2010[c]	-19.85	25.26	-9.31	13.75	-----
Data	2011[d]	-34.85	24.97	-14.61	15.83	-----

[a]211 days of data (6/04/2010 – 12/31/2010); [b]264 days of data (1/01/2011 – 9/21/2011); [c]211 days of data (6/04/2010 – 12/31/2010); [d]264 days of data (1/01/2011 – 9/21/2011); [e]measured on 9/14/2010 and was not precipitation affected; [f]measured 9/22/2011 and was not precipitation affected

Santastievan Creek

Site ID: 94
HUC: Upper Rio Grande
Deployed: 9/25/2010
Drainage Area: 592 ha
Site Elevation: 2885 m
RGCT Population ID: NA

Figure 1. Monitoring site on Santastievan Creek.

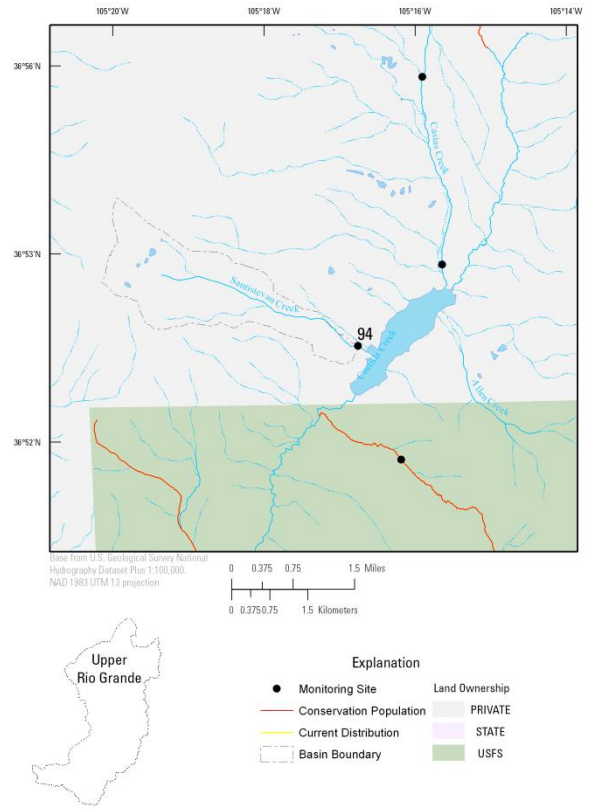


Figure 2. Location of monitoring site on Santastievan Creek.

Population Information

Genetic Status: NA

Non-Natives: Fishless

Barrier: Complete barrier present

Land Ownership:

USFS: 0.0%

State: 0.0%

Private: 100.0%

Other: 0.0%

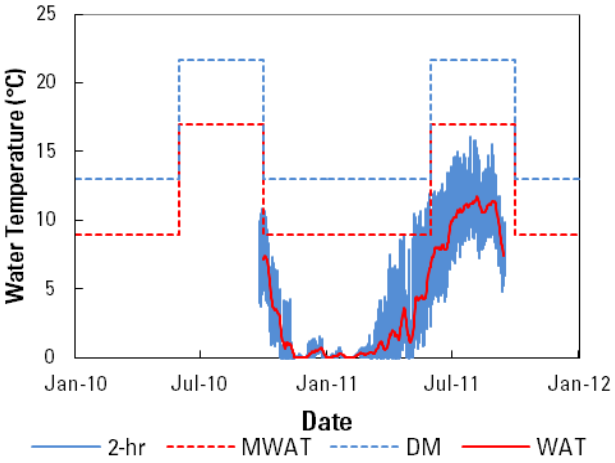


Figure 3. Two hour running mean (blue line) and weekly average temperature (red line) at monitoring site on Santastievan Creek. Dashed lines represent Colorado Tier 1 Cold Water Temperature criteria.

Table 1. Air and stream temperature metrics and discharge in 2010 and 2011.

	Year	2-hr Min (°C)	2-hr Max (°C)	Min WAT (°C)	Max WAT (°C)	Baseflow Discharge (cfs)
Water	2010[a]	NA	NA	NA	NA	0.75[e]
Data	2011[b]	-0.03	16.12	0.03	11.75	0.54[f]
Air	2010[c]	NA	25.87	NA	15.39	-----
Data	2011[d]	Lost	Lost	Lost	Lost	-----

[a]98 days of data (9/25/2010 – 12/31/2010); [b]269 days of data (1/01/2011 – 9/26/2011); [c]112 days of data (6/04/2010 – 9/23/2010); [d]data logger lost in 2011 and no data is presented; [e]measured on 9/24/2010 and was precipitation affected; [f]measured 9/27/2011 and was not precipitation affected

Casias Creek

Site ID: 95
HUC: Upper Rio Grande
Deployed: 5/25/2010
Drainage Area: 4,157 ha
Site Elevation: 2885 m
RGCT Population ID: NA

Figure 1. Lower monitoring site on Casias Creek.

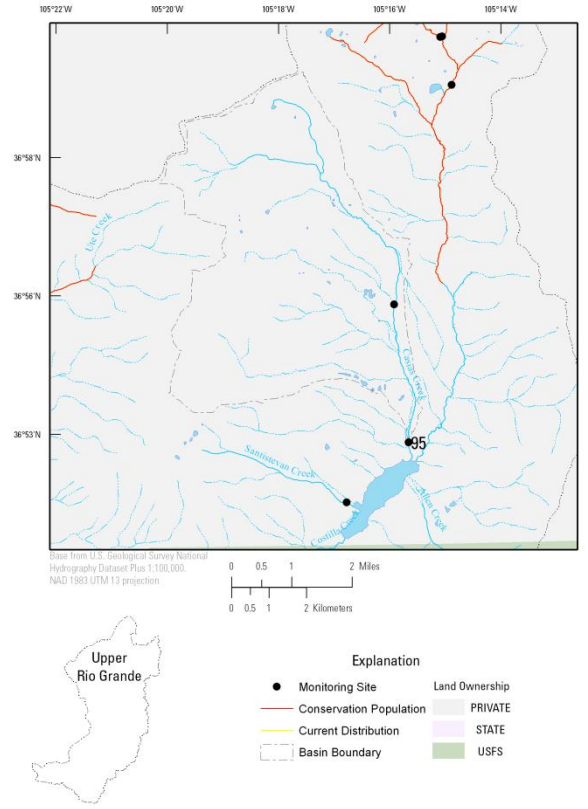


Figure 2. Location of lower monitoring site on Casias Creek.

Population Information

Genetic Status: NA

Non-Natives: NA

Barrier: NA

Land Ownership:

USFS: 0.0%

State: 0.0%

Private: 100.0%

Other: 0.0%

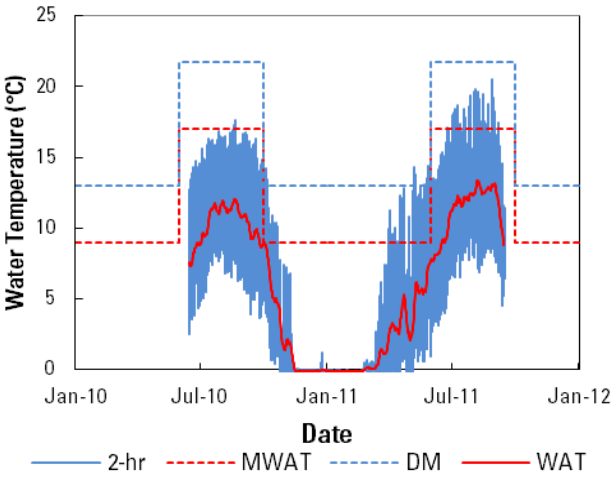


Figure 3. Two hour running mean (blue line) and weekly average temperature (red line) at lower monitoring site on Casias Creek. Dashed lines represent Colorado Tier 1 Cold Water Temperature criteria.

Table 1. Air and stream temperature metrics and discharge in 2010 and 2011.

	Year	2-hr Min (°C)	2-hr Max (°C)	Min WAT (°C)	Max WAT (°C)	Baseflow Discharge (cfs)
Water	2010[a]	-0.14	17.62	-0.09	12.05	4.83[e]
Data	2011[b]	-0.13	20.48	-0.09	13.38	3.88[f]
Air	2010[c]	-18.88	27.67	-6.81	15.21	-----
Data	2011[d]	-36.37	26.52	-13.75	17.81	-----

[a]211 days of data (6/04/2010 – 12/31/2010); [b]269 days of data (1/01/2011 – 9/26/2011); [c]211 days of data (6/04/2010 – 12/31/2010); [d]269 days of data (1/01/2011 – 9/26/2011); [e]measured on 9/24/2010 and was precipitation affected; [f]measured 9/27/2011 and was not precipitation affected

Casias Creek

Site ID: 96
HUC: Upper Rio Grande
Deployed: 9/25/2010
Drainage Area: 1,883 ha
Site Elevation: 2988 m
RGCT Population ID: NA

Figure 1. Upper monitoring site on Casias Creek.

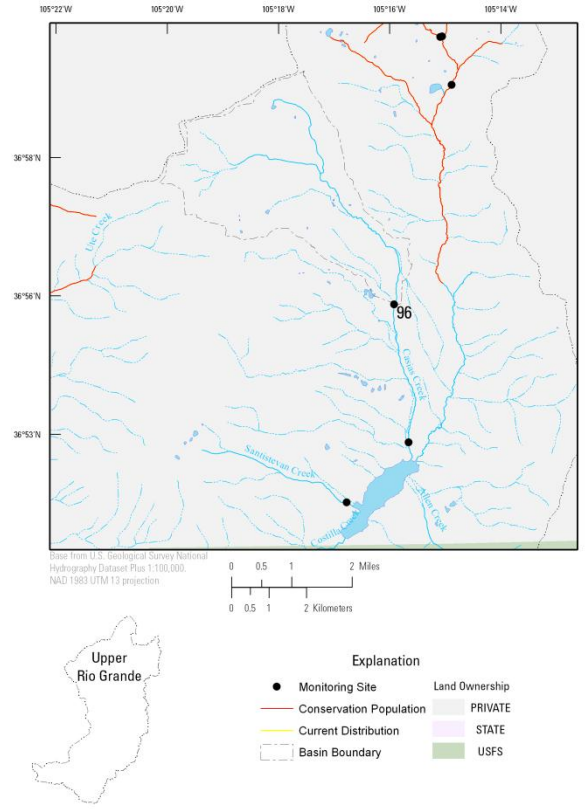


Figure 2. Location of upper monitoring site on Casias Creek.

Population Information

Genetic Status: NA

Non-Natives: NA

Barrier: Complete barrier present

Land Ownership:

USFS: 0.0%

State: 0.0%

Private: 100.0%

Other: 0.0%

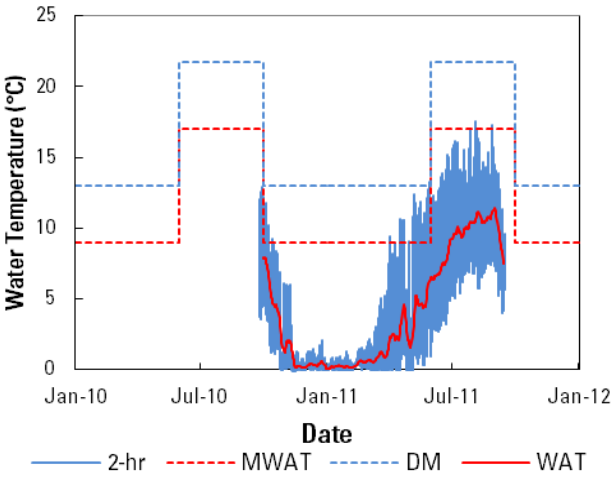


Figure 3. Two hour running mean (blue line) and weekly average temperature (red line) at upper monitoring site on Casias Creek. Dashed lines represent Colorado Tier 1 Cold Water Temperature criteria.

Table 1. Air and stream temperature metrics and discharge in 2010 and 2011.

	Year	2-hr Min (°C)	2-hr Max (°C)	Min WAT (°C)	Max WAT (°C)	Baseflow Discharge (cfs)
Water	2010[a]	NA	NA	NA	NA	1.19[e]
Data	2011[b]	-0.06	17.55	0.07	11.47	2.08[f]
Air	2010[c]	-20.19	24.67	-7.33	14.89	-----
Data	2011[d]	-32.87	24.64	-14.19	16.88	-----

[a]98 days of data (9/25/2010 – 12/31/2010); [b]269 days of data (1/01/2011 – 9/26/2011); [c]211 days of data (6/04/2010 – 12/31/2010); [d]269 days of data (1/01/2011 – 9/26/2011); [e]measured on 9/24/2010 and was precipitation affected; [f]measured 9/27/2011 and was not precipitation affected

Costilla Creek

Site ID: 97
HUC: Upper Rio Grande
Deployed: 5/25/2010
Drainage Area: 1,678 ha
Site Elevation: 3097 m
RGCT Population ID: LRG1-01

Figure 1. Monitoring site 2 on Costilla Creek.

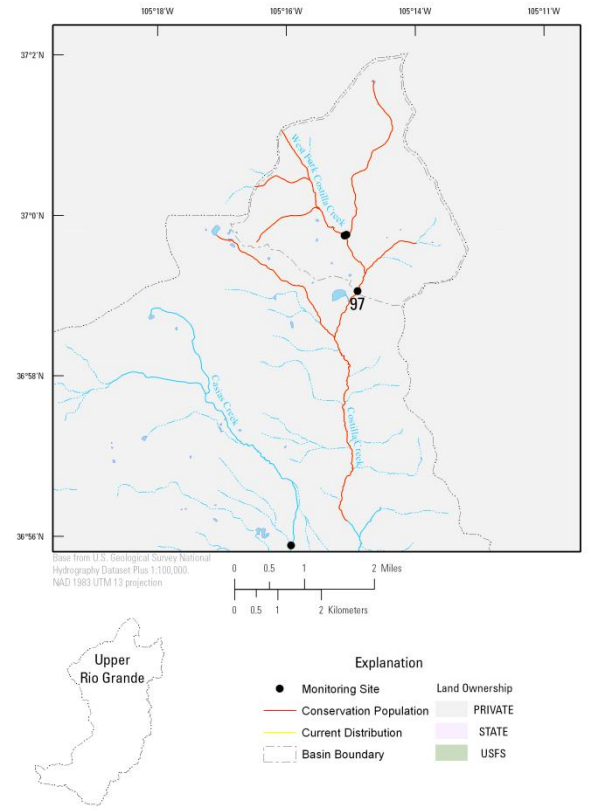


Figure 2. Location of monitoring site 2 on Costilla Creek.

Population Information

Genetic Status: Unaltered

Non-Natives: None present

Barrier: Complete barrier present

Land Ownership:

USFS: 0.0%

State: 0.0%

Private: 100.0%

Other: 0.0%

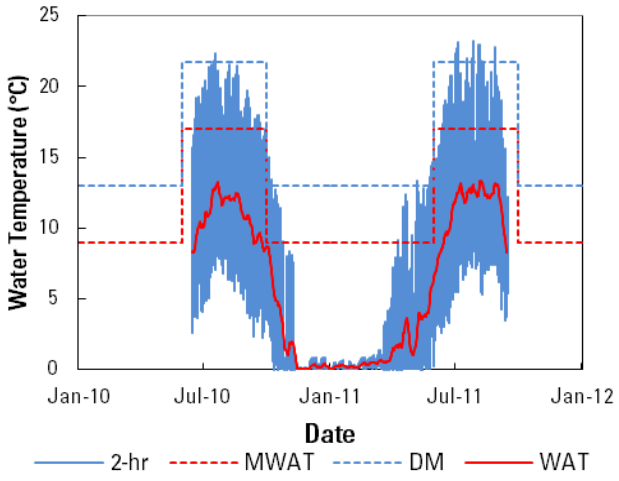


Figure 3. Two hour running mean (blue line) and weekly average temperature (red line) at monitoring site 2 on Costilla Creek. Dashed lines represent Colorado Tier 1 Cold Water Temperature criteria.

Table 1. Air and stream temperature metrics and discharge in 2010 and 2011.

	Year	2-hr Min (°C)	2-hr Max (°C)	Min WAT (°C)	Max WAT (°C)	Baseflow Discharge (cfs)
Water	2010[a]	0.00	22.39	0.04	13.24	0.67[e]
Data	2011[b]	0.00	23.22	0.05	13.38	0.97[f]
Air	2010[c]	-21.15	24.96	-8.20	14.06	-----
Data	2011[d]	-33.62	25.16	-14.43	15.64	-----

[a]211 days of data (6/04/2010 – 12/31/2010); [b]269 days of data (1/01/2011 – 9/26/2011); [c]211 days of data (6/04/2010 – 12/31/2010); [d]269 days of data (1/01/2011 – 9/26/2011); [e]measured on 9/24/2010 and was precipitation affected; [f]measured 9/27/2011 and was not precipitation affected

West Fork Costilla Creek

Site ID: 98
HUC: Upper Rio Grande
Deployed: 5/25/2010
Drainage Area: 481 ha
Site Elevation: 3149 m
RGCT Population ID: LRG1-01

Figure 1. Monitoring site on West Fork Costilla Creek.

Population Information

Genetic Status: Unaltered

Non-Natives: None present

Barrier: Complete barrier present

Land Ownership:

USFS: 0.0%

State: 0.0%

Private: 100.0%

Other: 0.0%

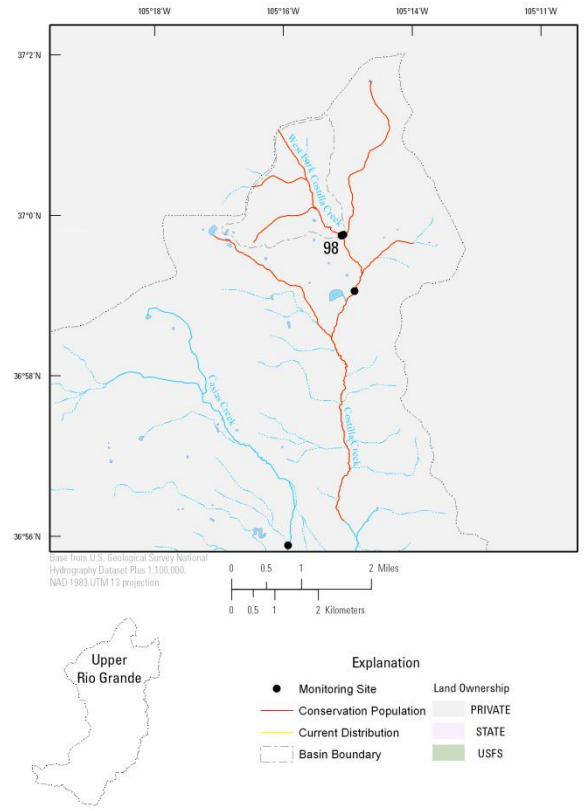


Figure 2. Location of monitoring site on West Fork Costilla Creek.

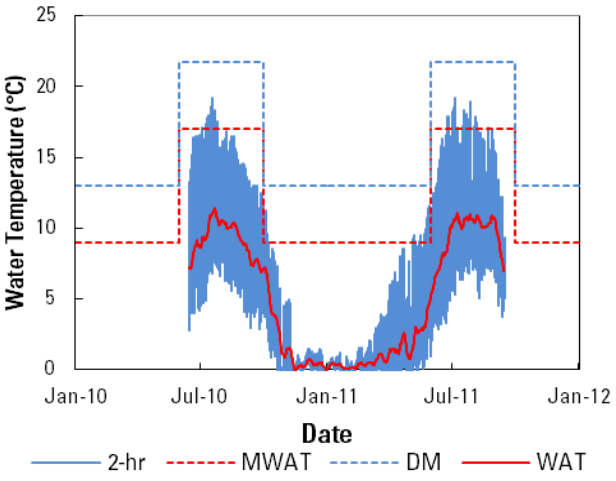


Figure 3. Two hour running mean (blue line) and weekly average temperature (red line) at monitoring site on West Fork Costilla Creek. Dashed lines represent Colorado Tier 1 Cold Water Temperature criteria.

Table 1. Air and stream temperature metrics and discharge in 2010 and 2011.

	Year	2-hr Min (°C)	2-hr Max (°C)	Min WAT (°C)	Max WAT (°C)	Baseflow Discharge (cfs)
Water	2010[a]	-0.06	19.21	-0.02	11.40	0.23[e]
Data	2011[b]	-0.05	19.22	0.01	11.04	0.50[f]
Air	2010[c]	-21.87	24.51	-8.46	13.87	-----
Data	2011[d]	-34.89	24.07	-14.48	15.31	-----

[a]211 days of data (6/04/2010 – 12/31/2010); [b]269 days of data (1/01/2011 – 9/26/2011); [c]211 days of data (6/04/2010 – 12/31/2010); [d]269 days of data (1/01/2011 – 9/26/2011); [e]measured on 9/24/2010 and was precipitation affected; [f]measured 9/27/2011 and was not precipitation affected

East Fork Costilla Creek

Site ID: 99
HUC: Upper Rio Grande
Deployed: 5/25/2010
Drainage Area: 550 ha
Site Elevation: 3149 m
RGCT Population ID: LRG1-01

Figure 1. Monitoring site on East Fork Costilla Creek.

Population Information

Genetic Status: Unaltered

Non-Natives: None present

Barrier: Complete barrier present

Land Ownership:

USFS: 0.0%

State: 0.0%

Private: 100.0%

Other: 0.0%

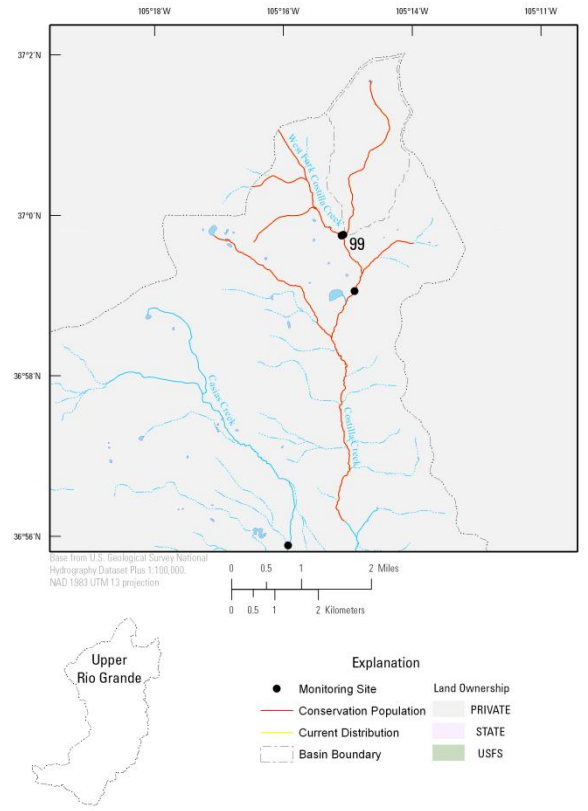


Figure 2. Location of monitoring site on East Fork Costilla Creek.

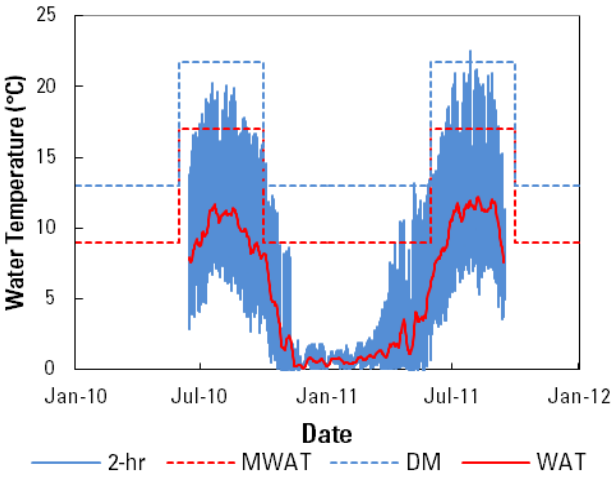


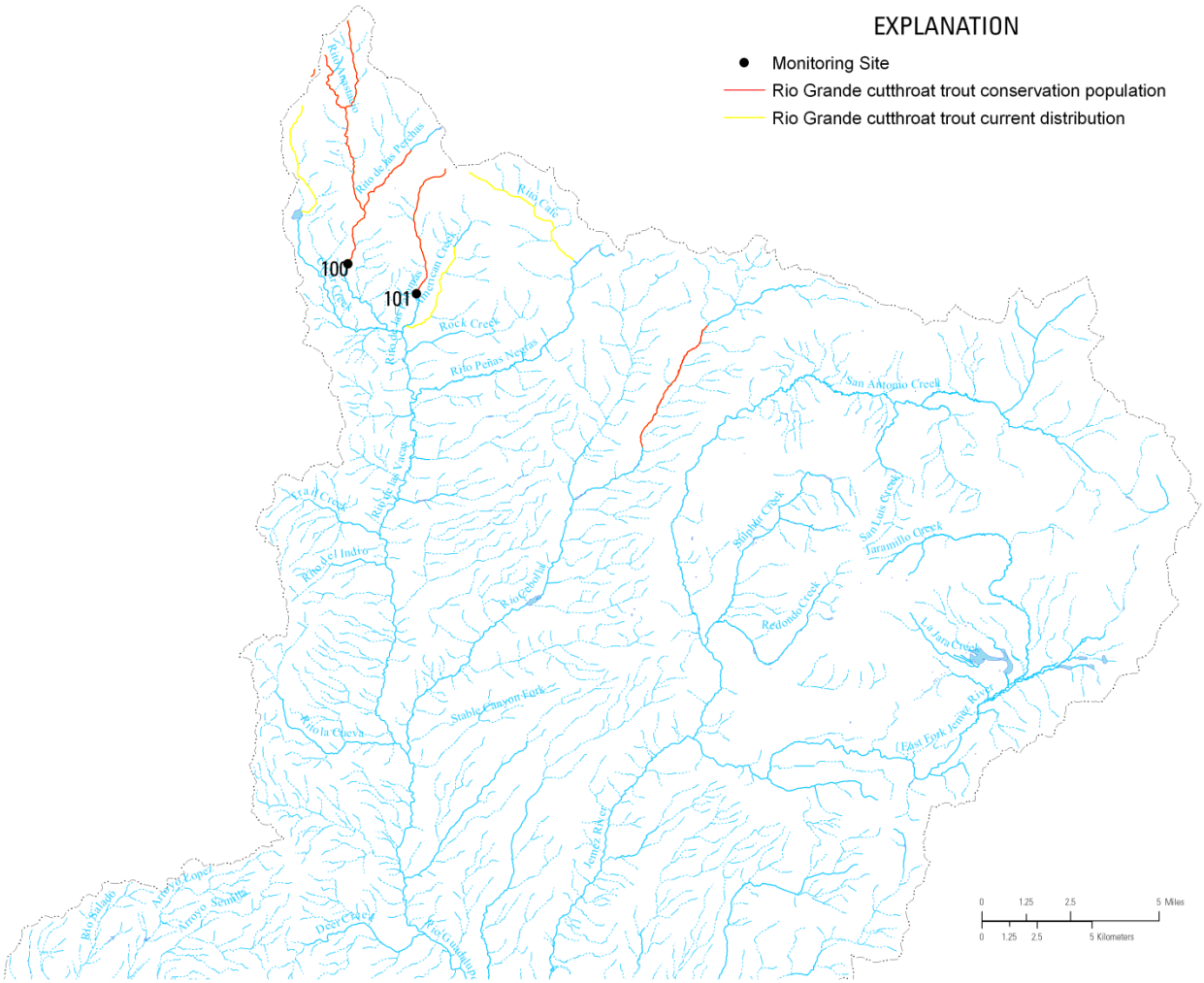
Figure 3. Two hour running mean (blue line) and weekly average temperature (red line) at monitoring site on East Fork Costilla Creek. Dashed lines represent Colorado Tier 1 Cold Water Temperature criteria.

Table 1. Air and stream temperature metrics and discharge in 2010 and 2011.

	Year	2-hr Min (°C)	2-hr Max (°C)	Min WAT (°C)	Max WAT (°C)	Baseflow Discharge (cfs)
Water	2010[a]	-0.02	20.25	0.09	11.66	0.16[e]
Data	2011[b]	0.00	22.51	0.22	12.17	0.34[f]
Air	2010[c]	-21.84	24.01	-8.78	14.17	-----
Data	2011[d]	-35.06	24.34	-14.72	15.45	-----

[a]211 days of data (6/04/2010 – 12/31/2010); [b]269 days of data (1/01/2011 – 9/26/2011); [c]211 days of data (6/04/2010 – 12/31/2010); [d]269 days of data (1/01/2011 – 9/26/2011); [e]measured on 9/24/2010 and was precipitation affected; [f]measured 9/27/2011 and was not precipitation affected

Jemez


EXPLANATION
Monitoring Site
Rio Grande cutthroat trout conservation population
Rio Grande cutthroat trout current distribution
100
101
Rito Angostura
Rio de los Pinchos
Rito Cuba
Rito de los Indios
Rock Creek
Rio Penas Negras
San Antonio Creek
Rio de los Vacas
Sulphur Creek
San Luis Creek
Jaramillo Creek
Redondo Creek
La Jara Creek
Rio Cebolla
Rio el Indio
Stable Canyon Fork
Rio la Cueva
East Fork Jemez River
Jemez River
Rio Salado
Arroyo Lopez
Arroyo Penitte
Deer Creek
Rio Guadalupe
0 1.25 2.5 5 Miles
0 1.25 2.5 5 Kilometers

Rio de las Vacas

Site ID: 100
HUC: Jemez
Deployed: 9/29/2011
Drainage Area: 3,487 ha
Site Elevation: 2754 m
RGCT Population ID: LRG4-03

Figure 1. Monitoring site on Rio de las Vacas.

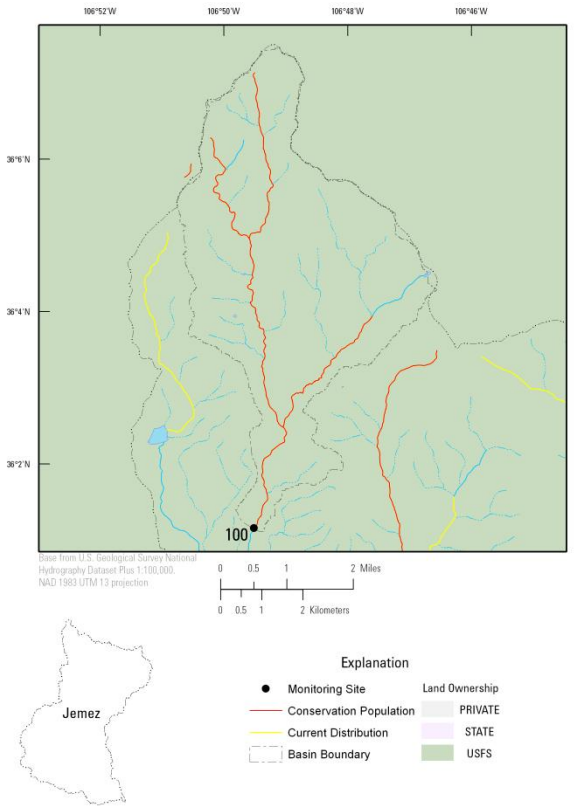


Figure 2. Location of monitoring site on Rio de las Vacas.

Population Information

Genetic Status: > 1% and ≤ 10%

Non-Natives: Brown trout

Barrier: Complete barrier present

Land Ownership

USFS: 100.0%

State: 0.0%

Private: 0.0%

Other: 0.0%

Table 1. Air and stream temperature metrics and discharge in 2010 and 2011.

	Year	2-hr Min (°C)	2-hr Max (°C)	Min WAT (°C)	Max WAT (°C)	Baseflow Discharge (cfs)
Water	2010[a]	NA	NA	NA	NA	NA[e]
Data	2011[b]	NA	NA	NA	NA	0.39[f]
Air	2010[c]	NA	NA	NA	NA	-----
Data	2011[d]	NA	NA	NA	NA	-----

[a]no data collected in 2010; [b]no data collected in 2011; [c]no data collected in 2010; [d]no data collected in 2011; [e]no summer baseflow measured in 2010; [f]measured 9/29/2011 and was precipitation affected

Rio de las Palomas

Site ID: 101
HUC: Jemez
Deployed: 9/29/2011
Drainage Area: 1,120 ha
Site Elevation: 2571 m
RGCT Population ID: LRG4-02

Figure 1. Monitoring site on Rio de las Palomas.

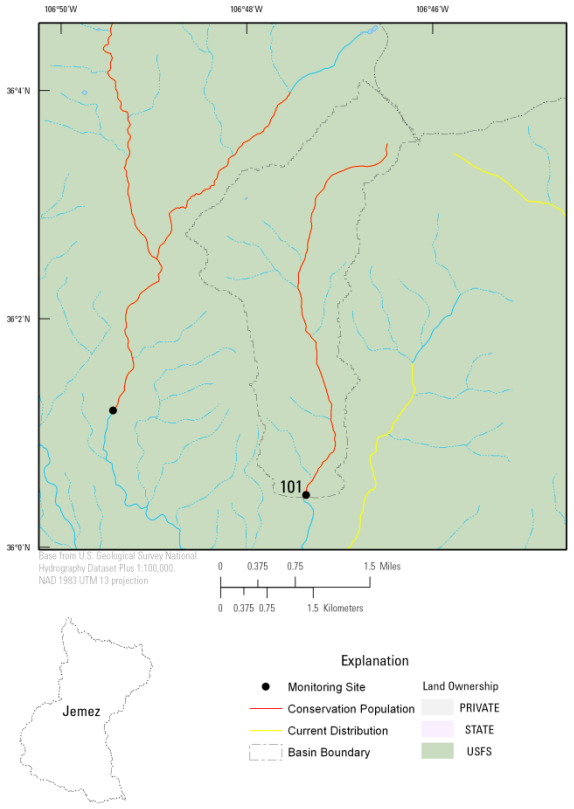


Figure 2. Location of monitoring site Rio de las Palomas.

Population Information

Genetic Status: > 1% and ≤ 10%

Non-Natives: Brown trout

Barrier: Partial barrier present

Land Ownership

USFS: 100.0%

State: 0.0%

Private: 0.0%

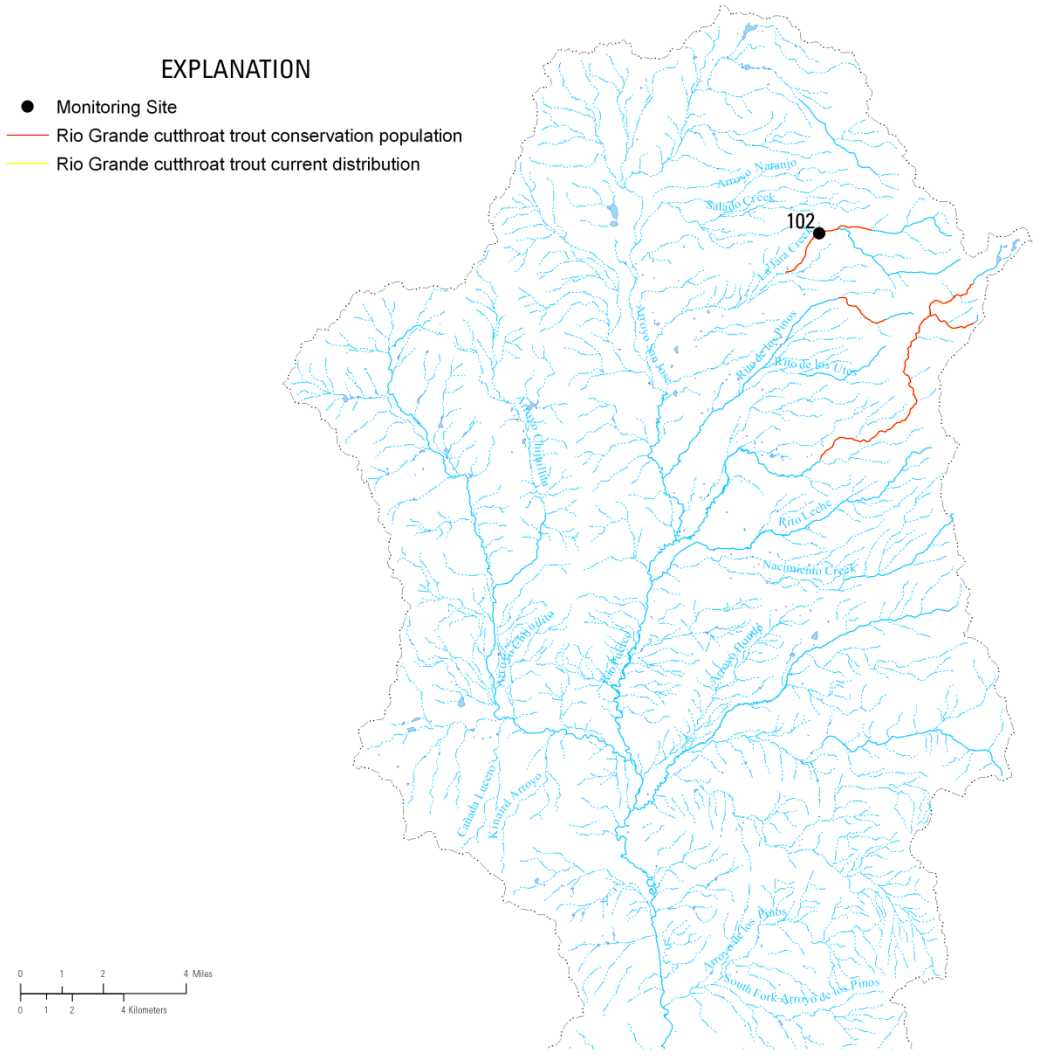
Other: 0.0%

Table 1. Air and stream temperature metrics and discharge in 2010 and 2011.

	Year	2-hr Min (°C)	2-hr Max (°C)	Min WAT (°C)	Max WAT (°C)	Baseflow Discharge (cfs)
Water Data	2010[a]	NA	NA	NA	NA	NA[e]
	2011[b]	NA	NA	NA	NA	0.02[f]
Air Data	2010[c]	NA	NA	NA	NA	-----
	2011[d]	NA	NA	NA	NA	-----

[a]no data collected in 2010; [b]no data collected in 2011; [c]no data collected in 2010; [d]no data collected in 2011; [e]no summer baseflow measured in 2010; [f]measured 9/29/2011 and was precipitation affected

Rio Puerco


EXPLANATION
Monitoring Site
Rio Grande cutthroat trout conservation population
Rio Grande cutthroat trout current distribution
102
Arroyo Naranjo
Salado Creek
La Jara Creek
Arroyo Seco
Rio de los Pinos
Rio de los Ojos
Arroyo Chijuilla
Rio Leche
Nacimiento Creek
Arroyo Chijuilla
Rio Puerco
Arroyo Hondo
Cañada Lucero
Kimbrell Arroyo
Arroyo de los Pinos
South Fork Arroyo de los Pinos
0 1 2 4 Miles
0 1 2 4 Kilometers

La Jara Creek

Site ID: 102
HUC: Rio Puerco
Deployed: 9/28/2011
Drainage Area: 1,394 ha
Site Elevation: 2451 m
RGCT Population ID: LRG5-01

Figure 1. Monitoring site on La Jara Creek.

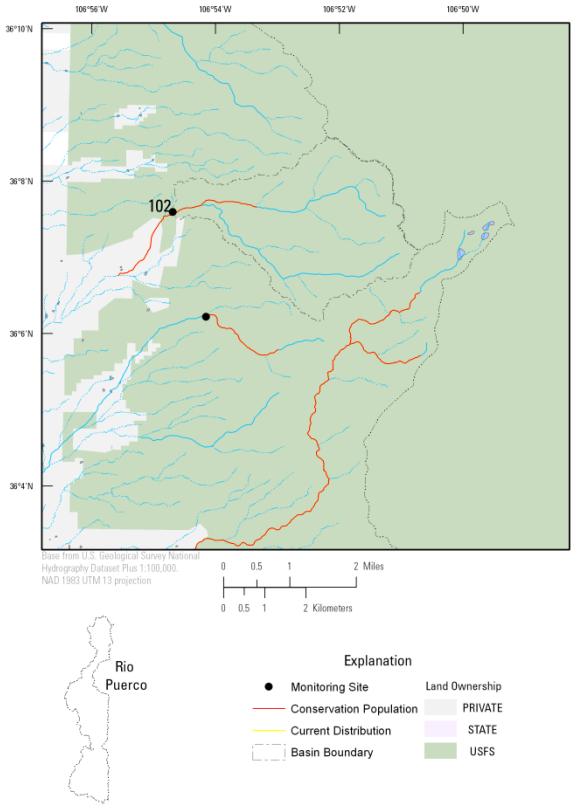


Figure 2. Location of monitoring site on La Jara Creek.

Population Information

Genetic Status: > 1% and ≤ 10%

Non-Natives: None present

Barrier: No barrier present

Land Ownership

USFS: 100.0%

State: 0.0%

Private: 0.0%

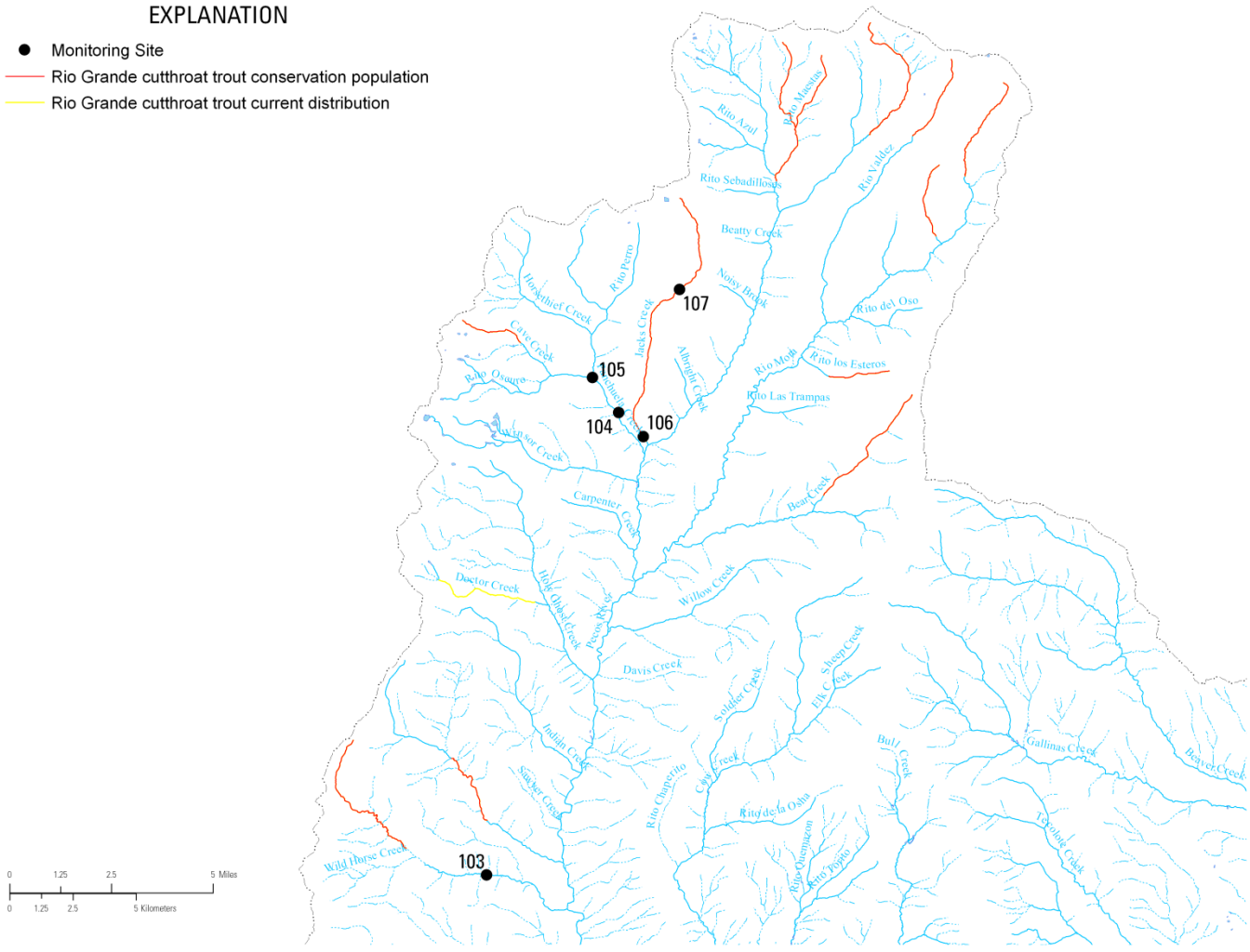
Other: 0.0%

Table 1. Air and stream temperature metrics and discharge in 2010 and 2011.

	Year	2-hr Min (°C)	2-hr Max (°C)	Min WAT (°C)	Max WAT (°C)	Baseflow Discharge (cfs)
Water Data	2010[a]	NA	NA	NA	NA	NA[e]
	2011[b]	NA	NA	NA	NA	0.58[f]
Air Data	2010[c]	NA	NA	NA	NA	-----
	2011[d]	NA	NA	NA	NA	-----

[a]no data collected in 2010; [b]no data collected in 2011; [c]no data collected in 2010; [d]no data collected in 2011; [e]no summer baseflow measured in 2010; [f]measured 9/28/2011 and was precipitation affected

Pecos Headwaters



Dalton Creek

Site ID: 103
HUC: Pecos Headwaters
Deployed: 9/16/2011
Drainage Area: 2,867 ha
Site Elevation: 2307 m
RGCT Population ID: PEC1-10

Figure 1. Monitoring site on Dalton Creek.

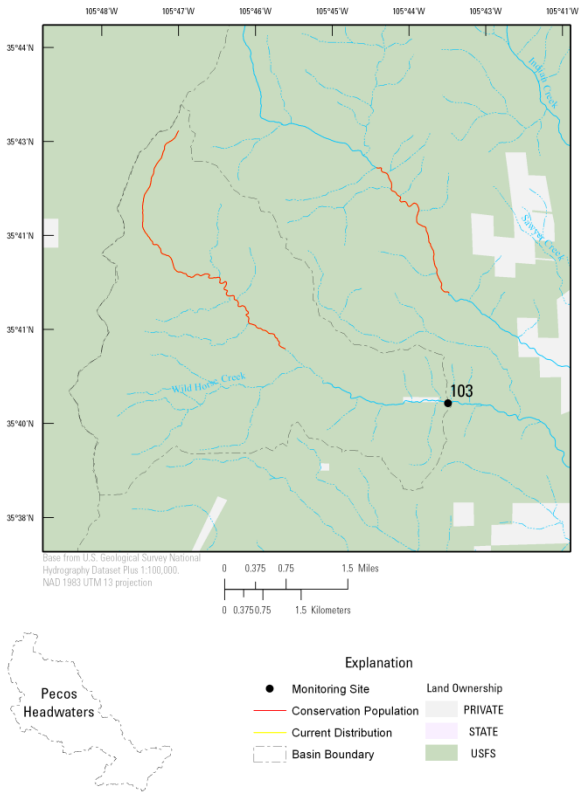


Figure 2. Location of monitoring site on Dalton Creek.

Population Information

Genetic Status: Unaltered

Non-Natives: None present

Barrier: Complete barrier present

Land Ownership

USFS: 99.8%

State: 0.0%

Private: 0.2%

Other: 0.0%

Table 1. Air and stream temperature metrics and discharge in 2010 and 2011.

	Year	2-hr Min (°C)	2-hr Max (°C)	Min WAT (°C)	Max WAT (°C)	Baseflow Discharge (cfs)
Water Data	2010[a]	NA	NA	NA	NA	NA[e]
	2011[b]	NA	NA	NA	NA	0.40[f]
Air Data	2010[c]	NA	NA	NA	NA	-----
	2011[d]	NA	NA	NA	NA	-----

[a]no data collected in 2010; [b]no data collected in 2011; [c]no data collected in 2010; [d]no data collected in 2011; [e]no summer baseflow measured in 2010; [f]measured 9/16/2011 and was not precipitation affected

Panchuela Creek

Site ID: 104
HUC: Pecos Headwaters
Deployed: 6/04/2010
Drainage Area: 5,630 ha
Site Elevation: 2567 m
RGCT Population ID: NA

Figure 1. Monitoring site on Panchuela Creek.

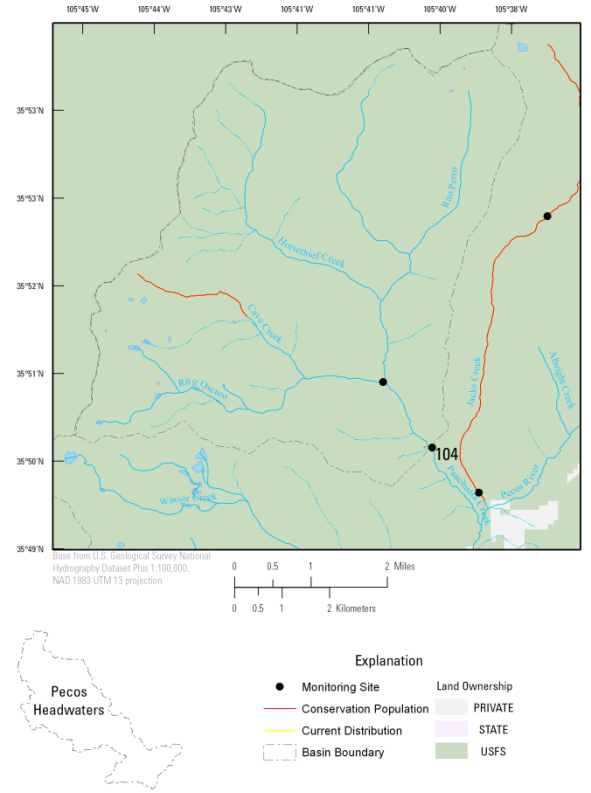


Figure 2. Location of monitoring site on Panchuela Creek.

Population Information

Genetic Status: NA

Non-Natives: NA

Barrier: NA

Land Ownership

USFS: 100.0%

State: 0.0%

Private: 0.0%

Other: 0.0%

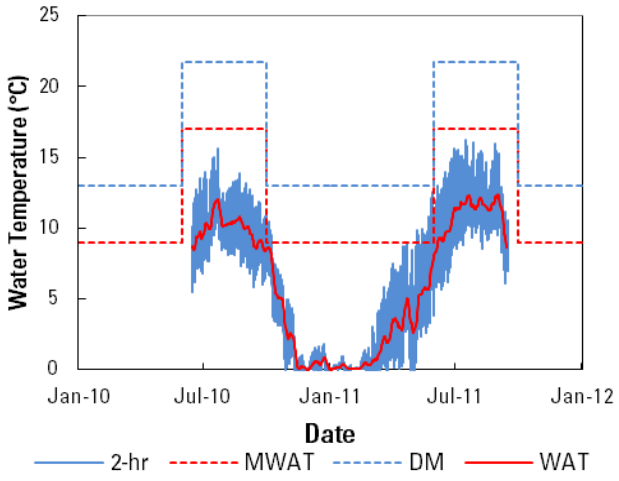


Figure 3. Two hour running mean (blue line) and weekly average temperature (red line) at monitoring site on Panchuela Creek. Dashed lines represent Colorado Tier 1 Cold Water Temperature criteria.

Table 1. Air and stream temperature metrics and discharge in 2010 and 2011.

	Year	2-hr Min (°C)	2-hr Max (°C)	Min WAT (°C)	Max WAT (°C)	Baseflow Discharge (cfs)
Water	2010[a]	-0.03	15.65	0.00	12.01	NA[e]
Data	2011[b]	-0.03	16.26	0.02	12.35	NA[f]
Air	2010[c]	-17.68	28.46	-5.36	15.32	-----
Data	2011[d]	-32.64	30.55	-11.96	14.80	-----

[a]211 days of data (6/04/2010 – 12/31/2010); [b]259 days of data (1/01/2011 – 9/16/2011); [c]211 days of data (6/04/2010 – 12/31/2010); [d]259 days of data (1/01/2011 – 9/16/2011); [e]no summer baseflow measured in 2010; [f]no summer baseflow measured in 2011

Cave Creek

Site ID: 105
HUC: Pecos Headwaters
Deployed: 9/27/2010
Drainage Area: 1,820 ha
Site Elevation: 2642 m
RGCT Population ID: NA

Figure 1. Monitoring site on Cave Creek.

Population Information

Genetic Status: NA

Non-Natives: NA

Barrier: NA

Land Ownership

USFS: 100.0%

State: 0.0%

Private: 0.0%

Other: 0.0%

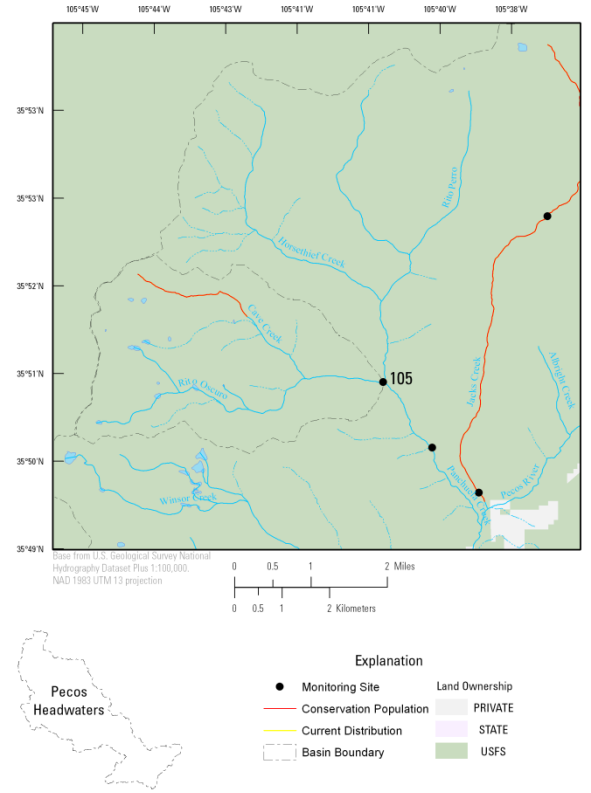


Figure 2. Location of monitoring site on Cave Creek.

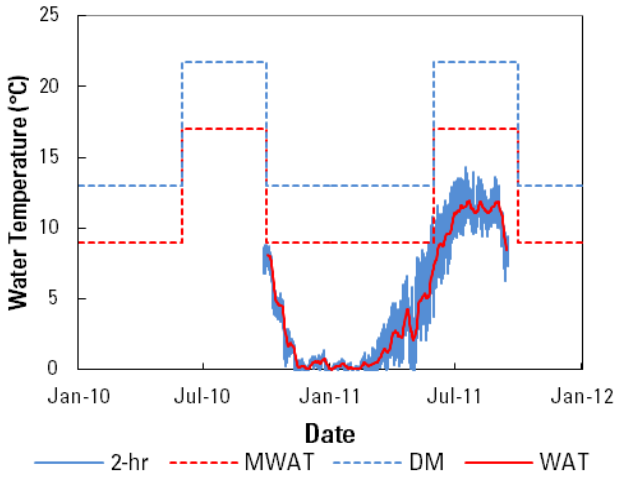


Figure 3. Two hour running mean (blue line) and weekly average temperature (red line) at monitoring site on Cave Creek. Dashed lines represent Colorado Tier 1 Cold Water Temperature criteria.

Table 1. Air and stream temperature metrics and discharge in 2010 and 2011.

	Year	2-hr Min (°C)	2-hr Max (°C)	Min WAT (°C)	Max WAT (°C)	Baseflow Discharge (cfs)
Water Data	2010[a]	-0.03	8.84	0.06	8.08	NA[e]
	2011[b]	-0.03	14.33	0.01	11.92	3.63[f]
Air Data	2010[c]	NA	23.57	NA	10.00	-----
	2011[d]	-30.06	28.22	-12.64	15.74	-----

[a]96 days of data (9/27/2010– 12/31/2010); [b]259 days of data (1/01/2011– 9/16/2011); [c]96 days of data (9/27/2010– 12/31/2010); [d]259 days of data (1/01/2011– 9/16/2011); [e]no summer baseflow measured in 2010; [f]measured on 9/17/2011 and was precipitation affected

Jack's Creek

Site ID: 106
HUC: Pecos Headwaters
Deployed: 6/04/2010
Drainage Area: 1,851 ha
Site Elevation: 2534 m
RGCT Population ID: PEC1-07

Figure 1. Lower monitoring site on Jack's Creek.

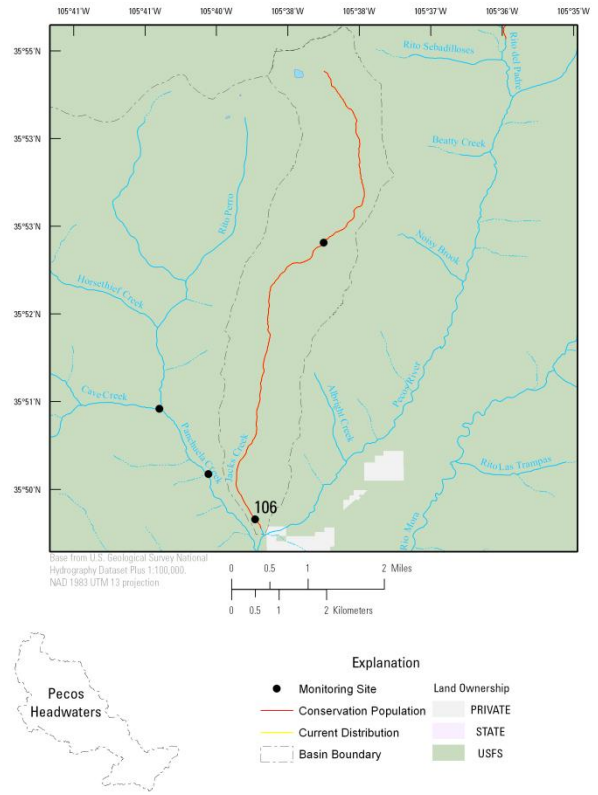


Figure 2. Location of lower monitoring site on Jack's Creek.

Population Information

Genetic Status: Unaltered

Non-Natives: None present

Barrier: Complete barrier present

Land Ownership

USFS: 100.0%

State: 0.0%

Private: 0.0%

Other: 0.0%

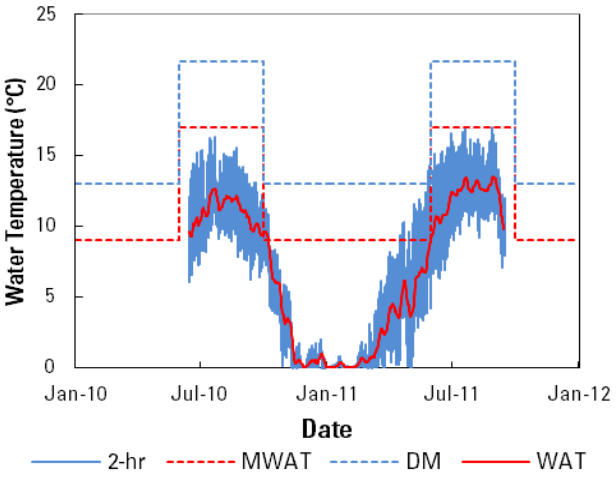


Figure 3. Two hour running mean (blue line) and weekly average temperature (red line) at lower monitoring site on Jack's Creek. Dashed lines represent Colorado Tier 1 Cold Water Temperature criteria.

Table 1. Air and stream temperature metrics and discharge in 2010 and 2011.

	Year	2-hr Min (°C)	2-hr Max (°C)	Min WAT (°C)	Max WAT (°C)	Baseflow Discharge (cfs)
Water	2010[a]	0.00	16.37	0.04	12.70	1.07[e]
Data	2011[b]	0.00	17.03	0.02	13.57	0.56[f]
Air	2010[c]	-18.91	26.97	-5.21	16.59	-----
Data	2011[d]	-32.33	28.41	-12.21	16.42	-----

[a]211 days of data (6/04/2010 – 12/31/2010); [b]259 days of data (1/01/2011 – 9/16/2011); [c]211 days of data (6/04/2010 – 12/31/2010); [d]259 days of data (1/01/2011 – 9/16/2011); [e]measured on 9/26/2010 and was precipitation affected; [f]measured on 9/17/2011 and was precipitation affected

Jack's Creek

Site ID: 107
HUC: Pecos Headwaters
Deployed: 6/03/2010
Drainage Area: 654 ha
Site Elevation: 3147 m
RGCT Population ID: PEC1-07

Figure 1. Upper monitoring site on Jack's Creek.

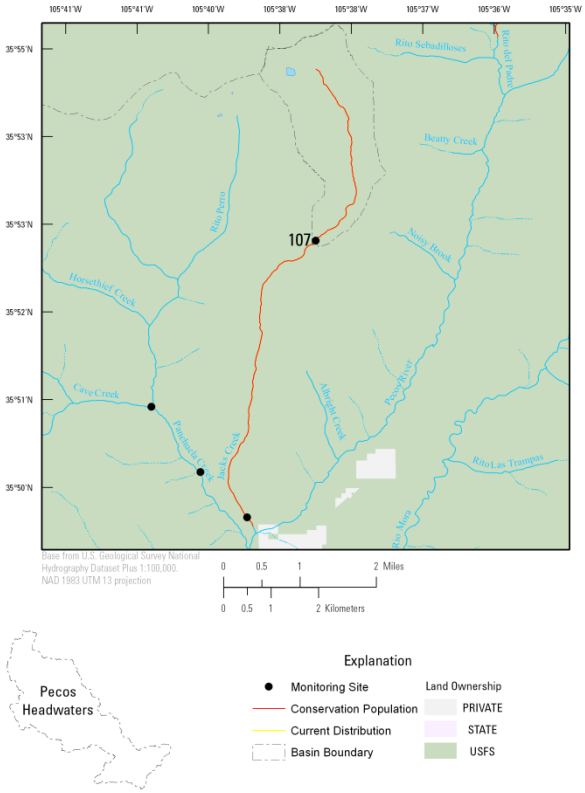


Figure 2. Location of upper monitoring site on Jack's Creek.

Population Information

Genetic Status: Unaltered

Non-Natives: None present

Barrier: Complete barrier present

Land Ownership

USFS: 100.0%

State: 0.0%

Private: 0.0%

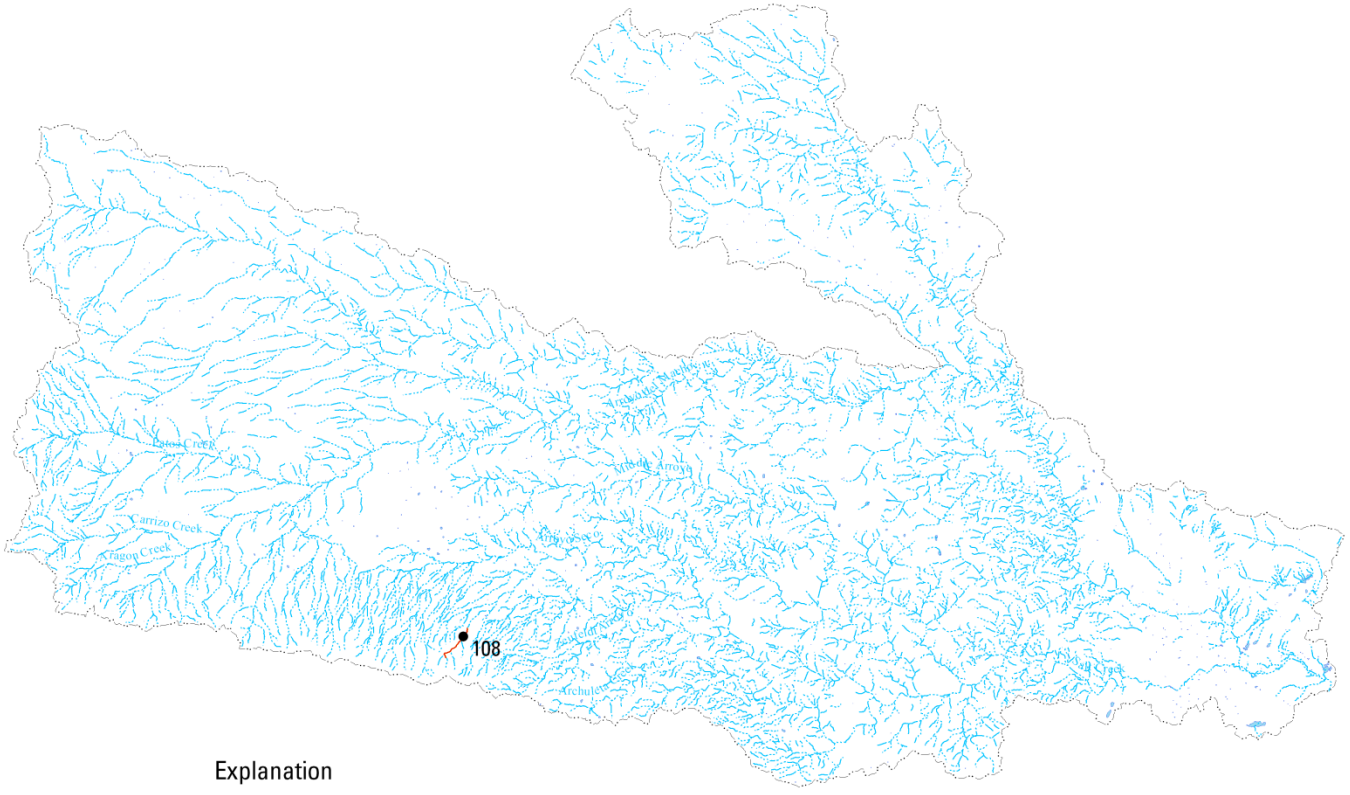
Other: 0.0%

Table 1. Air and stream temperature metrics and discharge in 2010 and 2011.

	Year	2-hr Min (°C)	2-hr Max (°C)	Min WAT (°C)	Max WAT (°C)	Baseflow Discharge (cfs)
Water Data	2010[a]	Exposed	Exposed	Exposed	Exposed	0.02[e]
	2011[b]	Exposed	Exposed	Exposed	Exposed	0.07[f]
Air Data	2010[c]	-21.35	22.08	-7.69	14.34	-----
	2011[d]	-30.55	23.54	-13.79	14.43	-----

[a]data logger exposed in 2010 and no data is presented; [b]data logger exposed in 2011 and no data is presented; [c]211 days of data (6/04/2010 – 12/31/2010); [d]259 days of data (1/01/2011 – 9/16/2011); [e]measured on 9/25/2010 and was precipitation affected; [f]measured on 9/17/2011 and was precipitation affected

Arroyo Del Macho



Pine Lodge Creek

Site ID: 108
HUC: Arroyo Del Macho
Deployed: 10/18/2011
Drainage Area: 656 ha
Site Elevation: 1923 m
RGCT Population ID: PEC2-01

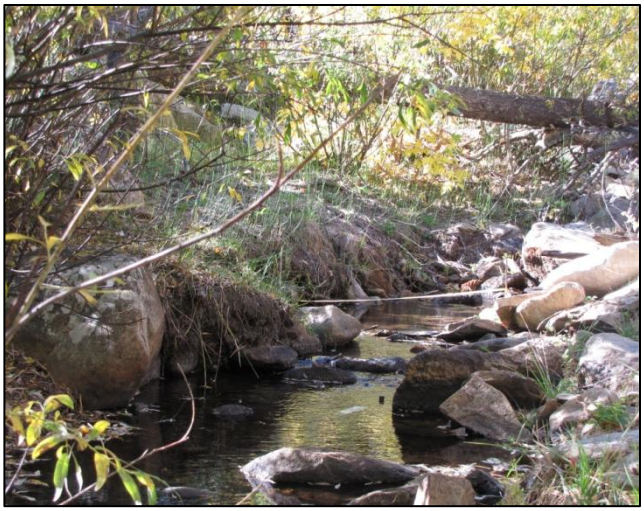


Figure 1. Monitoring site on Pine Lodge Creek.

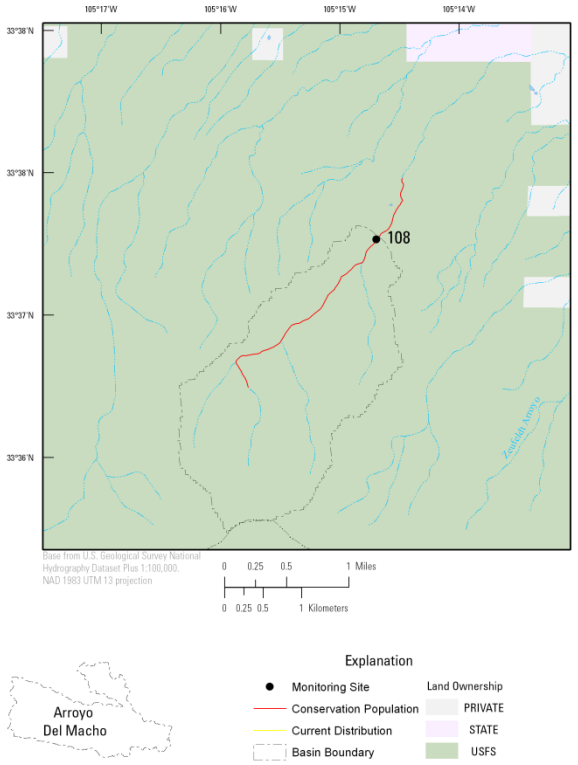


Figure 2. Location of monitoring site on Pine Lodge Creek.

Population Information

Genetic Status: Unaltered

Non-Natives: None present

Barrier: No barrier present

Land Ownership

USFS: 100.0%

State: 0.0%

Private: 0.0%

Other: 0.0%

Table 1. Air and stream temperature metrics and discharge in 2010 and 2011.

	Year	2-hr Min (°C)	2-hr Max (°C)	Min WAT (°C)	Max WAT (°C)	Baseflow Discharge (cfs)
Water Data	2010[a]	NA	NA	NA	NA	NA[e]
	2011[b]	NA	NA	NA	NA	0.06[f]
Air Data	2010[c]	NA	NA	NA	NA	-----
	2011[d]	NA	NA	NA	NA	-----

[a]no data collected in 2010; [b]no data collected in 2011; [c]no data collected in 2010; [d]no data collected in 2011; [e]no summer baseflow measured in 2010; [f]measured 10/18/2011 and was precipitation affected