

Creel and Lake Information

Lake Information

Lake Name: Francis Case
Lake Code: FTR-Lake-6327-000
Surface Area: 35,615.17 Hectares
County: Charles Mix
Start Date: 4/2/2016
End Date: 7/31/2016
Months Included: April, May, June, July

Table 1. Percent of angling parties interviewed primarily targeting a species (or any species) by month and overall for Francis Case during 2015 - 2016. Any Species (ANY), Bluegill (BLG), Channel Catfish (CCF), Paddlefish (PAH), Sauger (SAR), Smallmouth Bass (SMB), Walleye (WAE), White Bass (WHB), Yellow Perch (YEP).

Year	Month	# of Interviews	Percent of Anglers Targeting								
			ANY	BLG	CCF	PAH	SAR	SMB	WAE	WHB	YEP
2015	April	312	0.0	0.0	0.6	0.0	0.3	0.6	98.4	0.0	0.0
	May	502	0.6	0.0	0.0	0.0	0.0	1.4	97.4	0.6	0.0
	June	528	1.3	0.0	1.1	0.0	0.0	0.8	95.3	0.0	0.2
	July	323	2.5	0.0	1.5	0.0	0.0	0.0	95.7	0.0	0.0
	Overall	1665	1.1	0.0	0.8	0.0	0.1	0.8	96.6	0.2	0.1
2016	April	270	2.6	0.0	0.0	0.0	0.0	1.1	96.3	0.0	0.0
	May	449	6.2	0.0	0.7	0.7	0.0	2.0	90.0	0.4	0.0
	June	471	9.1	0.0	0.4	0.0	0.0	0.8	89.6	0.0	0.0
	July	219	7.8	0.0	2.3	0.0	0.0	0.5	89.5	0.0	0.0
	Overall	1409	6.7	0.0	0.7	0.2	0.0	1.2	91.0	0.1	0.0

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 Francis Case (80% confidence interval).

Year	Month	# Interviews	Angler Hours	Angler Days	Trip Length (h)	Party Size	% SD Residents	% Boat or Shack	% Weekend/Holidays
2015	April	312	74,103 (19,380)	18,572	3.99 (0.57)	2.04 (0.19)	70	73	63
	May	502	189,676 (32,482)	40,443	4.69 (0.49)	2.26 (0.28)	60	90	74
	June	528	239,603 (26,087)	53,483	4.48 (0.89)	2.61 (0.38)	69	91	62
	July	323	159,818 (29,061)	35,358	4.52 (0.38)	2.40 (0.25)	66	92	45
	Overall	1665	663,200 (54,367)	150,045	4.42 (0.30)	2.33 (0.14)	66	88	62
2016	April	270	57,405 (16,429)	12,814	4.48 (1.38)	1.88 (0.48)	65	82	80
	May	449	145,799 (19,893)	29,102	5.01 (1.17)	2.27 (0.41)	67	77	64
	June	471	216,749 (21,995)	43,699	4.96 (0.60)	2.40 (0.32)	60	91	62
	July	219	106,652 (19,935)	23,860	4.47 (0.57)	2.50 (0.25)	68	93	66
	Overall	1409	526,605 (39,330)	111,333	4.73 (0.50)	2.26 (0.19)	65	85	67

Table 3. Estimated fishing pressure (angler hours) by month during the summer season 2016 daylight period on Francis Case (80% confidence interval).

Zone	Month			Total
	April	May	June	
Lower	34,520 (14,165)	87,060 (13,019)	63,238 (18,564)	188,981 (26,827)
Middle	59,363 (10,257)	69,764 (13,179)	17,392 (4,264)	157,923 (17,475)
Upper	51,916 (9,482)	59,925 (11,858)	26,022 (5,882)	179,701 (22,842)

Table 4. Estimated number of fish harvested for selected species, by zone during the May-August 2016 daylight period on Francis Case (80% confidence interval).

Species	Zone			
	Lower	Middle	Upper	Total
Bluegill	243 (231)	0	14 (19)	257 (250)
Channel Catfish	11,171 (15,006)	2,585 (1,517)	1,691 (895)	15,447 (17,419)
Paddlefish	0	0	33 (51)	33 (51)
Sauger	1,001 (515)	3,384 (957)	3,011 (947)	7,396 (2,418)
Smallmouth Bass	3,449 (1,091)	2,481 (1,127)	1,070 (592)	7,000 (2,810)
Walleye	27,587 (5,483)	26,125 (5,766)	52,778 (8,828)	106,490 (20,078)
White Bass	875 (741)	2,473 (1,631)	5,700 (6,639)	9,047 (9,011)
Yellow Perch	318 (354)	52 (41)	209 (144)	578 (539)

Table 5. Estimated number of fish harvested, by species and month, for the summer season 2016 daylight period on Francis Case (80% confidence interval).

Species	Month				Total
	April	May	June	July	
Bluegill	14 (19)	0	0	243 (231)	257 (250)
Channel Catfish	45 (34)	1,071 (558)	2,856 (1,604)	11,475 (15,013)	15,447 (17,209)
Paddlefish	0	33 (51)	0	0	33 (51)
Sauger	1,304 (712)	3,510 (779)	2,455 (979)	128 (62)	7,396 (2,532)
Smallmouth Bass	1,147 (309)	3,545 (1,478)	1,761 (611)	548 (398)	7,000 (2,796)
Walleye	12,429 (4,870)	20,774 (4,118)	54,496 (8,687)	18,792 (5,013)	106,490 (22,687)
White Bass	24 (33)	3,838 (6,520)	3,743 (1,713)	1,443 (1,359)	9,047 (9,625)
Yellow Perch	94 (113)	52 (52)	0	431 (364)	578 (529)
Total	15,056 (6,090)	32,822 (13,555)	65,311 (13,594)	33,059 (22,440)	146,248 (55,679)

Table 6a. Estimated monthly and overall angler catch rate per hour fished (C/h) for all anglers by species at Francis Case (80% confidence interval). Abbreviations for species are as follows: Bluegill (BLG), Channel Catfish (CCF), Paddlefish (PAH), Sauger (SAR), Smallmouth Bass (SMB), Walleye (WAE), White Bass (WHB), Yellow Perch (YEP) and other species (Other).

Year	Month	BLG	CCF	PAH	SAR	SMB	WAE	WHB	YEP
		C/h	C/h	C/h	C/h	C/h	C/h	C/h	C/h
2015	April	0.00	0.02 (0.01)	0.00	0.11 (0.20)	0.02 (0.02)	0.44 (0.40)	0.01 (<0.01)	<0.01 (<0.01)
	May	0.00	0.01 (<0.01)	<0.01 (<0.01)	0.06 (0.02)	0.07 (0.07)	0.77 (0.36)	0.07 (0.86)	0.01 (<0.01)
	June	<0.01 (<0.01)	0.03 (0.01)	0.00	0.05 (0.02)	0.06 (0.02)	0.93 (0.30)	0.06 (0.02)	<0.01 (<0.01)
	July	<0.01 (<0.01)	0.09 (0.05)	0.00	0.01 (<0.01)	0.03 (0.01)	0.29 (0.14)	0.04 (0.02)	<0.01 (<0.01)
	Overall	<0.01 (<0.01)	0.04 (0.01)	<0.01 (<0.01)	0.05 (0.02)	0.05 (0.02)	0.67 (0.16)	0.05 (0.25)	<0.01 (<0.01)
2016	April	<0.01 (<0.01)	0.01 (<0.01)	0.00	0.05 (0.04)	0.06 (0.04)	0.62 (0.61)	0.01 (<0.01)	0.01 (<0.01)
	May	0.00	0.01 (<0.01)	<0.01 (<0.01)	0.06 (0.03)	0.10 (0.04)	0.47 (0.17)	0.04 (0.04)	<0.01 (<0.01)
	June	<0.01 (<0.01)	0.04 (0.01)	0.00	0.02 (0.01)	0.04 (0.01)	0.73 (0.18)	0.04 (0.01)	<0.01 (<0.01)
	July	0.01 (<0.01)	0.13 (0.12)	0.00	<0.01 (<0.01)	0.02 (<0.01)	0.30 (0.18)	0.02 (0.01)	0.01 (<0.01)
	Overall	<0.01 (<0.01)	0.05 (0.03)	<0.01 (<0.01)	0.03 (<0.01)	0.06 (0.01)	0.56 (0.12)	0.03 (0.01)	<0.01 (<0.01)

Table 6b. Estimated monthly and overall angler harvest rate per hour fished (H/h) for all anglers by species at Francis Case (80% confidence interval). Abbreviations for species are as follows: Bluegill (BLG), Channel Catfish (CCF), Paddlefish (PAH), Sauger (SAR), Smallmouth Bass (SMB), Walleye (WAE), White Bass (WHB), Yellow Perch (YEP) and other species (Other).

Year	Month	BLG	CCF	PAH	SAR	SMB	WAE	WHB	YEP
		H/h	H/h	H/h	H/h	H/h	H/h	H/h	H/h
2015	April	0.00	0.01 (<0.01)	0.00	0.07	<0.01 (<0.01)	0.16 (0.13)	<0.01 (<0.01)	<0.01 (<0.01)
	May	0.00	<0.01 (<0.01)	<0.01 (<0.01)	0.02 (0.01)	0.02 (<0.01)	0.27 (0.14)	0.03 (0.12)	<0.01 (<0.01)
	June	<0.01 (<0.01)	0.01 (<0.01)	0.00	0.02 (<0.01)	0.01 (<0.01)	0.26 (0.07)	0.01	<0.01 (<0.01)
	July	0.00	0.04 (0.02)	0.00	0.01 (<0.01)	0.01 (<0.01)	0.16 (0.07)	0.01 (<0.01)	<0.01 (<0.01)
	Overall	<0.01 (<0.01)	0.01 (<0.01)	<0.01 (<0.01)	0.02 (<0.01)	0.01 (<0.01)	0.23 (0.05)	0.02 (0.03)	<0.01 (<0.01)
2016	April	<0.01 (<0.01)	<0.01 (<0.01)	0.00	0.02 (0.01)	0.02 (0.01)	0.22 (0.17)	<0.01 (<0.01)	<0.01 (<0.01)
	May	0.00	0.01 (<0.01)	<0.01 (<0.01)	0.02 (0.01)	0.02 (0.02)	0.14 (0.05)	0.03 (0.04)	<0.01 (<0.01)
	June	0.00	0.01 (<0.01)	0.00	0.01 (<0.01)	0.01 (<0.01)	0.25 (0.07)	0.02 (<0.01)	0.00
	July	<0.01	0.11 (0.12)	0.00	<0.01 (<0.01)	0.01 (<0.01)	0.18 (0.11)	0.01 (0.01)	<0.01 (<0.01)
	Overall	<0.01 (<0.01)	0.03 (0.03)	<0.01 (<0.01)	0.01 (<0.01)	0.01 (<0.01)	0.20 (0.04)	0.02 (0.01)	<0.01 (<0.01)

Table 7a. Estimated monthly and overall angler catch rate per hour fished (C/h) only for anglers primarily targeting a species at Francis Case. (80% confidence interval). Abbreviations for species are as follows: Bluegill (BLG), Channel Catfish (CCF), Paddlefish (PAH), Sauger (SAR), Smallmouth Bass (SMB), Walleye (WAE), White Bass (WHB), Yellow Perch (YEP) and Other Species (Other).

Year	Month	BLG	CCF	PAH	SAR	SMB	WAE	WHB	YEP
		C/h	C/h	C/h	C/h	C/h	C/h	C/h	C/h
2015	April	0.00	0.55	0.00	0.00	9.21	0.44 (0.17)	0.00	0.00
	May	0.00	0.00	0.00	0.00	1.05 (0.80)	0.83 (0.27)	3.67	0.00
	June	0.00	1.29 (0.52)	0.00	0.00	1.55	1.08 (0.27)	0.00	0.00
	July	0.00	0.66 (0.50)	0.00	0.00	0.00	0.43 (0.18)	0.00	0.00
	Overall	0.00	0.71 (0.21)	0.00	0.00	3.91 (0.27)	0.71 (0.12)	3.67	0.00
2016	April	0.00	0.00	0.00	0.00	0.04	0.44 (0.11)	0.00	0.00
	May	0.00	0.84	0.07	0.00	2.22 (1.12)	0.48 (0.10)	2.64	0.00
	June	0.00	1.95	0.00	0.00	0.04	1.00 (0.48)	0.00	0.00
	July	0.00	1.86	0.00	0.00	0.16	0.30 (0.13)	0.00	0.00
	Overall	0.00	1.66	0.07	0.00	0.91 (0.44)	0.58 (0.14)	2.64	0.00

Table 7b. Estimated monthly and overall angler harvest rate per hour fished (H/h) only for anglers primarily targeting a species at Francis Case. (80% confidence interval). Abbreviations for species are as follows: Bluegill (BLG), Channel Catfish (CCF), Paddlefish (PAH), Sauger (SAR), Smallmouth Bass (SMB), Walleye (WAE), White Bass (WHB), Yellow Perch (YEP) and Other Species (Other).

Year	Month	BLG	CCF	PAH	SAR	SMB	WAE	WHB	YEP
		H/h	H/h	H/h	H/h	H/h	H/h	H/h	H/h
2015	April	0.00	0.45	0.00	0.00	0.00	0.17 (0.03)	0.00	0.00
	May	0.00	0.00	0.00	0.00	0.15 (0.19)	0.28 (0.08)	3.67	0.00
	June	0.00	1.12 (0.59)	0.00	0.00	0.71	0.30 (0.06)	0.00	0.00
	July	0.00	0.42 (0.42)	0.00	0.00	0.00	0.22 (0.09)	0.00	0.00
	Overall	0.00	0.55 (0.19)	0.00	0.00	0.29 (0.07)	0.25 (0.03)	3.67	0.00
2016	April	0.00	0.00	0.00	0.00	0.00	0.15 (0.05)	0.00	0.00
	May	0.00	0.84	0.07	0.00	0.94 (0.07)	0.14 (0.03)	2.64	0.00
	June	0.00	0.79	0.00	0.00	0.00	0.33 (0.09)	0.00	0.00
	July	0.00	1.86	0.00	0.00	0.16	0.17 (0.13)	0.00	0.00
	Overall	0.00	1.49	0.07	0.00	0.39 (0.03)	0.20 (0.03)	2.64	0.00

Table 8a. Estimated monthly and overall angler catch (C) for all anglers by species at Francis Case (80% confidence interval). Abbreviations for species are as follows: Bluegill (BLG), Channel Catfish (CCF), Paddlefish (PAH), Sauger (SAR), Smallmouth Bass (SMB), Walleye (WAE), White Bass (WHB), Yellow Perch (YEP) and other species (Other).

Year	Month	BLG	CCF	PAH	SAR	SMB	WAE	WHB	YEP
		C	C	C	C	C	C	C	C
2015	April	0	1,270 (650)	0	8,145 (2,992)	1,602 (842)	32,599 (12,818)	519 (264)	97 (68)
	May	0	2,261 (727)	95 (114)	10,500 (2,959)	12,552 (4,619)	146,485 (34,560)	13,427 (160,325)	992 (575)
	June	145 (63)	7,784 (2,453)	0	11,322 (3,269)	15,516 (4,316)	222,752 (44,829)	15,264 (3,037)	321 (133)
	July	52 (75)	14,043 (5,362)	0	1,357 (493)	5,406 (1,242)	45,813 (14,964)	6,056 (2,102)	696 (349)
	Overall	197 (98)	25,357 (5,977)	95 (114)	31,324 (5,351)	35,076 (6,497)	447,649 (59,935)	35,266 (160,368)	2,106 (689)
2016	April	14 (19)	733 (361)	0	2,851 (1,698)	3,557 (1,171)	35,394 (16,751)	516 (310)	339 (395)
	May	0	1,688 (646)	33 (51)	9,026 (2,742)	14,702 (3,451)	68,064 (14,602)	5,312 (6,633)	287 (137)
	June	646 (455)	8,054 (3,004)	0	4,547 (1,659)	9,302 (1,903)	158,340 (24,026)	8,395 (2,502)	525 (219)
	July	670 (480)	14,350 (15,063)	0	172 (102)	1,910 (618)	31,985 (7,403)	2,078 (1,462)	1,461 (527)
	Overall	1,330 (662)	24,825 (15,377)	33 (51)	16,595 (3,628)	29,471 (4,157)	293,783 (33,554)	16,301 (7,245)	2,612 (707)

Table 8b. Estimated monthly and overall angler harvest (H) for all anglers by species at Francis Case (80% confidence interval). Abbreviations for species are as follows: Bluegill (BLG), Channel Catfish (CCF), Paddlefish (PAH), Sauger (SAR), Smallmouth Bass (SMB), Walleye (WAE), White Bass (WHB), Yellow Perch (YEP) and other species (Other).

Year	Month	BLG	CCF	PAH	SAR	SMB	WAE	WHB	YEP
		H	H	H	H	H	H	H	H
2015	April	0	480 (238)	0	5,448	333 (155)	12,142 (3,479)	196 (155)	34 (39)
	May	0	745 (346)	32 (38)	4,655 (1,478)	2,884 (1,387)	50,537 (12,733)	5,983 (13,660)	565 (476)
	June	94 (63)	2,366 (847)	0	3,789 (1,069)	2,315 (1,231)	62,368 (10,081)	3,240	83 (57)
	July	0	5,893 (2,789)	0	940 (375)	956 (326)	24,896 (8,003)	1,286 (690)	233 (266)
	Overall	94 (63)	9,485 (2,945)	32 (38)	14,833 (686)	6,489 (1,889)	149,943 (18,436)	10,705 (13,651)	914 (550)
2016	April	14 (19)	45 (34)	0	1,304 (712)	1,147 (309)	12,429 (4,870)	24 (33)	94 (113)
	May	0	1,071 (558)	33 (51)	3,510 (779)	3,545 (1,478)	20,774 (4,118)	3,838 (6,520)	52 (52)
	June	0	2,856 (1,604)	0	2,455 (979)	1,761 (611)	54,496 (8,687)	3,743 (1,713)	0
	July	243 (231)	11,475 (15,013)	0	128 (62)	548 (398)	18,792 (5,013)	1,443 (1,359)	431 (364)
	Overall	257 (232)	15,447 (15,109)	33 (51)	7,396 (1,441)	7,000 (1,677)	106,490 (11,885)	9,047 (6,877)	578 (384)

Table 9. Estimated number and rate (number per hour) of Bluegill (BLG), Channel Catfish (CCF), Paddlefish (PAH), Sauger (SAR), Smallmouth Bass (SMB), Walleye (WAE), White Bass (WHB), Yellow Perch (YEP) caught and harvested by anglers during the summer and winter fisheries on Francis Case, (80% confidence interval).

Bluegill

Season	Year	Catch	Harvest	Catch Rate	Harvest Rate
Summer	2007	1,116 (731)	266 (307)	<0.01 (<0.01)	<0.01 (<0.01)
Summer	2008	1,487 (884)	400 (470)	<0.01 (<0.01)	<0.01 (<0.01)
Summer	2009	1,255 (511)	373 (245)	<0.01 (<0.01)	<0.01 (<0.01)
Summer	2010	7,272 (3,903)	3,174 (3,606)	0.02 (<0.01)	0.01 (<0.01)
Summer	2011	816 (230)	121 (64)	<0.01 (<0.01)	<0.01 (<0.01)
Summer	2012	501 (163)	220	<0.01 (<0.01)	<0.01 (<0.01)
Summer	2013	123 (64)	52 (42)	<0.01 (<0.01)	<0.01 (<0.01)
Summer	2014	30 (44)	0	<0.01 (<0.01)	0.00
Summer	2015	197 (98)	94 (63)	<0.01 (<0.01)	<0.01 (<0.01)
Summer	2016	1,330 (662)	257 (232)	<0.01 (<0.01)	<0.01 (<0.01)

Channel Catfish

Season	Year	Catch	Harvest	Catch Rate	Harvest Rate
Summer	2007	32,520 (7,453)	13,044 (3,617)	0.06 (0.02)	0.02 (<0.01)
Summer	2008	28,997 (4,783)	12,179 (2,339)	0.05 (0.01)	0.02 (<0.01)
Summer	2009	19,993 (3,918)	7,179 (1,418)	0.03 (<0.01)	0.01 (<0.01)
Summer	2010	19,469 (3,762)	9,153 (3,128)	0.04 (<0.01)	0.02 (<0.01)
Summer	2011	13,925 (1,656)	5,085 (1,591)	0.02 (<0.01)	0.01 (<0.01)
Summer	2012	36,683 (9,216)	11,937 (2,940)	0.06 (0.02)	0.02 (<0.01)
Summer	2013	41,647 (6,720)	13,399 (2,891)	0.06 (0.01)	0.02 (<0.01)
Summer	2014	32,461 (5,860)	11,784 (4,271)	0.05 (0.01)	0.02 (<0.01)
Summer	2015	25,357 (5,977)	9,485 (2,945)	0.04 (0.01)	0.01 (<0.01)
Summer	2016	24,825 (15,377)	15,447 (15,109)	0.05 (0.03)	0.03 (0.03)
Winter	2006-2007	72 (21)	29 (18)	0.01 (<0.01)	<0.01 (<0.01)
Winter	2007-2008	12 (19)	12 (19)	<0.01 (<0.01)	<0.01 (<0.01)

Paddlefish

Season	Year	Catch	Harvest	Catch Rate	Harvest Rate
Summer	2009	30 (37)	0	<0.01 (<0.01)	0.00
Summer	2011	73 (53)	0	<0.01 (<0.01)	0.00
Summer	2012	319 (203)	46 (56)	<0.01 (<0.01)	<0.01 (<0.01)
Summer	2013	38 (39)	25 (36)	<0.01 (<0.01)	<0.01 (<0.01)
Summer	2014	206 (124)	23 (31)	<0.01 (<0.01)	<0.01 (<0.01)
Summer	2015	95 (114)	32 (38)	<0.01 (<0.01)	<0.01 (<0.01)
Summer	2016	33 (51)	33 (51)	<0.01 (<0.01)	<0.01 (<0.01)

Sauger

Season	Year	Catch	Harvest	Catch Rate	Harvest Rate
Summer	2007	20,811 (6,711)	8,452 (3,208)	0.04 (0.02)	0.02 (<0.01)
Summer	2008	7,134 (2,782)	3,271 (1,231)	0.01 (<0.01)	0.01 (<0.01)
Summer	2009	13,923 (4,402)	7,438 (2,206)	0.02 (<0.01)	0.01 (<0.01)
Summer	2010	5,412 (1,266)	2,755 (590)	0.01 (<0.01)	0.01 (<0.01)
Summer	2011	10,840 (2,610)	4,779 (895)	0.02 (<0.01)	0.01 (<0.01)
Summer	2012	40,003 (7,239)	17,547 (2,842)	0.06 (0.02)	0.03 (<0.01)
Summer	2013	49,766 (7,458)	18,252 (2,694)	0.07 (0.01)	0.02 (<0.01)
Summer	2014	68,162 (11,333)	15,879 (2,471)	0.10 (0.02)	0.02 (<0.01)
Summer	2015	31,324 (5,351)	14,833 (686)	0.05 (0.02)	0.02 (<0.01)
Summer	2016	16,595 (3,628)	7,396 (1,441)	0.03 (<0.01)	0.01 (<0.01)
Winter	2006-2007	684 (219)	445 (217)	0.05 (0.02)	0.03 (0.02)
Winter	2007-2008	86 (43)	84 (43)	0.01 (<0.01)	0.01 (<0.01)

Smallmouth Bass

Season	Year	Catch	Harvest	Catch Rate	Harvest Rate
Summer	2007	44,877 (9,354)	8,777 (2,458)	0.08 (0.03)	0.02 (<0.01)
Summer	2008	34,675 (7,227)	11,360 (3,107)	0.06 (0.02)	0.02 (<0.01)
Summer	2009	36,505 (8,039)	6,830 (2,299)	0.06 (0.02)	0.01 (<0.01)
Summer	2010	32,465 (6,878)	6,061 (2,553)	0.07 (0.02)	0.01 (<0.01)
Summer	2011	78,838 (14,669)	10,765 (3,110)	0.12 (0.04)	0.02 (<0.01)
Summer	2012	103,988 (18,058)	13,620 (2,884)	0.17 (0.04)	0.02 (<0.01)
Summer	2013	55,496 (9,848)	9,204 (2,021)	0.08 (0.02)	0.01 (<0.01)
Summer	2014	40,835 (11,973)	5,090 (1,425)	0.06 (0.02)	0.01 (<0.01)
Summer	2015	35,076 (6,497)	6,489 (1,889)	0.05 (0.02)	0.01 (<0.01)
Summer	2016	29,471 (4,157)	7,000 (1,677)	0.06 (0.01)	0.01 (<0.01)
Winter	2006-2007	3	0	<0.01	0.00
Winter	2007-2008	188 (119)	67 (23)	0.02 (0.01)	0.01 (<0.01)

Walleye

Season	Year	Catch	Harvest	Catch Rate	Harvest Rate
Summer	2007	687,424 (365,537)	101,442 (12,697)	1.22 (0.74)	0.18 (0.04)
Summer	2008	436,317 (58,949)	86,352 (8,138)	0.79 (0.17)	0.16 (0.03)
Summer	2009	475,975 (47,108)	143,383 (12,505)	0.81 (0.14)	0.24 (0.04)
Summer	2010	235,140 (34,072)	102,973 (12,976)	0.49 (0.10)	0.21 (0.04)
Summer	2011	850,216 (105,326)	248,773 (30,299)	1.34 (0.32)	0.39 (0.09)
Summer	2012	773,468 (91,993)	195,859 (23,446)	1.25 (0.23)	0.32 (0.06)
Summer	2013	921,692 (82,261)	235,608 (22,562)	1.25 (0.18)	0.32 (0.05)
Summer	2014	775,286 (74,206)	165,915 (14,526)	1.19 (0.21)	0.25 (0.04)
Summer	2015	447,649 (59,935)	149,943 (18,436)	0.67 (0.16)	0.23 (0.05)
Summer	2016	293,783 (33,554)	106,490 (11,885)	0.56 (0.12)	0.20 (0.04)
Winter	2006-2007	6,914 (523)	3,465 (398)	0.48 (0.15)	0.24 (0.08)
Winter	2007-2008	5,083 (2,810)	2,146 (1,964)	0.46 (0.57)	0.19 (0.33)

White Bass

Season	Year	Catch	Harvest	Catch Rate	Harvest Rate
Summer	2007	66,848 (14,709)	13,088 (3,570)	0.12 (0.04)	0.02 (<0.01)
Summer	2008	67,334 (14,194)	24,129 (9,997)	0.12 (0.04)	0.04 (0.02)
Summer	2009	53,508 (15,425)	21,733 (6,614)	0.09 (0.03)	0.04 (0.01)
Summer	2010	28,181 (7,936)	8,292 (3,638)	0.06 (0.02)	0.02 (<0.01)
Summer	2011	72,838 (16,984)	26,918 (10,079)	0.11 (0.04)	0.04 (0.02)
Summer	2012	56,497 (12,781)	15,898 (4,989)	0.09 (0.02)	0.03 (<0.01)
Summer	2013	53,852 (15,579)	14,440	0.07 (0.02)	0.02
Summer	2014	42,608 (7,130)	16,720 (6,759)	0.07 (0.01)	0.03 (0.01)
Summer	2015	35,266 (160,368)	10,705 (13,651)	0.05 (0.25)	0.02 (0.03)
Summer	2016	16,301 (7,245)	9,047 (6,877)	0.03 (0.01)	0.02 (0.01)
Winter	2006-2007	168	0	0.01	0.00
Winter	2007-2008	830 (13)	813	0.07 (0.04)	0.07 (0.04)

Yellow Perch

Season	Year	Catch	Harvest	Catch Rate	Harvest Rate
Summer	2007	3,594 (1,147)	353 (214)	0.01 (<0.01)	<0.01 (<0.01)
Summer	2008	1,715 (602)	338 (205)	<0.01 (<0.01)	<0.01 (<0.01)
Summer	2009	4,107 (736)	440 (173)	0.01 (<0.01)	<0.01 (<0.01)
Summer	2010	17,980 (4,201)	2,913 (725)	0.04 (<0.01)	0.01 (<0.01)
Summer	2011	20,892 (3,337)	3,051 (720)	0.03 (0.02)	<0.01 (<0.01)
Summer	2012	17,077 (2,376)	2,223 (607)	0.03 (<0.01)	<0.01 (<0.01)
Summer	2013	2,587 (652)	548 (248)	<0.01 (<0.01)	<0.01 (<0.01)
Summer	2014	1,802 (646)	454 (216)	<0.01 (<0.01)	<0.01 (<0.01)
Summer	2015	2,106 (689)	914 (550)	<0.01 (<0.01)	<0.01 (<0.01)
Summer	2016	2,612 (707)	578 (384)	<0.01 (<0.01)	<0.01 (<0.01)
Winter	2006-2007	62 (10)	23	<0.01 (<0.01)	<0.01 (<0.01)

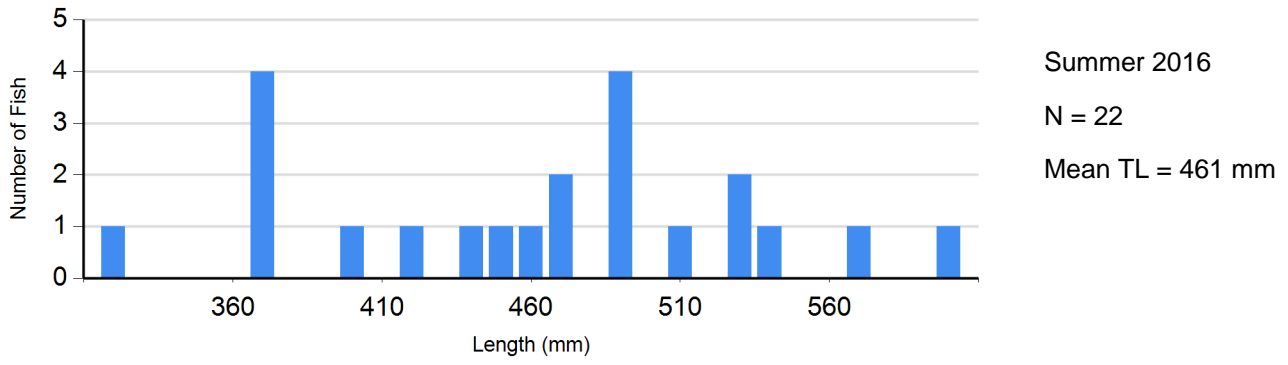
Table 10. The number of fish harvested with each species by length group (mm) for the winter and summer fisheries at Francis Case. Abbreviations for species are as follows: Bluegill (BLG), Channel Catfish (CCF), Paddlefish (PAH), Sauger (SAR), Smallmouth Bass (SMB), Walleye (WAE), White Bass (WHB), Yellow Perch (YEP).

Summer 2015								
Length Group (mm)	BLG (N=2)	CCF (N=7)	PAH (N=0)	SAR (N=335)	SMB (N=134)	WAE (N=4084)	WHB (N=9)	YEP (N=6)
170	2							
200								1
210								
220					1			
230								2
240					1	1		3
250					1			
260					4			
270					2	1	1	
280				1	5	1		
290					12	1	1	
300				3	15	5		
310				1	11	5		
320					20	16		
330		1			9	17		
340				4	13	23		
350				1	7	44	2	
360				5	14	84	1	
370				6	3	135		
380				58	4	687	2	
390		1		64	4	659	1	
400		2		55	3	590		
410				24		496		
420				29	1	350		
430				22	1	266	1	
440				13	1	177		
450				13		125		
460				11		89		
470				8		42		
480		1		9		60		
490		1		3		47		
500				1		33		
510				2	1	20		
520						18		
530				1		19		
540					1	13		
550		1				12		
560						14		
570						4		
580				1		7		
590						4		
600						6		
610						1		
620						1		
630						2		
640						4		
650						2		
660						1		
670								
680								
690						1		
700								
710								
720						1		

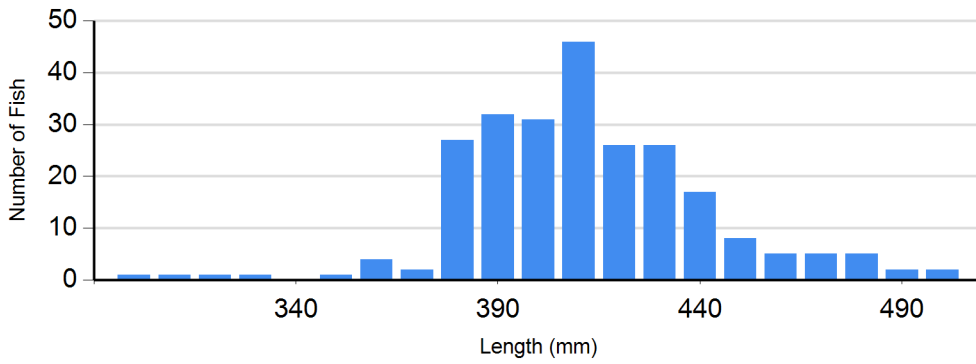
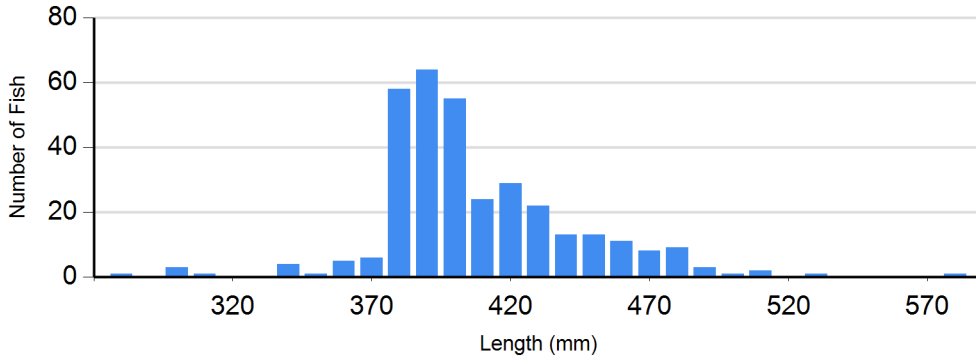
Summer 2016

Length Group (mm)	BLG (N=1)	CCF (N=22)	PAH (N=0)	SAR (N=243)	SMB (N=221)	WAE (N=2562)	WHB (N=19)	YEP (N=11)
40						1		
50								
60								
70								
80								
90								
100								
110								
120								
130								
140								
150								
160	1							
170								
180								1
190								
200					1			
210								1
220					1			1
230					3			2
240					2			1
250					4			2
260					2			
270					3	1		2
280					3	2		
290					5	2		1
300				1	13	5		
310				1	18	6		
320		1		1	20	4		
330				1	26	15		
340					27	18	1	
350				1	15	14		
360				4	9	33	3	
370		4		2	20	55	4	
380				27	19	244	1	
390				32	7	289	4	
400		1		31	13	321		
410				46	3	306	3	
420		1		26	2	282	2	
430				26	2	209		
440		1		17		165		
450		1		8	1	141	1	
460		1		5	1	109		
470		2		5		80		
480				5		78		
490		4		2		63		
500				2		40		
510		1			1	26		
520						13		
530		2				5		
540		1				8		
550						6		
560						6		
570		1				2		
580						2		
590						1		
600		1				4		
610						1		
620						1		
630						1		
640						1		
650						1		
660								
670								
680								
690						1		

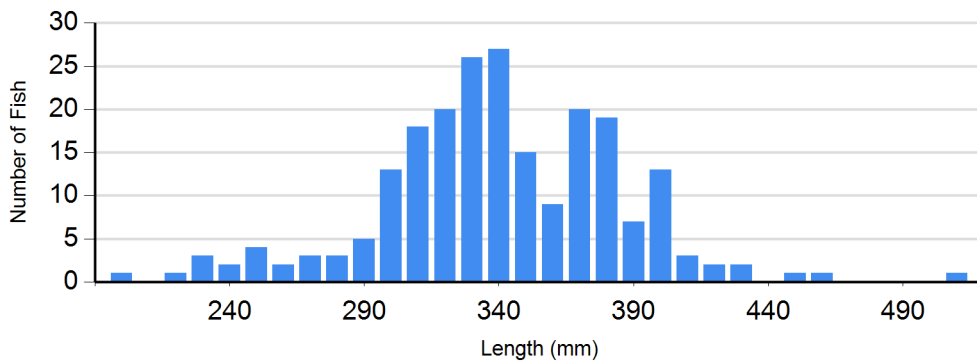
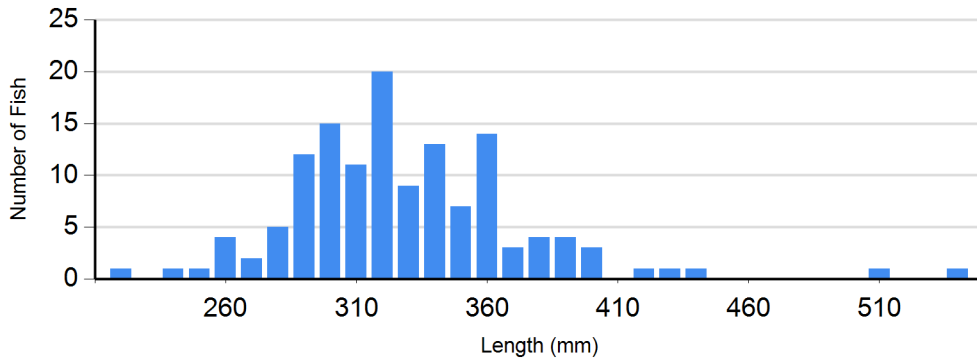
Length frequency of angler-harvested Channel Catfish measured by the creel clerk during creel surveys on Francis Case.



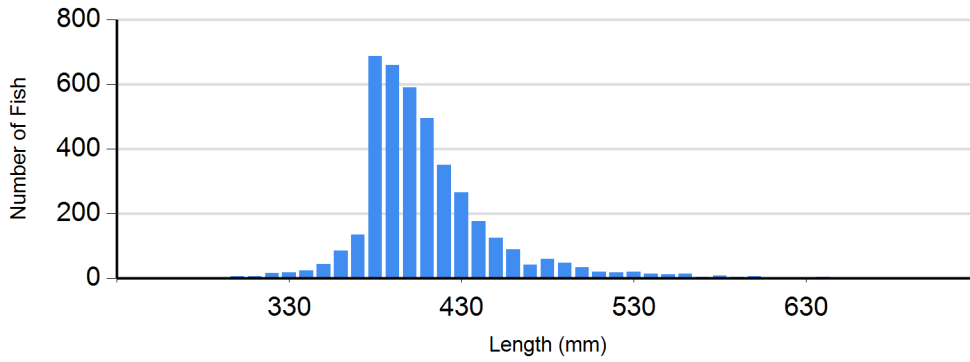
Length frequency of angler-harvested Sauger measured by the creel clerk during creel surveys on Francis Case.



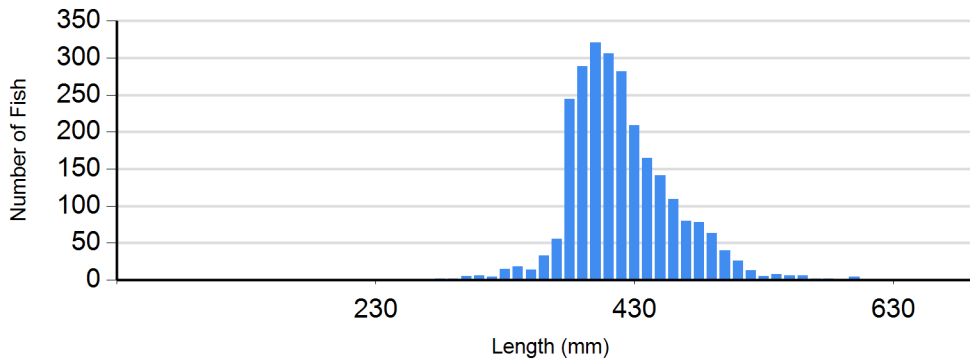
Length frequency of angler-harvested Smallmouth Bass measured by the creel clerk during creel surveys on Francis Case.



Length frequency of angler-harvested Walleye measured by the creel clerk during creel surveys on Francis Case.

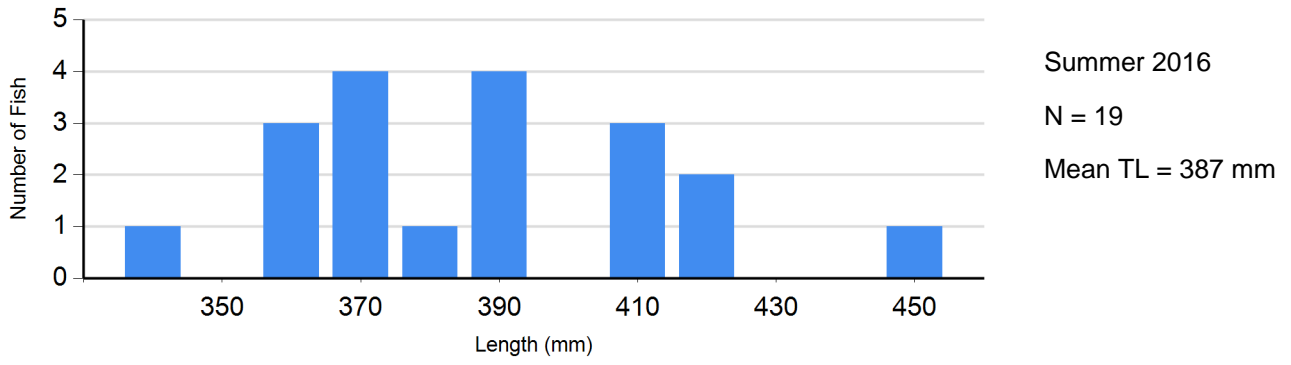


Summer 2015
N = 4084
Mean TL = 409 mm

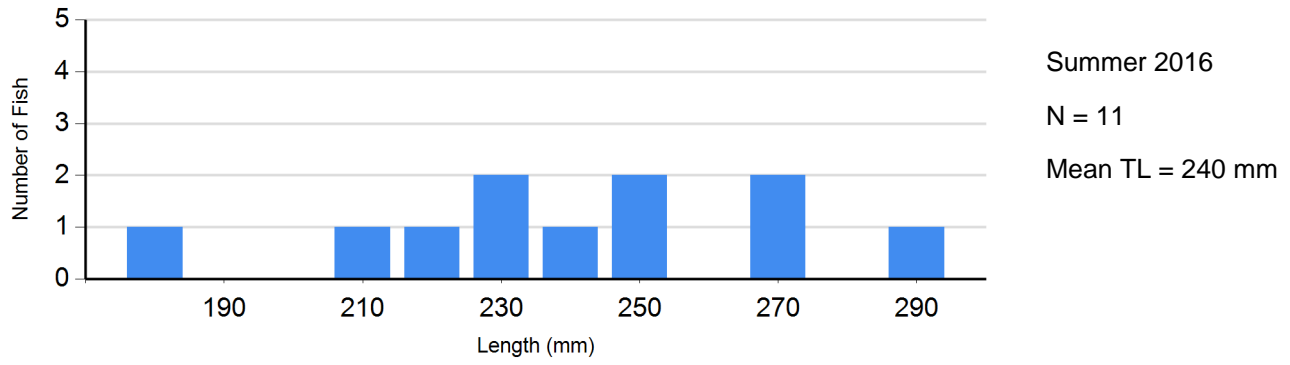


Summer 2016
N = 2562
Mean TL = 420 mm

Length frequency of angler-harvested White Bass measured by the creel clerk during creel surveys on Francis Case.

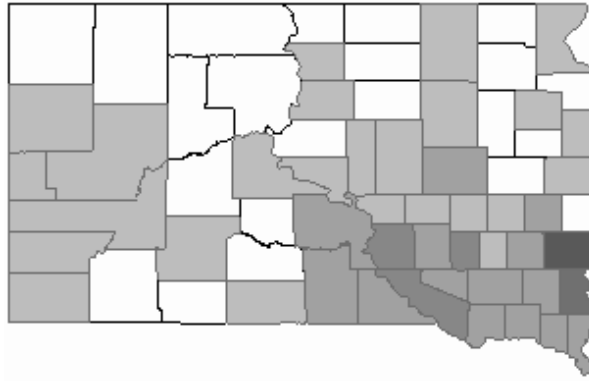


Length frequency of angler-harvested Yellow Perch measured by the creel clerk during creel surveys on Francis Case.



South Dakota county of residence for winter and summer resident anglers fishing Francis Case, South Dakota between April 2015 and July 2016.

Summer 2016



Summer 2015

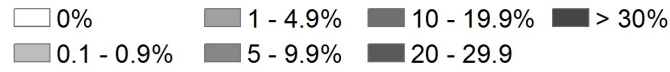
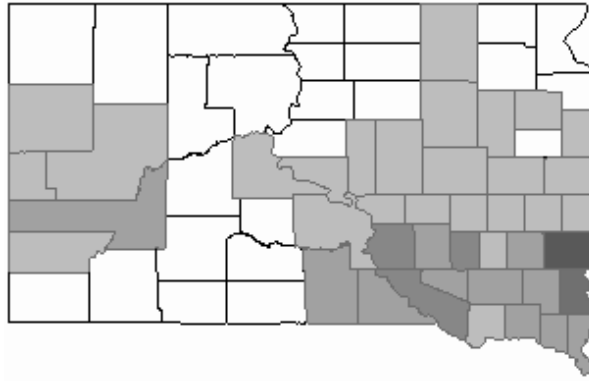


Table 11. Number of parties or anglers interviewed that harvested (or caught) a specified number of fish total over selected strata for a species.

Angler Harvest	Count							
	BLG (n=0)	CCF (n=173)	PAH (n=1)	SAR (n=69)	SMB (n=69)	WAE (n=6871)	WHB (n=51)	YEP (n=0)
0.00	0	0	0	0	0	0	0	0
0.14	0	0	0	0	0	1	0	0
0.17	0	0	0	0	0	2	0	0
0.20	0	0	0	0	0	8	0	0
0.25	0	0	0	0	0	21	0	0
0.33	0	0	0	0	0	48	0	0
0.40	0	0	0	0	0	14	0	0
0.43	0	0	0	0	3	0	0	0
0.50	0	0	0	0	0	140	0	0
0.60	0	0	0	0	0	12	0	0
0.63	0	0	0	0	0	5	0	0
0.67	0	0	0	0	0	86	0	0
0.75	0	0	0	0	0	39	0	0
0.80	0	0	0	0	0	4	0	0
1.00	0	0	0	0	1	351	0	0
1.17	0	0	0	0	0	7	0	0
1.20	0	0	0	0	0	18	0	0
1.25	0	0	0	0	0	30	0	0
1.33	0	0	0	0	0	64	0	0
1.40	0	0	0	0	0	7	0	0
1.50	0	0	0	0	0	243	0	0
1.60	0	0	0	0	0	24	0	0
1.67	0	0	0	0	0	70	0	0
1.75	0	0	0	0	0	35	0	0
2.00	0	10	0	0	0	392	0	0
2.20	0	0	0	0	0	11	0	0
2.25	0	0	0	0	0	63	0	0
2.33	0	7	0	0	0	77	0	0
2.50	0	0	0	0	0	175	10	0
2.60	0	0	0	0	0	13	0	0
2.67	0	16	0	0	0	48	8	0
2.75	0	0	0	0	0	11	0	0
2.80	0	0	0	0	0	14	0	0
3.00	0	12	0	0	9	315	0	0
3.25	0	0	0	0	0	78	0	0
3.33	0	0	0	0	0	110	0	0
3.40	0	0	0	0	0	17	0	0
3.50	0	0	0	0	7	315	0	0
3.67	0	0	0	0	0	88	0	0
3.75	0	0	0	0	0	15	0	0
3.80	0	0	0	0	0	38	0	0

4.00	0	0	0	0	8	1072	0	0
4.33	0	0	0	0	0	26	0	0
5.00	0	5	0	0	10	0	0	0
5.33	0	0	0	0	0	16	0	0
7.00	0	0	0	0	0	7	0	0
8.00	0	0	0	0	0	8	0	0
8.50	0	17	0	0	0	0	0	0
11.00	0	22	0	0	0	0	0	0
25.00	0	0	0	0	0	0	25	0

Angler Harvest	Count							
	BLG (n=0)	CCF (n=173)	PAH (n=1)	SAR (n=69)	SMB (n=69)	WAE (n=6871)	WHB (n=51)	YEP (n=0)
0.00	0	0	0	0	0	0	0	0
0.13	0	0	0	0	0	1	0	0
0.14	0	0	0	0	0	1	0	0
0.17	0	0	0	0	0	2	0	0
0.20	0	0	0	0	0	7	0	0
0.25	0	0	0	0	1	18	0	0
0.29	0	0	0	0	0	2	0	0
0.33	0	0	1	0	0	46	0	0
0.40	0	0	0	0	0	4	0	0
0.50	0	0	0	0	1	120	0	0
0.57	0	0	0	0	0	4	0	0
0.67	0	0	0	0	0	62	0	0
0.75	0	0	0	0	0	36	0	0
0.80	0	0	0	0	0	8	0	0
1.00	0	0	0	0	4	253	1	0
1.20	0	0	0	0	0	6	0	0
1.25	0	0	0	0	0	25	0	0
1.33	0	0	0	0	0	64	0	0
1.40	0	0	0	0	0	7	0	0
1.50	0	0	0	0	0	168	0	0
1.67	0	0	0	0	0	25	0	0
1.75	0	0	0	0	0	28	0	0
2.00	0	14	0	0	0	268	0	0
2.33	0	0	0	0	0	63	0	0
2.50	0	0	0	0	0	120	0	0
2.67	0	0	0	0	0	64	0	0
2.75	0	0	0	0	0	11	0	0
3.00	0	0	0	0	0	249	0	0
3.25	0	0	0	0	0	39	0	0
3.33	0	0	0	0	0	60	0	0
3.40	0	0	0	0	0	17	0	0
3.50	0	0	0	0	0	224	7	0
3.67	0	0	0	0	0	33	0	0
3.75	0	0	0	0	15	30	0	0
4.00	0	24	0	0	0	656	0	0
4.50	0	9	0	0	0	0	0	0
5.00	0	0	0	0	10	0	0	0
6.00	0	0	0	0	0	12	0	0
18.50	0	37	0	0	0	0	0	0