

Length = 5.7

PANTHER CREEK

This creek is a small tributary to the New River. It was surveyed from the mouth to 1 1/4 miles upstream on October 15, 1974. The flow was estimated at 1 CFS. The velocity ranged from rapid in the lower section to slow to rapid in the upper two sections.

The habitat condition was good. Shade canopy and riparian growth was light (10-25%) in the lower and middle sections, and medium (40%) in the upper section. Pools were abundant with fair to good in pool shelter. Aquatic vegetation was light with some filamentous algae and peltiphyllum being occasionally seen. Aquatic food organisms were few to common. Not many fish were seen in the lower and upper sections. Fish were commonly seen in the middle section.

There were 6 barriers and 2 diversion dams noted. The first barrier was located 50 yards upstream from the mouth. At this point, the water begins flowing underground and therefore resulting in the mouth being dry. Probably during higher winter flows, the mouth would not be dry. The second barrier was 1/4 mile upstream. It consisted of a 25 foot log jam. The water just oozes through making it a total barrier to all fish. The 2 diversion dams were located about 200 yards upstream from the mouth. They do not stop much water and do not inhibit fish migration.

This creek flows through a steep and lightly wooded gorge in the lower section. In the middle and upper sections the terrain changes to a deep, wooded canyon. The watershed and banks are moderately unstable in the lower section and more unstable in the upper sections. Stream gradient ranged from 20% in the lower section to 15% in the middle and upper sections.

Access to this creek is good by hiking upstream from the mouth, located adjacent to Panther Creek Campground, or from Forest Service Road 7N01.

STREAM SURVEY

FOREST Shasta-Trinity		DISTRICT Big Bar	
1. NAME OF STREAM Panther Creek		2. RIVER SYSTEM TRINITY RIVER	
3. TRIBUTARY TO New River		4. TOTAL LENGTH Approximately Surveyed 6 miles	
5. STREAM SECTION FROM: mouth TO: 1 1/2 miles upstream			
6. LOCATION OF MOUTH OR LOWERMOST POINT TOWNSHIP 6 N RANGE 6 E 7 E SECTION 12 18			
7. DESCRIPTION OF STREAM: (USE PAGE 4 OR SEPARATE SHEET TO RECORD NOTES MADE DURING SURVEY).			

SECTION DATA 1/2 mile above LOWER 1/2 mile above MIDDLE 1/2 mile above UPPER

8. LOCATION	TWP	RG	SEC	TWP 6 N	RG 6 E	SEC 12	TWP 6 N	RG 6 E	SEC 12															
9. ALTITUDE RANGE	PT. TO		FT.	FT. TO		FT.	FT. TO		FT.															
10. WIDTH OF STREAM	RANGE	FT. AVE	FT	RANGE	FT. AVE	FT	RANGE	FT. AVE	FT															
11. DEPTH	RANGE	FT. AVE	FT	RANGE	FT. AVE	FT	RANGE	FT. AVE	FT															
12. FLOW	1		c.f.s.	1/2 - 1		c.f.s.	1		c.f.s.															
13. VELOCITY	Rapid			slow to rapid			slow to rapid																	
14. AIR TEMPERATURE	69°		°F	67°		°F	67°		°F															
15. WATER TEMPERATURE	52°		°F	52°		°F	52°		°F															
16. HOUR AND SKY	HOUR 12:00 SKY clear			HOUR 12:50 SKY clear			HOUR 1:30 SKY clear																	
17. POOLS-ABUNDANCE	abundant *P/R = 1/2			abundant *P/R = 1/1			abundant *P/R = 1/1																	
a. Size (diameter)	RANGE 2-6 FT. AVE		FT	RANGE 2-10 FT. AVE		FT	RANGE 2-8 FT. AVE		FT															
b. Formed by	bedrock & boulders			bedrock & boulders			bedrock & boulders																	
c. Shelter	fair			good			fair to good																	
18. RIFFLES-ABUNDANCE	abundant			abundant			abundant																	
19. BOTTOM TYPE	Bedrock	Boulders	Rocks	Rubble	Gravel	Sand	Silt	Mud	Bedrock	Boulders	Rocks	Rubble	Gravel	Sand	Silt	Mud	Bedrock	Boulders	Rocks	Rubble	Gravel	Sand	Silt	Mud
a. Pools	20	10	5	5	5	5	-	-	60	15	10	5	5	5	-	-	25	20	40	5	5	5	-	-
b. Riffles	20	10	10	5	2 1/2	2 1/2	-	-	60	15	10	5	5	5	-	-	30	25	40	5	5	5	-	-
20. SHADE CANOPY	light - 25%			light - 25%			medium - 40%																	
a. Species	light - 25%			light - 10%			medium - 40%																	
21. AQUATIC VEGETATION	light			light			light																	
a. Species	filamentous algae			filamentous algae			periphyton																	
22. AQUATIC FOOD ORGANISMS	few			few			few to common																	
a. Caddisflies	-			-			-																	
b. Mayflies	✓			✓			✓																	
c. Stoneflies	✓			✓			✓																	
d. Diptera	✓			✓			✓																	
e. Beetles	-			-			-																	
f. Other Insects	-			-			-																	
g. Crustacea	-			snails			-																	
h. Others	-			-			gerrids																	
23. OVERALL AQUATIC FOODS	few			few			few to common																	
24. FISHES PRESENT	few			common			few																	
a. All Species Combined	few			common			few																	
b. Species 1	rainbow			rainbow			rainbow																	
(1) Abundance	few			common			few																	
(2) Ave. No. per 100 ft.	2 or 3 seen in section			-			-																	
(3) Length Range	1-2		INCHES	1-4		INCHES	1-3		INCHES															
(4) Ave. Length	1 1/2		INCHES	1		INCHES	1		INCHES															

App. 1
App. 2

App. 3

c. Species 2		LOWER	MIDDLE	UPPER
(1) Abundance				
(2) Ave. No. per 100 ft.				
(3) Length range				
(4) Ave. length				
d. Species 3				
(1) Abundance				
(2) Ave. No. per 100 ft.				
(3) Length range				
(4) Ave. length				
e. Species 4				
(1) Abundance				
(2) Ave. No. per 100 ft.				
(3) Length range				
(4) Ave. length				
25. REPRODUCTION				
a. Species 1		few	common	few
b. Species 2				
c. Species 3				
d. Species 4				
26. FISH PREDATORS				
a. Birds		None seen	None seen	None seen
b. Snakes				
27. CHARACTER OF WATERSHED				
		steep, lightly wooded gorge	deep wooded canyon	deep wooded canyon
28. WATERSHED SOIL STABILITY				
		moderately stable	unstable	unstable
29. STREAM CHANNEL STABILITY				
		mod. unstable, banks-stable	mod. unstable, banks-unstable	mod. unstable, banks-unstable
30. STREAM FLOW CONDITION				
		low	low	low
31. STREAM GRADIENT				
		20%	15%	15%
32. BARRIERS				
		See Appendix 4	See Appendix 4	None seen
33. DIVERSIONS				
		See Appendix 5	None seen	None seen
34. SPRINGS				
		See Appendix 6	None seen	None seen
35. TRIBUTARIES				
		None seen	None seen	None seen
36. WATER QUALITY				
a. Turbidity		low	low	low
b. Nature of Turbidity				
c. Other Pollution				
37. ACCESSIBILITY				
a. Car or Trail				
38. FISHING USE				
		light to zero	light to zero	light to zero
a. Est. Fisherman days		Per Year	Per Year	Per Year
b. Est. ave. hours fished per day				

Banks-unstable

SUMMARY-ENTIRE STREAM

39. STREAM CLASSIFICATION:	LOWER <u>III</u>	MIDDLE <u>III</u>	UPPER <u>III</u>
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REMARKS:

40. STREAM CHARACTERISTICS AND REMARKS

THIS IS A SMALL TRIBUTARY TO THE NEW RIVER. IT RUNS THROUGH VERY RUSSSED TERRAIN & DOES NOT SUPPORT A VERY GOOD FISH POPULATION.

41. FISH STOCKING PROGRAM

42. MANAGEMENT RECOMMENDATIONS:

INCREASE RESIDENT TROUT STREAM

BARRIER₂ COULD BE REMOVED TO INCREASE POSSIBLE ANADROMOUS SPAWNING AREAS.

42. DATE OF SURVEY

10/15/74

43. SURVEY MADE BY

LOUIS GORODETZER & DON BOLLINGER

STREAM MANAGEMENT ANALYSIS (May be filled out at Office)

1. TYPE OF FISHERY

cold

2. PRIMARY SPECIES

Rainbow

3. OVERALL PRESENT FISHERY RATING

POOR

a. Size of Stream

small

b. Fishing Use

light

c. Other Uses

MINING & WATER

d. Productivity

poor

e. Habitat Condition

good

4. IMPROVEMENT POTENTIAL

5. FISH MANAGEMENT RECOMMENDATIONS:

- a. Chemical Rehabilitation
- b. Fishery Regulation
- c. Regulation of Other Activities
- d. Introduction of Exotic Fish Species
- e. Maintenance Stocking of Established Fish Species
- f. Others

6. HABITAT MANAGEMENT:

- a. Watershed Management
- b. Stream Protection Belt Management
- c. Water Quality Management
- d. Physical Corrective Measures
- e. Others

7. PUBLIC ACCESS AND LAND AQUISION

8. PUBLIC USE FACILITIES

Appendix 1:

	<u>Lower</u>	<u>middle</u>	<u>upper</u>
width of channel	10-15 ft	10-15 ft	10-15 ft
width of stream	1-10 ft (6)	1-10 ft (6)	1-8 ft (5)

Appendix 2:

depth of pools	1- ⁽²⁾ 3 ft.	2- ⁽⁴⁾ 5 ft.	2- ⁽⁴⁾ 5 ft.
depth of riffles	3-12 in. ^(1.1) (F) = .67	2-18 in. ^(2.4) (10) = .63	2-18 in. ^(2.1) (10) = .83

Appendix 3:

<u>shade canopy species</u>	<u>%</u>	<u>Riparian Vegetation</u>	<u>%</u>
OAK	25	ferns	40
maple	40	maple	20
alder	30	alder	20
fir	5	fir	5
		peltiphyllum	15

Appendix 4:

BARRIERS - (see map for location)

- B₁ - mouth - no flow of water
water goes underground 50-yds. from New River
- B₂ - 1/4 mile upstream from mouth (approximately 75-yds post DV₂)
consists of Log jam and boulders 25-ft high.
water oozes through.
very small pool at bottom
- B₃ - 100 yds past B₂
Bedrock & boulder falls 25-ft high.
Barrier to all fish.
- B₄ - culvert under road 7N01 (road to Denny)
5-ft fall from lip to rocks & boulders below
NO pool & complete barrier.
- B₅ - 100 yds upstream from B₄
10-ft pile of boulders
water oozes through
complete barrier
- B₆ - 1/4 mile upstream from culvert.
10-ft sliding falls over bedrock
pool below is 3-ft deep.

Appendix 5:

DIVERSION DAMS - (see map for location)

DV₁ - does not stop much water

about 200-yds upstream from mouth

1/2 inch pvc pipe is screened by rocks at bottom of 1/2 ft pool.

DV₂ - about 25-ft upstream from DV₁

does not block much water

3 inch pvc pipe is screened by rocks

Appendix 6:

Springs - (see map for location)

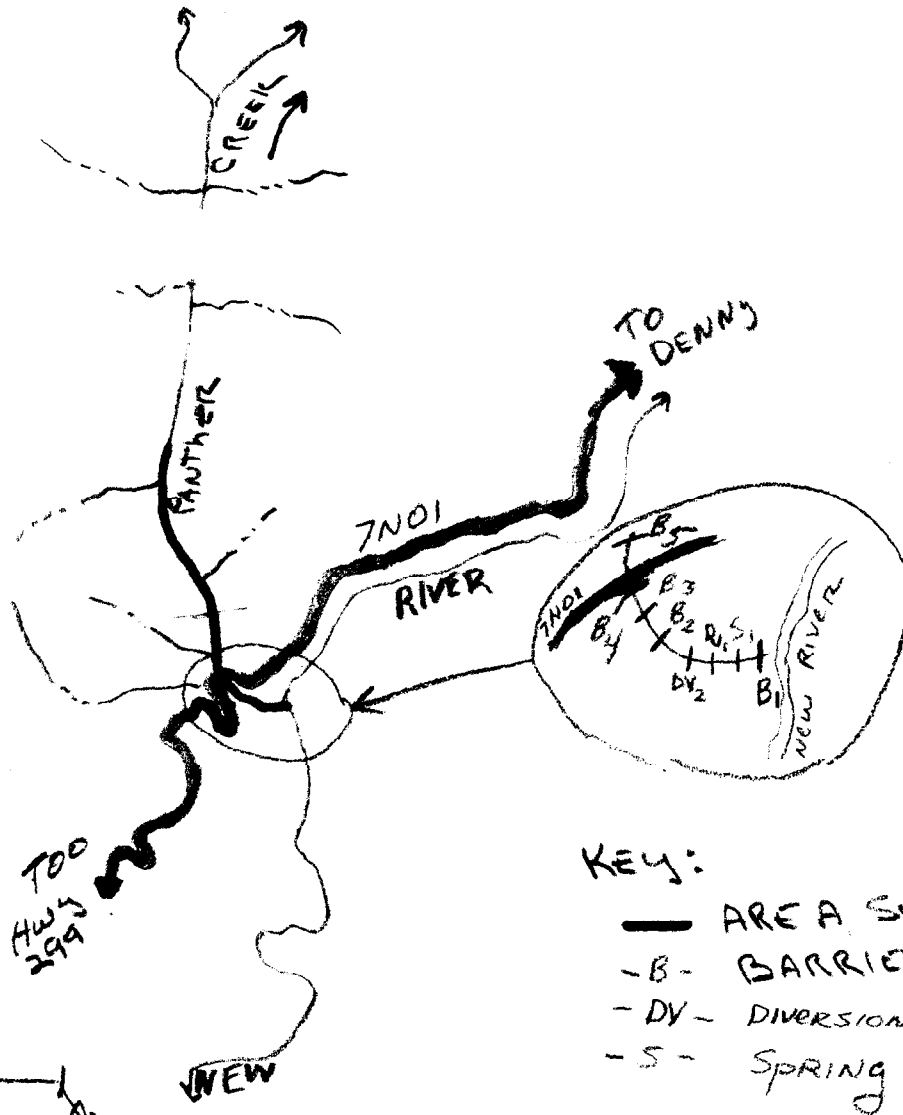
S₁ - 1/10 CFS

57°

100-yds upstream from mouth[†]

on south west side of Panther Creek.

PANTHER CREEK



Surveyed Reach	ELV		Cum fact. in kfe
1	310	(1)	1 .2
2	2110	(2)	B .5
3	2110	(2)	.5

Inside with Quad NW 1/4

