

CHAPTER 17

CONCLUSION

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17 CONCLUSION

17.1 Bromoxynil

After reviewing the current status of salmonid species listed under the Endangered Species Act, their environmental baseline within the action area, the effects of the proposed action and cumulative effects, it is the National Marine Fisheries Services' biological opinion that the Environmental Protection Agency's action in the registration of the authorized uses, as specified by approved product labels, of all pesticide products containing bromoxynil is not likely to jeopardize the continued existence of twenty-eight Pacific Salmonid species and not likely to destroy or adversely modify the designated critical habitat of those twenty-eight listed species (Table 1, Table 2).

17.2 Prometryn

After reviewing the current status of salmonid species listed under the ESA, their environmental baseline within the action area, the effects of the proposed action, and cumulative effects, it is NMFS' biological opinion that the EPA's action in the registration of the authorized uses, as specified by approved product labels, of all pesticide products containing prometryn is not likely to jeopardize the continued existence of twenty-eight Pacific Salmonid species and not likely to destroy or adversely modify the designated critical habitat of those twenty-eight listed species (Table 1, Table 2).

Table 1. Jeopardy conclusions for ESA-listed Pacific Salmonids; bromoxynil and prometryn.

Species Name	Bromoxynil	Prometryn
Chum salmon , Columbia River ESU	No Jeopardy	No Jeopardy
Chum salmon, Hood Canal summer-run ESU	No Jeopardy	No Jeopardy
Chinook salmon, California coastal ESU	No Jeopardy	No Jeopardy
Chinook salmon, Central Valley spring-run ESU	No Jeopardy	No Jeopardy
Chinook salmon, Lower Columbia River ESU	No Jeopardy	No Jeopardy
Chinook salmon, Puget Sound ESU	No Jeopardy	No Jeopardy
Chinook salmon, Sacramento River winter-run ESU	No Jeopardy	No Jeopardy
Chinook salmon, Snake River fall-run ESU	No Jeopardy	No Jeopardy
Chinook salmon, Snake River spring/summer run ESU	No Jeopardy	No Jeopardy
Chinook salmon, Upper Columbia River spring-run ESU	No Jeopardy	No Jeopardy
Chinook salmon, Upper Willamette River ESU	No Jeopardy	No Jeopardy
Coho salmon, Central California coast ESU	No Jeopardy	No Jeopardy
Coho salmon, Lower Columbia River ESU	No Jeopardy	No Jeopardy

Coho salmon, Oregon coast ESU	No Jeopardy	No Jeopardy
Coho salmon, S. Oregon and N. Calif coasts ESU	No Jeopardy	No Jeopardy
Sockeye, Ozette Lake ESU	No Jeopardy	No Jeopardy
Sockeye, Snake River ESU	No Jeopardy	No Jeopardy
Steelhead, California Central Valley ESU	No Jeopardy	No Jeopardy
Steelhead, Central California coast ESU	No Jeopardy	No Jeopardy
Steelhead, Lower Columbia River ESU	No Jeopardy	No Jeopardy
Steelhead, Middle Columbia River ESU	No Jeopardy	No Jeopardy
Steelhead, Northern California ESU	No Jeopardy	No Jeopardy
Steelhead, Puget Sound ESU	No Jeopardy	No Jeopardy
Steelhead, Snake River Basin ESU	No Jeopardy	No Jeopardy
Steelhead, South-Central California coast ESU	No Jeopardy	No Jeopardy
Steelhead, Southern California ESU	No Jeopardy	No Jeopardy
Steelhead, Upper Columbia River ESU	No Jeopardy	No Jeopardy
Steelhead, Upper Willamette River ESU	No Jeopardy	No Jeopardy
Totals (Jeopardy determinations / total species)	0 / 28	0 / 28

Table 2. Adverse Modification conclusions for designated critical habitat of listed Pacific Salmon ESUs/DPS; bromoxynil and prometryn.

Species Name	Bromoxynil	Prometryn
Chum salmon , Columbia River ESU	No Adverse Modification	No Adverse Modification
Chum salmon, Hood Canal summer-run ESU	No Adverse Modification	No Adverse Modification
Chinook salmon, California coastal ESU	No Adverse Modification	No Adverse Modification
Chinook salmon, Central Valley spring-run ESU	No Adverse Modification	No Adverse Modification
Chinook salmon, Lower Columbia River ESU	No Adverse Modification	No Adverse Modification
Chinook salmon, Puget Sound ESU	No Adverse Modification	No Adverse Modification
Chinook salmon, Sacramento River winter-run ESU	No Adverse Modification	No Adverse Modification
Chinook salmon, Snake River fall-run ESU	No Adverse Modification	No Adverse Modification
Chinook salmon, Snake River spring/summer run ESU	No Adverse Modification	No Adverse Modification
Chinook salmon, Upper Columbia River spring-run ESU	No Adverse Modification	No Adverse Modification
Chinook salmon, Upper Willamette River ESU	No Adverse Modification	No Adverse Modification
Coho salmon, Central California coast ESU	No Adverse Modification	No Adverse Modification
Coho salmon, Lower Columbia River ESU	No Adverse Modification	No Adverse Modification
Coho salmon, Oregon coast ESU	No Adverse Modification	No Adverse Modification
Coho salmon, S. Oregon and N. Calif coasts ESU	No Adverse Modification	No Adverse Modification
Sockeye, Ozette Lake ESU	No Adverse Modification	No Adverse Modification
Sockeye, Snake River ESU	No Adverse Modification	No Adverse Modification
Steelhead, California Central Valley ESU	No Adverse Modification	No Adverse Modification
Steelhead, Central California coast ESU	No Adverse Modification	No Adverse Modification
Steelhead, Lower Columbia River ESU	No Adverse Modification	No Adverse Modification
Steelhead, Middle Columbia River ESU	No Adverse Modification	No Adverse Modification
Steelhead, Northern California ESU	No Adverse Modification	No Adverse Modification
Steelhead, Puget Sound ESU	No Adverse Modification	No Adverse Modification
Steelhead, Snake River Basin ESU	No Adverse Modification	No Adverse Modification
Steelhead, South-Central California coast ESU	No Adverse Modification	No Adverse Modification
Steelhead, Southern California ESU	No Adverse Modification	No Adverse Modification
Steelhead, Upper Columbia River ESU	No Adverse Modification	No Adverse Modification
Steelhead, Upper Willamette River ESU	No Adverse Modification	No Adverse Modification
Totals (Adverse Modification determinations / total designated critical habits)	0 / 28	0 / 28