

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: 4/1/2017
End Date: 7/31/2017
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 2016 - 2017. Any Species (ANY), Channel Catfish (CCF), Common Carp (COC), Paddlefish (PAH), Sauger (SAR), Smallmouth Bass (SMB), Walleye (WAE), White Bass (WHB), Yellow Perch (YEP).

Year	Month	# of Interviews	Percent of Anglers Targeting								
			ANY	CCF	COC	PAH	SAR	SMB	WAE	WHB	YEP
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	0.7	0.0	0.7	0.0	2.0	90.0	0.4	0.0
	June	471	9.1	0.4	0.0	0.0	0.0	0.8	89.6	0.0	0.0
	July	219	7.8	2.3	0.0	0.0	0.0	0.5	89.5	0.0	0.0
	Overall	1409	6.7	0.7	0.0	0.2	0.0	1.2	91.0	0.1	0.0
2017	April	232	2.2	0.0	0.0	0.0	0.0	3.4	94.4	0.0	0.0
	May	311	0.3	0.6	0.0	0.6	0.0	2.3	96.1	0.0	0.0
	June	252	2.0	0.0	0.0	0.0	0.0	0.8	97.2	0.0	0.0
	July	218	2.8	0.9	0.0	0.0	0.0	0.5	95.4	0.5	0.0
	Overall	1013	1.7	0.4	0.0	0.2	0.0	1.8	95.9	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
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
2017	April	232	76,693 (18,014)	18,131	4.23 (0.32)	2.16 (0.42)	66	86	75
	May	311	171,441 (24,896)	39,963	4.29 (0.78)	2.37 (0.36)	66	96	60
	June	252	229,223 (28,371)	51,627	4.44 (0.46)	2.42 (0.23)	69	97	63
	July	218	86,174 (12,506)	21,490	4.01 (0.35)	2.06 (0.21)	75	95	77
	Overall	1013	563,531 (43,653)	132,908	4.24 (0.26)	2.25 (0.16)	69	94	68

Table 3. Estimated fishing pressure (angler hours) by month during the summer season 2017 daylight period on Francis Case (80% confidence interval).

Zone	Month			Total
	April	May	June	
Lower	37,772 (8,523)	94,516 (21,305)	40,077 (10,204)	180,944 (25,191)
Middle	65,728 (16,164)	75,349 (14,658)	28,491 (5,943)	180,796 (22,877)
Upper	67,940 (16,908)	59,358 (11,670)	17,606 (4,117)	201,791 (27,344)

Table 4. Estimated number of fish harvested for selected species, by zone during the May-August 2017 daylight period on Francis Case (80% confidence interval).

Species	Zone			Total
	Lower	Middle	Upper	
Channel Catfish	846 (354)	498 (295)	2,497 (733)	3,841 (1,382)
Common Carp	187 (154)	30 (46)	0	217 (200)
Paddlefish	0	0	170 (204)	170 (204)
Sauger	1,197 (719)	2,145 (630)	8,575 (3,207)	11,917 (4,556)
Smallmouth Bass	7,000 (2,259)	3,111 (1,054)	2,788 (1,752)	12,900 (5,065)
Walleye	42,884 (9,619)	43,737 (7,463)	61,516 (9,497)	148,138 (26,579)
White Bass	614 (248)	941 (480)	6,903 (2,594)	8,458 (3,322)
Yellow Perch	379 (555)	5 (5)	159 (90)	543 (650)

Table 5. Estimated number of fish harvested, by species and month, for the summer season 2017 daylight period on Francis Case (80% confidence interval).

Species	Month				Total
	April	May	June	July	
Channel Catfish	197	404 (217)	1,841 (755)	1,398 (559)	3,841 (1,530)
Common Carp	0	101 (113)	116 (115)	0	217 (228)
Paddlefish	0	170 (204)	0	0	170 (204)
Sauger	3,026 (1,535)	6,707 (2,825)	1,957 (908)	228 (188)	11,917 (5,456)
Smallmouth Bass	1,307 (468)	5,934 (2,051)	4,379 (1,884)	1,280 (1,143)	12,900 (5,547)
Walleye	13,199 (3,074)	59,281 (9,844)	56,990 (9,968)	18,667 (5,719)	148,138 (28,605)
White Bass	279 (233)	1,444 (1,500)	4,844 (1,896)	1,890 (1,061)	8,458 (4,690)
Yellow Perch	5 (5)	0	73 (55)	465 (560)	543 (620)
Total	18,013 (5,316)	74,042 (16,753)	70,199 (15,581)	23,929 (9,229)	186,183 (46,879)

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: Channel Catfish (CCF), Common Carp (COC), Paddlefish (PAH), Sauger (SAR), Smallmouth Bass (SMB), Walleye (WAE), White Bass (WHB), Yellow Perch (YEP) and other species (Other).

Year	Month	CCF	COC	PAH	SAR	SMB	WAE	WHB	YEP
		C/h	C/h	C/h	C/h	C/h	C/h	C/h	C/h
2016	April	0.01	<0.01	0.00	0.05	0.06	0.62	0.01	0.01
		(<0.01)	(<0.01)		(0.04)	(0.04)	(0.61)	(<0.01)	(<0.01)
	May	0.01	<0.01	<0.01	0.06	0.10	0.47	0.04	<0.01
		(<0.01)	(<0.01)	(<0.01)	(0.03)	(0.04)	(0.17)	(0.04)	(<0.01)
	June	0.04	<0.01	0.00	0.02	0.04	0.73	0.04	<0.01
		(0.01)	(<0.01)		(0.01)	(0.01)	(0.18)	(0.01)	(<0.01)
July	0.13	<0.01	0.00	<0.01	0.02	0.30	0.02	0.01	
	(0.12)	(<0.01)		(<0.01)	(<0.01)	(0.18)	(0.01)	(<0.01)	
Overall	0.05	<0.01	<0.01	0.03	0.06	0.56	0.03	<0.01	
	(0.03)	(<0.01)	(<0.01)	(<0.01)	(0.01)	(0.12)	(0.01)	(<0.01)	
2017	April	0.02	<0.01	0.00	0.06	0.09	0.44	0.03	<0.01
		(<0.01)	(<0.01)		(0.04)	(0.05)	(0.21)	(0.03)	(<0.01)
	May	0.01	0.01	<0.01	0.06	0.14	0.81	0.04	<0.01
		(0.01)	(<0.01)	(<0.01)	(0.03)	(0.05)	(0.25)	(0.02)	(<0.01)
	June	0.02	0.02	0.00	0.02	0.10	0.75	0.05	<0.01
		(<0.01)	(0.01)		(0.02)	(0.06)	(0.24)	(0.02)	(<0.01)
July	0.07	0.01	0.00	<0.01	0.05	0.45	0.08	0.01	
	(0.04)	(<0.01)		(<0.01)	(0.02)	(0.19)	(0.03)	(0.01)	
Overall	0.03	0.01	<0.01	0.03	0.11	0.68	0.05	<0.01	
	(<0.01)	(<0.01)	(<0.01)	(0.01)	(0.03)	(0.13)	(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: Channel Catfish (CCF), Common Carp (COC), Paddlefish (PAH), Sauger (SAR), Smallmouth Bass (SMB), Walleye (WAE), White Bass (WHB), Yellow Perch (YEP) and other species (Other).

Year	Month	CCF	COC	PAH	SAR	SMB	WAE	WHB	YEP
		H/h	H/h	H/h	H/h	H/h	H/h	H/h	H/h
2016	April	<0.01 (<0.01)	0.00	0.00	0.02 (0.01)	0.02 (0.01)	0.22 (0.17)	<0.01 (<0.01)	<0.01 (<0.01)
	May	0.01 (<0.01)	0.00	<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	0.01 (<0.01)	<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	0.11 (0.12)	0.00	0.00	<0.01 (<0.01)	0.01 (<0.01)	0.18 (0.11)	0.01 (0.01)	<0.01 (<0.01)
	Overall	0.03 (0.03)	<0.01 (<0.01)	<0.01 (<0.01)	0.01 (<0.01)	0.01 (<0.01)	0.20 (0.04)	0.02 (0.01)	<0.01 (<0.01)
2017	April	<0.01	0.00	0.00	0.04 (0.03)	0.02 (<0.01)	0.17 (0.07)	<0.01 (<0.01)	<0.01 (<0.01)
	May	<0.01 (<0.01)	<0.01 (<0.01)	<0.01 (<0.01)	0.04 (0.02)	0.03 (0.01)	0.35 (0.10)	0.01 (<0.01)	0.00
	June	0.01 (<0.01)	<0.01 (<0.01)	0.00	0.01 (0.01)	0.02 (0.01)	0.25 (0.08)	0.02 (0.02)	<0.01 (<0.01)
	July	0.02 (<0.01)	0.00	0.00	<0.01 (<0.01)	0.01 (0.01)	0.22 (0.12)	0.02 (0.01)	0.01 (<0.01)
	Overall	0.01 (<0.01)	<0.01 (<0.01)	<0.01 (<0.01)	0.02 (<0.01)	0.02 (<0.01)	0.26 (0.05)	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: Channel Catfish (CCF), Common Carp (COC), Paddlefish (PAH), Sauger (SAR), Smallmouth Bass (SMB), Walleye (WAE), White Bass (WHB), Yellow Perch (YEP) and Other Species (Other).

Year	Month	CCF	COC	PAH	SAR	SMB	WAE	WHB	YEP
		C/h	C/h	C/h	C/h	C/h	C/h	C/h	C/h
2016	April	0.00	0.00	0.00	0.00	0.04	0.44 (0.11)	0.00	0.00
	May	0.84	0.00	0.07	0.00	2.22 (1.12)	0.48 (0.10)	2.64	0.00
	June	1.95	0.00	0.00	0.00	0.04	1.00 (0.48)	0.00	0.00
	July	1.86	0.00	0.00	0.00	0.16	0.30 (0.13)	0.00	0.00
	Overall	1.66	0.00	0.07	0.00	0.91 (0.44)	0.58 (0.14)	2.64	0.00
2017	April	0.00	0.00	0.00	0.00	1.62 (2.48)	0.55 (0.10)	0.00	0.00
	May	0.54	0.00	0.10	0.00	1.28 (0.51)	0.80 (0.27)	0.00	0.00
	June	0.00	0.00	0.00	0.00	1.20	0.91 (0.52)	0.00	0.00
	July	1.07	0.00	0.00	0.00	0.14	0.65 (0.42)	1.03	0.00
	Overall	0.81	0.00	0.10	0.00	1.29 (0.77)	0.72 (0.16)	1.03	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: Channel Catfish (CCF), Common Carp (COC), Paddlefish (PAH), Sauger (SAR), Smallmouth Bass (SMB), Walleye (WAE), White Bass (WHB), Yellow Perch (YEP) and Other Species (Other).

Year	Month	CCF	COC	PAH	SAR	SMB	WAE	WHB	YEP
		H/h	H/h	H/h	H/h	H/h	H/h	H/h	H/h
2016	April	0.00	0.00	0.00	0.00	0.00	0.15 (0.05)	0.00	0.00
	May	0.84	0.00	0.07	0.00	0.94 (0.07)	0.14 (0.03)	2.64	0.00
	June	0.79	0.00	0.00	0.00	0.00	0.33 (0.09)	0.00	0.00
	July	1.86	0.00	0.00	0.00	0.16	0.17 (0.13)	0.00	0.00
	Overall	1.49	0.00	0.07	0.00	0.39 (0.03)	0.20 (0.03)	2.64	0.00
2017	April	0.00	0.00	0.00	0.00	0.07 (0.14)	0.21 (0.05)	0.00	0.00
	May	0.54	0.00	0.10	0.00	0.41 (0.05)	0.35 (0.12)	0.00	0.00
	June	0.00	0.00	0.00	0.00	0.09	0.27 (0.16)	0.00	0.00
	July	0.02	0.00	0.00	0.00	0.00	0.30 (0.26)	0.78	0.00
	Overall	0.28	0.00	0.10	0.00	0.21 (0.05)	0.29 (0.07)	0.78	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: Channel Catfish (CCF), Common Carp (COC), Paddlefish (PAH), Sauger (SAR), Smallmouth Bass (SMB), Walleye (WAE), White Bass (WHB), Yellow Perch (YEP) and other species (Other).

Year	Month	CCF	COC	PAH	SAR	SMB	WAE	WHB	YEP
		C	C	C	C	C	C	C	C
2016	April	733 (361)	142 (91)	0	2,851 (1,698)	3,557 (1,171)	35,394 (16,751)	516 (310)	339 (395)
	May	1,688 (646)	187 (99)	33 (51)	9,026 (2,742)	14,702 (3,451)	68,064 (14,602)	5,312 (6,633)	287 (137)
	June	8,054 (3,004)	524 (252)	0	4,547 (1,659)	9,302 (1,903)	158,340 (24,026)	8,395 (2,502)	525 (219)
	July	14,350 (15,063)	212 (176)	0	172 (102)	1,910 (618)	31,985 (7,403)	2,078 (1,462)	1,461 (527)
	Overall	24,825 (15,377)	1,065 (335)	33 (51)	16,595 (3,628)	29,471 (4,157)	293,783 (33,554)	16,301 (7,245)	2,612 (707)
2017	April	1,154 (610)	112 (158)	0	4,372 (1,956)	6,703 (3,211)	33,598 (8,724)	2,240 (1,034)	62 (63)
	May	2,458 (1,959)	1,759 (477)	170 (204)	10,126 (5,125)	24,244 (7,922)	139,356 (27,337)	6,198 (2,426)	486 (185)
	June	5,699 (1,296)	3,711 (2,889)	0	3,597 (2,072)	23,949 (11,407)	172,578 (31,999)	10,524 (2,824)	669 (358)
	July	6,449 (1,617)	504 (245)	0	274 (193)	4,474 (1,921)	38,413 (8,471)	6,755 (2,330)	865 (614)
	Overall	15,761 (2,916)	6,086 (2,943)	170 (204)	18,370 (5,867)	59,370 (14,383)	383,945 (43,808)	25,717 (4,512)	2,082 (737)

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: Channel Catfish (CCF), Common Carp (COC), Paddlefish (PAH), Sauger (SAR), Smallmouth Bass (SMB), Walleye (WAE), White Bass (WHB), Yellow Perch (YEP) and other species (Other).

Year	Month	CCF	COC	PAH	SAR	SMB	WAE	WHB	YEP
		H	H	H	H	H	H	H	H
2016	April	45 (34)	0	0	1,304 (712)	1,147 (309)	12,429 (4,870)	24 (33)	94 (113)
	May	1,071 (558)	0	33 (51)	3,510 (779)	3,545 (1,478)	20,774 (4,118)	3,838 (6,520)	52 (52)
	June	2,856 (1,604)	59 (89)	0	2,455 (979)	1,761 (611)	54,496 (8,687)	3,743 (1,713)	0
	July	11,475 (15,013)	0	0	128 (62)	548 (398)	18,792 (5,013)	1,443 (1,359)	431 (364)
	Overall	15,447 (15,109)	59 (89)	33 (51)	7,396 (1,441)	7,000 (1,677)	106,490 (11,885)	9,047 (6,877)	578 (384)
2017	April	197	0	0	3,026 (1,535)	1,307 (468)	13,199 (3,074)	279 (233)	5 (5)
	May	404 (217)	101 (113)	170 (204)	6,707 (2,825)	5,934 (2,051)	59,281 (9,844)	1,444 (1,500)	0
	June	1,841 (755)	116 (115)	0	1,957 (908)	4,379 (1,884)	56,990 (9,968)	4,844 (1,896)	73 (55)
	July	1,398 (559)	0	0	228 (188)	1,280 (1,143)	18,667 (5,719)	1,890 (1,061)	465 (560)
	Overall	3,841 (866)	217 (161)	170 (204)	11,917 (3,346)	12,900 (3,047)	148,138 (15,441)	8,458 (2,650)	543 (563)

Table 9. Estimated number and rate (number per hour) of Channel Catfish (CCF), Common Carp (COC), 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).

Channel Catfish

Season	Year	Catch	Harvest	Catch Rate	Harvest Rate
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)
Summer	2017	15,761 (2,916)	3,841 (866)	0.03 (<0.01)	0.01 (<0.01)
Winter	2007-2008	12 (19)	12 (19)	<0.01 (<0.01)	<0.01 (<0.01)

Common Carp

Season	Year	Catch	Harvest	Catch Rate	Harvest Rate
Summer	2008	1,561 (576)	0	<0.01 (<0.01)	0.00
Summer	2009	1,504 (449)	17 (25)	<0.01 (<0.01)	<0.01 (<0.01)
Summer	2010	1,214 (468)	39 (33)	<0.01 (<0.01)	<0.01 (<0.01)
Summer	2011	2,772 (990)	125 (107)	<0.01 (<0.01)	<0.01 (<0.01)
Summer	2012	2,008 (478)	0	<0.01 (<0.01)	0.00
Summer	2013	2,417 (832)	13 (21)	<0.01 (<0.01)	<0.01 (<0.01)
Summer	2014	1,726 (967)	7 (8)	<0.01 (<0.01)	<0.01 (<0.01)
Summer	2015	1,953 (580)	27 (40)	<0.01 (<0.01)	<0.01 (<0.01)
Summer	2016	1,065 (335)	59 (89)	<0.01 (<0.01)	<0.01 (<0.01)
Summer	2017	6,086 (2,943)	217 (161)	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)
Summer	2017	170 (204)	170 (204)	<0.01 (<0.01)	<0.01 (<0.01)

Sauger

Season	Year	Catch	Harvest	Catch Rate	Harvest Rate
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)
Summer	2017	18,370 (5,867)	11,917 (3,346)	0.03 (0.01)	0.02 (<0.01)
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	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)
Summer	2017	59,370 (14,383)	12,900 (3,047)	0.11 (0.03)	0.02 (<0.01)
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	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)
Summer	2017	383,945 (43,808)	148,138 (15,441)	0.68 (0.13)	0.26 (0.05)
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	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)
Summer	2017	25,717 (4,512)	8,458 (2,650)	0.05 (0.01)	0.02 (<0.01)
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	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)
Summer	2017	2,082 (737)	543 (563)	<0.01 (<0.01)	<0.01 (<0.01)

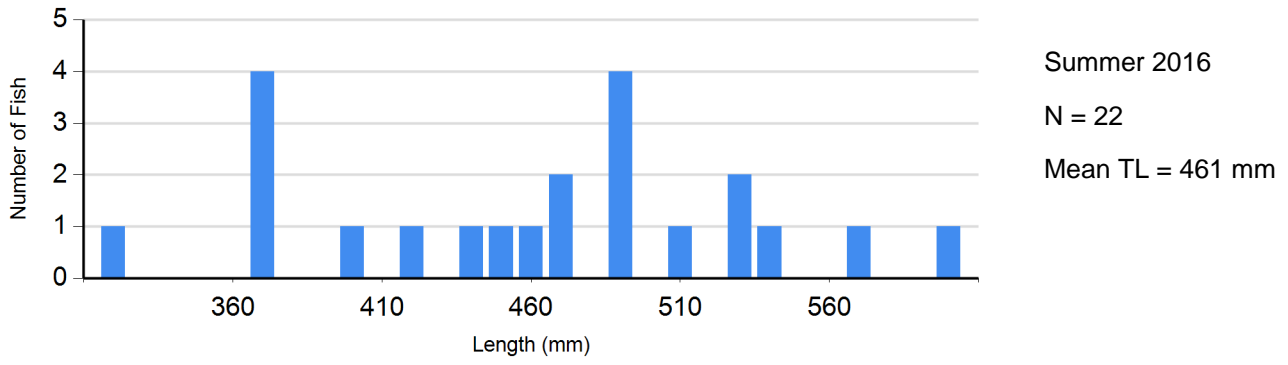
Table 10. The number of fish harvested with each species by length group (mm) for the winter and summer fisheries at Francis Case. Abbreviations for species are as follows: Channel Catfish (CCF), Common Carp (COC), Paddlefish (PAH), Sauger (SAR), Smallmouth Bass (SMB), Walleye (WAE), White Bass (WHB),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

Summer 2016								
Length Group (mm)	CCF (N=22)	COC (N=0)	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								
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		

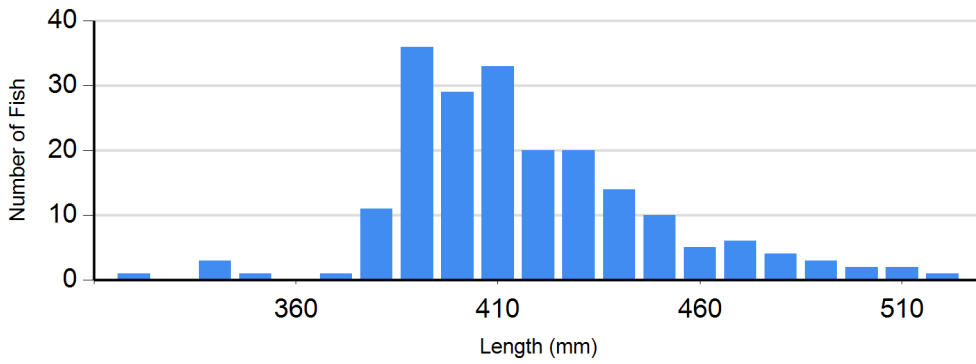
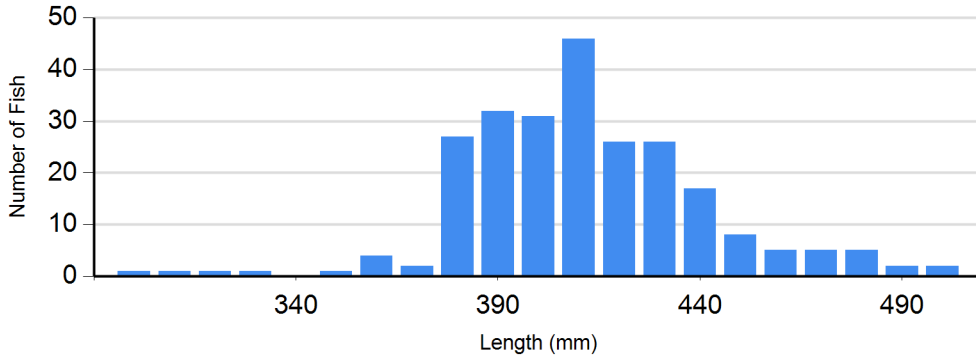
Summer 2017

Length Group (mm)	CCF (N=7)	COC (N=0)	PAH (N=0)	SAR (N=202)	SMB (N=161)	WAE (N=2420)	WHB (N=21)	YEP (N=2)
180								1
190								
200						1		
210								
220					1	1	1	
230					2		1	
240								
250					1			1
260					2			
270					7	1		
280					5		1	
290					7		1	
300					10		1	
310					11	6		
320				1	13	5		
330					19	11	1	
340	2			3	16	20		
350				1	7	26		
360					5	50	1	
370				1	10	75	1	
380				11	5	270	4	
390				36	8	257	4	
400				29	11	275	2	
410				33	6	233	2	
420				20	6	213	1	
430	2			20	4	162		
440				14	2	86		
450				10	1	112		
460				5		100		
470				6		83		
480				4		79		
490				3	1	94		
500				2		86		
510				2		48		
520	1			1	1	31		
530						43		
540						17		
550	1					13		
560						3		
570						10		
580						2		
590						2		
600	1							
610								
620						2		
630						1		
640						1		
650						1		

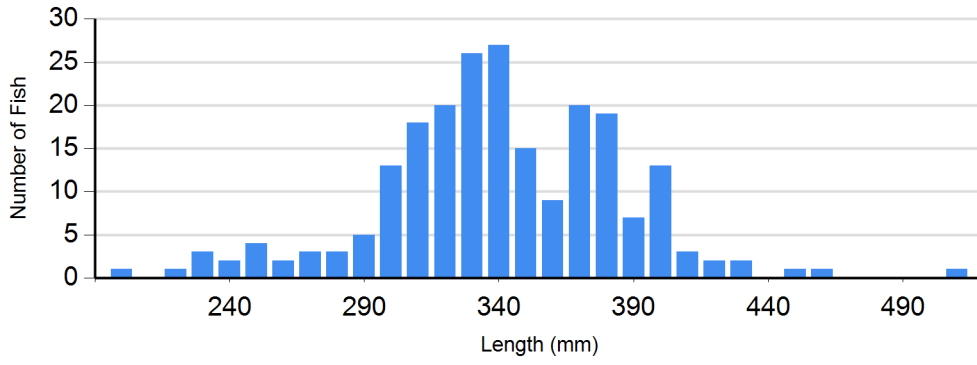
Length frequency of angler-harvested Channel Catfish measured by the creel clerk during creel surveys on Francis Case.



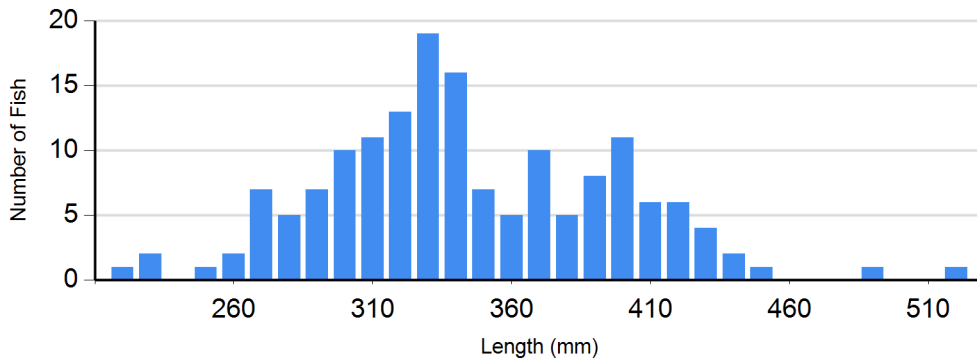
Length frequency of angler-harvested Sauger measured by the creel clerk during creel surveys on Francis Case.



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

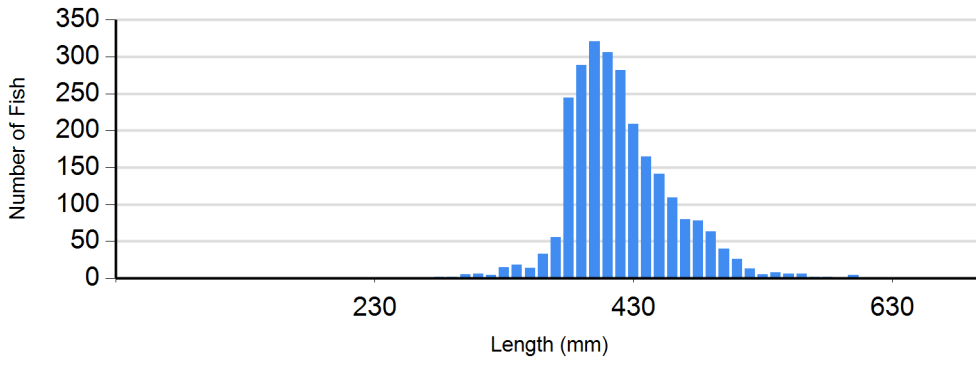


Summer 2016
N = 221
Mean TL = 340 mm

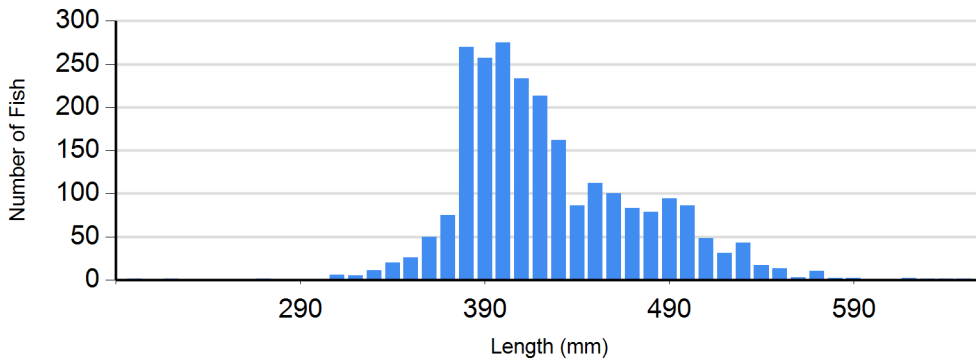


Summer 2017
N = 161
Mean TL = 344 mm

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

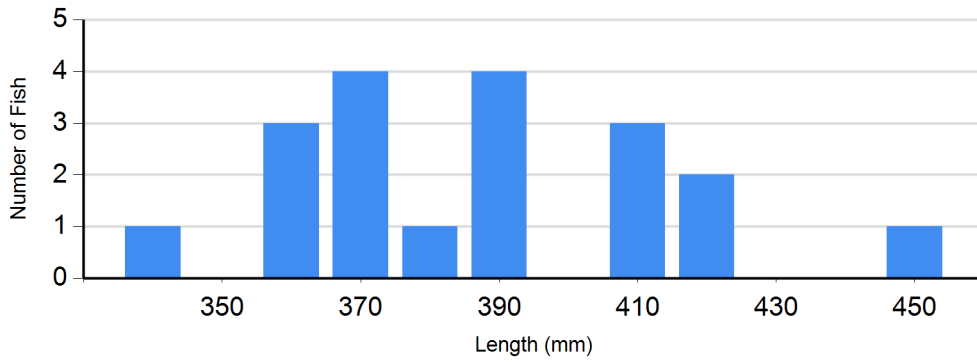


Summer 2016
N = 2562
Mean TL = 420 mm

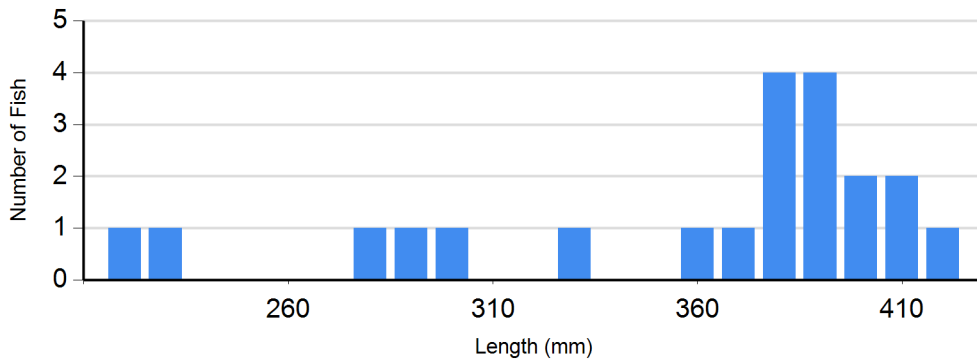


Summer 2017
N = 2420
Mean TL = 425 mm

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

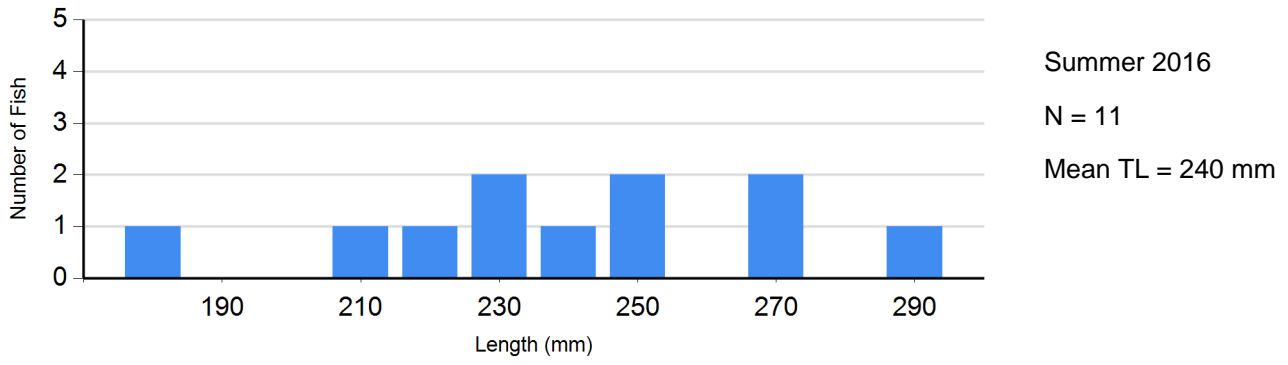


Summer 2016
N = 19
Mean TL = 387 mm



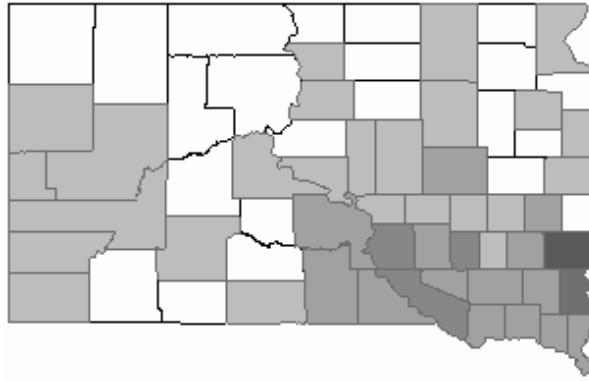
Summer 2017
N = 21
Mean TL = 357 mm

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 2016 and July 2017.

Summer 2016



Summer 2017

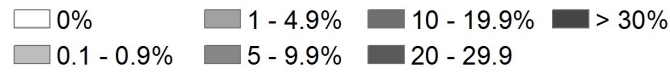
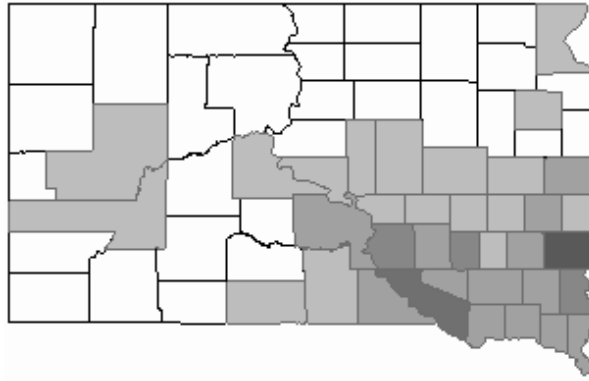


Table 11. Number of parties or anglers interviewed that harvested (or caught) a specified number of fish total over selected strata for a species.

Angler Harvest	Count							
	CCF (n=88)	COC (n=0)	PAH (n=3)	SAR (n=78)	SMB (n=78)	WAE (n=5261)	WHB (n=23)	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	14	0	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	24	0	0	0	0	656	0	0
4.50	9	0	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	37	0	0	0	0	0	0	0

Angler Harvest	Count							
	CCF (n=88)	COC (n=0)	PAH (n=3)	SAR (n=78)	SMB (n=78)	WAE (n=5261)	WHB (n=23)	YEP (n=0)
0.00	0	0	0	0	0	0	0	0
0.17	0	0	0	0	0	1	0	0
0.20	0	0	0	0	0	3	0	0
0.25	0	0	0	0	0	15	0	0
0.29	0	0	0	0	0	2	0	0
0.33	1	0	0	0	1	26	0	0
0.40	0	0	0	0	0	12	0	0
0.50	0	0	2	0	0	74	0	0
0.60	0	0	0	0	0	3	0	0
0.67	0	0	0	0	0	68	0	0
0.75	0	0	0	0	0	18	0	0
0.80	0	0	0	0	0	4	0	0
1.00	3	0	0	0	0	207	0	0
1.20	0	0	0	0	0	12	0	0
1.25	0	0	0	0	0	30	0	0
1.33	0	0	0	0	0	48	0	0
1.50	0	0	0	0	0	105	0	0
1.67	0	0	0	0	0	70	0	0
1.75	0	0	0	0	0	49	0	0
2.00	0	0	0	0	8	268	0	0
2.25	0	0	0	0	0	9	0	0
2.33	0	0	0	0	0	84	0	0
2.50	0	0	0	0	0	115	0	0
2.67	0	0	0	0	0	88	0	0
2.71	0	0	0	0	0	19	0	0
2.75	0	0	0	0	0	33	0	0
3.00	0	0	0	0	0	258	0	0
3.33	0	0	0	0	0	90	0	0
3.50	0	0	0	0	0	147	0	0
3.67	0	0	0	0	0	55	0	0
3.75	0	0	0	0	0	0	15	0
4.00	0	0	0	0	8	600	0	0
4.50	0	0	0	0	0	9	0	0
5.00	0	0	0	0	30	0	0	0
6.00	0	0	0	0	0	6	0	0