## TIE RESOURCES AGENCY OF CALIFORNIA Department of Fish and Game

STREAM SURVEY	FILE FORM	No,
	Date Septer	mber 27, 1967
NAME Duffy Gulch	COUNTY Men	docino
STREAM SECTION entire FROM mouth To	headwaters	Length1-3/4mi.
TRIBUTARY TO NoyoRiver Twp 1	18N R 16W	Sec12
OTHER NAMES Not known RIVER SY	YSTEMNoyo	River
SOURCES OF DATA Personal observation and interviews	s with Dennis I	'avaris Unio <u>n Lum</u> ber

	EXTENT OF OBSERVATION - Surveyed by foot from mouth at Noyo River to							
EXTENT OF OBSERVATION	point 0.25 mi. above northeast fork in headwaters, a point marked by							
include Nameofb Surveyor, Date, Etc. LOCATION	remnants of cabin between branches of fork, a total distance of 1.75							
RELATION TO OTHER WATERS GENERAL DESCRIPTION	miles. Because of transportation to mouth by railroad speeder, survey							
Wetershed Immediate Drainage Basin	time was limited to 3 hrs. This time restriction limited the obtaining							
Altitude (Range) Gradient	of data. Survey made by E. R. J. Primbs on 26 August 1966.							
Width Depth	<u>LOCATION</u> - Duffy Gulch Creek flows into the Noyo River at a concrete							
How (Range) Velocity	culvert crossing of Duffy Gulch by the California Western Railroad at							
Bottum Spawning Areas	Alpine. Alpine is 16.25 miles east of the Fort Bragg station on the							
Pouls Shelter	California Western Railroad line. The nearest auto access to the mouth							
Barriers Diversio <b>ns</b>	is at Marwedel Boy's Camp, a point 1.5 miles southeast of the mouth on							
Temperatures Food	the railroad line,							
Aquatic Plants Winter Conditions	<u>RELATION TO OTHER WATERS</u> - Provides the Noyo River system with 1.05 mi.							
Pollution Springe	of good spawning grounds and 1.75 miles of fair nursery area.							
FISHES PRESENT AND SUCCESS OTHER VERTEBRATES	GENERAL DESCRIPTION -							
FISTING INTENSITY Ofher recreational use Acessibility	Watershed and Immediate Drainage Basin - Size: 2.50 sq. mi.; Duffy Gulch							
OWNERSHIP	Creek flows from springs issuing from Ramsey Ridge southeast; no current							
POSTED OR OPEN IMPROVEMENTS	logging, but owned by Union Lumber Co., V-shaped canyon with steep 60'							
PAST STOCKING GENERAL ESTIMATE RECOMMENDED MANAGEMENT	slopes; stream channel 10 ft30 ft. wide, average 24 ft. in width; stream							
SKETCH MA? REFERENCES AND MAPS	shade is 95%, primarily from trees and narrow canyon effect; redwood pre-							
ļ.	dominant with few red alder, tan bark oak, and big leaf maple trees; sword							
	ce, which is generally free from growth.							
	240 ft., at upper fish value 560 ft.							
	er mile to upper fish value.							
	. with range from 1 ft. to 9 ft.							
	ches with range from 2 inches to 3 ft. t mouth; 0.50 c.f.s. at northeast fork in headwaters.							
Velocity - Rapid	t mouth, 0.50 C.I.S. at northeast fork in neadwaters.							
	$f_{1}$ fine multiple 20% george groups $10\%$ fine groups $20\%$							
	Bottom - Boulders 10%, fine rubble 30%, coarse gravel 40%, fine gravel 20%.							
	<u>Spawning areas</u> - 70% of winter bed, average 6 ft. wide (31,680 sq. ft.) good.							
<u>Pools</u> - Summer flow primarily riffles; pool area 30%. Shelter - Fair: rubble.								
	to moderate log and debris jams; logs are from old logging operation,							
debris is from decay of old railroad bed and natural destruction of old cabins along stream								
bed. Jam #1 - $8'L$ , $30'W$ , $10'H$ ; jam #3 - $10'L$ , $30'W$ , $8'H$ .								
	bserved							
	red maximum at northeast fork in headwaters. 1200 8/26/66; air 64', water							
<b>_</b>	Ind 5 m.p.h., altitude 560 ft.							

## Duffy Gulch -Mendocino County

Food - Insects, - Two general of caddis fly larvae (Leptocella and Limnephilus); stonefly
and mayfly nymphs. <u>Abundance</u> - Caddis fly larvae numerous; stonefly and mayfly
nymphs scarce.
<u>Aquatic plants</u> - Moss
<u>Winter conditions</u> - Suitable for spawning: 2 ft. - 3 ft. maximum rise .
<u>Pollution</u> - None observed
<u>springs</u> - Only one observed at northeast fork in headwaters.
<u>FISHES PRESENT AND SUCCESS</u> 1. Silver salmon and steelhead

The following parr were netted, identified and examined before release in representative samples:

		Size			
	<u>Actual count</u>	Range	Average	Condi	ltion
Salmon Steelhead	41 21	1½"-2½" 1½"-2½"	l-3/4" l-1/2"	Slow Slow	growth growth

## Total 62

## 2. Other Fish Netted and Identified - None

Because of time limitations, the sample taken is too small for basing a reliable estimate of total production. However, the stream is below optimum for spawning and nursery. The summer mortality should be low. OTHER AQUATIC VERTEBRATES - Yellow legged frogs. FISHING INTENSITY - Not known OTHER RECREATIONAL USE - Campground at mouth ACCESSIBILITY - Accessible at mouth by California Western Railroad, 16.25 miles east of the Fort Bragg station. The nearest auto access to the mouth is at Marwedel Boy's Camp, a point 1.50 miles southeast of the mouth on the railroad line. OWNERSHIP - Union Lumber Co. POSTED OR OPEN - Open IMPROVEMENTS - Clearance of 11 small to moderate log and debris jams from mouth to northeast fork in headwaters, a total distance of 1.50 miles. PAST STOCKING - Not known GENERAL ESTIMATE - Duffy Gulch Creek has minor value for spawning and nursery of both steelhead and silver salmon. The current fish production is low, reduced considerably by the james formed from logs and debris, the latter arising from decay of an old railroad bed along the stream and from natural destruction of old cabins situated on the banks. The water temperature is low, the water highly oxidized, and the food ample for the current population, all factors suggesting a low summer mortality. RECOMMENDED MANAGEMENT - Duffy Gulch Creek should be managed for silver salmon and steelhead spawning and nursery. The eleven log jams should be cleared to facilitate adult and parr passage. SKETCH MAP - See attached REFERENCE AND MAPS 1. U.S.G.S. (Comptche, 1960) 15' series. 2. Jackson State Forest Map, California Division of Forestry (1965); scale 1/31,680