

Scientists say reform needed for salmon hatcheries

(AP) – Salmon produced by hatcheries in the Columbia Basin are no substitute for salmon spawned naturally in rivers, but can still help restore wild runs if significant changes are made, a team of scientists has reported to Congress.

The report said fish spawned in the wild have the genetic diversity to weather changes in their environment, but 130 years of substituting hatcheries for habitat has produced fish that are slowing efforts to re-

store dwindling runs.

"If hatcheries continue to be operated the way they are, the plight of natural populations may become worse rather than better," said Lars Mobrand, a Seattle consultant and former chairman of the review group.

The same narrowing of genetic variation was blamed partly for the crash last year of fall chinook on the Sacramento River in California, which led to a shutdown of sport and commercial ocean fishing off Cali-

fornia and most of Oregon.

"We have so narrowed the genetic makeup of these populations that when we see things like changing ocean conditions and perhaps even climate change we don't have the ability for salmon to adapt to those things," said Peter Paquet, a member of the Hatchery Scientific Review Group. "Historically, salmon have been good at this—they have been for 10,000 years of various climate conditions."

The report, prepared at the behest of Congress, said outdated hatchery practices should be changed so that they focus on broadening genetic diversity and reducing the harm to wild runs, rather than pumping out the most young fish possible.

Studies have shown that hatchery fish produce up to 50 percent fewer eggs than wild fish when they spawn in the wild, and that behavioral characteristics that help fish thrive in hatcheries can make them less successful in the wild.

The Hatchery Scientific Review Group spent two years reviewing 358 populations of salmon and steelhead in the

Columbia Basin and hatcheries producing 178 strains of fish.

They found most hatcheries are still operating to outdated standards, and some are so poorly maintained they violate environmental laws with their discharges.

Recommendations focused on ways to maintain and expand genetic diversity among fish, such as using wild fish from local waters to spawn young fish, and taking steps to prevent hatchery fish and wild fish from mixing on spawning grounds.

The panel said reforming hatchery practices would increase salmon runs more quickly than habitat restoration, and

combined with habitat restoration would trigger stronger improvements than either one by itself.

Basin hatcheries date to 1877. Dozens are now operated by states, tribes, utilities and the federal government – intended to make up for spawning and rearing habitat destroyed by dams, logging, agriculture, and urban development as the Northwest's population has grown.

More than 80 percent of fish returning to the mouth of the Columbia are spawned in hatcheries, and 13 wild runs are protected by the Endangered Species Act.

Council seeks to fill committee, board vacancies

The Tribal Council of the Confederated Tribes of Warm Springs Reservation of Oregon, would like to advertise the following:

Timber committee: one position/tribal member.

This committee is an advisory body to the Tribal Council. The committee shall operate under the supervision of the Tribal Council which has delegated specific authority listed below. In the exercise of advisory and authority functions, the committee shall cooperate with other Council committees and management personnel:

Specific Duties:

1. Committee will met on a regular monthly basis.

Has the authority to request and secure information for review and recommend to the Tribal Council.

2. Reviews and recommends:

Approve timber permit policies, location and provisions of proposed timber sales, periodically make field inspections of timber and logging areas, make recommendations and inspections rehabilitation burn areas, areas to log and areas not to be logged, keeping current on new methods of harvest and utilization, keeping current with environmental protection laws.

3. Meet quarterly with other resource committee's – Land Use, Fish & Wildlife, Waterboard, Range and Housing Authority.

Letters of Interest and Resumes' of applicants interested in serving on the Tribal Committee, submit to the following address by **no later than April 24, 2009**: please be detailed with education, work experience and if you presently participate in tribal activities.

Charles R. Calica, Secretary-Treasurer, P.O. Box 455, Warm Springs, OR 97761.

Authorization letter will be mailed to all applicants for a criminal background check to be completed returned to Secretary-Treasurer's office. Information will be submitted confidentially to the Secretary-Treasurer.

Enterprise will be under the supervisory review and direction of this board of directors.

Classification and terms of office of the board of directors: Class III shall consist of one member who shall be an enrolled member of the tribes. The Class III directors shall have an initial term in office expiring Jan. 1, 2012 or until their successors are appointed and take office.

Members of the board of directors must have a reputation for industry, dependability, honesty and integrity. It shall be an initial and continuing qualification for members of the board of directors that they have no loan with the tribes that is in a delinquent status.

General powers: The business and affairs of the enterprise shall be managed and controlled by the board of directors.

Regular meetings: Regular meetings of the board of directors shall be held quarterly for the purpose of reviewing the preceding three months' operations, making plans for the ensuing three months' operations, and the transaction of such other business as may come before this meeting. The first regular meeting in each fiscal year shall also be the annual meeting of the board of directors. The board shall review the preceding year's operations, elect officers and transact such other business as may come before the meeting. The regular meetings shall be held at the time and place specified by the president of the board in the notice of the meeting.

Special meetings: Special meetings of the board of directors may be called by the president of the board or any three members of the board of directors. Meetings shall be held at the time and place specified by the person or persons calling such meeting.

Letters of interest and resumes of applicants interested in serving on the board of director, submit to the following address by **no later than April 24, 2008**:

Charles R. Calica, secretary-treasurer, P.O. Box 455, Warm Springs, OR 97761.

Authorization letter will be mailed to all applicants for a criminal and credit background check to be completed returned to the secretary-treasurer's office. Information will be submitted confidentially to the secretary-treasurer.

The Tribal Council of the Confederated Tribes of Warm Springs Reservation of Oregon would like to advertise the following: **Warm Springs Composite Products (WSCP) Board of Directors, one position, one tribal/non-member position, Class I.**

The business and affairs of WSCP shall be managed and controlled by the board of directors.

The board of directors consists of five directors.

The board shall be divided into three classes, designated Class I, Class II and Class III.

Class I shall consist of one individual who shall be either a member of the tribe or a nonmember of the tribe who is interested in the economic and social development of the tribe and its membership and who possesses expertise in marketing, management, manufacturing, finance, banking or some other field which would benefit WSCP. The Class I director shall have an initial term in office expiring on December 31, next following the Class I director's appointment by Council, or until a successor is appointed and takes office. Term ending 12/31/11.

Regular meetings of the board shall be held quarterly on the third Monday in the months of February, May, August and November for the purpose of reviewing the preceding three month's operations, making plans for the ensuing three month's operations, and the transaction of such other business as may come before the meeting.

A majority of the directors in office shall constitute a quorum for the transaction of business at any meeting of the board of the directors, provided that at least one director present be a tribal member.

Letters of interest and resumes of applicants interested in serving on the board of directors, submit to the following address by **April 24, 2009**:

Charles R. Calica, secretary-treasurer, P.O. Box 455, Warm Springs, OR 97761.

Authorization letter will be mailed to all applicants for a criminal and credit background check to be completed returned to secretary-treasurer's office. Information will be submitted confidentially to the secretary-treasurer.

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