

THE RESOURCES AGENCY OF CALIFORNIA
 Department Of Fish And Game
STREAM SURVEY

Date: December 22, 1976

NAME: GREEN VALLEY CREEK COUNTY: Sonoma
 STREAM SECTION: Partial FROM: Green Valley Road TO: mouth LENGTH: 5.5 miles
 TRIBUTARY TO: Russian River TWP: 8 N R: 10 W SEC: 25
 OTHER NAMES: None known RIVER SYSTEM: Russian River
 SOURCES OF DATA: Personal observations

- EXTENT OF OBSERVATION
- Include: Name of Surveyor, Date, Etc.
- LOCATION
- RELATION TO OTHER WATERS
- GENERAL DESCRIPTION
 - Watershed
 - Immediate Drainage Basin
 - Altitude (Range)
 - Gradient
 - Width
 - Depth
 - Flow (Range)
 - Velocity
 - Bottom
 - Spawning Areas
 - Pools
 - Shelter
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- PAST STOCKING
- GENERAL ESTIMATE
- RECOMMENDED MANAGEMENT
- SKETCH MAP
- REFERENCES AND MAPS

EXTENT OF OBSERVATION-Green Valley Creek was surveyed on December 22, 1976. Observations were made on foot by Fish and Wildlife Seasonal Aids Mike Gillespie and Jane Webb.

RELATION TO OTHER WATERS-Green Valley is an important tributary to the Russian River providing summer and winter flows, valuable spawning and nursery habitat for steelhead and silver salmon.

GENERAL DESCRIPTION -

Watershed-Green Valley Creek heads in the low lying mountains between Occidental and Santa Rosa. The habitat consists of bay, oak and some grassland near the headwaters to conifers near the mouth. Orchards and vineyards are prevalent throughout this area. Livestock grazing occurs near the stream, also.

Immediate Drainage Basin-Green Valley Creek drains an area of about 14 square miles. The stream channel is bowl shaped and flows in a northerly direction through an open valley. Streamside vegetation is dense, consisting of bay, alder, willow, blackberry and wild rose.

Altitude-100' MSL at Green Valley Road to 80' MSL at the mouth.

Gradient-Four feet per mile.

Width-Stream width ranged from 2' to 20' with an ave. of 8'.

Depth-Stream depth ranged from 2" to 5' with an average of 2'.

Flow-Flows were measured visually as follows: At the confluence of Atascadero Creek and Green Valley Creek-4 cfs; at River Road and Green Valley Creek-1 cfs.

Velocity-Stream flow was moderate to rapid.

Bottom-The streambed was composed of approximately 60% mud and silt, 20% sand, 10% fine gravel, and 10% coarse gravel.

Spawning Areas-Most spawning gravels appear to be upstream of the confluence of Atascadero Creek and Green Valley Creek. One-quarter mile of stream north of Highway 116 is suitable spawning habitat, all other areas appeared to be heavily silted.

Pools-Pool development is poor (25% pool-75% riffle).

Shelter-Most shelter consists of overhanging terrestrial plants.

Barriers-3 partial barriers were noted (see sketch map). None appeared detrimental to anadromous fish migration.

Diversions-Several pumping stations have been constructed for diverting water into vineyards along the creek (see map).

Temperatures-The confluence of Atascadero Creek and Green Valley Creek-air 49°F., water 41°F. at 1000 hours; River Road and Green Valley Creek-air 46°F., water 42°F at 1630 hours.

Food-None observed, poor substrate in most areas.

Aquatic Plants-Duckweed and algae were commonly found along the creek.

Winter Conditions-High water marks and bank debris indicate winter depths between 5 and 15 feet above summer levels.

Pollution - None observed.

Springs - None observed.

FISHES PRESENT AND SUCCESS - The only fish observed were unidentified fingerlings near River Road. Visibility was limited by murky water.

OTHER VERTEBRATES - Cattle, red-tailed hawks, red-shoulder hawks.

FISHING INTENSITY - Use appeared light.

OTHER RECREATIONAL USES - Unknown.

ACCESSIBILITY - Many county roads bisect the stream.

OWNERSHIP - Private

POSTED OR OPEN - Most land was posted against trespass.

IMPROVEMENTS - None needed.

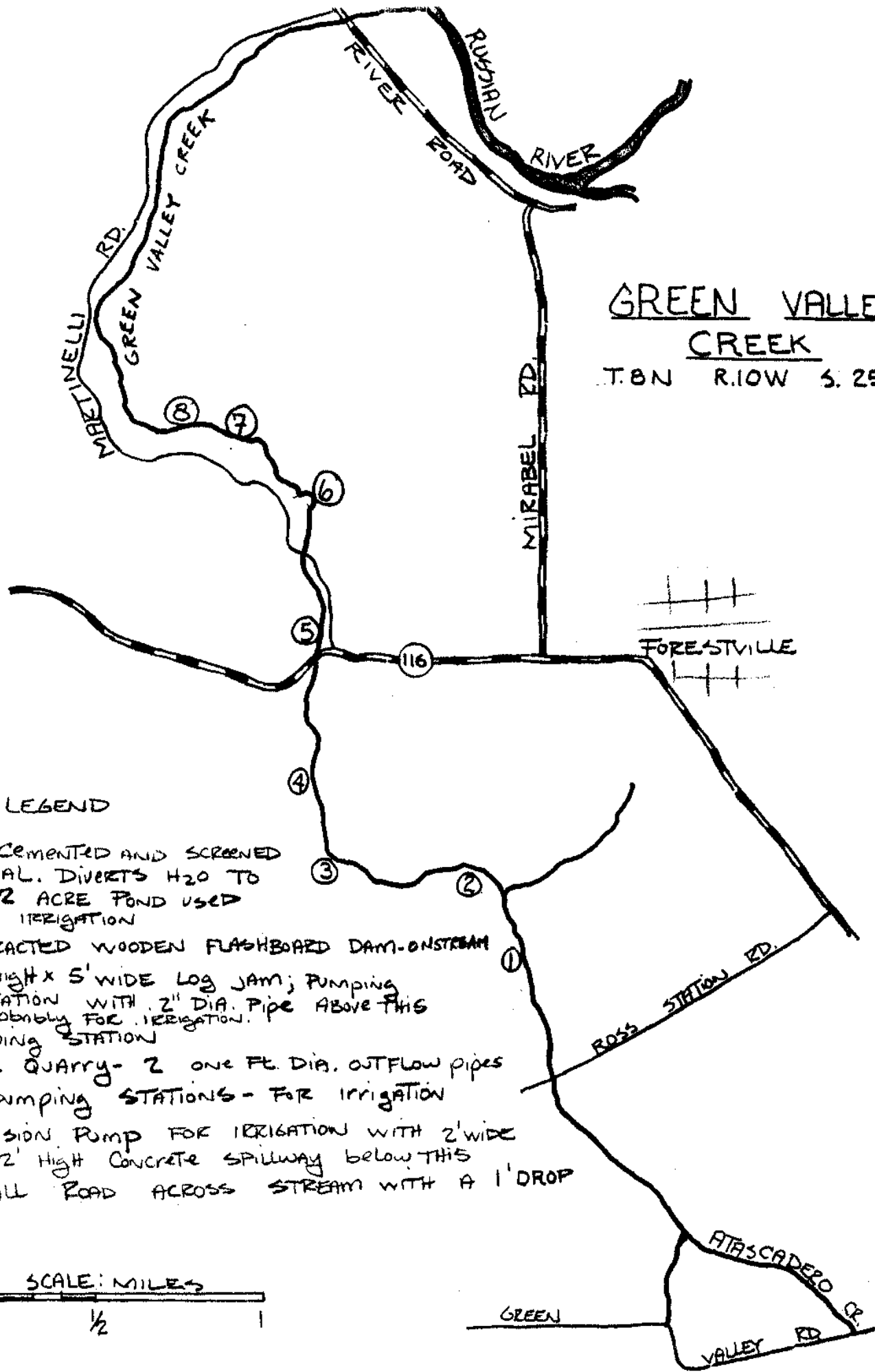
PAST STOCKING - None by the Department of Fish and Game.

GENERAL ESTIMATE - Green Valley Creek contributes summer and winter flows to the Russian River. The surveyed section of Green Valley Creek does not contain many valuable spawning sites although it is important as a migratory and nursery habitat for adult and juvenile steelhead and silver salmon.

RECOMMENDED MANAGEMENT - Green Valley Creek should be managed to protect the anadromous resources.

SKETCH MAP - Attached.

REFERENCES AND MAPS - Camp Meeker Quad., 7.5' series, 1954.



GREEN VALLEY CREEK
T. 8N R. 10W S. 25

LEGEND

- ① 15' CEMENTED AND SCREENED CANAL. DIVERTS H₂O TO A 2 ACRE POND USED FOR IRRIGATION
- ② RETRACTED WOODEN FLASHBOARD DAM-ONSTREAM
- ③ 2' HIGH X 5' WIDE LOG JAM; PUMPING STATION WITH 2" DIA. PIPE ABOVE THIS PROBABLY FOR IRRIGATION.
- ④ PUMPING STATION
- ⑤ ROCK QUARRY - 2 ONE FT DIA. OUTFLOW PIPES
- ⑥ 2 PUMPING STATIONS - FOR IRRIGATION
- ⑦ DIVERSION PUMP FOR IRRIGATION WITH 2' WIDE BY 2' HIGH CONCRETE SPILLWAY BELOW THIS
- ⑧ SMALL ROAD ACROSS STREAM WITH A 1' DROP

