

Water Quality Assessment

Prepared by John Blanchard, Oregon Department of Environmental Quality

Product 10 of the Illinois River Watershed Assessment Plan of Work, 4/1/96, was to consist in part of a review and update of the Oregon Department of Environmental Quality Water Quality Status report.

Introduction/Summary of Concerns

Oregon is required by the Clean Water Act (CWA) to assess water quality and provide the Environmental Protection Agency with a list of waterbodies that do not meet water quality standards. This is the 303(d) list. In the Illinois River system, the 1998 list included 37 streams or stream segments. The listings fall in three categories:

- Temperature
- Flow Modification
- Habitat Modification

Although the 303(d) list does not identify reasons for the particular listings, there has been further work, required by the Clean Water Act, that does point to various causes of the listings. Temperature is affected mainly by stream shade, channel form, sediment and flow. Habitat modification is affected by sediment delivered from forest, farm and urban practices, as well as roads, natural sources and removal of large wood from streams. Flow modification is due to withdrawal of water from the streams and land management practices that reduce the storage capacity of the watershed, thereby increasing peak flows and reducing low flows.

Temperature is by far the largest problem in the Illinois Basin. However, habitat and flow issues also contribute to temperature problems and their effect on temperature must be addressed when identifying measures to restore stream temperatures to the standard.

Water Quality Status Report

Information identified in this section comes from the Department of Environmental Quality - Water Quality Section. Documents provided include:

1998 303(d) List Fact Sheet/Introduction.

This one-page introduction provides a brief explanation of the State of Oregon's responsibilities to identify water quality limited waters under the Clean Water Act along with a discussion of some legal changes that have occurred in the past.

Oregon's Final 1998 Water Quality Limited Streams - 303(d) List

This document, condensed to the 37 Illinois sub-basin segments identifies all streams in the basin that fail to meet water quality standards designed to support an identified beneficial use. (There are nearly 1,100 streams on the statewide 303(d) list.) Changes from the 1996 303(d) list are identified.

Final 1998 Oregon Section 303(d) List Decision Matrix

The decision matrix, also condensed to Illinois sub-basin information only, includes information on all streams for which information was evaluated. It identifies if the segment was placed on the 303(d) list or explains why a stream was not placed on the list.

Draft 1998 Illinois River Basin Water Quality Technical Assessment (Appendix C)

This document is a summary of data collected in the basin with the main focus on information collected by DEQ. It also describes existing water quality programs and existing regulatory programs. Some of the 303(d) list information is repeated in this document.

Oregon's 1998 Water Quality Status Assessment Report = Section 305(b) Report

This report is also a State responsibility under the Clean Water Act. It is required to be submitted to the Environmental Protection Agency (EPA) every two years for that agency's use in preparing a summary report for the U. S. Congress on the status of the nation's waters. **The 305(b) report covers the entire State. It is not included in this assessment, but can be used for comparison of the Illinois on a State-wide basis.** Copies of the 305(b) report can be obtained by contacting John Blanchard at 541-776-6010, extension 240, in Medford. The report is also available on the DEQ website at: <http://waterquality.deq.state.or.us/wq/305bRpt/305bReport.htm>.

Water Quality Status Report

1998 303(d) List Fact Sheet

Introduction

The 1972 Clean Water Act requires the listing of streams, rivers, lakes and estuaries that do not meet water quality standards. States must submit a list of these “water quality limited” waters to the Environmental Protection Agency (EPA) every two years.

DEQ is required to follow guidance provided by EPA when compiling the list. In past years, DEQ produced the list based on readily available information. In 1995, EPA was required by court order to change the guidelines for Oregon. Significant changes included a requirement that DEQ conduct a comprehensive search for all available data that might indicate the water quality of a stream, river, lake or estuary.

The 1998 list is a part of a process to best determine how to protect water quality, meet Federal requirements and, at the same time, recognize the good efforts already underway by people to improve water quality in their watersheds.

The 1994/96 list included 870 segments of waterbodies that failed to meet water quality standards for one or more parameters. Many of the “segments” actually included the entire stream. In 1998, DEQ was able to be more precise about what constituted a stream segment because of information it received during the public “request for data” from September 22 to November 21, 1997.

Therefore, the 1998 list establishes segments in a different manner, making direct comparisons between segments from the 1998 list and the previous list very difficult. One stream “segment” from the 1994/96 list may now be divided into three or more segments.

The amount of documentation associated with the 303(d) listing process is massive and mostly technical in nature. The fact sheets in this summary give a less technical overview of the listing process. The summary includes fact sheets on the 303(d) listing process, the temperature standard, DEQ’s process for developing total maximum daily loads, guidance on how to view and get copies of documents, a list of the public libraries that are repositories of documents for viewing and a document list with prices.

It is important to note that there has been past confusion between two 303(d)-related documents - the 303(d) list and the “decision matrix.” The decision matrix includes the *entire* database that is used to compile lists such as 303(d). The 303(d) list is a subset of the matrix. Therefore, if you wish to know which waterbodies are listed as water quality limited, please only refer to the document titled 303(d) list.

The attached 303(d) list has been approved by EPA. Copies of all the documents associated with the 1998 303(d) list have been sent to the reference section of 30 public libraries around Oregon and are available in all DEQ offices. In addition, copies are available for viewing at all USDA Natural Resources Conservation Service offices and local Soil and Water Conservation District offices. People can view and download copies of the documents from DEQ's web site at www.deq.state.or.us and then clicking on "water quality." If you are unsure of DEQ office locations, or would like copies of the documents, you may call DEQ's Water Quality Division at 503-229-5279 or toll free in Oregon 1-800-452-4011. People with hearing impairments may call DEQ's TTY at 503-229-6993. There will be a charge for copying and mailing of most documents.

Copies of all the documents are available in alternate format (e.g., large type or Braille) upon request by calling DEQ Public Affairs at 503-229-5766.

Oregon's Final 1998 Water Quality Limited Streams - 303(d) List

Basin: *Rogue*

Sub: *Illinois*

Name & Description	Segment #	Parameter	Criteria	Season	Supporting Data or Information	Changes From 1994/96
Althouse Creek Mouth to river mile 7.5 (Tartar Gulch)	15E-ALTH0	Temperature	Rearing 64 F (17.8 C)	Summer	Additional data shows Temperature data 7 day Ave. Max up to 69.0°F, exceeded 64°F, at 5 sites	Addition
Bear Creek Mouth to Headwaters	15E-BEAR0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data (Site at mouth): 7 day moving average of daily maximums of 64.5 with 4 days exceeding temperature standard (64) in 1993. 1994 data shows 79.8°	
Briggs Creek Mouth to Horse Creek	15E-BRIG0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data (2 Sites: Below and Above Soldier Cr): 7 day moving average of daily maximums of 65.2/68.9 and nd/68.0 with 6/45 and nd/32 days exceeding temperature standard (64) in 1993/1994 respectively. Additional 6 sites all show violations of temperature criteria 1992 through 1996 up to (69.3°F)	
Canyon Creek Mouth to Headwaters	15E-CANY0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data (Site T39S,R9W,S11): 7 day moving average of daily maximums of 68.6 and 73.3 with 34 and 74 days exceeding temperature standard (64) in 1993 and 1994 respectively. USFS data in 1990 showed a 7 day average of daily maximums of 73.5. Exceedence of temperature criteria at 3 sites 1992-96 75.5°F.	
Canyon Creek, South Fork Mouth to headwaters	15E-CASF0	Temperature	Rearing 64 F (17.8 C)	Summer	1991 data shows exceedence of temperature criteria, 65.7°F	Addition
Collier Creek Mouth to South Fork	15E-COLL0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data (Site at mouth): 7 day moving average of daily maximums of 67.3 with 25 days exceeding temperature standard (64) in 1993.	
Deer Creek Mouth to North/South Fork Confluence	15E-DEER0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data (Site at mouth): 7 day moving average of daily maximums of 75.7 with 66 days exceeding temperature standard (64) in 1993. 1992 (81.0 °F) 2 sites in 1996 (71.0 °F) & (78.1 °F)	

Oregon's Final 1998 Water Quality Limited Streams - 303(d) List

Basin: *Rogue*

Sub: *Illinois*

Name & Description	Segment #	Parameter	Criteria	Season	Supporting Data or Information	Changes From 1994/96
Deer Creek, South Fork						
Mouth to RM 2	15E-DESF0	Temperature	Rearing 64 F (17.8 C)	Summer	BLM Data (Site above Dry Creek): 7 day moving average of daily maximums of 65.3 and 64.4 exceeded temperature standard (64) in 1994 and 1995 respectively. USFS data 1992, 67.0°F	
Dry Creek (South Fork Deer Cr)						
Mouth to Headwaters	15E-DRY0	Temperature	Rearing 64 F (17.8 C)	Summer	BLM Data (Site above confluence with South Fork Deer Creek - T38S,R6W,S17): 7 day moving average of daily maximums of 62.5 and 64.4 with 0 and 6 days exceeding temperature standard (64) in 1994 and 1995 respectively. In 1996, the 7 day moving average of daily maximums was 66.5. 1997 (63.0°F)	Addition
Dunn Creek						
Mouth to Headwaters	15E-DUNN0	Temperature	Rearing 64 F (17.8 C)	Summer	1992 data shows exceedence of temperature criteria, 71.0°F	Addition
Elk Creek						
Mouth to California Border	15E-ELK0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data (Site at gage): 7 day moving average of daily maximums of 68.8 with 28 days exceeding temperature standard (64) in 1993. 1996 (71.5°F)	
Fall Creek						
Mouth to Headwaters	15E-FALL0	Temperature	Rearing 64 F (17.8 C)		1996 data shows exceedence of temperature criteria, 67.5°F	Addition
Fiddler Gulch						
Mouth to Headwaters	15E-FIDDO	Temperature	Rearing 64 F (17.8 C)	Summer	Krebs (1993): Monthly mean maximums of 65 to 70 exceeded standard (64) between June and September 1992. USFS Data in 1991 showed a 7-day moving average of daily maximums of 70.9 and 1992 (73.3°F)	
Free and Easy Creek						
Mouth to Headwaters	15E-FREE0	Temperature	Rearing 64 F (17.8 C)	Summer	Data shows exceedence of temperature criteria, 1996 (72.9°F); 1997 (71.3°F)	Addition
Grayback Creek						
Mouth to Headwaters	15E-GRAY0	Habitat Modification			Coho and Winter Run Steelhead have been petitioned under ESA, large wood, pool depth and frequency were below expected conditions (Grayback/Sucker Pilot Watershed Analysis (USFS, 1995).	

Oregon's Final 1998 Water Quality Limited Streams - 303(d) List

Basin: *Rogue*

Sub: *Illinois*

Changes
From 1994/96

Name & Description	Segment #	Parameter	Criteria	Season	Supporting Data or Information	From 1994/96
Illinois River						
Mouth to Briggs Creek	15E-ILLI0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data (2 Sites: Above Silver and At mouth): 7 day moving average of daily maximums of 73.6/76.5 and 72.0/74.1 with 55/81 and 52/81 days respectively exceeding temperature standard (64) in 1993 and 1994 respectively; Siskiyou Audubon Society (2 sites: above Briggs Creek and above Lawson Creek): 7 day moving average of daily maximums of 80.0 and 75.0 exceeding temperature standard (64) in 1996 respectively.	
Briggs Creek to East/West Fork Confluence	15E-ILLI32.5	Flow Modification			Coho populations are depressed and are designated as a sensitive species, Winter Steelhead are declining; low flows due to water withdrawals have been identified as a limiting factors (ODFW, 93); IWR (072843) are often not met at USGS gage 14377100.	
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data (2 Sites: At Kerby gage and Above Briggs): 7 day moving average of daily maximums of 76.0/79.7 and 73.1/nd with 71/73 and 73/nd days exceeding temperature standard (64) in 1993 and 1994 respectively; Siskiyou Audubon Society (2 sites: at Gage Station (above Josephine Creek) and above Falls Creek): 7 day moving average of daily maximums of 79.0 and 80.0 exceeding temperature standard (64) in 1996 respectively.	
Illinois River, East Fork						
Mouth to California Border	15E-ILEF0	Flow Modification			Coho populations are depressed and are designated as a sensitive species, Winter Steelhead are declining; low flows due to water withdrawals have been identified as a limiting factors (ODFW, 93); IWR (070979) are often not met at USGS gage 14372500.	
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data (Site T40S,R8W,S11): 7 day moving average of daily maximums of 73.4 with 85 days exceeding temperature standard (64) in 1994, 1995 (71.0°F) and 1996 (73.9°F);Siskiyou Audubon Society (Site near mouth): 7 day moving average of daily maximums of 72.0 exceeding temperature standard (64) in 1996.	

Oregon's Final 1998 Water Quality Limited Streams - 303(d) List

Basin: *Rogue*

Sub: *Illinois*

						Changes
Name & Description	Segment #	Parameter	Criteria	Season	Supporting Data or Information	From 1994/96
Illinois River, West Fork Mouth to California Border	15E-ILWF0	Flow Modification			Coho populations are depressed and are designated as a sensitive species, Winter Steelhead are declining; low flows due to water withdrawals have been identified as a limiting factors (ODFW, 93); IWR (070996) are often not met at USGS gage 14375500.	
Mouth to California Border	15E-ILWF0	Temperature	Rearing 64 F (17.8 C)	Summer	Krebs (1993): Monthly mean maximums of 69 to 76 exceeded standard (64) between June and September 1992. USFS data from 5 sites: 1992, 77.8/77.5°F; 1996, 78.3/80.9/74.4/84.4°F	
Indigo Creek Mouth to East Fork	15E-INDI0	Temperature	Rearing 64 F (17.8 C)	Summer	2 sites show exceedence of temperature criteria, 1990 (70.6 above N.F. and 72.2°F at mouth) 1991 (69.9°F above N.F.)	Addition
Indigo Creek, North Fork Mouth to Headwaters	15E-INNF0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data (Site at mouth): 7 day moving average of daily maximums of 64.0 with 5 days exceeding temperature standard (64) in 1993. 1995, 67.0°F and 1996, 69.3°F both exceeded temperature criteria.	Addition
Josephine Creek Mouth to Headwaters	15E-JOSE0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data: 7 day moving average of daily maximums of 81.4 exceeded temperature standard (64) in 1990.	Addition
Klondike Creek Mouth to Headwaters	15E-KLON0	Temperature	Rearing 64 F (17.8 C)	Summer	1996 data shows exceedence of temperature criteria, 68.5°F	Addition
Lake Creek (Sucker Creek) Mouth to diversion	15E-LAKE0	Temperature	Rearing 64 F (17.8 C)	Summer	BLM site for 1994 to 1997 data shows exceedence of temperature criteria, (76.9, 74.1, 77.4 and 72.8°F)	Addition
Lawson Creek Mouth to river mile 5	15E-LAWS0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data (Site at mouth): 7 day moving average of daily maximums exceeding temperature standard (64) in 1990 to 1996 (71.5, 70.6, 72.5, 67.2 69.7, 69.0 69.7°F) and two other sites in 1994 (69.9, 69.6°F).	Segment Modification

Oregon's Final 1998 Water Quality Limited Streams - 303(d) List

Basin: *Rogue*

Sub: *Illinois*

Name & Description	Segment #	Parameter	Criteria	Season	Supporting Data or Information	Changes From 1994/96
Rancherie Creek						
Mouth to Headwaters	15E-RANC0	Temperature	Rearing 64 F (17.8 C)	Summer	1996 data shows exceedence of temperature criteria, 70.8°F	Addition
Rough & Ready Creek						
Mouth to North/South Confluence	15E-ROUG0	Temperature	Rearing 64 F (17.8 C)	Summer	Krebs (1993): Monthly mean maximums of 72 to 79 exceeded temperature standard (64) between August and September 1992; Siskiyou Audubon Society (1 sites below N and S Forks: 42 05' 35" lat, 123 44' 35" long): 7 day moving average of daily maximums of 82.1°F in 1992 and 79.7 in 1996 exceed temperature standard (64).	
Rough & Ready Creek, South Fork						
Mouth to Headwaters	15E-ROSF0	Temperature	Rearing 64 F (17.8 C)	Summer	Siskiyou Audubon Society (sites near mouth): 7 day moving average of daily maximums of 74.7 exceeding temperature standard (64) in 1996.	Addition
Silver Creek						
Mouth to Todd Creek	15E-SILV0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data: 4 sites (Site at mouth): 7 day moving average of daily maximums 1990 to 1993, 70.0, 69.9, 70.9, 67.4. Other sites 67.6, 63.0, 67.3 and 69.3.	
Silver Creek, North Fork						
Mouth to Hawk Creek	15E-SINF0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data: 7 day moving average of daily maximums of 69.7 with 14 days exceeding temperature standard (64) in 1993.	
Silver Creek, South Fork						
Mouth to Headwaters	15E-SISF0	Temperature	Rearing 64 F (17.8 C)	Summer	1990 data shows exceedence of temperature criteria, 65.2°F, 1991, 64.0°F was at temperature standard (64)	Addition
Sixmile Creek						
Mouth to Headwaters	15E-SIXM0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data (Site at mouth): 7 day moving average of daily maximums of 64.4 and 67.8 with 8 and 31 days exceeding temperature standard (64) in 1993 and 1994 respectively. 1995, 65.0 and 1996, 67.1°F.	
Soldier Creek						
Mouth to Spalding Dam	15E-SOLD0	Temperature	Rearing 64 F (17.8 C)	Summer	Data shows exceedence of temperature criteria, 4 years 1991, 67.7°F; 1992, 65.5; 1995, 67.0; and 1996, 71.7°F	Addition

Oregon's Final 1998 Water Quality Limited Streams - 303(d) List

Basin: *Rogue*

Sub: *Illinois*

Changes

Name & Description	Segment #	Parameter	Criteria	Season	Supporting Data or Information	From 1994/96
Sucker Creek						
Mouth to Bolan Creek	15E-SUCK0	Flow Modification			Coho populations are depressed and are designated as a sensitive species, Winter Steelhead are declining; low flows due to water withdrawals have been identified as a limiting factors (ODFW, 93); IWR (62323) are often not met at USGS gage 14375100.	
Mouth to Bolan Creek	15E-SUCK0	Habitat Modification			Coho and Winter Run Steelhead have been petitioned under ESA, large wood, pool depth and frequency were below expected conditions (Grayback/Sucker Pilot Watershed Analysis (USFS, 1995).	
Mouth to Grayback Creek		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data (5 Sites: Below Little Grayback; Below Grayback; Above Lake Creeks Below Nelson Creek and at the mouth): 7 day average of daily maximums between 1992 and 1996 ranged between 64.6 and 82.7°F. all exceeded temperature standard (64). Siskiyou Audubon Society Data (3 Sites: Near old gage, Holland Loop Bridge, Takelma Rd Bridge): 7 day average of daily maximums of 64.0, 72.0 and 71.0 exceeding temperature standard (64) in 1996 respectively.	Segment Modification

Public Comment Draft 1998 Oregon Section 303(d) List Decision Matrix

Basin <i>Rogue</i>	Sub <i>Illinois</i>								
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Althouse Creek Mouth to Headwaters	15E-ALTH0	Flow Modification			NPS Assessment - segments 225 & 403: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			NPS Assessment - segments 225 & 403: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segments 225 & 403: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Mouth to river mile 7.5 (Tartar Gulch)		Temperature	Rearing 64 F (17.8 C)	Summer	USFS and BLM data	Additional data shows Temperature data 7 day Ave. Max up to 69.0°F, exceeded 64°F, at 5 sites		303(d) List	Addition
River Mile 7.5 (@Tartar Gulch) to Headwaters	15E-ALTH7.5	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data; NPS Assessment - segments 225 & 403: severe/moderate, observation (DEQ, 1988)	USFS Data (6 sites) show no violations of temperature criteria highest value 63.8	Did meet listing criteria	OK	Addition
Althouse Creek, West Fork Mouth to headwaters	15E-ALWF0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS data	No temperature exceedances, 7 day Ave. Max. in 1995, 55.0°F and 1996, 66.5°F	Did not meet listing criteria	OK	Addition
Bear Creek Mouth to Headwaters	15E-BEAR0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site at mouth): 7 day moving average of daily maximums of 64.5 with 4 days exceeding temperature standard (64) in 1993. 1994 data shows 79.8°		303(d) List	
Bolan Creek Mouth to Headwaters	15E-BOLA0	Temperature	Rearing 64 F (17.8 C)		USFS data	Exceeded Temperature criteria in 1994 (75.6°), but did not in 1995 (56.0) 1996 (58.1)	Did not meet listing criteria	Potential Concern	Addition
Breezy Creek Mouth to headwaters	15E-BREE0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS data	Did not violate temperature criteria 1993 (60.6°F), 1996 (64.0°F)		OK	Addition

Public Comment Draft 1998 Oregon Section 303(d) List Decision Matrix

Basin <i>Rogue</i>			Sub	<i>Illinois</i>					
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Briggs Creek Mouth to Horse Creek	15E-BRIG0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data; Krebs (1992)	USFS Data (2 Sites: Below and Above Soldier Cr): 7 day moving average of daily maximums of 65.2/68.9 and nd/68.0 with 6/45 and nd/32 days exceeding temperature standard (64) in 1993/1994 respectively. Additional 6 sites all show violations of temperature criteria 1992 through 1996 up to (69.3°F)		303(d) List	
Canyon Creek Mouth to Lightning Creek	15E-CANY0	Habitat Modification			1991 Canyon Creek stream survey, FEIS for the Canyon Resource Project (USFS)	General description of concern outlined, however, specific data on impacts to beneficial uses not documented.	Insufficient data or information	Potential Concern	Addition
Mouth to Headwaters		Sedimentation			USFS FEIS for Canyon Intergrated Resource Project (1992)	General description of concern outlined, however, specific data on impacts to beneficial uses not documented.	Insufficient data or information	Potential Concern	Addition
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data; Krebs (1992)	USFS Data (Site T39S,R9W,S11): 7 day moving average of daily maximums of 68.6 and 73.3 with 34 and 74 days exceeding temperature standard (64) in 1993 and 1994 respectively. USFS data in 1990 showed a 7 day average of daily maximums of 73.5. Exceedance of temperature criteria at 3 sites 1992-96 75.5°F.		303(d) List	
Canyon Creek, South Fork Mouth to headwaters	15E-CASF0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS data	1991 data shows exceedance of temperature criteria, 65.7°F		303(d) List	Addition
Cave Creek Mouth to headwaters	15E-CAVE0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS data	Temperature criteria exceeded in 1994 (77.8 °F) not in 1995 (59.0 °F)	Did not meet listing criteria	Potential Concern	Addition
Cedar Swamp Creek Mouth to Headwaters	15E-CEDA0	Temperature	Rearing 64 F (17.8 C)	Summer	BLM Data	BLM Data (Site T35S,R9W,S14): 7 day moving average of daily maximums of 55.8 with 0 days exceeding temperature standard (64) in 1994.	Did not meet listing criteria	OK	
Collier Creek Mouth to South Fork	15E-COLLO	Sedimentation			NPS Assessment - segment 352: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	

February 10, 1998

Page 477

Public Comment Draft 1998 Oregon Section 303(d) List Decision Matrix

Basin	Rogue		Sub	Illinois					
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Mouth to South Fork	15E-COLL0	Temperature	Rearng 64 F (17.8 C)	Summer	USFS Data; NPS Assessment - segment 352: moderate, observation (DEQ, 1988)	USFS Data (Site at mouth): 7 day moving average of daily maximums of 67.3 with 25 days exceeding temperature standard (64) in 1993.		303(d) List	
Crooks Creek Mouth to Headwaters	15E-CROO0	Temperature	Rearng 64 F (17.8 C)	Summer	BLM Data	BLM Data (Site T37S,R7W,S34): 7 day moving average of daily maximums of 60.7 with 0 days exceeding temperature standard (64) in 1993.	Did not meet listing critena	OK	
Deer Creek Mouth to North/South Fork Confluence	15E-DEER0	Flow Modification			NPS Assessment - segments 228 & 229: severe, data/observation (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			NPS Assessment - segments 228 & 229: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segments 228 & 229: severe, data/observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearng 64 F (17.8 C)	Summer	USFS Data; Krebs (1992); NPS Assessment - segments 228 & 229: severe, observation (DEQ, 1988)	USFS Data (Site at mouth): 7 day moving average of daily maximums of 75.7 with 66 days exceeding temperature standard (64) in 1993. 1992 (81.0 °F) 2 sites in 1996 (71.0 °F) & (78.1 °F)		303(d) List	
Deer Creek, North Fork Mouth to Headwaters	15E-DENF0	Temperature	Rearng 64 F (17.8 C)	Summer	BLM Data	BLM Data (Site T38S,R6W,S8): 7 day moving average of daily maximums of 59.2 with 0 days exceeding temperature standard (64) in 1993, 1995, 61.0°F	Did not meet listing critena	OK	
Deer Creek, South Fork Mouth to RM 2	15E-DESF0	Temperature	Rearng 64 F (17.8 C)	Summer	BLM and USFS Data; Krebs (1992)	BLM Data (Site above Dry Creek): 7 day moving average of daily maximums of 65.3 and 64.4 exceeded temperature standard (64) in 1994 and 1995 respectively. USFS data 1992, 67.0°F		303(d) List	

Public Comment Draft 1998 Oregon Section 303(d) List Decision Matrix

Basin	<i>Rogue</i>		Sub	<i>Illinois</i>						
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96	
RM 2 to Headwaters	15E-DESF2	Temperature	Rearng 64 F (17.8 C)	Summer	BLM Data; Krebs (1992)	BLM Data (Site 1 mile above Dry Creek at BLM boundary): 7 day moving average of daily maximums of 61.9 with 0 days exceeding temperature standardd (64) in 1993.	Did not meet listing critena	OK		
Democrat Gulch Mouth to Headwaters	15E-DEMO0	Sedimentation			NPS Assessment - segment 226: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data		
Draper Creek Mouth to Headwaters	15E-DRAPO	Temperature	Rearng 64 F (17.8 C)	Summer	BLM Data	BLM Data (Site T37S,R7W,S31): 7 day moving average of daily maximums of 63.5 with 1 day exceeding temperature standard (64) in 1993.	Did not meet listing critena	OK		
Dry Creek (South Fork Deer Cr) Mouth to Headwaters	15E-DRYO	Temperature	Rearng 64 F (17.8 C)	Summer	BLM Data	BLM Data (Site above confluence with South Fork Deer Creek - T38S,R6W,S17): 7 day moving average of daily maximums of 62.5 and 64.4 with 0 and 6 days exceeding temperature standard (64) in 1993 and 1995 respectively. In 1996, the 7 day moving average of daily maximums was 66.5. 1997 (63.0°F)		303(d) List	Addition	
Dunn Creek Mouth to Headwaters	15E-DUNNO	Temperature	Rearng 64 F (17.8 C)	Summer	USFS data	1992 data shows exceedance of temperature criteria, 71.0°F		303(d) List	Addition	
Elder Creek Mouth to Headwaters	15E-ELDE0	Temperature	Rearng 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site at mouth): 7 day moving average of daily maximums of 64.0 with 4 days exceeding temperature standard (64) in 1993 and 59.2°F at an up stream site. 1996 (62.4°F)	Did not meet listing critena	OK		
Elk Creek Mouth to California Border	15E-ELK0	Temperature	Rearng 64 F (17.8 C)	Summer	Krebs (1992); USFS Data	USFS Data (Site at gage): 7 day moving average of daily maximums of 68.8 with 28 days exceeding temperature standard (64) in 1993. 1996 (71.5°F)		303(d) List		

February 10, 1998

Page 479

Public Comment Draft 1998 Oregon Section 303(d) List Decision Matrix

Basin <i>Rogue</i>			Sub	<i>Illinois</i>					
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Elk Creek (Grayback Ck) Mouth to Headwaters	15E-ELKG0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site T40S,R6W,S12): 7 day moving average of daily maximums of 55.6 with 0 days exceeding temperature standard (64) in 1994.	Did not meet listing criteria	OK	
Elk Creek on Grayback Mouth to Headwaters	15E-ELKB0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS data	No temperature exceedances, 7 day Ave. Max. 1995 (52.0°F) and 1996 (55.7°F)	Did not meet listing criteria	OK	Addition
Fall Creek Mouth to Headwaters	15E-FALL0	Habitat Modification			1992 Stream Survey for Fall Creek (USFS)	General description of concern outlined, however, specific data on impacts to beneficial uses not documented.	Insufficient data or information	Potential Concern	Addition
		Temperature	Rearing 64 F (17.8 C)		1992 Stream Survey for Fall Creek (USFS) and USFS data	1996 data shows exceedance of temperature criteria, 67.5°F	Did meet listing criteria	303(d) List	Addition
Fan Creek Mouth to Headwaters	15E-FAN0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS data	Exceeded temperature criteria in 1994(73.6°F), but not in 1995 (52.0°F) or 1996 (54.5°F)	Did not meet listing criteria	OK	Addition
Fiddler Gulch Mouth to Headwaters	15E-FIDD0	Temperature	Rearing 64 F (17.8 C)	Summer	Krebs (1992), USFS Data	Krebs (1993): Monthly mean maximums of 65 to 70 exceeded standard (64) between June and September 1992. USFS Data in 1991 showed a 7-day moving average of daily maximums of 70.9 and 1992 (73.3°F)		303(d) List	
Free and Easy Creek Mouth to Headwaters	15E-FREE0	Temperature	Rearing 64 F (17.8 C)	Summer	BLM data	Data shows exceedance of temperature criteria, 1996 (72.9°F); 1997 (71.3°F)		303(d) List	Addition
Grayback Creek Mouth to Headwaters	15E-GRAY0	Habitat Modification			Grayback/Sucker Pilot Watershed Analysis (USFS, 1995); NPS Assessment - segment 356: moderate, data (DEQ, 1988)	Coho and Winter Run Steelhead have been petitioned under ESA, large wood, pool depth and frequency were below expected conditions (Grayback/Sucker Pilot Watershed Analysis (USFS, 1995).		303(d) List	

Public Comment Draft 1998 Oregon Section 303(d) List Decision Matrix

Basin	Rogue	Sub	Illinois						
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Mouth to Headwaters	15E-GRAY0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data; Krebs (1992), Siskiyou Audabon Society (1996)	USFS Data (Site at mouth): 7 day moving average of daily maximums of 60.0 and 63.2 with 0 and 4 days did not exceed temperature standard (64) in 1993 and 1994 respectively; Siskiyou Audabon Society (near Windy Creek and at Mossback Creek): 7 day moving average of daily maximums of 55.0 and 59.0 did not exceed temperature standard (64) in 1996. Other USFS data available.	Did not meet listing criteria	OK	
Hansen Gulch									
Mouth to Headwaters	15E-HANS0	Bacteria			USGS (1980)		No supporting data or information	Need Data	
Horse Creek									
Mouth to Headwaters	15E-HORS0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS data	No temperature exceedances at two sites, 7 day Ave. Max. 1993 (59.9°F), 1995 (61.0°F)	Did not meet listing criteria	OK	Addition
Horsesign Creek									
Mouth to Headwaters	15E-horss0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS data	No temperature exceedances, 7 day Ave. Max. 1991 60.6°F	Did not meet listing criteria	OK	Addition
Illinois River									
Mouth to Bnggs Creek	15E-ILLI0	Flow Modification			NPS Assessment - segment 220: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data; Krebs (1992); Siskiyou Audabon Society (1996); NPS Assessment - segment 220: severe, observation (DEQ, 1988)	USFS Data (2 Sites: Above Silver and At mouth): 7 day moving average of daily maximums of 73.6/76.5 and 72.0/74.1 with 55/81 and 52/81 days respectively exceeding temperature standard (64) in 1993 and 1994 respectively; Siskiyou Audabon Society (2 sites: above Briggs Creek and above Lawson Creek): 7 day moving average of daily maximums of 80.0 and 75.0 exceeding temperature standard (64) in 1996 respectively.		303(d) List	

Public Comment Draft 1998 Oregon Section 303(d) List Decision Matrix

Basin <i>Rogue</i>		Sub <i>Illinois</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season					
Briggs Creek to East/West Fork 15E-ILLI32.5 Confluence		Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Fall-Winter-Spring	DEQ Data	DEQ Data (Site 404161; RM 48.4): 0% (0 of 29) FWS values exceeded fecal coliform standard (400) between WY 1986 - 1995.	Did not meet listing critena	OK	
		Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Summer	DEQ Data	DEQ Data (Site 404161; RM 48.4): 0% (0 of 19) Summer values exceeded fecal coliform standard (400) between WY 1986 - 1995.	Did not meet listing critena	OK	
		Chlorophyll a		Summer	DEQ Data	DEQ Data (Site 404161; RM 48.4): 0% (0 of 19) Summer values exceeded chlorophyll a standard (15 ug/l) between WY 1986 - 1995.	Did not meet listing critena	OK	
		Dissolved Oxygen (DO)	Cold-water aquatic life: DO < 8 mg/l or 90% sat.	July 1 - September 30	DEQ Data; d1 in 305(b) Report (DEQ, 1994)	DEQ Data (Site 404161; RM 48.4.0): 0% (0 of 19) July through September values exceeded rearing dissolved oxygen standard (8.0 mg/l or 90% saturation) between WY 1986 - 1995 (Cold water fishery, rearing approximately July - Sept).	Did not meet listing critena	OK	
		Dissolved Oxygen (DO)	Salmonid spawning: water DO < 11mg/l	October 1 - June 30	DEQ Data	DEQ Data (Site 404161; RM 48.4): 3% (1 of 34) October through June values exceeded spawning dissolved oxygen standard (11.0 mg/l or 95% saturation) with a minimum of 8.4 between WY 1986 - 1995 (Cold water fishery, spawning approximately Oct - Jun).	Did not meet listing critena	OK	
		Flow Modification			USGS (1990); IWR (ODFW); NPS Assessment - segments 221 & 222: severe/moderate, data/observation (DEQ, 1988)	Coho populations are depressed and are designated as a sensitive species, Winter Steelhead are declining; low flows due to water withdrawals have been identified as a limiting factors (ODFW, 93); IWR (072843) are often not met at USGS gage 14377100.		303(d) List	
		pH		Fall-Winter-Spring	DEQ Data	DEQ Data (Site 404161; RM 48.4): 0% (0 of 29) FW values exceeded pH standard (6.5 - 8.5) between WY 1986 - 1995.	Did not meet listing critena	OK	

Public Comment Draft 1998 Oregon Section 303(d) List Decision Matrix

Basin	Rogue	Sub	Illinois						
Name & Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Briggs Creek to EastWest Fork 15E-ILLI32.5 Confluence		pH		Summer	DEQ Data	DEQ Data (Site 404161; RM 48.4): 5% (1 of 21) Summer values exceeded pH maximum standard (6.5 - 8.5) with a maximum value of 8.6 between WY 1986 - 1995.	Did not meet listing criteria	OK	
		Sedimentation			NPS Assessment - segments 221 & 222: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearng 64 F (17.8 C)	Summer	USFS Data; DEQ Data (Temperture Issue Paper, 1994); Krebs (1992); Siskiyou Audabon Society (1996); NPS Assessment - segments 221 & 222: severe, data (DEQ, 1988)	USFS Data (2 Sites: At Kerby gage and Above Briggs): 7 day moving average of daily maximums of 76.0/79.7 and 73.1/nd with 71/73 and 73/nd days exceeding temperature standard (64) in 1993 and 1994 respectively; Siskiyou Audabon Society (2 sites: at Gage Station (above Josephine Creek) and above Falls Creek): 7 day moving average of daily maximums of 79.0 and 80.0 exceeding temperature standard (64) in 1996 respectively.		303(d) List	
Illinois River, East Fork Mouth to California Border	15E-ILEF0	Flow Modification			USGS (1990); IWR (ODFW); ODFW (1995); NPS Assessment - segments 222, 224 & 401: moderate/severe, observation/data (DEQ, 1988)	Coho populations are depressed and are designated as a sensitive species, Winter Steelhead are declining; low flows due to water withdrawals have been identified as a limiting factors (ODFW, 93); IWR (070979) are often not met at USGS gage 14372500.		303(d) List	
		Sedimentation			NPS Assessment - segments 222, 224 & 401: moderate/severe, observation/data (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearng 64 F (17.8 C)	Summer	USFS Data; Krebs (1992); Siskiyou Audabon Society (1996); NPS Assessment - segments 222, 224 & 401: severe/moderate, observation (DEQ, 1988)	USFS Data (Site T40S,R8W,S11): 7 day moving average of daily maximums of 73.4 with 85 days exceeding temperature standard (64) in 1994, 1995 (71.0°F) and 1996 (73.9°F);Siskiyou Audabon Society (Site near mouth): 7 day moving average of daily maximums of 72.0 exceeding temperature standard (64) in 1996.		303(d) List	

February 10, 1998

Page 483

Public Comment Draft 1998 Oregon Section 303(d) List Decision Matrix

Basin	Rogue	Sub	Illinois						
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Illinois River, West Fork Mouth to California Border	15E-ILWF0	Flow Modification			USGS (1990); IWR (ODFW); ODFW (1995); NPS Assessment - segments 223 & 379: severe/moderate, data/observation (DEQ, 1988)	Coho populations are depressed and are designated as a sensitive species. Winter Steelhead are declining; low flows due to water withdrawals have been identified as a limiting factors (ODFW, 93); IWR (070996) are often not met at USGS gage 14375500.		303(d) List	
		Sedimentation			NPS Assessment - segments 223 & 379: moderate/severe, observation/data (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	Krebs (1992); NPS Assessment - segments 223 & 379: severe/moderate, observation (DEQ, 1988) also USFS data	Krebs (1993): Monthly mean maximums of 69 to 76 exceeded standard (64) between June and September 1992. USFS data from 5 sites: 1992, 77.8/77.5°F; 1996, 78.3/80.9/74.4/84.4°F		303(d) List	
Indigo Creek Mouth to East Fork	15E-INDI0	Temperature	Rearing 64 F (17.8 C)	Summer	NPS Assessment - segment 344: moderate, observation (DEQ, 1988) USFS data	2 sites show exceedance of temperature criteria, 1990 (70.6 above N.F. and 72.2°F at mouth) 1991 (69.9°F above N.F.)		303(d) List	Addition
Indigo Creek, East Fork Mouth to Headwaters	15E-INEF0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data; NPS Assessment - segment 344: moderate, observation (DEQ, 1988)	USFS Data (2 Sites: Above Breezy and Chiefton Creeks): 7 day moving average of daily maximums of 60.6/nd and 59.3/62.4 with 0/nd and 0/1 exceeding temperature standard (64) in 1993/1994 respectively. 1995 (61.0°F) and 1996 (62.7°F)	Did not meet listing criteria	OK	
Indigo Creek, North Fork Mouth to Headwaters	15E-INNF0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site at mouth): 7 day moving average of daily maximums of 64.0 with 5 days exceeding temperature standard (64) in 1993. 1995, 67.0°F and 1996, 69.3°F both exceeded temperature criteria.	Did meet listing criteria	303(d) List	Addition

Public Comment Draft 1998 Oregon Section 303(d) List Decision Matrix

Basin	Rogue	Sub	Illinois						
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Indigo Creek, West Fork Mouth to Headwaters	15E-INWF0	Temperature	Rearing 64 F (17.8 C)	Summer	NPS Assessment - segment 344: moderate, observation (DEQ, 1988)USFS data	No temperature exceedances, 7 day Ave. Max. (3 sites: 1991, 57 1/59.2°F, 1992, 60.2°F; 1996, 59.7°F	Did not meet listing criteria	OK	Status Modification
Josephine Creek Mouth to Headwaters	15E-JOSE0	Habitat Modification			1990 Josephine Creek stream survey, FEIS for the Canyon Resource Project (USFS)	General description of concern outlined, however, specific data on impacts to beneficial uses not documented.	Insufficient data or information	Potential Concern	Addition
		Sedimentation			NPS Assessment - segment 357: moderate, observation (DEQ, 1988); FEIS for the Canyon Resource Project (USFS)	General description of concern outlined, however, specific data on impacts to beneficial uses not documented.	No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data, NPS Assessment - segment 357: moderate, observation (DEQ, 1988)	USFS Data: 7 day moving average of daily maximums of 81.4 exceeded temperature standard (64) in 1990.		303(d) List	Addition
Klondike Creek Mouth to Headwaters	15E-KLON0	Sedimentation			NPS Assessment - segment 364: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	NPS Assessment - segment 364: moderate, observation (DEQ, 1988) USFS data	1996 data shows exceedance of temperature criteria, 68.5°F		303(d) List	Addition
Lake Creek (Cave Creek) Mouth to headwaters	15E-LAKC0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS data	No temperature exceedances, 7 day Ave. Max. in 1993 was 58.1°F	Did not meet listing criteria	OK	Addition
Lake Creek (Sucker Creek) Mouth to diversion	15E-LAKE0	Temperature	Rearing 64 F (17.8 C)	Summer	BLM data	BLM site for 1994 to 1997 data shows exceedance of temperature criteria, (76.9, 74.1, 77.4 and 72.8°F)		303(d) List	Addition
Diversion to headwaters	15E-LAKE1	Temperature	Rearing 64 F (17.8 C)	Summer	USFS data	USFS Data (2 Sites: Above Diversion and At mouth): 7 day moving average of daily maximums of 56 and 58.1 with 0 and 0 days respectively exceeding temperature standard (64) in 1993.	Did not meet listing criteria	OK	Segment Modification
Lawson Creek Mouth to South Fork Lawson Creek	15E-LAWS0	Sedimentation			NPS Assessment - segment 343: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	

February 10, 1998

Page 485

Public Comment Draft 1998 Oregon Section 303(d) List Decision Matrix

Basin <i>Rogue</i>			Sub	<i>Illinois</i>					
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Mouth to river mile 5	15E-LAWS0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data; NPS Assessment - segment 343: moderate, observation (DEQ, 1988)	USFS Data (Site at mouth): 7 day moving average of daily maximums exceeding temperature standard (64) in 1990 to 1996 (71.5, 70.6, 72.5, 67.2 69.7, 69.0 69.7°F) and two other sites in 1994 (69.9, 69.6°F).		303(d) List	Segment Modification
Lawson Creek @ section 16									
River mile 5 to headwaters	15E-LAWS6	Temperature	Rearing 64 F (17.8 C)	Summer	USFS data	1990 to 96 data 2 out of 7 years exceeded, 7 day Ave. Max temperature criteria. (64.8, 63.4, 64.2, 61.9, 62.9 63.0, 63.1°F)	Did not meet listing criteria	Potential Concern	Removed (5)
Lawson Creek, North Fork									
Mouth to Headwaters	15E-LANF0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site at mouth): 7 day moving average of daily maximums of 57.9 with 0 days exceeding temperature standard (64) in 1994. 1995, 57.0°F	Did not meet listing criteria	OK	
Lawson Creek, South Fork									
Mouth to headwaters	15E-LASF0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS data	No temperature exceedances, 7 day Ave. Max. 1994, 62.8°F and 1995, 60.0°F	Did not meet listing criteria	OK	Addition
Lighting Gulch									
Mouth to headwaters	15E-LIGH0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS data	No temperature exceedances, 1991, 7 day Ave. Max. 56.8°F	Did not meet listing criteria	OK	Addition
Little Grayback Creek									
Mouth to Headwaters	15E-GRLI0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site above Diversion 1993, 59.4°F): 7 day moving average of daily maximums of less than 64.0 with 0 days exceeding temperature standard (64) in 1993.	Did not meet listing criteria	OK	
Long Gulch									
Mouth to Headwaters	15E-LONG0	Sedimentation			NPS Assessment - segment 359: severe, data(DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 359: severe, data(DEQ, 1988)		No supporting data or information	Need Data	
Minnow Creek									
Mouth to Headwaters	15E-MINNO	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site at mouth): 7 day moving average of daily maximums of 61.3 with 0 days exceeding temperature standard (64) in 1993.	Did not meet listing criteria	OK	

February 10, 1998

Page 486

Public Comment Draft 1998 Oregon Section 303(d) List Decision Matrix

Basin <i>Rogue</i>			Sub	<i>Illinois</i>					
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Myer Creek Mouth to headwaters	15E-MYER0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS data	No temperature exceedances, 7 day Ave. Max. 1995, 61.0°F	Did not meet listing criteria	OK	Addition
Onion Creek Mouth to Headwaters	15E-ONIO0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS data	No temperature exceedances, 7 day Ave. Max. 1995, 62.0°F	Did not meet listing criteria	OK	Addition
Page Creek Mouth to Headwaters	15E-PAGE0	Flow Modification			NPS Assessment - segment 360: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			NPS Assessment - segment 360: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 360: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Paradise Creek Mouth to Headwaters	15E-PARA0	Temperature	Rearing 64 F (17.8 C)	Summer	BLM Data; USFS Data	BLM Data (Site T38S,R6W,S33): 7 day moving average of daily maximums of 56.5 and 59.3 with 0 days exceeding temperature standard (64) in 1993 and 1994 respectively.	Did not meet listing criteria	OK	
Rancherie Creek Mouth to Headwaters	15E-RANCO	Habitat Modification			1992 Stream Survey for Rancherie Creek (USFS)	General description of concern outlined, however, specific data on impacts to beneficial uses not documented.	Insufficient data or information	Potential Concern	Addition
		Temperature	Rearing 64 F (17.8 C)	Summer	1992 Stream Survey for Rancherie Creek (USFS), USFS data	1996 data shows exceedance of temperature criteria, 70.8°F		303(d) List	Addition
Red Dog Creek Mouth to Headwaters	15E-REDD0	Sedimentation			NPS Assessment - segment 355: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS data	No temperature exceedances, 7 day Ave. Max. 1995, 61.0°F	Did not meet listing criteria	OK	Addition

Public Comment Draft 1998 Oregon Section 303(d) List Decision Matrix

Basin <i>Rogue</i>			Sub	<i>Illinois</i>					
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Rough & Ready Creek Mouth to North/South Confluence	15E-ROUG0	Temperature	Reanng 64 F (17.8 C)	Summer	Krebs (1992); Siskiyou Audabon Society (1996), USFS data (1992)	Krebs (1993): Monthly mean maximums of 72 to 79 exceeded temperature standard (64) between August and September 1992; Siskiyou Audabon Society (1 sites below N and S Forks: 42 05' 35" lat, 123 44' 35" long): 7 day moving average of daily maximums of 82.1°F in 1992 and 79.7 in 1996 exceed temperature standard (64).		303(d) List	
Rough & Ready Creek, South Fork Mouth to Headwaters	15E-ROSF0	Temperature	Reanng 64 F (17.8 C)	Summer	Siskiyou Audabon Society (1996)	Siskiyou Audabon Society (sites near mouth): 7 day moving average of daily maximums of 74.7 exceeding temperature standard (64) in 1996.		303(d) List	Addition
Run Gulch Mouth to headwaters	15E-RUNG0	Temperature	Reanng 64 F (17.8 C)	Summer	USFS data	No temperature exceedances, 7 day Ave. Max. 62.5°F in 1996	Did not meet listing criteria	OK	Addition
Secret Creek Mouth to Headwaters	15E-SECR0	Temperature	Reanng 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site at mouth): 7 day moving average of daily maximums of 64.4 with 3 days exceeding temperature standard (64) in 1994. Above campground in 1991, 72.2 and at mouth in 1995, 62.0°F	Did not meet listing criteria	Potential Concern	Status Modification
Selmac Lake Lake	15E-SELM	Aquatic Weeds or Algae	Aquatic Weeds		Complaints from local citizen and follow up through CLW		No supporting data or information	Need Data	
		Turbidity			Complaints from local citizen and follow up through CLW		No supporting data or information	Need Data	
Silver Creek Mouth to Todd Creek	15E-SILV0	Temperature	Reanng 64 F (17.8 C)	Summer	USFS Data; Krebs (1992); NPS Assessment - segment 345: moderate, observation (DEQ, 1988)	USFS Data: 4 sites (Site at mouth): 7 day moving average of daily maximums 1990 to 1993, 70.0, 69.9, 70.9, 67.4. Other sites 67.6, 63.0, 67.3 and 69.3.		303(d) List	
Todd Creek to Headwaters	15E-SILV11	Temperature	Reanng 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site above Silver Falls): 7 day moving average of daily maximums of 53.1 with 0 days exceeding temperature standard (64) in 1994.	Did not meet listing criteria	OK	

Public Comment Draft 1998 Oregon Section 303(d) List Decision Matrix

Basin <i>Rogue</i>			Sub	<i>Illinois</i>					
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Sucker Creek, Left Fork Mouth to Headwaters	15E-SULF0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site at mouth): 1992 to 95 7 day moving average of daily maximums of 60.7, 56.7, 59.8 and 57.0°F; 0 days exceeding temperature standard (64). Two other sites 1994 to 96 (75, 55, 58.4 and 59.3°F)	Did not meet listing criteria	OK	
Swede Creek Mouth to headwaters	15E-SWED0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS data	No temperature exceedances, 7 day Ave. Max. in 1994 was 61.0°F	Did not meet listing criteria	OK	Addition
Trapper Gulch Mouth to Headwaters	15E-TRAP0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (3 Sites): 7 day moving average of daily maximums 1993, 57.7; 1994, 60.5 and 1995, 60.0°F with 0 days exceeding temperature standard (64).	Did not meet listing criteria	OK	
White Creek Mouth to Headwaters	15E-WHIT0	Temperature	Rearing 64 F (17.8 C)	Summer	BLM Data	BLM Data (Site T38S,R7W,S25): 7 day moving average of daily maximums of 59.7 and 62.9 with 0 and 2 days exceeding temperature standard (64) in 1993 and 1994 respectively.	Did not meet listing criteria	OK	
Wildhorse Creek Mouth to headwaters	15E-WILD0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS data	No temperature exceedances, 7 day Ave. Max. data from 1990 to 1996, 61.6/62.0/59.1/60.2/60.0/62.4°F	Did not meet listing criteria	OK	Addition
Windy Creek Mouth to headwaters	15E-WIND0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS data	1994 data shows exceedance of temperature criteria, 74.0°F, however, 1995 did not 54.0°F, 1994 was a drought year.	Did not meet listing criteria	Potential Concern	Addition
Wood Creek Mouth to Headwaters	15E-WOOD0	Flow Modification			NPS Assessment - segment 358: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			NPS Assessment - segment 358: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Mouth to Headwaters	15E-WOOD0	Temperature			NPS Assessment - segment 358: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	

Public Comment Draft 1998 Oregon Section 303(d) List Decision Matrix

Basin	Rogue	Sub	Illinois						
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Silver Creek, North Fork Mouth to Hawk Creek	15E-SINF0	Temperature	Rearng 64 F (17.8 C)	Summer	USFS; NPS Assessment - segment 346: moderate, observation (DEQ, 1988)	USFS Data: 7 day moving average of daily maximums of 69.7 with 14 days exceeding temperature standard (64) in 1993.		303(d) List	
Hawk Creek to Headwaters	15E-SINF4	Temperature	Rearng 64 F (17.8 C)	Summer	BLM Data	BLM Data (2 Sites: Above Sourgrass and Cedar Swamp Creeks): 7 day moving average of daily maximums of 60.9 and 60.7 with 0 days exceeding temperature standard (64) in 1994 respectively. Two additional sites above Cedar Swamp Creek 1994, 66.9,53.0°F, 1995, 55.0°F.	Did not meet listing critena	OK	
Silver Creek, South Fork Mouth to Headwaters	15E-SISF0	Temperature	Rearng 64 F (17.8 C)	Summer	NPS Assessment - segment 347: moderate, observation (DEQ, 1988) and USFS data	1990 data shows exceedance of temperature critena, 65.2°F, 1991, 64.0°F was at temperature standard		303(d) List	Addition
Sixmile Creek Mouth to Headwaters	15E-SIXM0	Temperature	Rearng 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site at mouth): 7 day moving average of daily maximums of 64.4 and 67.8 with 8 and 31 days exceeding temperature standard (64) in 1993 and 1994 respectively. 1995, 65.0 and 1996, 67 1°F		303(d) List	
Snail Creek Mouth to headwaters	15E-SNAI0	Temperature	Rearng 64 F (17.8 C)		USFS data	No temperature exceedances, 7 day Ave. Max. 1991, 57.8°F; 1992, 59.8°F; 1996, 59.0°F	Did not meet listing critena	OK	Addition
Soldier Creek Mouth to Spalding Dam	15E-SOLD0	Temperature	Rearng 64 F (17.8 C)	Summer	USFS data	Data shows exceedance of temperature criteria, 4 years 1991, 67.7°F; 1992, 65.5; 1995, 67.0; and 1996, 71.7°F		303(d) List	Addition
Spalding Dam to headwaters	15E-SOLD2	Temperature	Rearng 64 F (17.8 C)	Summer	USFS data	No temperature exceedances at 3 sites 1992 52.9, 59.2, 60.1°F; 1995, 52.0°F; 1996, 52.1°F; 7 day Ave. Max.	Did not meet listing critena	OK	Addition
Sourgrass Creek Mouth to Headwaters	15E-SOUR0	Temperature	Rearng 64 F (17.8 C)	Summer	BLM Data	BLM Data (Site T35S,R9W,S16): 7 day moving average of daily maximums of 59.6 with 0 days exceeding temperature standard (64) in 1994.	Did not meet listing critena	OK	

February 10, 1998

Page 489

Public Comment Draft 1998 Oregon Section 303(d) List Decision Matrix

Basin	Rogue	Sub	Illinois						
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Spalding Pond Mouth to headwaters	15E-SPAL0	Temperature	Reanng 64 F (17.8 C)	Summer	USFS data	No temperature exceedances, 7 day Ave. Max. in 1991 was 51.7°F	Did not meet listing criteria	OK	Addition
Sucker Creek Mouth to Bolan Creek	15E-SUCK0	Dissolved Oxygen (DO)			NPS Assessment - segment 227: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Flow Modification			Grayback/Sucker pilot Watershed Analysis (USFS, 1995); USGS (1990); IWR (ODFW); NPS Assessment - segment 227: moderate, observation (DEQ, 1988)	Coho populations are depressed and are designated as a sensitive species, Winter Steelhead are declining; low flows due to water withdrawals have been identified as a limiting factors (ODFW, 93); IWR (62323) are often not met at USGS gage 14375100.		303(d) List	
		Habitat Modification			Grayback/Sucker Pilot Watershed Analysis (USFS, 1995); NPS Assessment - segment 227: moderate, observation (DEQ, 1988)	Coho and Winter Run Steelhead have been petitioned under ESA, large wood, pool depth and frequency were below expected conditions (Grayback/Sucker Pilot Watershed Analysis (USFS, 1995).		303(d) List	
		Sedimentation			NPS Assessment - segment 227: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Mouth to Grayback Creek		Temperature	Reanng 64 F (17.8 C)	Summer	USFS Data; Krebs (1992); Siskiyou Audabon Society (1996); NPS Assessment - segment 227: moderate, observation (DEQ, 1988)	USFS Data (5 Sites: Below Little Grayback; Below Grayback; Above Lake Creeks Below Nelson Creek and at the mouth): 7 day average of daily maximums between 1992 and 1996 ranged between 64.6 and 82.7°F all exceeded temperature standard (64). Siskiyou Audabon Society Data (3 Sites: Near old gage, Holland Loop Bridge, Takelma Rd Bridge): 7 day average of daily maximums of 64.0, 72.0 and 71.0 exceeding temperature standard (64) in 1996 respectively.		303(d) List	Segment Modification
Grayback Creek to Headwaters listing	OK	15E-SUCK11 Segment	Temperature (17.8 C)	Rearing 64 F	Summer	USFS Data 1996: 7 day moving average of daily maximums were between 57.0 and 63.3 with 0 days exceeding temperature standard (64).	USFS Data: 5 Sites between 1992 and Did not meet criteria		Modification

Illinois River Watershed Assessment

Page 106