

12-2-2003

## Ex. 277-US-410

Roger Smith

*Oregon Department of Fish and Wildlife, Klamath Watersed District*

William Tinniswood

*Oregon Department of Fish and Wildlife, Klamath Watersed District*

Terry Smith

*United States Forrest Service*

Follow this and additional works at: <https://digitalcommons.law.uidaho.edu/all>

---

### Recommended Citation

Smith, Roger; Tinniswood, William; and Smith, Terry, "Ex. 277-US-410" (2003). *Hedden-Nicely Collection, All*. 332.  
<https://digitalcommons.law.uidaho.edu/all/332>

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 Hedden-Nicely Collection, All by an authorized administrator of Digital Commons @ UIdaho Law. For more information, please contact [annablaine@uidaho.edu](mailto:annablaine@uidaho.edu).

## Williamson R below falls at RM 23 and tribs - Non-Anadromous Species

Timing Unit ID: 10451

Life Stage/Activity/Species	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Comments
<b>Adult Fluvial or Adfluvial Migration</b>													
Shortnose Sucker													
Lost River Sucker													
Redband (migratory)													
Brown Trout													
Brook Trout													
<b>Adult Spawning</b>													
Shortnose Sucker													
Lost River Sucker													
Redband (migratory)													
Brown Trout													
Brook Trout													
<b>Adult/Sub-Adult Rearing</b>													
Shortnose Sucker													C3
Lost River Sucker													C2
Redband (migratory)													
Brown Trout													
Brook Trout													
<b>Egg Incubation through Fry Emergence</b>													
Shortnose Sucker													
Lost River Sucker													
Redband (migratory)													
Brown Trout													C1
Brook Trout													
<b>Juvenile Rearing</b>													
Shortnose Sucker													
Lost River Sucker													
Redband (migratory)													
Brown Trout													
Brook Trout													
<b>Juvenile/Sub-Adult Migration</b>													
Shortnose Sucker													
Lost River Sucker													
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.

**Comments**

- C1 - Embryonic development is slow during winter months due to cold temperatures
- C2 - Documented in Williamson R up to the mouth of the Sprague R
- C3 - Documented in Williamson R up to the mouth of the Sprague R

This document was created on 12/2/2003.

Input to this data was contributed by

- Roger Smith, ODFW
- William Tinniswood, ODFW
- Terry Smith, USFS

## Williamson R above RM 23 and tribs - Non-Anadromous Species

Timing Unit ID: 10450

Life Stage/Activity/Species	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Comments
<b>Adult Fluvial or Adfluvial Migration</b>													
Shortnose Sucker													
Lost River Sucker													
Redband (resident)													
Brook Trout													
<b>Adult Spawning</b>													
Shortnose Sucker													
Lost River Sucker													
Redband (resident)													
Brook Trout													
<b>Adult/Sub-Adult Rearing</b>													
Shortnose Sucker													C2
Lost River Sucker													C1
Redband (resident)													
Brook Trout													
<b>Egg Incubation through Fry Emergence</b>													
Shortnose Sucker													
Lost River Sucker													
Redband (resident)													
Brook Trout													
<b>Juvenile Rearing</b>													
Shortnose Sucker													
Lost River Sucker													
Redband (resident)													
Brook Trout													
<b>Juvenile/Sub-Adult Migration</b>													
Shortnose Sucker													
Lost River Sucker													
Redband (resident)													
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.

### Comments

C1 - Documented in Williamson R up to the mouth of the Sprague R

C2 - Documented in Williamson R up to the mouth of the Sprague R

This document was created on 12/2/2003.

Input to this data was contributed by

Roger Smith, ODFW

William Tinniswood, ODFW

Terry Smith, USFS

## Jackson Cr - Non-Anadromous Species

Timing Unit ID: 10421

Life Stage/Activity/Species	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Comments
<b>Adult Fluvial or Adfluvial Migration</b> Brook Trout													
<b>Adult Spawning</b> Brook Trout													
<b>Adult/Sub-Adult Rearing</b> Brook Trout													
<b>Egg Incubation through Fry Emergence</b> Brook Trout													
<b>Juvenile Rearing</b> Brook Trout													
<b>Juvenile/Sub-Adult Migration</b> 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

## Deep Cr - Non-Anadromous Species

Timing Unit ID: 10408

Life Stage/Activity/Species	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Comments
<b>Adult Fluvial or Adfluvial Migration</b> Brook Trout													
<b>Adult Spawning</b> Brook Trout													
<b>Adult/Sub-Adult Rearing</b> Brook Trout													
<b>Egg Incubation through Fry Emergence</b> Brook Trout													
<b>Juvenile Rearing</b> Brook Trout													
<b>Juvenile/Sub-Adult Migration</b> 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

## Larkin and Sunnybrook Cr - Non-Anadromous Species

Timing Unit ID: 10428

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

## Scott and Sand Cr - Non-Anadromous Species

Timing Unit ID: 10439

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

## Spring Cr - Non-Anadromous Species

Timing Unit ID: 10445

Life Stage/Activity/Species	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Comments
<b>Adult Fluvial or Adfluvial Migration</b>													
Redband (migratory)													
Brown Trout													
Brook Trout													
<b>Adult Spawning</b>													
Redband (migratory)													C1
Brown Trout													
Brook Trout													
<b>Adult/Sub-Adult Rearing</b>													
Redband (migratory)													
Brown Trout													
Brook Trout													
<b>Egg Incubation through Fry Emergence</b>													
Redband (migratory)													
Brown Trout													
Brook Trout													
<b>Juvenile Rearing</b>													
Redband (migratory)													
Brown Trout													
Brook Trout													
<b>Juvenile/Sub-Adult Migration</b>													
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.

**Comments**

C1 - Spawning observed every month except September

This document was created on 12/2/2003.

Input to this data was contributed by

- Roger Smith, ODFW
- William Tinniswood, ODFW
- Terry Smith, USFS