

# GRASSLAND BYPASS PROJECT

## SAN JOAQUIN RIVER

### BIOTIC MONITORING PROGRAM

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# **GRASSLAND BYPASS PROJECT**

**FISH TISSUE (whole body)  
SELENIUM THRESHOLD  
CONCENTRATION**

**4 mg/kg (or ppm)**

**(Dry Weight)**

# **GRASSLAND BYPASS PROJECT**

## **DIETARY SELENIUM THRESHOLD CONCENTRATION**

**3 mg/kg (or ppm)**

**(Dry Weight)**

# GRASSLAND BYPASS BIOTIC MONITORING PROGRAM

Total body tissue selenium concentrations (ppm dry wt)  
from the San Joaquin River.

## MOSQUITOFISH

### Site

Year	G (Control)	H (Test)
1996	3.3 AB <sup>a</sup>	3.1 AB
1997	2.7 A	3.6 B
1998	1.4 C	2.7 A
1999	1.5 C	3.0 AB
2000	1.5 C	2.8 A

<sup>a</sup>Means denoted by the same capital letter are similar ( $P > 0.05$ , ANOVA).

# GRASSLAND BYPASS BIOTIC MONITORING PROGRAM

Total whole body selenium tissue concentrations (ppm dry wt)

## MOSQUITOFISH

### Site

Year

E

G

H

(Mud Slough)

(San Joaquin River)

(San Joaquin River)

1996 to 2000

6.5

2.1

3.0

2001 to 2003

9.8

1.7

3.7

2004 to 2006

7.7

1.6

3.1

2007 to 2009

9.6

1.3

2.8

# **GRASSLAND BYPASS PROJECT**

## **HUMAN DIETARY SELENIUM THRESHOLD CONCENTRATION**

**2 mg/kg (or ppm)**

**(Wet Weight)**

## GRASSLAND BYPASS BIOTIC MONITORING PROGRAM

Muscle tissue selenium concentrations (ppm wet wt)

### CARP

Year	Site		
	E	G	H
	(Mud Slough)	(San Joaquin River)	(San Joaquin River)
1996 to 2000	1.3	0.56	0.66
2001 to 2003	1.5	0.50	0.66
2004 to 2006	1.3	0.50	0.50
2007 to 2009	0.84	0.80	0.51



