

Technical Memorandum 3-8
Stream Fish Populations Upstream of Englebright Reservoir

Attachment 3-8D
Length-Weight Regressions for Collected Fish

Yuba River Development Project
FERC Project No. 2246

November 2013

©2013, Yuba County Water Agency
All Rights Reserved

Table of Contents

Section No.	Description	Page No.
1.0	Introduction.....	1
2.0	Length-Weight Regressions for Middle Yuba River Fish Population Monitoring Sites.....	2
3.0	Length-Weight Regressions for the North Yuba River Fish Population Monitoring Site	6
4.0	Length-Weight Regressions for Surveys at Oregon Creek Fish Population Monitoring Sites.....	8
5.0	Length-Weight Regressions for Surveys at Yuba River Fish Population Monitoring Sites.....	10

List of Figures

Figure No.	Description	Page No.
1.	Length-weight regression for rainbow trout captured during electrofishing surveys on Middle Yuba Sites during the 2012 and 2013 field sampling efforts.....	2
2.	Length-weight regression for Sacramento sucker captured during electrofishing surveys on Middle Yuba Sites, during the 2012 and 2013 field sampling efforts.....	3
3.	Length-weight regression for Sacramento pikeminnow captured during electrofishing surveys at Middle Yuba Sites, during the 2012 and 2013 field sampling efforts.	4
4.	Length-weight regression for smallmouth bass captured during electrofishing surveys on Middle Yuba Sites, during the 2012 and 2013 field sampling efforts.....	5
5.	Length-weight regression for rainbow trout captured during electrofishing surveys at the North Yuba Site, during the 2012 and 2013 field sampling efforts.....	6
6.	Length-weight regression for Sacramento sucker captured during electrofishing surveys at the North Yuba Site, during the 2012 and 2013 field sampling efforts.....	7
7.	Length-weight regression for rainbow trout captured during electrofishing surveys on Oregon Creek Sites, during the 2012 and 2013 field sampling efforts.....	8
8.	Length-weight regression for Sacramento sucker captured during electrofishing surveys on Oregon Creek Sites, during the 2012 and 2013 field sampling efforts.	9
9.	Length-weight regression for smallmouth bass captured during electrofishing surveys on Yuba River Sites, during the 2012 and 2013 field sampling efforts.	10

Page Left Blank

1.0 Introduction

This document presents length-weight regression for fish species captured by electrofishing during field efforts for Study 3.8 *Stream Fish Populations Upstream of Englebright Reservoir* over the 2012 and 2013 seasons. Regression was used to compute relative condition factors using the power function $W=aL^b$ (Anderson et al. 1996). Graphs are organized by species and year for each stream. Condition factor of individual fish by species and location is provided in Attachment 3-8C.

2.0 Length-Weight Regressions for Middle Yuba River Fish Population Monitoring Sites

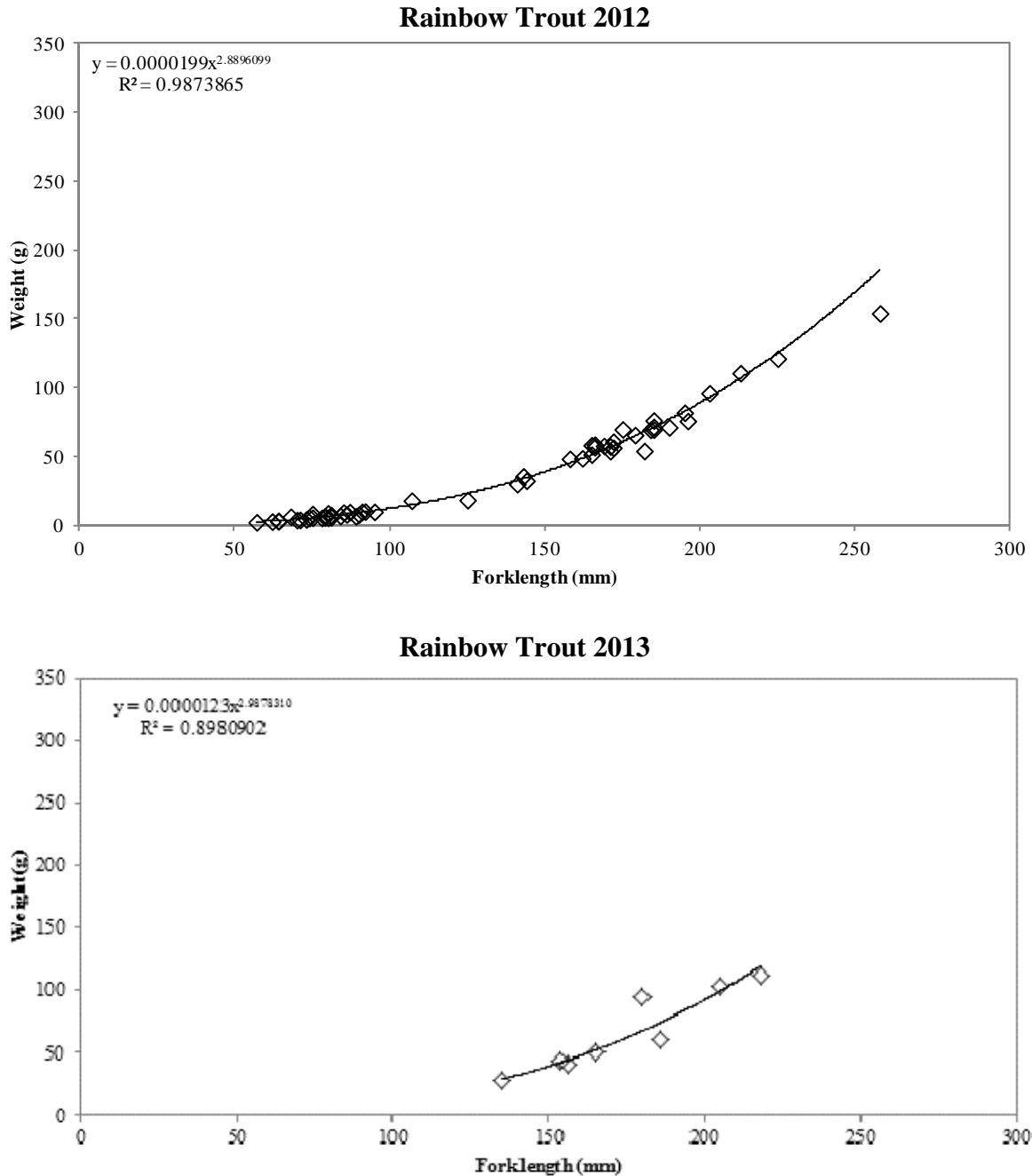
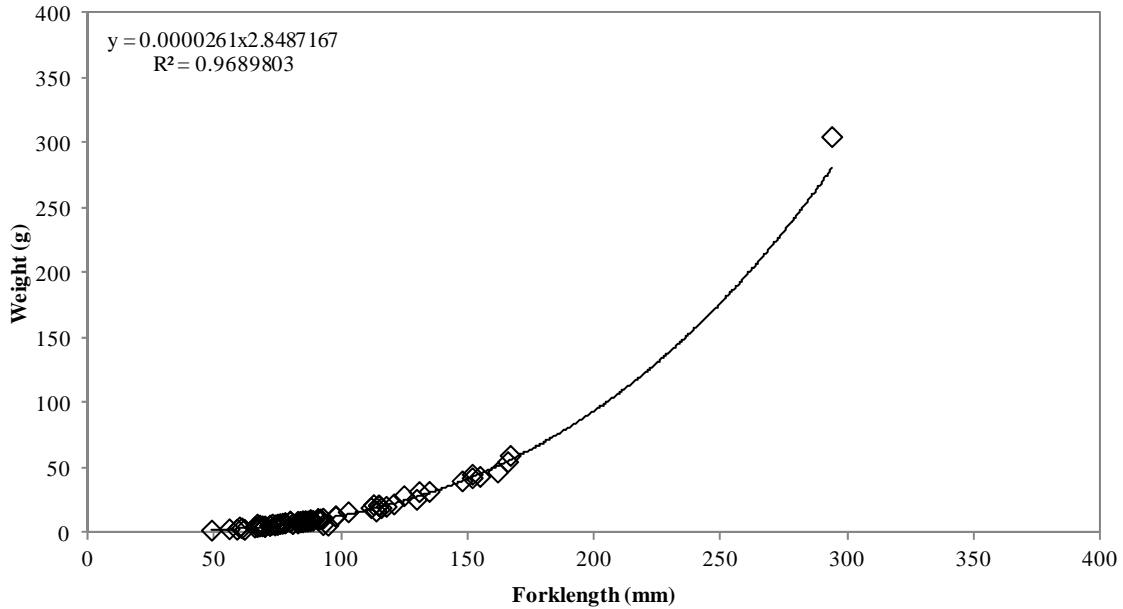


Figure 1. Length-weight regression for rainbow trout captured during electrofishing surveys on Middle Yuba Sites during the 2012 and 2013 field sampling efforts.

Sacramento Sucker 2012



Sacramento Sucker 2013

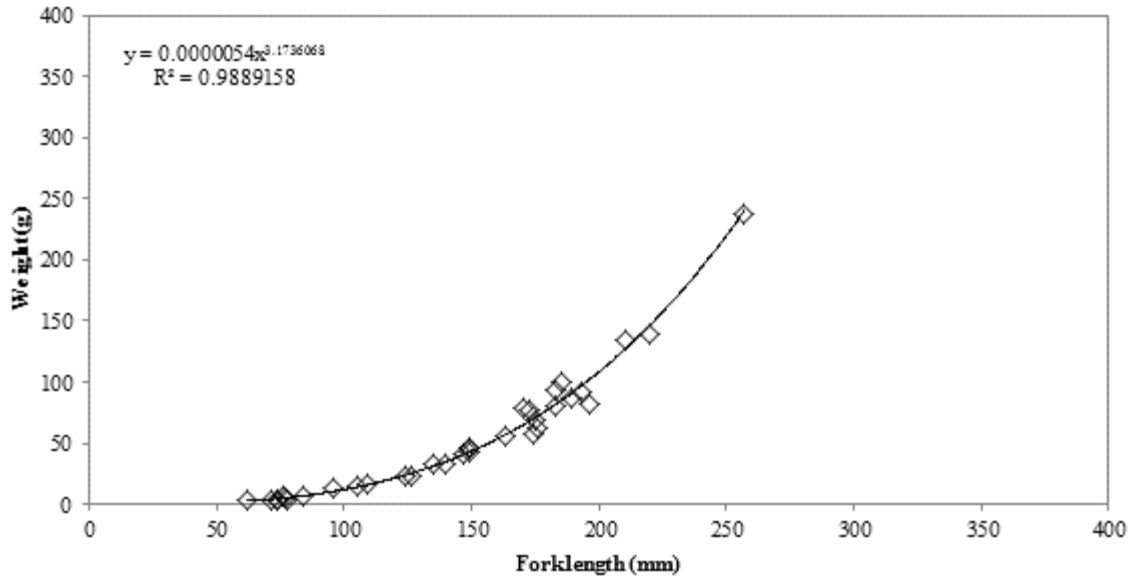
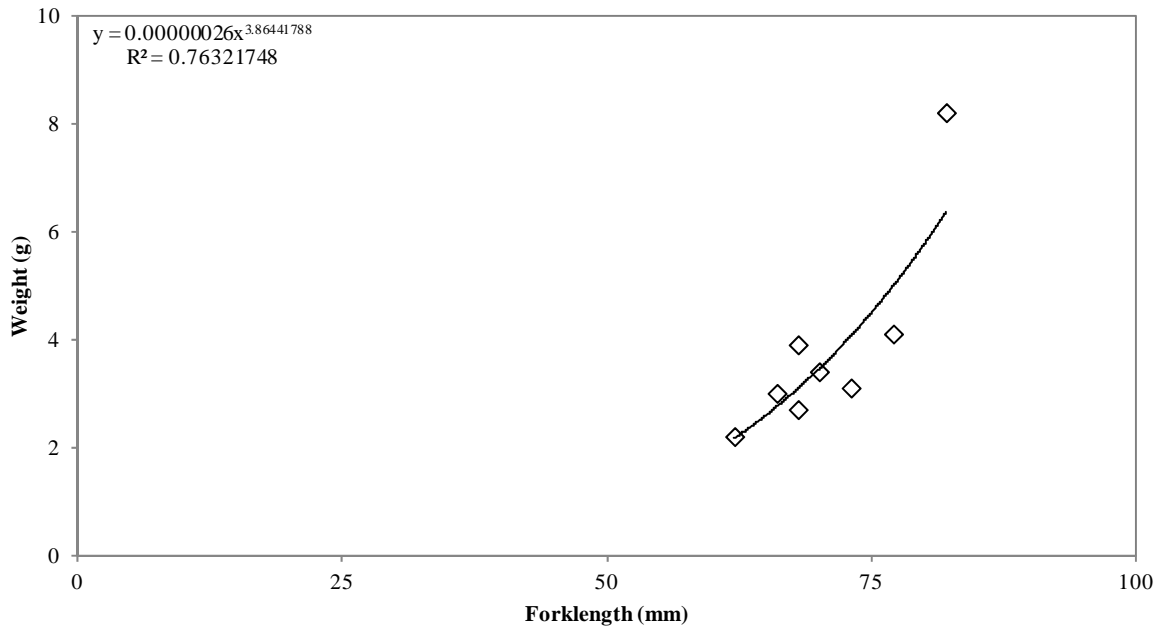


Figure 2. Length-weight regression for Sacramento sucker captured during electrofishing surveys on Middle Yuba Sites, during the 2012 and 2013 field sampling efforts.

Sacramento Pikeminnow 2012



Sacramento Pikeminnow 2013

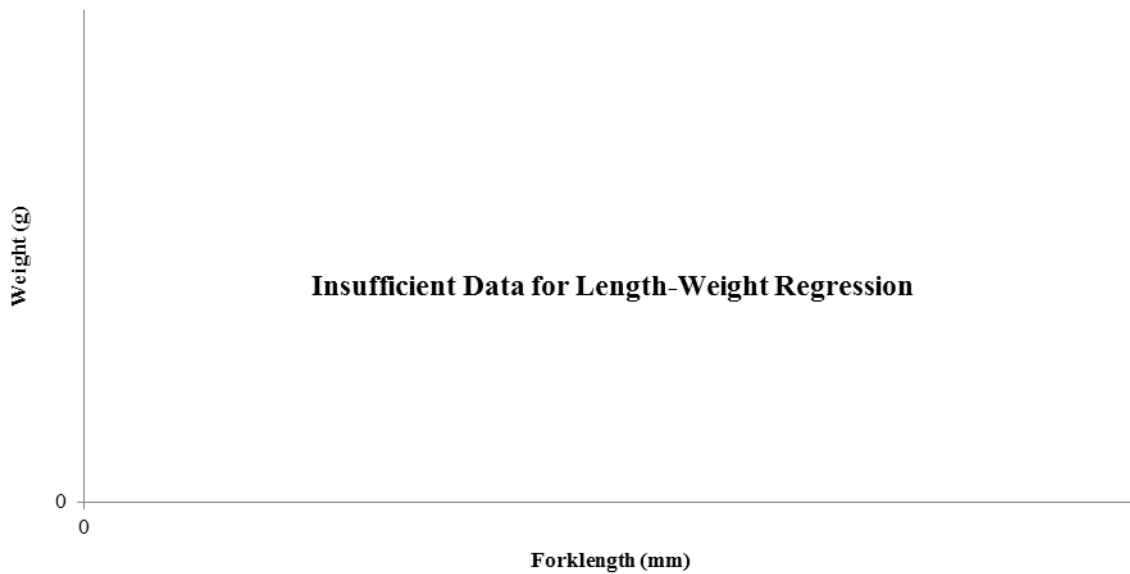
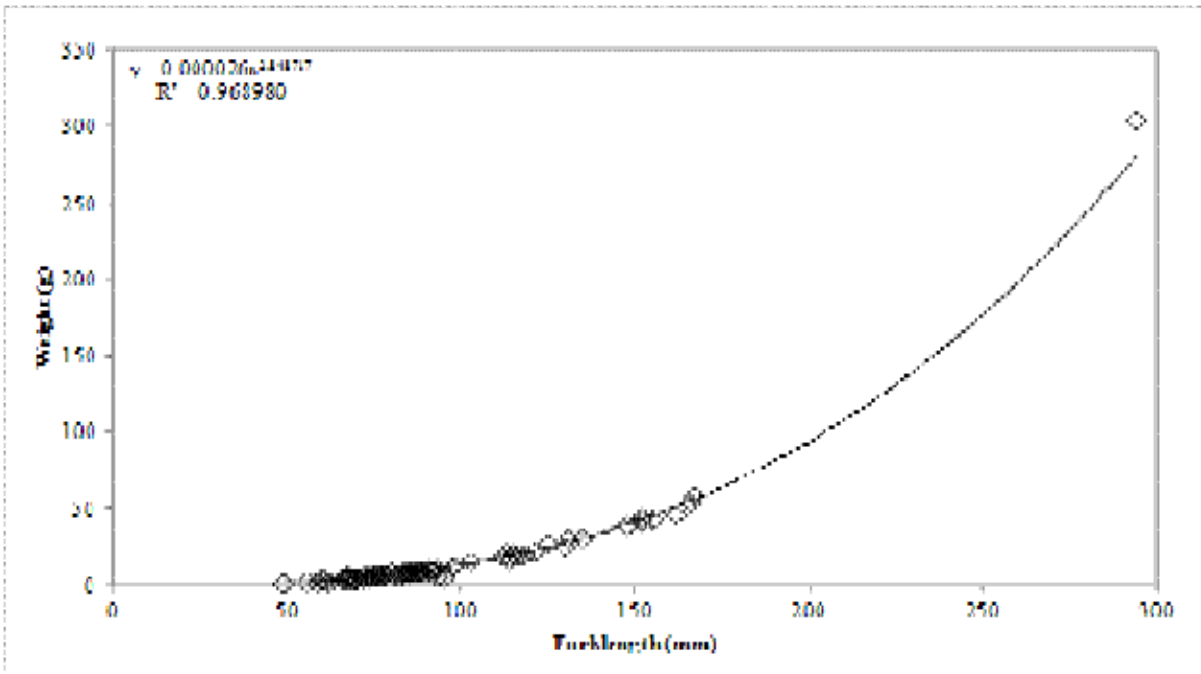


Figure 3. Length-weight regression for Sacramento pikeminnow captured during electrofishing surveys at Middle Yuba Sites, during the 2012 and 2013 field sampling efforts.

Smallmouth Bass 2012



Smallmouth Bass 2013

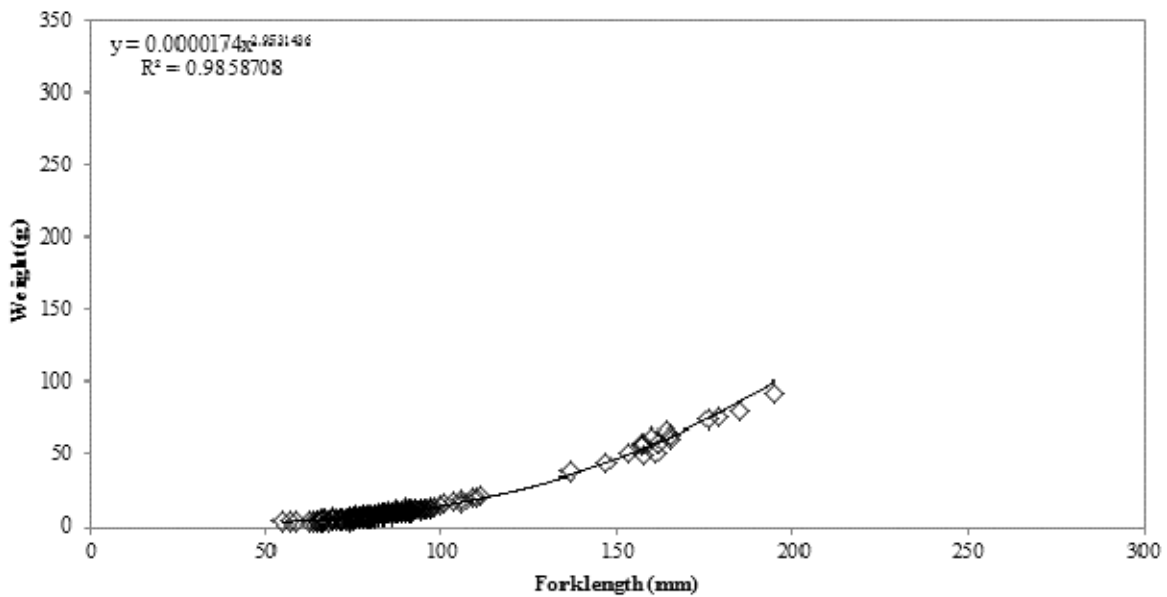


Figure 4. Length-weight regression for smallmouth bass captured during electrofishing surveys on Middle Yuba Sites, during the 2012 and 2013 field sampling efforts.

3.0 Length-Weight Regressions for the North Yuba River Fish Population Monitoring Site

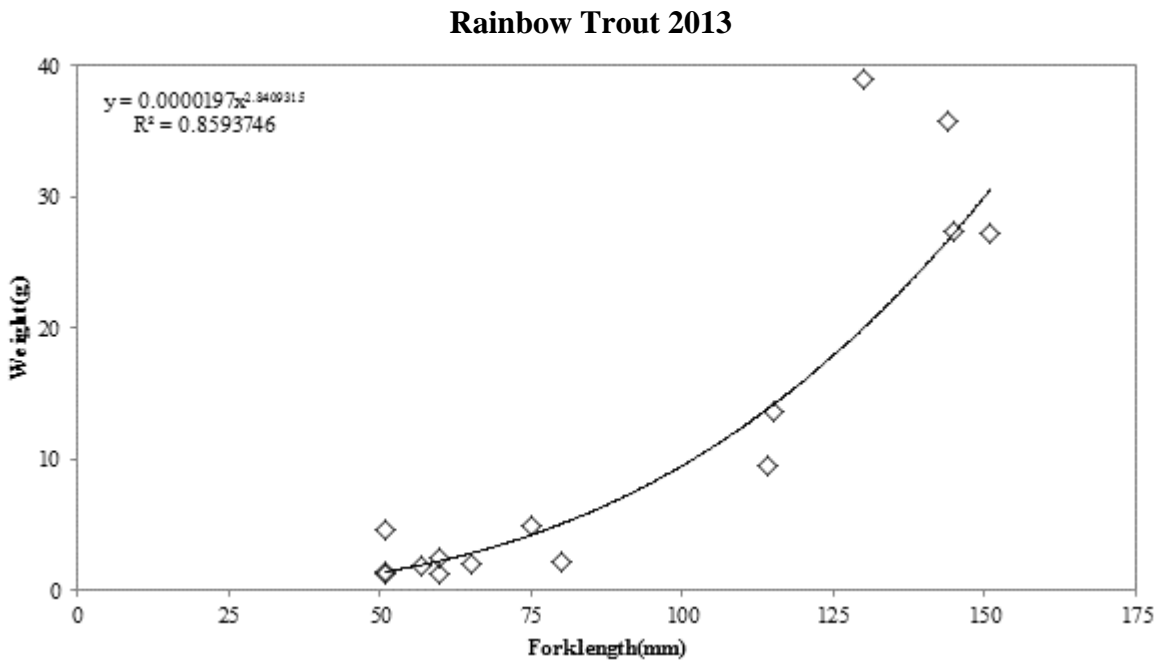
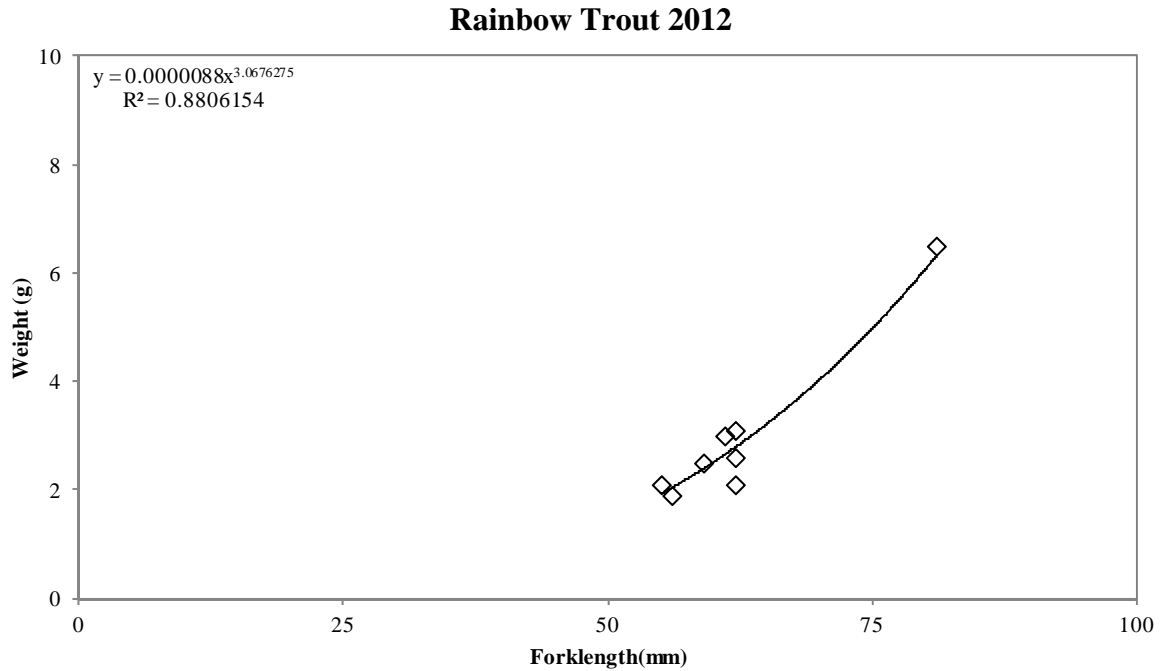
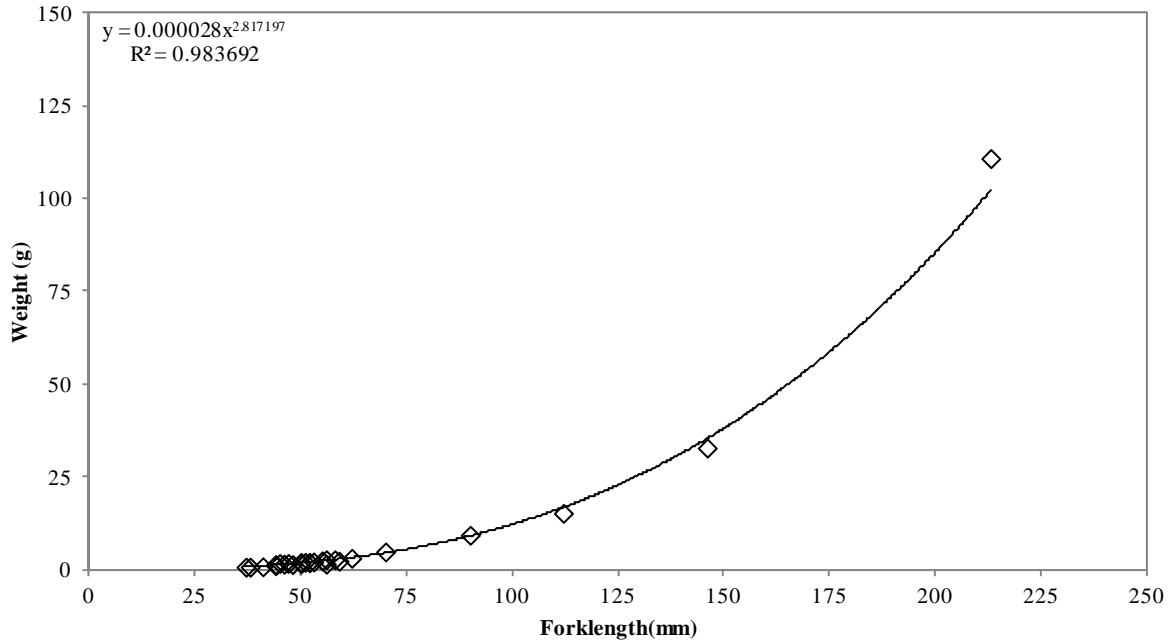


Figure 5. Length-weight regression for rainbow trout captured during electrofishing surveys at the North Yuba Site, during the 2012 and 2013 field sampling efforts.

Sacramento Sucker 2012



Sacramento Sucker 2013

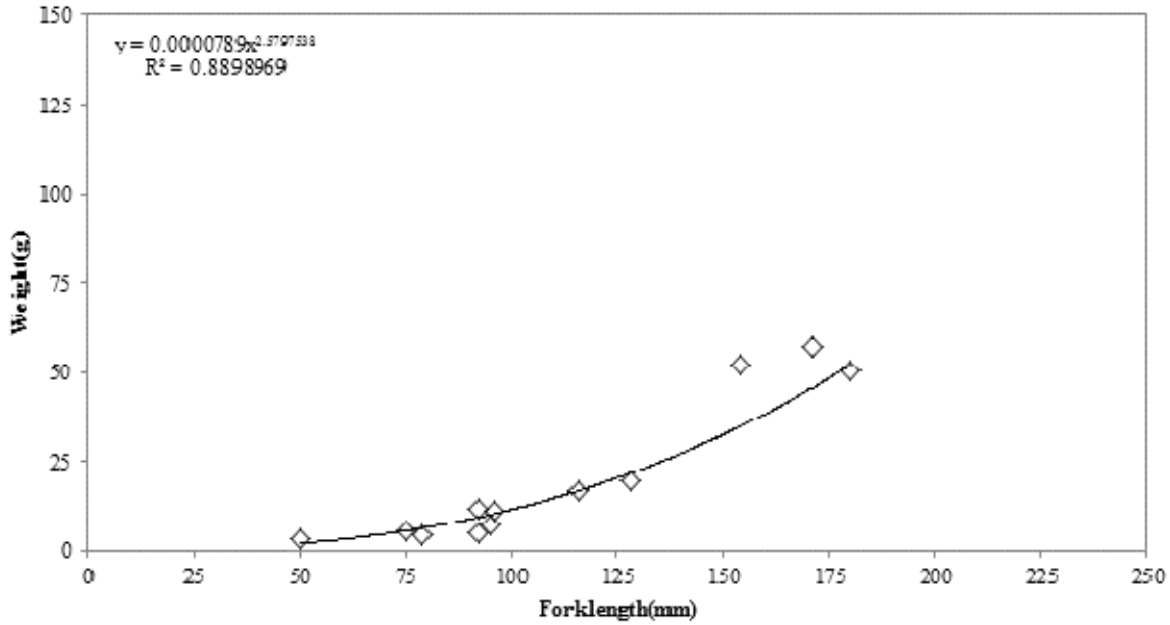
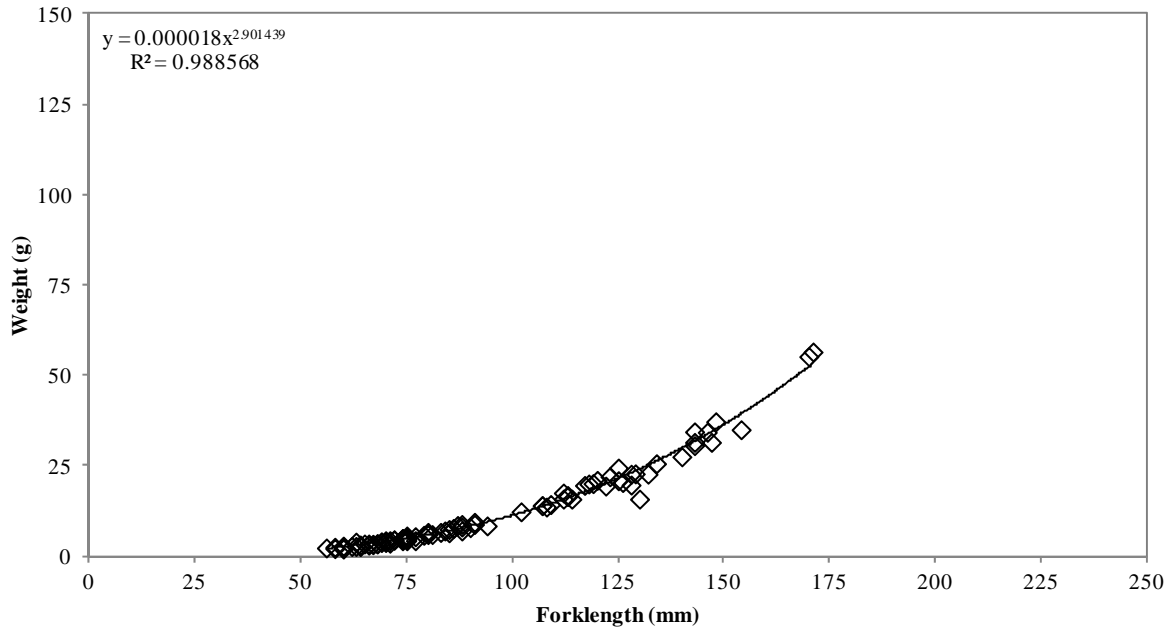


Figure 6. Length-weight regression for Sacramento sucker captured during electrofishing surveys at the North Yuba Site, during the 2012 and 2013 field sampling efforts.

4.0 Length-Weight Regressions for Surveys at Oregon Creek Fish Population Monitoring Sites

Rainbow Trout 2012



Rainbow Trout 2013

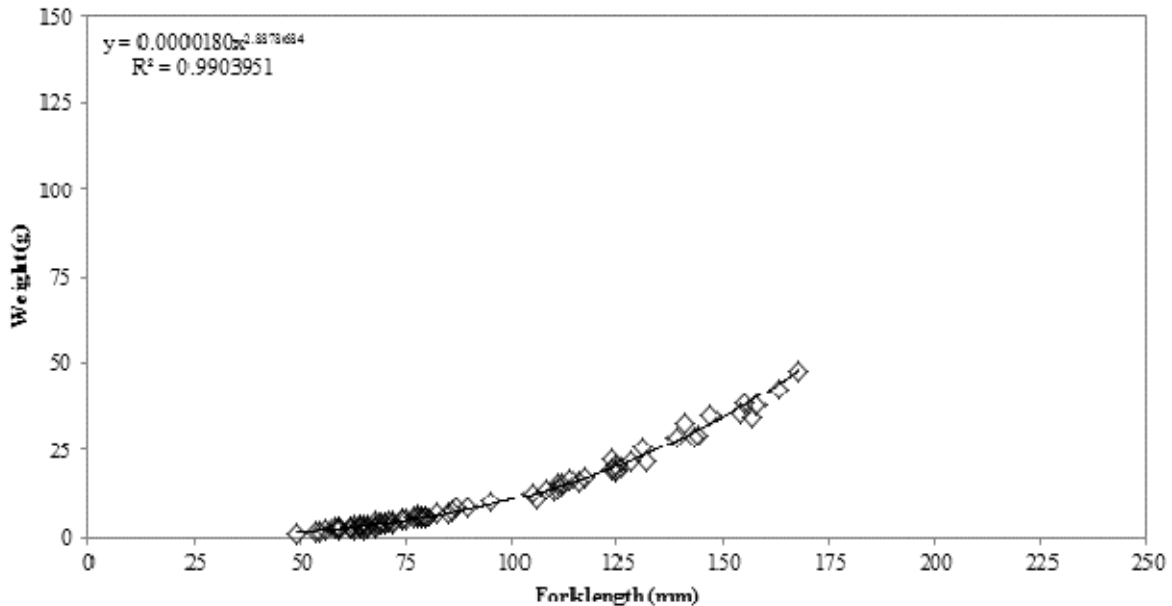
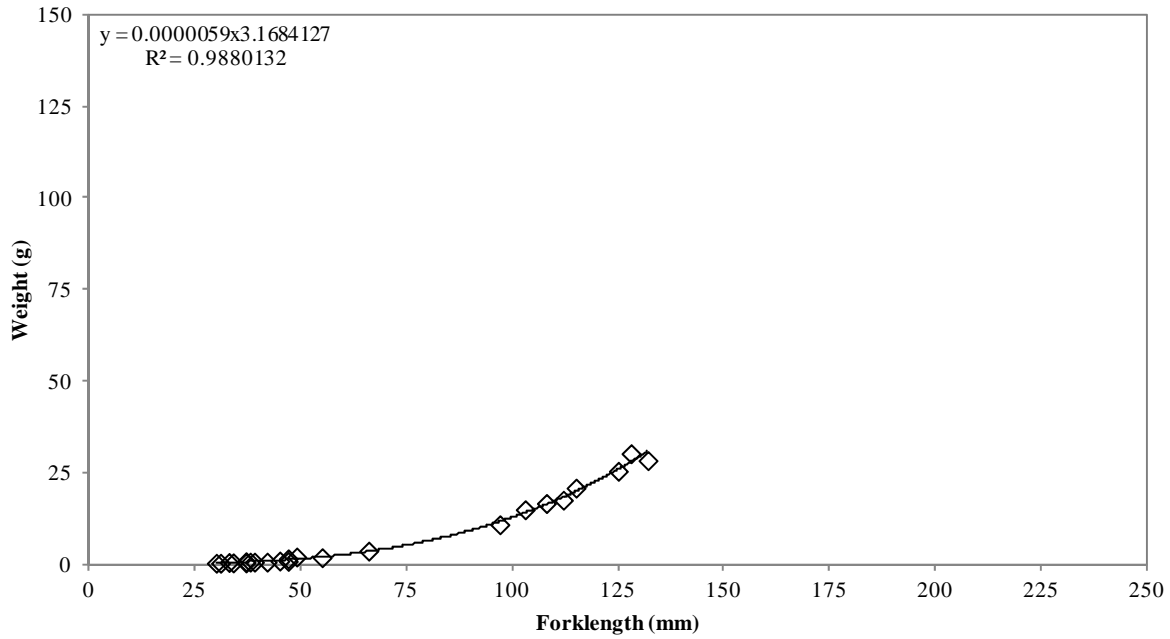


Figure 7. Length-weight regression for rainbow trout captured during electrofishing surveys on Oregon Creek Sites, during the 2012 and 2013 field sampling efforts.

Sacramento Sucker 2012



Sacramento Sucker 2013

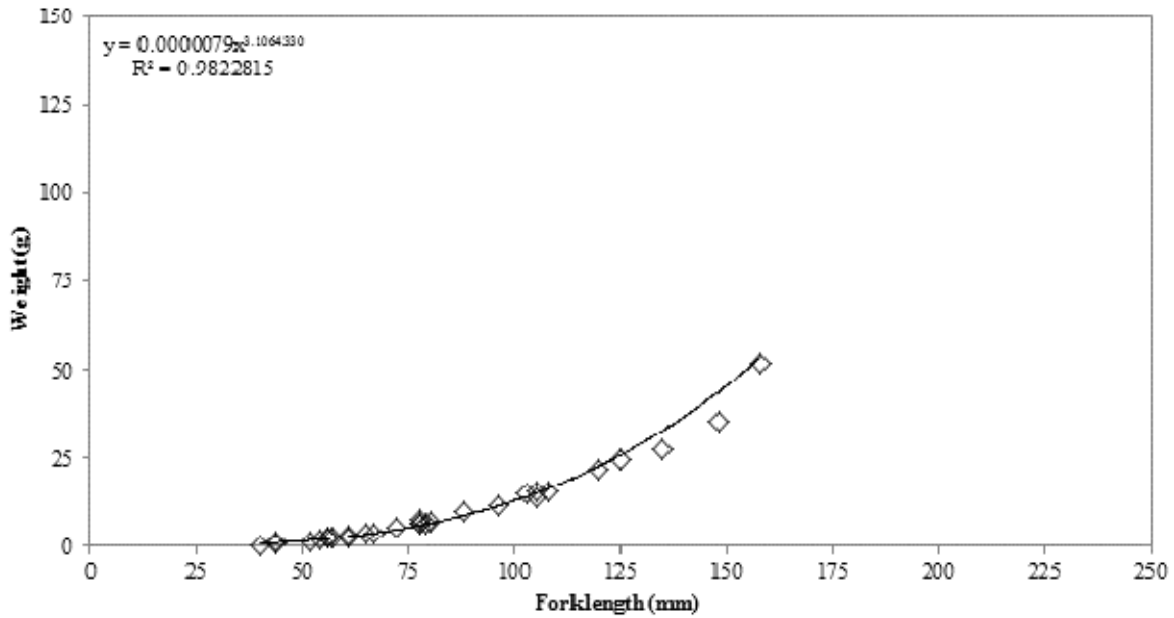


Figure 8. Length-weight regression for Sacramento sucker captured during electrofishing surveys on Oregon Creek Sites, during the 2012 and 2013 field sampling efforts.

5.0 Length-Weight Regressions for Surveys at Yuba River Fish Population Monitoring Sites

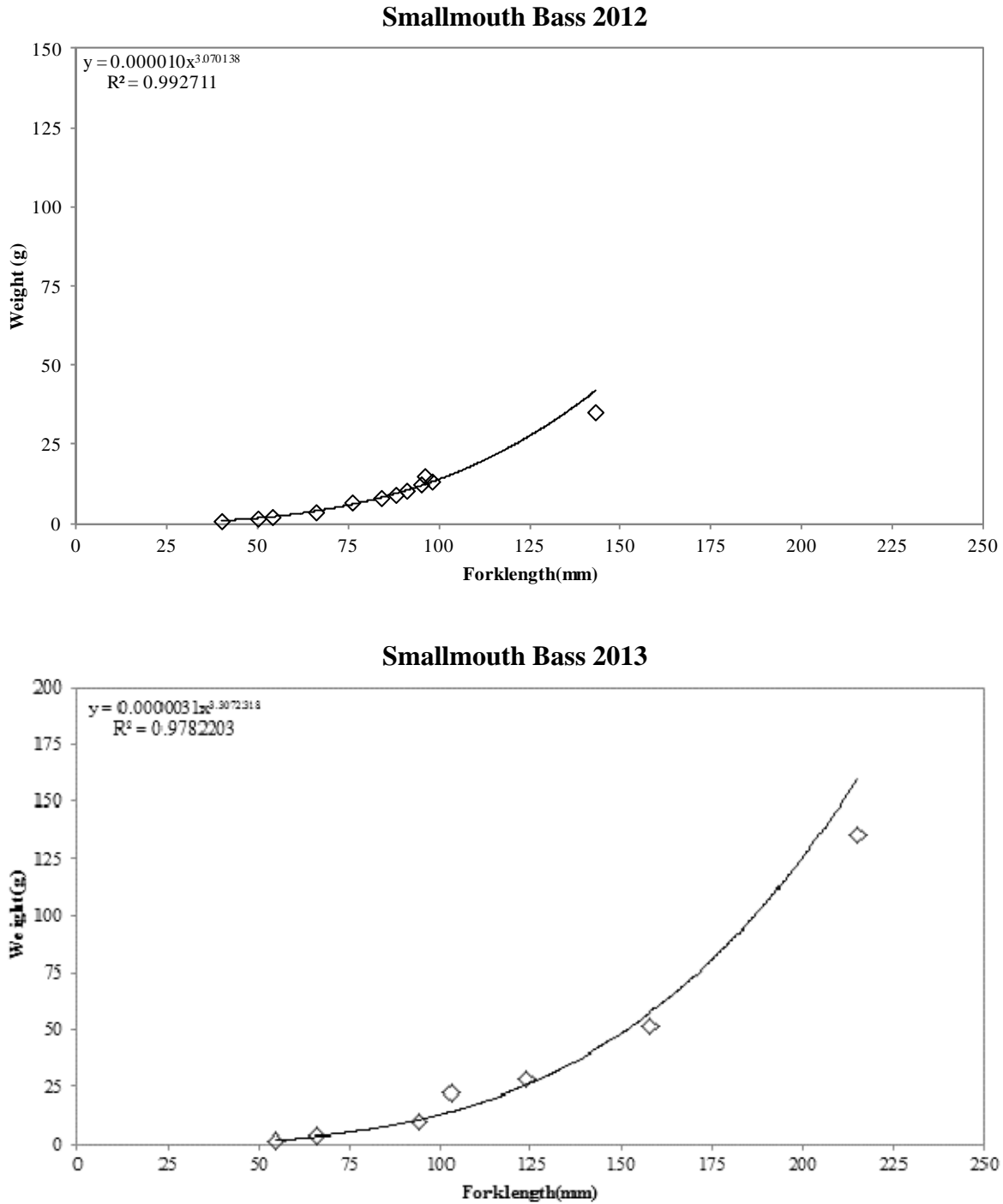


Figure 9. Length-weight regression for smallmouth bass captured during electrofishing surveys on Yuba River Sites, during the 2012 and 2013 field sampling efforts.