G=-0.17+0.012T for 14<=T<25 in cm/day

Shuter, B. J., J. A. MacLean, F. E. J. Fry, an
https://www.researchgate.net/publication

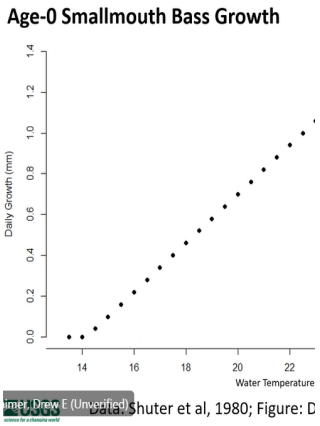
Number of days (and date) to offramp befo

	Mean daily temp C	Daily growth mm	Mean daily temp C	Number of days to reach 20mm	Mean daily temp C	Offramp date	# days before 12/1
9/1/2024	18.5	0.52			18.5	10/24/2024	38
9/2/2024	18.5	0.52	16.0	90	18.0	10/19/2024	43
9/3/2024	18.5	0.52			17.5	10/12/2024	50
9/4/2024	18.5	0.52			17.0	10/4/2024	58
9/5/2024	18.5	0.52			16.5	9/17/2024	75
9/6/2024	18.5	0.52			16.0	9/2/2024	90
9/7/2024	18.5	0.52					
9/8/2024	18.5	0.52					
9/9/2024	18.5	0.52					
9/10/2024	18.5	0.52					
9/11/2024	18.5	0.52					
9/12/2024	18.5	0.52					
9/13/2024	18.5	0.52					
9/14/2024	18.5	0.52					
9/15/2024	18.5	0.52					
9/16/2024	18.5	0.52					
9/17/2024	18.5	0.52	16.5	75			
9/18/2024	18.5	0.52					
9/19/2024	18.5	0.52					
9/20/2024	18.5	0.52					
9/21/2024	18.5	0.52					
9/22/2024	18.5	0.52					
9/23/2024	18.5	0.52					
9/24/2024	18.5	0.52					
9/25/2024	18.5	0.52					
9/26/2024	18.5	0.52					
9/27/2024	18.5	0.52					
9/28/2024	18.5	0.52					
9/29/2024	18.5	0.52					
9/30/2024	18.5	0.52					
10/1/2024	18.5	0.52					
10/2/2024	18.5	0.52					
10/3/2024	18.5	0.52					
10/4/2024	18.5	0.52	17.0	58			
10/5/2024	18.5	0.52					
10/6/2024	18.5	0.52					

Assumptions:

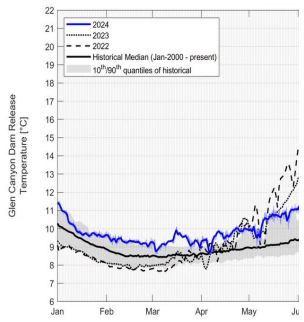
Growth is as described in S
Release temperatures and
If larvae don't grow to more

Smallmouth Bass and

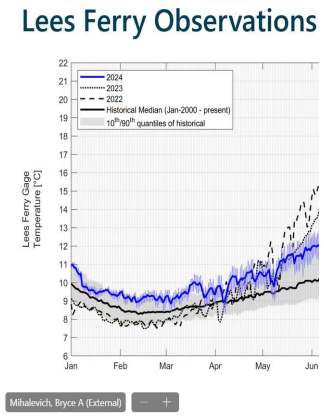


Shuter et al, 1980; Figure: D

Glen Canyon Dam Obse



10/7/2024	18.5	0.52		
10/8/2024	18.5	0.52		
10/9/2024	18.5	0.52		
10/10/2024	18.5	0.52		
10/11/2024	18.5	0.52		
10/12/2024	18.5	0.52	17.5	50
10/13/2024	18.5	0.52		
10/14/2024	18.5	0.52		
10/15/2024	18.5	0.52		
10/16/2024	18.5	0.52		
10/17/2024	18.5	0.52		
10/18/2024	18.5	0.52		
10/19/2024	18.5	0.52	18.0	43
10/20/2024	18.5	0.52		
10/21/2024	18.5	0.52		
10/22/2024	18.5	0.52		
10/23/2024	18.5	0.52		
10/24/2024	18.5	0.52	18.5	38
10/25/2024	18.5	0.52		
10/26/2024	18.5	0.52		
10/27/2024	18.5	0.52		
10/28/2024	18.5	0.52		
10/29/2024	18.5	0.52		
10/30/2024	18.5	0.52		
10/31/2024	18.5	0.52		
11/1/2024	18.5	0.52		
11/2/2024	18.5	0.52		
11/3/2024	18.5	0.52		
11/4/2024	18.5	0.52		
11/5/2024	18.5	0.52		
11/6/2024	18.5	0.52		
11/7/2024	18.5	0.52		
11/8/2024	18.5	0.52		
11/9/2024	18.5	0.52		
11/10/2024	18.5	0.52		
11/11/2024	18.5	0.52		
11/12/2024	18.5	0.52		
11/13/2024	18.5	0.52		
11/14/2024	18.5	0.52		
11/15/2024	18.5	0.52		
11/16/2024	18.5	0.52		
11/17/2024	18.5	0.52		
11/18/2024	18.5	0.52		
11/19/2024	18.5	0.52		

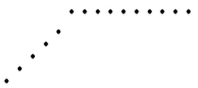


11/20/2024	18.5	0.52
11/21/2024	18.5	0.52
11/22/2024	18.5	0.52
11/23/2024	18.5	0.52
11/24/2024	18.5	0.52
11/25/2024	18.5	0.52
11/26/2024	18.5	0.52
11/27/2024	18.5	0.52
11/28/2024	18.5	0.52
11/29/2024	18.5	0.52
11/30/2024	18.5	0.52

d H. A. Reiger. 1980. Stochastic simulation of temperature effects on first year survival of smallmouth bass. Tı

Lees Ferry temperatures fall below 14.0 C by December 1 (The 90th percentile of release temperatures and temp

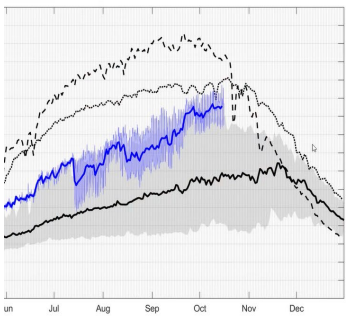
ł Temperature



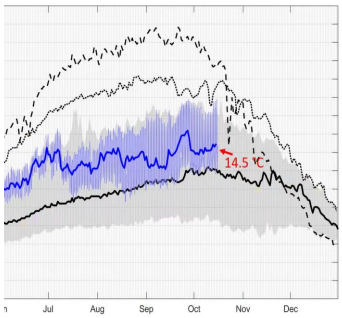
Dudley & Trial, 2014

Preliminary data, subject to

rvations – Temperature



- Temperature



ɔeratures at Lees Ferry appear to fall below 14.0 C by the last week of November)