

Length = 4.8

**BELL CREEK**

This stream is a small tributary to the New River. It was surveyed from the mouth to  $1\frac{1}{2}$  miles upstream on October 17, 1974.

The flow was estimated to be 2 CFS. Fish habitat conditions were fair to good. The shade canopy was medium (50%) consisting of mainly elderberry with some dogwood, maple, alder, and pine. Riparian vegetation was light, only 30%. It consisted of peltiphyllum, blackberry, ferns, and elderberry, with Peltiphyllum being the major species. There was no aquatic vegetation seen. Only a few snails and gerrids were seen so aquatic food organisms were few and, overall, aquatic foods were little.

A few fry were seen and their average length was only 1 inch. Spawning habitat was fair. There was some spawning gravel present.

The first barrier was located a  $1/4$  mile upstream. It was a 15 foot log jam with no pool above or below. The water just oozes through. There were five other barriers also noted (see the appendix and map for their location).

The stream flows through a steep, lightly wooded gorge with side slopes of 80-100%. The watershed and channels were both stable. The stream gradient was moderate (10%). Bank erosion was estimated to be 30%.

Access is good from a trail beginning on the 5 Waters Ranch. Fishing usage is zero.

STREAM SURVEY

|  |  |   |  |
|--|--|---|--|
| FOREST<br><b>SHASTA-TRINITY</b>  |  | DISTRICT<br><b>BIG BAR</b>                    |  |
| 1. NAME OF STREAM<br><b>BELL CREEK</b>   |  | 2. RIVER SYSTEM<br><b>TRINITY</b>             |  |
| 3. TRIBUTARY TO<br><b>NEW RIVERS</b>   |  | 4. TOTAL LENGTH<br><b>5.5 mile (SURVEYED)</b> |  |
| 5. STREAM SECTION<br>FROM: <b>MOUTH</b> TO: <b>1/2 MILE UPSTREAM</b>                               |  |   |  |
| 6. LOCATION OF MOUTH OR LOWERMOST POINT<br>TOWNSHIP <b>6N</b> RANGE <b>6E</b> SECTION <b>2412S</b> |  |   |  |
| 7. DESCRIPTION OF STREAM: (USE PAGE 4 OR SEPARATE SHEET TO RECORD NOTES MADE DURING SURVEY).       |  |   |  |

SECTION DATA

| 8. LOCATION                | LOWER                              |           |           | MIDDLE     |         |     | UPPER      |         |     |
|----------------------------|------------------------------------|-----------|-----------|------------|---------|-----|------------|---------|-----|
|                            | TWP                                | RG        | SEC       | TWP        | RG      | SEC | TWP        | RG      | SEC |
| 9. ALTITUDE RANGE          | <b>1000 FT. TO 1200 FT.</b>        |           |           | 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                   | <b>2 c.f.s.</b>                    |           |           | c.f.s.     |         |     | c.f.s.     |         |     |
| 13. VELOCITY               | <b>SLOW - RAPID</b>                |           |           |            |         |     |            |         |     |
| 14. AIR TEMPERATURE        | <b>69 °F</b>                       |           |           | °F         |         |     | °F         |         |     |
| 15. WATER TEMPERATURE      | <b>56 °F</b>                       |           |           | °F         |         |     | °F         |         |     |
| 16. HOUR AND SKY           | HOUR <b>12:10</b> SKY <b>CLEAR</b> |           |           | HOUR SKY   |         |     | HOUR SKY   |         |     |
| 17. POOLS-ABUNDANCE        | <b>ABUNDANT *P/R-1/2</b>           |           |           |            |         |     |            |         |     |
| a. Size (diameter)         | RANGE                              | FT. AVE   | FT.       | RANGE      | FT. AVE | FT. | RANGE      | FT. AVE | FT. |
| b. Formed by               | <b>bedrock &amp; boulder</b>       |           |           |            |         |     |            |         |     |
| c. Shelter                 | <b>FAIR TO GOOD</b>                |           |           |            |         |     |            |         |     |
| 18. RIFFLES-ABUNDANCE      | <b>ABUNDANT</b>                    |           |           |            |         |     |            |         |     |
| 19. BOTTOM TYPE            | <i>Pool Grade</i>                  |           |           |            |         |     |            |         |     |
| a. Pools %                 | <b>60</b>                          | <b>10</b> | <b>10</b> |            |         |     |            |         |     |
| b. Riffles %               | <b>20</b>                          | <b>25</b> | <b>10</b> |            |         |     |            |         |     |
| 20. SHADE CANOPY           | <b>Medium 50%</b>                  |           |           |            |         |     |            |         |     |
| a. Riparian Veg            | <b>Light 30%</b>                   |           |           |            |         |     |            |         |     |
| 21. AQUATIC VEGETATION     | <b>NONE SEEN</b>                   |           |           |            |         |     |            |         |     |
| a. Species                 |                                    |           |           |            |         |     |            |         |     |
| 22. AQUATIC FOOD ORGANISMS | <b>FEW</b>                         |           |           |            |         |     |            |         |     |
| a. Caddisflies             | <b>0</b>                           |           |           |            |         |     |            |         |     |
| b. Mayflies                | <b>0</b>                           |           |           |            |         |     |            |         |     |
| c. Stoneflies              | <b>0</b>                           |           |           |            |         |     |            |         |     |
| d. Diptera                 | <b>0</b>                           |           |           |            |         |     |            |         |     |
| e. Beetles                 | <b>0</b>                           |           |           |            |         |     |            |         |     |
| f. Other Insects           | <b>0</b>                           |           |           |            |         |     |            |         |     |
| g. Crustacea               | <b>SNAILS</b>                      |           |           |            |         |     |            |         |     |
| h. Others                  | <b>GERRIAS</b>                     |           |           |            |         |     |            |         |     |
| 23. OVERALL AQUATIC FOODS  | <b>FEW</b>                         |           |           |            |         |     |            |         |     |
| 24. FISHES PRESENT         | <b>FEW TO COMMON</b>               |           |           |            |         |     |            |         |     |
| a. All Species Combined    |                                    |           |           |            |         |     |            |         |     |
| b. Species 1               | <b>RBT</b>                         |           |           |            |         |     |            |         |     |
| (1) Abundance              | <b>FEW</b>                         |           |           |            |         |     |            |         |     |
| (2) Ave. No. per 100 ft.   |                                    |           |           |            |         |     |            |         |     |
| (3) Length Range           |                                    |           |           | INCHES     |         |     | INCHES     |         |     |
| (4) Ave. Length            |                                    |           |           | INCHES     |         |     | INCHES     |         |     |

opp1 - -  
opp2 - -

opp3 - -

\*P/R - POOL/RIFFLE RATIO

|                                   | LOWER                             | MIDDLE   | UPPER    |
|-----------------------------------|-----------------------------------|----------|----------|
| c. Species 2                      |                                   |          |          |
| (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                      |                                   |          |          |
| b. Species 2                      |                                   |          |          |
| c. Species 3                      |                                   |          |          |
| d. Species 4                      |                                   |          |          |
| 26. FISH PREDATORS                |                                   |          |          |
| a. Birds                          | NONE SEEN                         |          |          |
| b. Snakes                         | NONE SEEN                         |          |          |
| 27. CHARACTER OF WATERSHED        | STEEP lightly wooded gorge        |          |          |
| 28. WATERSHED SOIL STABILITY      | STABLE                            |          |          |
| 29. STREAM CHANNEL STABILITY      | STABLE                            |          |          |
| 30. STREAM FLOW CONDITION         | Low                               |          |          |
| 31. STREAM GRADIENT               | 10%                               |          |          |
| 32. BARRIERS                      | SEE APP 4                         |          |          |
| 33. DIVERSIONS                    | SEE APP 5                         |          |          |
| 34. SPRINGS                       | NONE SEEN                         |          |          |
| 35. TRIBUTARIES                   | NONE SEEN                         |          |          |
| 36. WATER QUALITY                 |                                   |          |          |
| a. Turbidity                      | LOW                               |          |          |
| b. Nature of Turbidity            |                                   |          |          |
| c. Other Pollution                |                                   |          |          |
| 37. ACCESSIBILITY                 | Good                              |          |          |
| a. Car or Trail                   | TRAIL ON PRIV PROP. FOLLOWS CREEK |          |          |
| 38. FISHING USE                   | ZERO - LIGHT                      |          |          |
| a. Est. Fisherman days            | Per Year                          | Per Year | Per Year |
| b. Est. ave. hours fished per day |                                   |          |          |

SUMMARY-ENTIRE STREAM

|   |                 |                             |       |
|---|-----------------|-----------------------------|-------|
| 39. STREAM CLASSIFICATION:  | LOWER <b>II</b> | MIDDLE                      | UPPER |
| REMARKS:  |                 |                             |       |
| 40. STREAM CHARACTERISTICS AND REMARKS  |                 |                             |       |
| SMALL TRIBUTARY TO NEW RIVER.   |                 |                             |       |
| NOT MANY FISH WERE SEEN. ABOUT 1/2 MILES UPSTREAM CHANNEL IS DRY. WATER RUN UNDERGROUND FOR ABOUT 1 MILE UNTIL THIS POINT |                 |                             |       |
| 41. FISH STOCKING PROGRAM   |                 |                             |       |
|   |                 |                             |       |
| 42. MANAGEMENT RECOMMENDATIONS:   |                 |                             |       |
|   |                 |                             |       |
|   |                 |                             |       |
|   |                 |                             |       |
|   |                 |                             |       |
|   |                 |                             |       |
| 42. DATE OF SURVEY  |                 | 43. SURVEY MADE BY          |       |
| 7 OCT 74  |                 | D Bollinier & L. Gorodetzer |       |

|  |                    |                      |
|--|--------------------|----------------------|
| STREAM MANAGEMENT ANALYSIS (May be filled out at Office) |                    |                      |
| 1. TYPE OF FISHERY                                       | 2. PRIMARY SPECIES |                      |
| COLD   | RBT                |                      |
| 3. OVERALL PRESENT FISHERY RATING                        | a. Size of Stream  | b. Fishing Use       |
| POOR   | SMALL              | ZERO - LIGHT         |
| c. Other Uses  | d. Productivity    | e. Habitat Condition |
|  | POOR               | 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:

WIDTH OF CHANNEL ----- 10-15 FT  
 WIDTH OF STREAM ----- 3-6 FT  
 (5')

APPENDIX 2:

DEPTH OF POOLS ----- 1-8 FT (5')  
 DEPTH OF RIFFLES ----- 1/2 - 1 FT (1.29) (1.9)

APPENDIX 3:

SHADE CANOPY %  
 ELDER BERRY ----- 40  
 DOGWOOD ----- 30  
 MAPLE ----- 10  
 ALDER ----- 10  
 PINE ----- 10

RIPARIAN VEGETATION %  
 PELTOPHYLLUM ----- 30  
 BLACK BERRY ----- 20  
 FERNS ----- 25  
 ELDERBERRY ----- 25

APPENDIX 4:

BARRIERS (SEE MAP FOR LOCATION)

B1 1/4 mile upstream, LOG DAM 15 FT high NO POOL  
 below. WATER OZZES THROUGH

B2 50 yds up from B1. 5 FT FALLS OVER bedrock  
 INTO POOL 8 FT DEEP & 30 FT in DIAMETER

B3 25 yd from B2. 10 FT FALLS OVER bedrock INTO  
 POOL 15 FT DIAMETER & 8 FT DEEP

B4 25 yd from B3. 30 FT FALLS OVER bedrock INTO  
 POOL 20 FT DIAMETER & 8 FT DEEP

B5 10 yd above B4 SERIES OF FOUR FALLS 20 FT high  
 POOL 15 FT dia. 8 FT DEEP

B6 100 yd past DV. 100 FT FALLS OVER bed-  
 rock. pool 40 FT dia 6 FT DEEP

APPENDIX 5:

DIVERSION DAMS (SEE MAP FOR LOCATION)

DV1 2 FT METAL PIPE, SCREENED WITH WIDE MESH  
 SCREEN & PLACED POORLY. FRY COULD STILL GET CAUGHT  
 IN IT. DIVERTS 1/2 CFS. 75 yds up from B5

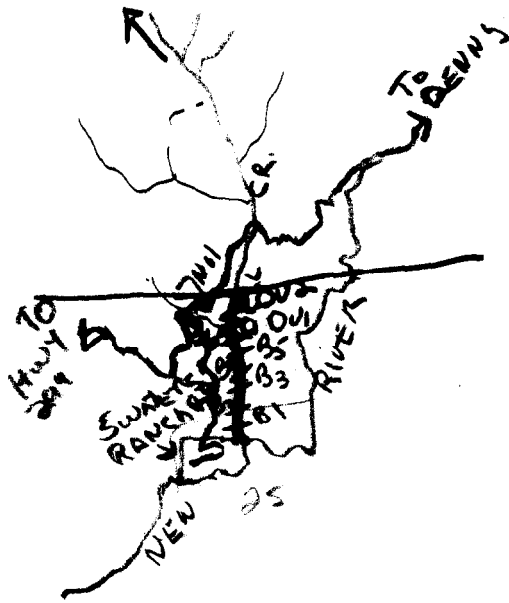
DV2 PIPE IN WATER WITH SCREEN ON IT  
 DOESNT BLOCK FLOW. 2 in PIPE 25 yds past B6

# BELL CREEK

R6E

R7E

T6N.



KEY:

- AREA SURVEYED
- B- BARRIER
- DV- DIVERSION DAM

Quads: 1 1120 (1) 1.5

Tronside with NW  $\frac{1}{4}$   
Tronside with SW  $\frac{1}{4}$

1/4  
1 MILE