Uldaho Law **Digital Commons** @ **Uldaho Law**

In re Klamath River (Klamath Tribe)

Hedden-Nicely

12-2-2003

Ex. 281-US-409

Roger Smith Oregon Department of Fish and Wildlife

William Tinniswood Oregon Department of Fish and Wildlife

Terry Smith Oregon Department of Fish and Wildlife

Follow this and additional works at: https://digitalcommons.law.uidaho.edu/klamath

Recommended Citation

Smith, Roger; Tinniswood, William; and Smith, Terry, "Ex. 281-US-409" (2003). *In re Klamath River (Klamath Tribe)*. 226. https://digitalcommons.law.uidaho.edu/klamath/226

This Expert Report is brought to you for free and open access by the Hedden-Nicely at Digital Commons @ UIdaho Law. It has been accepted for inclusion in In re Klamath River (Klamath Tribe) by an authorized administrator of Digital Commons @ UIdaho Law. For more information, please contact annablaine@uidaho.edu.

Wood R - Non-Anadromous Species

Timing Unit ID: 10452

Life Stage/Activity/Species Adult Fluvial or Adfluvial Migration Shortnose Sucker Lost River Sucker Redband (migratory) Brown Trout Adult Spawning Shortnose Sucker Lost River Sucker Redband (migratory) Brown Trout Brook Trout Adult/Sub-Adult Rearing Shortnose Sucker Lost River Sucker Redband (migratory) Brown Trout Brook Brook Brook Brook Brook Brook B	Life Stage/Activity/Species	Jan		Mor.		May	Jun	Jul	Aug	Sep	Oct	Nov	Dog	Comments
Shortnose Sucker Lost River Sucker Redband (migratory) Brown Trout Brook Trout Adult Spawning Shortnose Sucker Lost River Sucker Redband (migratory) Brown Trout Brook Trout Adult/Sub-Adult Rearing Shortnose Sucker Lost River Sucker Redband (migratory) Brown Trout Brook Trout Lost River Sucker Redband (migratory) Brown Trout Brook Trout Broo		Jan	ren	Mai	Apı	May	Jun	Jui	Aug	Зер	Oct	1101	Dec	Comments
Lost River Sucker Redband (migratory) Brown Trout Brook Trout Adult Spawning Shortnose Sucker Lost River Sucker Redband (migratory) Brown Trout Brook Trout Brook Trout Adult/Sub-Adult Rearing Shortnose Sucker Lost River Sucker Redband (migratory) Brown Trout Brook Trout														
Redband (migratory) Brown Trout Brown Trout Brown Trout Adult Spawning Shortnose Sucker Lost River Sucker Redband (migratory) Brown Trout Brook Trout Adult/Sub-Adult Rearing Shortnose Sucker Lost River Sucker Redband (migratory) Brown Trout Brook Trout Brook Trout Egg Incubation through Fry Emergence Shortnose Sucker Lost River Sucker Redband (migratory) Brown Trout Brook Trout Juvenile Rearing Shortnose Sucker Lost River Sucker Redband (migratory) Brown Trout Brook Trout Brook Trout Juvenile/Sub-Adult Migration Shortnose Sucker Lost River Sucker Redband (migratory) Brown Trout Brook Trout Bro														
Brown Trout Brook Trout Adult Spawning Shortnose Sucker Lost River Sucker Redband (migratory) Brown Trout Brook Trout Brook Trout Brook Trout Adult/Sub-Adult Rearing Shortnose Sucker Lost River Sucker Redband (migratory) Brown Trout Brook Trout Brown Trout Brook Trout Brown Trout Brook Trout Juvenile Rearing Shortnose Sucker Lost River Sucker Redband (migratory) Brown Trout Brook Trout Juvenile Rearing Shortnose Sucker Lost River Sucker Redband (migratory) Brown Trout Brook Trout Juvenile/Sub-Adult Migration Shortnose Sucker Lost River Sucker Redband (migratory) Brown Trout Brook Trout B														
Brook Trout Adult Spawning Shortnose Sucker Lost River Sucker Redband (migratory) Brown Trout Brook Trout Adult/sub-Adult Rearing Shortnose Sucker Lost River Sucker Redband (migratory) Brown Trout Brook Trout Brook Trout Egg Incubation through Fry Emergence Shortnose Sucker Lost River Sucker Redband (migratory) Brown Trout Brook Trout Juvenile Rearing Shortnose Sucker Lost River Sucker Redband (migratory) Brown Trout Juvenile Rearing Shortnose Sucker Lost River Sucker Redband (migratory) Brown Trout Juvenile/Sub-Adult Migration Shortnose Sucker Lost River Sucker Redband (migratory) Brown Trout Brook Trout Brown Trout Bro														
Adult Spawning Shortnose Sucker Lost River Sucker Redband (migratory) Brown Trout Brook Trout Shortnose Sucker Lost River Sucker Redband (migratory) Brown Trout Brook Trout Shortnose Sucker Lost River Sucker Redband (migratory) Brown Trout Brook Trout Juvenile Rearing Shortnose Sucker Lost River Sucker Redband (migratory) Brown Trout Juvenile Rearing Shortnose Sucker Lost River Sucker Redband (migratory) Brown Trout Juvenile/Such-Adult Migration Shortnose Sucker Lost River Sucker Redband (migratory) Brown Trout Brook Trout Juvenile/Sub-Adult Migration Shortnose Sucker Lost River Sucker Redband (migratory) Brown Trout Brook Trout Juvenile/Sub-Adult Migration Shortnose Sucker Lost River Sucker Redband (migratory) Brown Trout														
Shortnose Sucker Lost River Sucker Redband (migratory) Brown Trout Brook Trout Adult/Sub-Adult Rearing Shortnose Sucker Lost River Sucker Redband (migratory) Brown Trout Brook Trout Brook Trout Brook Trout Egg Incubation through Fry Emergence Shortnose Sucker Lost River Sucker Redband (migratory) Brown Trout Brook Trout Juvenile Rearing Shortnose Sucker Lost River Sucker Lost River Sucker Redband (migratory) Brown Trout Brook Trout Brook Trout Brook Trout Brook Trout Juvenile/Sub-Adult Migration Shortnose Sucker Lost River Sucker Redband (migratory) Brown Trout Brook Trout Br	Adult Spawning													
Redband (migratory) Brown Trout Brook Trout Adult/Sub-Adult Rearing Shortnose Sucker Lost River Sucker Redband (migratory) Brown Trout Brook Trout Egg Incubation through Fry Emergence Shortnose Sucker Lost River Sucker Redband (migratory) Brown Trout Brook Trout Juvenile Rearing Shortnose Sucker Lost River Sucker Redband (migratory) Brown Trout Brook Trout Juvenile Rearing Shortnose Sucker Lost River Sucker Redband (migratory) Brown Trout Brook Trout Juvenile/Sub-Adult Migration Shortnose Sucker Lost River Sucker Redband (migratory) Brown Trout Brook Trout Juvenile/Sub-Adult Migration Shortnose Sucker Lost River Sucker Redband (migratory) Brown Trout														
Brown Trout Brook Trout Adult/Sub-Adult Rearing Shortnose Sucker Lost River Sucker Redband (migratory) Brown Trout Brook Trout Egg Incubation through Fry Emergence Shortnose Sucker Lost River Sucker Redband (migratory) Brown Trout Brook Trout Juvenile Rearing Shortnose Sucker Lost River Sucker Redband (migratory) Brown Trout Juvenile Rearing Shortnose Sucker Lost River Sucker Redband (migratory) Brown Trout Juvenile/Sub-Adult Migration Shortnose Sucker Lost River Sucker Redband (migratory) Brown Trout Brook Trout Juvenile/Sub-Adult Migration Shortnose Sucker Lost River Sucker Redband (migratory) Brown Trout Brook Trout Juvenile/Sub-Adult Migration Shortnose Sucker Lost River Sucker Redband (migratory) Brown Trout	Lost River Sucker													
Brook Trout Adult/Sub-Adult Rearing Shortnose Sucker Lost River Sucker Redband (migratory) Brown Trout Brook Trout Egg Incubation through Fry Emergence Shortnose Sucker Lost River Sucker Redband (migratory) Brown Trout Brook Trout Juvenile Rearing Shortnose Sucker Lost River Sucker Redband (migratory) Brown Trout Juvenile Rearing Shortnose Sucker Lost River Sucker Redband (migratory) Brown Trout Brook Trout Juvenile/Sub-Adult Migration Shortnose Sucker Lost River Sucker Redband (migratory) Brown Trout Brook Trout Juvenile/Sub-Adult Migration Shortnose Sucker Lost River Sucker Redband (migratory) Brown Trout	Redband (migratory)													
Adult/Sub-Adult Rearing Shortnose Sucker Lost River Sucker Redband (migratory) Brown Trout Brook Trout Egg Incubation through Fry Emergence Shortnose Sucker Lost River Sucker Redband (migratory) Brown Trout Brook Trout Juvenile Rearing Shortnose Sucker Lost River Sucker Redband (migratory) Brown Trout Brook Trout Juvenile Roaring Shortnose Sucker Lost River Sucker Redband (migratory) Brown Trout Brook Trout Juvenile/Sub-Adult Migration Shortnose Sucker Lost River Sucker Redband (migratory) Brown Trout Brook Trout Juvenile/Sub-Adult Migration Shortnose Sucker Redband (migratory) Brown Trout	Brown Trout													
Shortnose Sucker Lost River Sucker Redband (migratory) Brown Trout Brook Trout Egg Incubation through Fry Emergence Shortnose Sucker Lost River Sucker Redband (migratory) Brown Trout Brook Trout Juvenile Rearing Shortnose Sucker Lost River Sucker Redband (migratory) Brown Trout Brook Trout Juvenile National Sucker Lost River Sucker Redband (migratory) Brown Trout Brook Trout Juvenile/Sub-Adult Migration Shortnose Sucker Lost River Sucker Redband (migratory) Brown Trout Brook Trout Juvenile/Sub-Adult Migration Shortnose Sucker Lost River Sucker Redband (migratory) Brown Trout	Brook Trout													
Lost River Sucker Redband (migratory) Brown Trout Brook Trout Egg Incubation through Fry Emergence Shortnose Sucker Lost River Sucker Redband (migratory) Brown Trout Brook Trout Juvenile Rearing Shortnose Sucker Lost River Sucker Redband (migratory) Brown Trout Juvenile Rearing Shortnose Sucker Lost River Sucker Redband (migratory) Brown Trout Brook Trout Juvenile/Sub-Adult Migration Shortnose Sucker Lost River Sucker Redband (migratory) Brown Trout Brook Trout Juvenile/Sub-Adult Migration Shortnose Sucker Redband (migratory) Brown Trout														
Redband (migratory) Brown Trout Brook Trout Egg Incubation through Fry Emergence Shortnose Sucker Lost River Sucker Redband (migratory) Brown Trout Brook Trout Juvenile Rearing Shortnose Sucker Lost River Sucker Redband (migratory) Brown Trout Brook Trout Juvenile Migratory Brown Trout Brook Trout Juvenile/Sub-Adult Migration Shortnose Sucker Lost River Sucker Redband (migratory) Brown Trout Brook Trout Juvenile/Sub-Adult Migration Shortnose Sucker Redband (migratory) Brown Trout Brown Trout Brown Trout														
Brown Trout Brook Trout Egg Incubation through Fry Emergence Shortnose Sucker Lost River Sucker Redband (migratory) Brown Trout Juvenile Rearing Shortnose Sucker Lost River Sucker Redband (migratory) Brown Trout Brook Trout Juvenile/Sub-Adult Migration Shortnose Sucker Lost River Sucker Redband (migratory) Brown Trout Brook Trout Juvenile/Sub-Adult Migration Shortnose Sucker Lost River Sucker Redband (migratory) Brown Trout Juvenile/Sub-Adult Migration								***********						
Brook Trout Egg Incubation through Fry Emergence Shortnose Sucker Lost River Sucker Redband (migratory) Brown Trout Brook Trout Juvenile Rearing Shortnose Sucker Lost River Sucker Redband (migratory) Brown Trout Brook Trout Juvenile/Sub-Adult Migration Shortnose Sucker Lost River Sucker Redband (migratory) Brook Trout Juvenile/Sub-Adult Migration Shortnose Sucker Lost River Sucker Redband (migratory) Brown Trout														
Egg Incubation through Fry Emergence Shortnose Sucker Lost River Sucker Redband (migratory) Brown Trout Brook Trout Juvenile Rearing Shortnose Sucker Lost River Sucker Redband (migratory) Brown Trout Brook Trout Juvenile/Sub-Adult Migration Shortnose Sucker Lost River Sucker Redband (migratory) Brown Trout Juvenile/Sub-Adult Migration Shortnose Sucker Redband (migratory) Brown Trout														
Shortnose Sucker Lost River Sucker Redband (migratory) Brown Trout Brook Trout Juvenile Rearing Shortnose Sucker Lost River Sucker Redband (migratory) Brown Trout Brook Trout Juvenile/Sub-Adult Migration Shortnose Sucker Lost River Sucker Redband (migratory) Brown Trout Frout Juvenile/Sub-Adult Migration Shortnose Sucker Lost River Sucker Redband (migratory) Brown Trout														
Lost River Sucker Redband (migratory) Brown Trout Brook Trout Juvenile Rearing Shortnose Sucker Lost River Sucker Redband (migratory) Brown Trout Brook Trout Juvenile/Sub-Adult Migration Shortnose Sucker Lost River Sucker Redband (migratory) Brown Trout Brook Trout Juvenile/Sub-Adult Migration Shortnose Sucker Lost River Sucker Redband (migratory) Brown Trout														
Redband (migratory) Brown Trout Brook Trout Juvenile Rearing Shortnose Sucker Lost River Sucker Redband (migratory) Brown Trout Brook Trout Juvenile/Sub-Adult Migration Shortnose Sucker Lost River Sucker Redband (migratory) Brown Trout														
Brown Trout Brook Trout Juvenile Rearing Shortnose Sucker Lost River Sucker Redband (migratory) Brown Trout Brook Trout Juvenile/Sub-Adult Migration Shortnose Sucker Lost River Sucker Redband (migratory) Brown Trout														
Brook Trout Juvenile Rearing Shortnose Sucker Lost River Sucker Redband (migratory) Brown Trout Brook Trout Juvenile/Sub-Adult Migration Shortnose Sucker Lost River Sucker Redband (migratory) Brown Trout														
Juvenile Rearing Shortnose Sucker Lost River Sucker Redband (migratory) Brown Trout Brook Trout Juvenile/Sub-Adult Migration Shortnose Sucker Lost River Sucker Redband (migratory) Brown Trout														
Shortnose Sucker Lost River Sucker Redband (migratory) Brown Trout Brook Trout Juvenile/Sub-Adult Migration Shortnose Sucker Lost River Sucker Redband (migratory) Brown Trout														
Lost River Sucker Redband (migratory) Brown Trout Brook Trout Juvenile/Sub-Adult Migration Shortnose Sucker Lost River Sucker Redband (migratory) Brown Trout														
Redband (migratory) Brown Trout Brook Trout Juvenile/Sub-Adult Migration Shortnose Sucker Lost River Sucker Redband (migratory) Brown Trout														
Brown Trout Brook Trout Juvenile/Sub-Adult Migration Shortnose Sucker Lost River Sucker Redband (migratory) Brown Trout														
Brook Trout Juvenile/Sub-Adult Migration Shortnose Sucker Lost River Sucker Redband (migratory) Brown Trout														
Juvenile/Sub-Adult Migration Shortnose Sucker Lost River Sucker Redband (migratory) Brown Trout														
Shortnose Sucker Lost River Sucker Redband (migratory) Brown Trout														
Lost River Sucker Redband (migratory) Brown Trout														
Redband (migratory) Brown Trout														
Brown Trout														
							E:::::::::::::::::::::::::::::::::::::							

Represents periods of peak use based on professional opinion.

Represents lesser level of use based on professional opinion.

Represents periods of presence, either with no level of use OR uniformly distributed level of use indicated

Peak and lesser use time periods were designated during data compilation, but no percentages were assigned to the different levels of use, therefore a 90 / 10 split was assumed as it was the most common ratio used by data providers.

90% of the life-stage activity occurs during the time frame shown as the peak use period.

10% of the life-stage activity occurs during the time frame shown as the lesser use period.

This document was created on 12/2/2003. Input to this data was contributed by Roger Smith, ODFW William Tinniswood, ODFW Terry Smith, USFS

Crooked Cr - Non-Anadromous Species

Timing Unit ID: 10406

Life Stage/Activity/Species	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Comments
Adult Fluvial or Adfluvial Migration													
Redband (migratory)													
Brown Trout													
Brook Trout													
Adult Spawning													
Redband (migratory)													
Brown Trout									*:*:*:*:*:				
Brook Trout													
Adult/Sub-Adult Rearing	*****************	************	*************	******************	******************	****************	*****	*****			************		
Redband (migratory)													
Brown Trout													
Brook Trout													
Egg Incubation through Fry Emergence							*****************	*****************					
Redband (migratory)													
Brown Trout													
Brook Trout													
Juvenile Rearing													
Redband (migratory)													
Brown Trout													
Brook Trout													
Juvenile/Sub-Adult Migration			:::::::::::::::::::::::::::::::::::::::										
Redband (migratory)													
Brown Trout													
Brook Trout													

Represents periods of peak use based on professional opinion.

Represents lesser level of use based on professional opinion.

Represents periods of presence, either with no level of use OR uniformly distributed level of use indicated

Peak and lesser use time periods were designated during data compilation, but no percentages were assigned to the different levels of use, therefore a 90 / 10 split was assumed as it was the most common ratio used by data providers.

90% of the life-stage activity occurs during the time frame shown as the peak use period.

10% of the life-stage activity occurs during the time frame shown as the lesser use period.

This document was created on 12/2/2003. Input to this data was contributed by Roger Smith, ODFW William Tinniswood, ODFW Terry Smith, USFS

Fort Cr - Non-Anadromous Species

Timing Unit ID: 10415

	Tilling Clift ID. 10413												
Life Stage/Activity/Species	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Commo
Adult Fluvial or Adfluvial Migration													
Redband (migratory)													
Brown Trout													
Brook Trout													
Adult Spawning													
Redband (migratory)													
Brown Trout													
Brook Trout													
Adult/Sub-Adult Rearing									.,.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			******************	
Redband (migratory)													
Brown Trout													
Brook Trout													
Egg Incubation through Fry Emergence													
Redband (migratory)													
Brown Trout													
Brook Trout													
Juvenile Rearing	*******************												
Redband (migratory)													
Brown Trout													
Brook Trout													
Juvenile/Sub-Adult Migration						*****************		*.*.*.*.*.*.*.*.*.*.*.			*****************	*,*,*,*,*,*,*,*,*,*,*,*,*,	
Redband (migratory)													
Brown Trout													
Brook Trout													

Represents periods of peak use based on professional opinion.

Represents lesser level of use based on professional opinion.

Represents periods of presence, either with no level of use OR uniformly distributed level of use indicated

Peak and lesser use time periods were designated during data compilation, but no percentages were assigned to the different levels of use, therefore a 90 / 10 split was assumed as it was the most common ratio used by data providers.

90% of the life-stage activity occurs during the time frame shown as the peak use period.

10% of the life-stage activity occurs during the time frame shown as the lesser use period.

This document was created on 12/2/2003. Input to this data was contributed by Roger Smith, ODFW William Tinniswood, ODFW Terry Smith, USFS