

Creel and Lake Information

Lake Information

Lake Name: Pactola Reservoir

Lake Code: RAP-Lake-1-000

Surface Area: 333.71 Hectares

County: Pennington

Start Date: 5/13/2015

End Date: 8/31/2015

Months Included: January, February, March, April, May, June, July, August, November, December

Table 1. Percent of angling parties interviewed primarily targeting a species (or any species) by month and overall for Pactola Reservoir during 2014 - 2015. Any Species (ANY), Bluegill (BLG), Largemouth Bass (LMB), Northern Pike (NOP), Rainbow Trout (RBT), Rock Bass (ROB), Lake Trout (LAT).

Year	Month	# of Interviews	Percent of Anglers Targeting						
			ANY	BLG	LAT	LMB	NOP	RBT	ROB
2014	January	40	5.0	0.0	50.0	0.0	17.5	5.0	0.0
	February	51	19.6	0.0	37.3	0.0	29.4	0.0	0.0
	March	1	0.0	0.0	0.0	0.0	100.0	0.0	0.0
	April	11	0.0	0.0	0.0	0.0	9.1	72.7	0.0
	May	9	11.1	0.0	0.0	0.0	0.0	88.9	0.0
	June	47	19.1	14.9	4.3	4.3	8.5	48.9	0.0
	July	37	48.6	0.0	5.4	0.0	10.8	21.6	0.0
	August	5	20.0	0.0	0.0	20.0	20.0	20.0	0.0
	Overall	201	20.4	3.5	21.4	1.5	16.4	24.9	0.0
2015	May	39	0.0	5.1	7.7	2.6	5.1	74.4	2.6
	June	33	0.0	9.1	6.1	0.0	6.1	72.7	6.1
	July	29	0.0	27.6	0.0	0.0	3.4	69.0	0.0
	August	25	8.0	8.0	4.0	0.0	0.0	80.0	0.0
	Overall	126	1.6	11.9	4.8	0.8	4.0	73.8	2.4

Table 2. Monthly and overall number of interviews, angler hours, angler days, mean trip length, mean party size, percent of parties interviewed that were South Dakota residents, percent of angling activity from a boat or shack and percent of angling activity that occurred on weekends and holidays at Pactola Reservoir (80% confidence interval).

Year	Month	# Interviews	Angler Hours	Angler Days	Trip Length (h)	Party Size	% SD Residents	% Boat or Shack	% Weekend/Holidays
2013-2014	November	8	0		0.00	2.50	100.00	0	100
	December	88	0		3.00	2.35 (0.84)	95.45	11	27
	January	80	0		1.00	1.93 (0.40)	97.50	3	65
	February	102	0		4.00	2.22 (0.96)	92.16	31	84
	March	2	0		0.00	2.00	100.00	0	0
	Overall	280	0		2.35	2.16 (0.33)	95.00	16	61
2014	April	22	0		0.00	2.29 (0.80)	100.00	9	9
	May	18	0		0.00	1.92	100.00	22	89
	June	94	0		0.32	2.46 (0.39)	89.36	32	21
	July	74	0		2.02	2.48 (0.42)	78.38	43	49
	August	10	0		0.00	2.00	100.00	80	0
	Overall	218	0		1.23	2.24 (0.21)	88.07	35	34
2015	May	39	1,484 (779)	485	3.06 (1.07)	1.88 (0.57)	94.87	13	46
	June	33	916 (436)	315	2.91 (0.48)	2.02 (0.43)	93.94	6	39
	July	29	2,170 (463)	1,014	2.14 (0.36)	2.28 (0.49)	93.10	14	62
	August	25	2,865 (550)	1,290	2.22 (0.55)	2.31 (0.42)	84.00	36	44
	Overall	126	7,435 (1,146)	2,882	2.58 (0.34)	2.13 (0.24)	92.06	16	48

Table 3. Estimated fishing pressure (angler hours) by month during the summer season 2015 daylight period on Pactola Reservoir (80% confidence interval).

Lake	Month				Total
	May	June	July	August	
Pactola Reservoir	1,484 (779)	916 (436)	2,170 (463)	2,865 (550)	7,435 (1,146)

Table 4. Estimated number of fish harvested, by species and month, for the summer season 2015 daylight period on Pactola Reservoir (80% confidence interval).

Species	Month				Total
	May	June	July	August	
Bluegill	0	124 (124)	0	209 (281)	332 (307)
Lake Trout	0	8 (13)	0	0	8 (13)
Largemouth Bass	0	0	0	0	0
Northern Pike	5 (7)	0	0	0	5 (7)
Rainbow Trout	158 (87)	70 (41)	335 (993)	631 (410)	1,194 (1,079)
Rock Bass	0	0	0	0	0
Total	163 (94)	202 (178)	335 (993)	840 (691)	1,540 (1,405)

Table 5a. Estimated monthly and overall angler catch rate per hour fished (C/h) for all anglers by species at Pactola Reservoir (80% confidence interval). Abbreviations for species are as follows: Bluegill (BLG), Largemouth Bass (LMB), Northern Pike (NOP), Rainbow Trout (RBT), Rock Bass (ROB), Lake Trout (LAT) and other species (Other).

Year	Month	BLG	LAT	LMB	NOP	RBT	ROB
		C/h	C/h	C/h	C/h	C/h	C/h
2013-2014	December	0.00	0.00	0.00	0.00	0.00	0.00
	January	0.00	0.00	0.00	0.00	0.00	0.00
	February	0.00	0.00	0.00	0.00	0.00	0.00
	Overall	0.00	0.00	0.00	0.00	0.00	0.00
2014	April	0.00	0.00	0.00	0.00	0.00	0.00
	May	0.00	0.00	0.00	0.00	0.00	0.00
	June	0.00	0.00	0.00	0.00	0.00	0.00
	July	0.00	0.00	0.00	0.00	0.00	0.00
	August	0.00	0.00	0.00	0.00	0.00	0.00
	Overall	0.00	0.00	0.00	0.00	0.00	0.00
2015	May	0.14 (0.83)	0.01 (0.01)	0.00	0.01 (0.01)	0.33 (0.31)	0.03 (0.04)
	June	0.62 (0.67)	0.01 (0.01)	0.00	0.01 (0.01)	0.12 (0.18)	0.26 (0.36)
	July	0.49 (0.46)	0.00	0.00	0.00	0.29 (0.50)	0.21 (0.14)
	August	0.19 (0.27)	0.02 (0.03)	0.00	0.00	0.29 (0.38)	0.10 (0.04)
	Overall	0.32 (0.31)	0.01 (0.01)	0.00	<0.01 (<0.01)	0.28 (0.22)	0.14 (0.06)

Table 5b. Estimated monthly and overall angler harvest rate per hour fished (H/h) for all anglers by species at Pactola Reservoir (80% confidence interval). Abbreviations for species are as follows: Bluegill (BLG), Largemouth Bass (LMB), Northern Pike (NOP), Rainbow Trout (RBT), Rock Bass (ROB), Lake Trout (LAT) and other species (Other).

Year	Month	BLG	LAT	LMB	NOP	RBT	ROB
		H/h	H/h	H/h	H/h	H/h	H/h
2013-2014	December	0.00	0.00	0.00	0.00	0.00	0.00
	January	0.00	0.00	0.00	0.00	0.00	0.00
	February	0.00	0.00	0.00	0.00	0.00	0.00
	Overall	0.00	0.00	0.00	0.00	0.00	0.00
2014	April	0.00	0.00	0.00	0.00	0.00	0.00
	May	0.00	0.00	0.00	0.00	0.00	0.00
	June	0.00	0.00	0.00	0.00	0.00	0.00
	July	0.00	0.00	0.00	0.00	0.00	0.00
	August	0.00	0.00	0.00	0.00	0.00	0.00
	Overall	0.00	0.00	0.00	0.00	0.00	0.00
2015	May	0.00	0.00	0.00	<0.01 (<0.01)	0.11 (0.10)	0.00
	June	0.14 (0.16)	0.01 (0.01)	0.00	0.00	0.08 (0.11)	0.00
	July	0.00	0.00	0.00	0.00	0.15 (0.46)	0.00
	August	0.07 (0.09)	0.00	0.00	0.00	0.22 (0.35)	0.00
	Overall	0.04 (0.04)	<0.01 (<0.01)	0.00	<0.01 (<0.01)	0.16 (0.18)	0.00

Table 6a. Estimated monthly and overall angler catch rate per hour fished (C/h) only for anglers primarily targeting a species at Pactola Reservoir. (80% confidence interval). Abbreviations for species are as follows: Bluegill (BLG), Largemouth Bass (LMB), Northern Pike (NOP), Rainbow Trout (RBT), Rock Bass (ROB), Lake Trout (LAT) and Other Species (Other).

Year	Month	BLG	LAT	LMB	NOP	RBT	ROB
		C/h	C/h	C/h	C/h	C/h	C/h
2013- 2014	November	0.00	0.00	0.00	0.00	0.00	0.00
	December	0.00	0.00	0.00	0.00	0.00	0.00
	January	0.00	0.29 (0.12)	0.00	0.01 (0.02)	0.00	0.00
	February	0.00	0.36 (0.11)	0.00	0.05 (0.01)	0.00	0.00
	March	0.00	0.00	0.00	0.00	0.00	0.00
	Overall	0.00	0.21 (0.05)	0.00	0.02 (<0.01)	0.00	0.00
2014	April	0.00	0.00	0.00	0.00	0.38 (0.06)	0.00
	May	0.00	0.00	0.00	0.00	0.58	0.00
	June	0.52	0.20	0.10	0.00	0.40 (0.22)	0.00
	July	0.00	0.00	0.00	0.06	0.20 (0.06)	0.00
	August	0.00	0.00	0.00	0.00	0.00	0.00
	Overall	0.52	0.14	0.05	0.02	0.30 (0.09)	0.00
2015	May	3.52	0.10	0.00	0.00	0.40 (1.80)	0.33
	June	1.44 (1.58)	0.07 (0.20)	0.00	1.11	0.24 (0.46)	0.67 (1.27)
	July	0.90 (1.86)	0.00	0.00	0.00	0.25 (0.13)	0.00
	August	3.04	0.24	0.00	0.00	0.29 (0.30)	0.00
	Overall	2.30 (0.59)	0.13 (0.06)	0.00	0.38	0.29 (0.41)	0.56 (0.85)

Table 6b. Estimated monthly and overall angler harvest rate per hour fished (H/h) only for anglers primarily targeting a species at Pactola Reservoir. (80% confidence interval). Abbreviations for species are as follows: Bluegill (BLG), Largemouth Bass (LMB), Northern Pike (NOP), Rainbow Trout (RBT), Rock Bass (ROB), Lake Trout (LAT) and Other Species (Other).

Year	Month	BLG	LAT	LMB	NOP	RBT	ROB
		H/h	H/h	H/h	H/h	H/h	H/h
2013-2014	November	0.00	0.00	0.00	0.00	0.00	0.00
	December	0.00	0.00	0.00	0.00	0.00	0.00
	January	0.00	0.00	0.00	0.01 (0.03)	0.00	0.00
	February	0.00	0.04 (0.01)	0.00	0.03	0.00	0.00
	March	0.00	0.00	0.00	0.00	0.00	0.00
	Overall	0.00	0.01 (<0.01)	0.00	0.01 (<0.01)	0.00	0.00
2014	April	0.00	0.00	0.00	0.00	0.17 (0.11)	0.00
	May	0.00	0.00	0.00	0.00	0.27	0.00
	June	0.00	0.00	0.00	0.00	0.25 (0.17)	0.00
	July	0.00	0.00	0.00	0.00	0.20 (0.06)	0.00
	August	0.00	0.00	0.00	0.00	0.00	0.00
	Overall	0.00	0.00	0.00	0.00	0.20 (0.07)	0.00
2015	May	0.00	0.00	0.00	0.00	0.11 (0.30)	0.00
	June	0.89 (3.02)	0.07 (0.20)	0.00	1.07	0.18 (0.33)	0.00
	July	0.00	0.00	0.00	0.00	0.03 (0.04)	0.00
	August	0.00	0.00	0.00	0.00	0.19 (0.13)	0.00
	Overall	0.16 (0.54)	0.02 (0.06)	0.00	0.37	0.11 (0.09)	0.00

Table 7a. Estimated monthly and overall angler catch (C) for all anglers by species at Pactola Reservoir (80% confidence interval). Abbreviations for species are as follows: Bluegill (BLG), Largemouth Bass (LMB), Northern Pike (NOP), Rainbow Trout (RBT), Rock Bass (ROB), Lake Trout (LAT) and other species (Other).

Year	Month	BLG	LAT	LMB	NOP	RBT	ROB
		C	C	C	C	C	C
2013-2014	December	0	0	0	0	0	0
	January	0	0	0	0	0	0
	February	0	0	0	0	0	0
	Overall	0	0	0	0	0	0
2014	April	0	0	0	0	0	0
	May	0	0	0	0	0	0
	June	0	0	0	0	0	0
	July	0	0	0	0	0	0
	August	0	0	0	0	0	0
	Overall	0	0	0	0	0	0
2015	May	211 (252)	12 (21)	0	15 (16)	496 (263)	41 (31)
	June	566 (296)	8 (13)	0	9 (10)	114 (63)	240 (217)
	July	1,062 (473)	0	0	0	628 (1,002)	453 (345)
	August	556 (357)	60 (75)	0	0	829 (423)	278 (254)
	Overall	2,396 (709)	80 (79)	0	25 (19)	2,067 (1,121)	1,013 (482)

Table 7b. Estimated monthly and overall angler harvest (H) for all anglers by species at Pactola Reservoir (80% confidence interval). Abbreviations for species are as follows: Bluegill (BLG), Largemouth Bass (LMB), Northern Pike (NOP), Rainbow Trout (RBT), Rock Bass (ROB), Lake Trout (LAT) and other species (Other).

Year	Month	BLG	LAT	LMB	NOP	RBT	ROB
		H	H	H	H	H	H
2013-2014	December	0	0	0	0	0	0
	January	0	0	0	0	0	0
	February	0	0	0	0	0	0
	Overall	0	0	0	0	0	0
2014	April	0	0	0	0	0	0
	May	0	0	0	0	0	0
	June	0	0	0	0	0	0
	July	0	0	0	0	0	0
	August	0	0	0	0	0	0
	Overall	0	0	0	0	0	0
2015	May	0	0	0	5 (7)	158 (87)	0
	June	124 (124)	8 (13)	0	0	70 (41)	0
	July	0	0	0	0	335 (993)	0
	August	209 (281)	0	0	0	631 (410)	0
	Overall	332 (307)	8 (13)	0	5 (7)	1,194 (1,079)	0

Table 8. Estimated number and rate (number per hour) of Bluegill (BLG), Largemouth Bass (LMB), Northern Pike (NOP), Rainbow Trout (RBT), Rock Bass (ROB), Lake Trout (LAT) caught and harvested by anglers during the summer and winter fisheries on Pactola Reservoir, (80% confidence interval).

Bluegill

Season	Year	Catch	Harvest	Catch Rate	Harvest Rate
Summer	2006	1,486 (545)	262 (176)	0.07 (0.03)	0.01 (<0.01)
Summer	2011	28,731 (6,371)	7,197 (1,863)	1.36 (0.37)	0.34 (0.09)
Summer	2014	0	0	0.00	0.00
Summer	2015	2,396 (709)	332 (307)	0.32 (0.31)	0.04 (0.04)
Winter	2011-2012	470 (264)	444 (253)	0.04 (0.02)	0.04 (0.02)

Lake Trout

Season	Year	Catch	Harvest	Catch Rate	Harvest Rate
Summer	2006	2,442 (1,156)	20 (19)	0.11 (0.06)	<0.01 (<0.01)
Summer	2011	244 (96)	21 (25)	0.01 (<0.01)	<0.01 (<0.01)
Summer	2014	0	0	0.00	0.00
Summer	2015	80 (79)	8 (13)	0.01 (0.01)	<0.01 (<0.01)
Winter	2011-2012	1,548 (698)	53 (40)	0.14 (0.08)	<0.01 (<0.01)
Winter	2013-2014	0	0	0.00	0.00

Largemouth Bass

Season	Year	Catch	Harvest	Catch Rate	Harvest Rate
Summer	2006	957 (725)	141 (84)	0.04 (0.03)	0.01 (<0.01)
Summer	2011	391 (253)	14 (16)	0.02 (0.01)	<0.01 (<0.01)
Summer	2014	0	0	0.00	0.00
Winter	2011-2012	18 (29)	0	<0.01 (<0.01)	0.00

Northern Pike

Season	Year	Catch	Harvest	Catch Rate	Harvest Rate
Summer	2006	136 (109)	115 (108)	0.01 (<0.01)	0.01 (<0.01)
Summer	2011	823 (312)	151 (138)	0.04 (0.01)	0.01 (<0.01)
Summer	2014	0	0	0.00	0.00
Summer	2015	25 (19)	5 (7)	<0.01 (<0.01)	<0.01 (<0.01)
Winter	2011-2012	702 (272)	270 (107)	0.06 (0.03)	0.02 (0.01)
Winter	2013-2014	0	0	0.00	0.00

Rainbow Trout

Season	Year	Catch	Harvest	Catch Rate	Harvest Rate
Summer	2006	6,561 (2,157)	4,060 (1,425)	0.31 (0.11)	0.19 (0.07)
Summer	2011	2,714 (635)	1,006 (372)	0.13 (0.03)	0.05 (0.02)
Summer	2014	0	0	0.00	0.00
Summer	2015	2,067 (1,121)	1,194 (1,079)	0.28 (0.22)	0.16 (0.18)
Winter	2011-2012	15 (15)	8 (12)	<0.01 (<0.01)	<0.01 (<0.01)
Winter	2013-2014	0	0	0.00	0.00

Rock Bass

Season	Year	Catch	Harvest	Catch Rate	Harvest Rate
Summer	2006	1,090 (738)	0	0.05 (0.04)	0.00
Summer	2011	4,405 (3,629)	321 (336)	0.21 (0.19)	0.02 (0.02)
Summer	2014	0	0	0.00	0.00
Summer	2015	1,013 (482)	0	0.14 (0.06)	0.00
Winter	2011-2012	3 (2)	0	<0.01 (<0.01)	0.00

Table 9. The number of fish harvested with each species by length group (mm) for the winter and summer fisheries at Pactola Reservoir. Abbreviations for species are as follows: Bluegill (BLG), Largemouth Bass (LMB), Northern Pike (NOP), Rainbow Trout (RBT), Rock Bass (ROB), Lake Trout (LAT).

Figure 2. South Dakota county of residence for winter and summer resident anglers fishing Pactola Reservoir, South Dakota between January 2014 and August 2015.

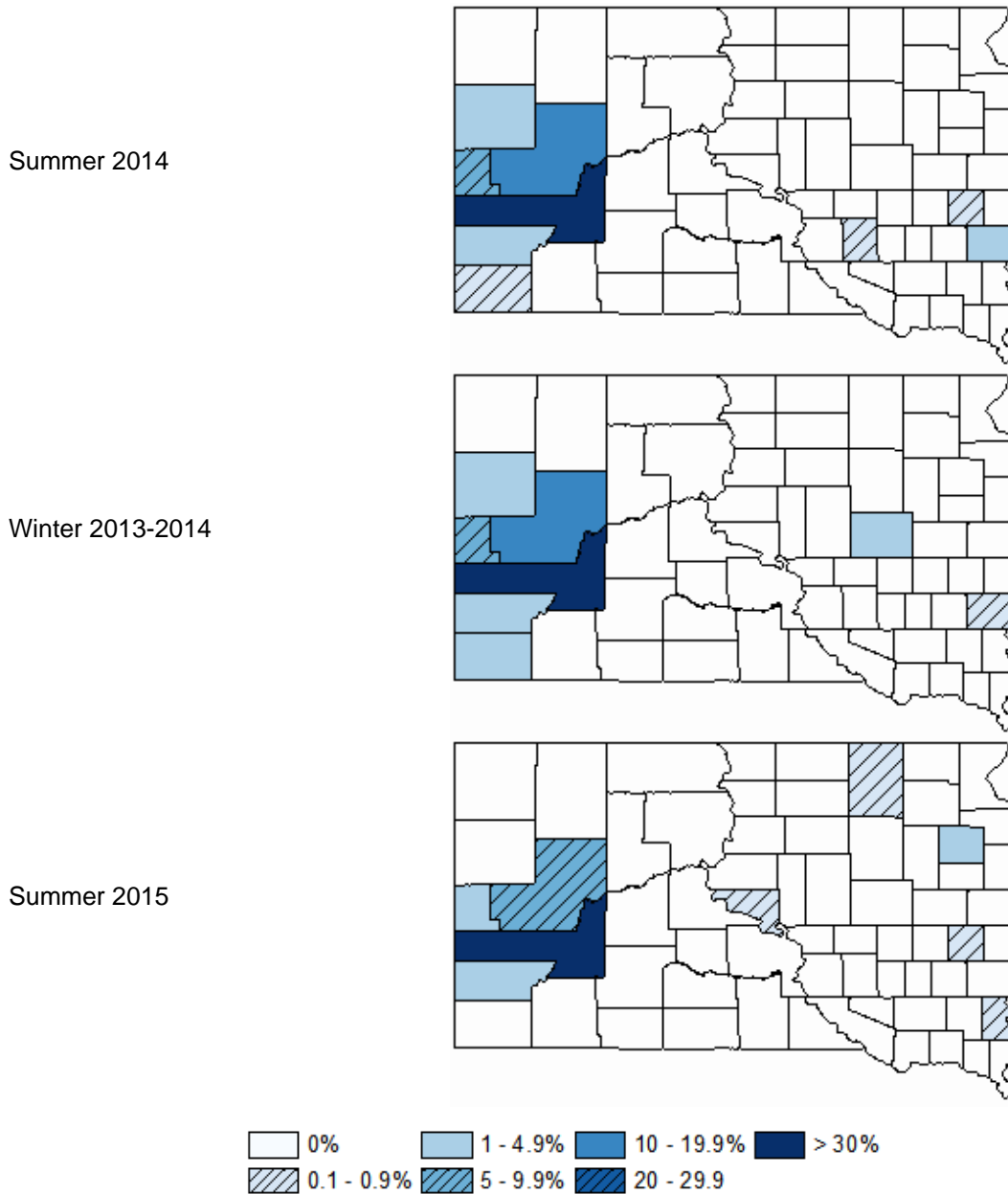


Table 10. Number of parties interviewed that harvested (or caught) a specified number of fish totaled over selected strata for a species.

Angler Harvest	Counts					
	BLG (n=109)	LAT (n=109)	LMB (n=109)	NOP (n=109)	RBT (n=109)	ROB (n=109)
0.00	105	107	109	109	91	105
0.20	0	0	0	0	1	0
0.25	0	0	0	0	1	0
0.33	0	1	0	0	0	1
0.50	1	1	0	0	3	0
0.67	0	0	0	0	2	0
1.00	1	0	0	0	2	1
1.33	0	0	0	0	1	0
1.75	0	0	0	0	1	0
2.50	0	0	0	0	1	1
2.67	0	0	0	0	1	0
3.00	0	0	0	0	1	1
3.33	1	0	0	0	1	0
4.00	0	0	0	0	2	0
5.00	1	0	0	0	1	0

Summer 2015**Counts**

Angler Harvest	BLG (n=126)	LAT (n=126)	LMB (n=126)	NOP (n=126)	RBT (n=126)	ROB (n=126)
0.00	122	125	126	124	99	126
0.17	0	0	0	0	1	0
0.25	0	0	0	0	1	0
0.50	0	1	0	1	3	0
0.75	1	0	0	0	0	0
1.00	1	0	0	0	6	0
1.25	0	0	0	0	1	0
1.50	0	0	0	0	3	0
2.00	0	0	0	0	3	0
2.50	0	0	0	0	1	0
3.00	0	0	0	0	5	0
3.50	1	0	0	0	0	0
4.00	0	0	0	0	2	0
4.67	1	0	0	0	0	0
5.00	0	0	0	0	1	0
6.00	0	0	0	1	0	0

Winter 2013-
2014

Counts

Angler Harvest	BLG (n=140)	LAT (n=140)	LMB (n=140)	NOP (n=140)	RBT (n=140)	ROB (n=140)
0.00	140	137	140	135	137	140
0.20	0	0	0	1	0	0
0.25	0	0	0	1	0	0
0.33	0	1	0	2	0	0
0.50	0	2	0	0	1	0
0.67	0	0	0	0	1	0
1.00	0	0	0	1	0	0
2.00	0	0	0	0	1	0

Table 11 The number (N) and percent of total interviews in supplemental-response categories by question asked during interviews at Pactola Reservoir.

Question: Considering all factors, how satisfied are you with your fishing trip today?

Response	Summer 2015 (n = 260)
very satisfied	29%
moderately satisfied	32%
slightly satisfied	19%
slightly dissatisfied	8%
moderately dissatisfied	3%
very dissatisfied	4%
neutral or no opinion	5%

Question: Did you catch the species of fish you were targeting today?

Response	Summer 2015 (n = 260)
No	38%
Yes	62%

Question: This lake is normally stocked with 11 inch RBT. Are you satisfied with the number of rainbow trout caught today?

Response	Summer 2015 (n = 260)
Very Satisfied	8%
Moderately Satisfied	23%
Slightly Satisfied	13%
Slightly Dissatisfied	12%
Moderately Dissatisfied	14%
Very Dissatisfied	4%
Neutral or No Opinion	26%

Question: This lake is normally stocked with 11 inch RBT. Are you satisfied with the size of rainbow trout caught today?

Response	Summer 2015 (n = 260)
Very Satisfied	20%
Moderately Satisfied	50%
Slightly Satisfied	15%
Slightly Dissatisfied	2%
Moderately Dissatisfied	1%
Neutral or No Opinion	12%