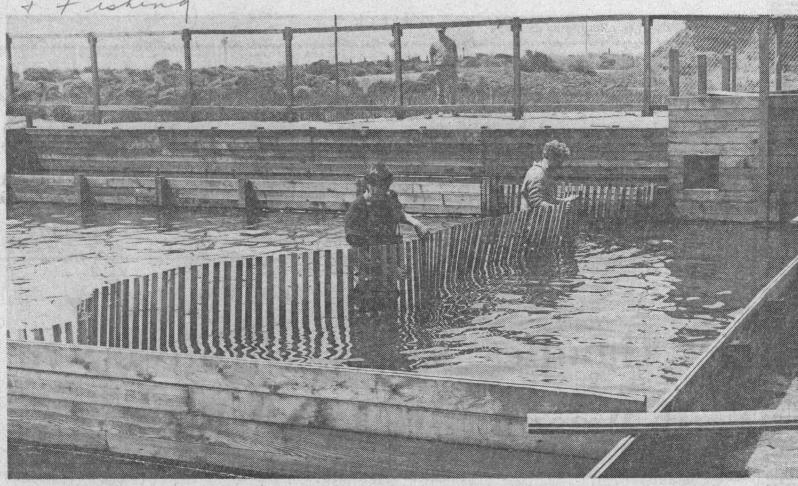
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turned is required for passage of the Those fish not marked are Ganoe bonds. A simple majority is allowed to go up steam to



Fish ranchers Thomas Tisch and T. Roger Hass use fencing to move scores of fish in pond to spawning shed

FISH RETURN FROM SEA

First Steelhead, Salmon 'Ranch'

By BOB LIGON Staff Writer

SANTA CRUZ - Two pi-

They've started the world's preserving, these creatures mercially of the deep.

omas ed" on dry land before being steelhead in the ocean than was let loose to roam the ocean.

The ranchers are Thomas spawned naturally. some A. Tisch and T. Roger Haas, partners in SilverKing this Oceanic Farms, Inc.

> Tisch, a biologist, and Haas, an agriculturebusiness major, started the venture three years ago and this year got their first crop, 5,000 silver salmon and 250 steelhead.

their herd at 50,000 fish an-ther strays or are caught by rred nually

orks like this:

length, they're transported to men, said Haas. the firm's fish corral near a mounts to about \$40,000,

Salinas To Vote On Bonds, Tax

quisi- District will ballot on a \$8- cent would survive as fish. niture million bond issue and a both \$700,000 tax override issue towel-day.

sale of bonds will be used to harvested. build a high school in the The firm has established the recount. new fast. Castroville Area. In come holding centers and fish ladvisor go into operating costs.

A two-thirds favorable vote their fish by clipping a fin.

on the coast 17 miles north of here.

Finally, they are set out to oneer fish ranchers have After three to four years, for staked a claim here that reasons not fully understood, could well push the western they come high-tailing it frontier right out into the Pa-back to the home stream to spawn.

Once corralled again, they only commercial salmon and are relieved of their eggs to steelhead ranch - a unique insure a new generation and method of harvesting, yet the adults are then sold com-

The end result is that they The fish are even "brand- are many more salmon and there would be if the fish had

The California Fish and Game Department is overseeing the operation. Special state legislation was adopted to try out the technique as a possible conservation tool.

Haas estimates that for every two fingerlings they release, one comes back as an They intend to level off adult fish. The others are eilocal fishermen.

This season's harvest of Fish spawn in the firm's hatchery in Scotts Valley. When they get to be finger length they are to be finger.

said Haas.

When the herd gets up to 50,000 fish, about 100,000 of them will be available to the public at large, said Haas.

Tisch said a 10-year study of Waddell Creek years ago revealed that between 200 returned annually to spawn The State Fish and Game

Department has declared that the fish that normally If approved money from are "wild" and cannot be three unsuccessful candi-



Thomas Tisch holds salmon—one of 5,250 harvested this season

Seaside Recount **Changes Nothing**

and 300 salmon and steelhead ballots cast for candidates for a final total of 380. Hugh there. These fish would lay for mayor of Seaside in the Bagley's total remained 166. SALINAS — Voters of the between 400,000 and 600,000 April 11 municipal election Mrs. Carey's demand for a Cruz County Supervisors todget-Salinas Union High School eggs, of which only 1 to 2 per did not change overall re-recount resulted virtually the day will consider a pay raise still emerging the winner.

> spawned at Waddell Creek councilwoman and one of the June 29, 1971. dates for mayor, demanded

1,323

Write-in candidate Guiller- Mrs. Carey's total.

SEASIDE — A recount of mo Bautista gained one vote.

mand she made following her Chang. Mrs. Pearl Carey, former recall from the council on

She gained one vote, for a Carey's recall from the coun-

D.A. Chang Asks Raise Of \$6,000

SANTA CRUZ - Santa sults, with Bernard J. Dolan same result as a similar de-for District Attorney Peter

> Chang has asked that his \$25,000-a-year salary be in-That recall movement, led creased to \$31,000, the same by Dolan, resulted in Mrs. as that paid to municipal

Chang, in a letter to superfrom the tax override would ders near the mouth of Wad-final total of 1,258. Dolan lost cil by the vote of 1,532 to 1,-visors, says his salary is dell Creek. The owners mark six votes, for a final total of 501. A recount resulted in the "well below the average for addition of a single vote to the nine comparison counties

in four salary surveys.' Chang, who has received

that the fish that normally spawned at Waddell Creek counc toom are "wild" and cannot be three to harvested. dates The firm has established the re he ne holding centers and fish ladald ders near the mouth of Wad-final

dell Creek. The owners mark six v te their fish by clipping a fin. Those fish not marked are he is allowed to go up steam to

spawn naturally. he

While nature's egg-fish ra- 913 tio is 1 to 2 per cent, Silver King's ratio is between 70 and 80 per cent. That's because the fish are raised in a hatchery under controlled conditions.

The firm is permitted to release 10 to 20 times as many fish as it captures in

Tisch said that if they

should halt the operation, the

any given year.

fish population at Waddell Creek would be what it was in the past. Haas said that King Salmon will average about 30 pounds, while silver salmon and steelhead aver-

age about 15 pounds. So far, only a few king salmon have returned to spawn. These salmon normally re-turn in four years, while the company has only been in operation three years.

Haas, a graduate of Cal Poly College in San Luis Obispo, did a thesis on the fish

ranch idea.

Haas and Tisch, have been friends since attending Santa Cruz High School here years

"The idea of 'fish farming' Santa

has been around for some er's b time I guess, said Haas, "but Hornt we just put it into practice."

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