

**Table D3 - Total Effort by Sample Station**

		Sample Time (seconds of electricity) by Sample Station								
		Twin Creek				Chippewa Creek				
Year	Pass	SF1	SF5	SF5-6	SF9	SG5	SF8	SF16		
2003	1	194	116	243	521	n.r.	n.r.	150		
2003	2	170	105	138	478	n.r.	n.r.	215		
2003	3	161	145	118	410	n.r.	n.r.	209		
2003 (total time)		525	366	499	1409			574		
2008	1	244	291	215	293			272		
2009	1	244	291	284	295			272		
2010	1	252	295	209	295			297		
2011	1	294	292	282	294			298		
2012	1	334	310	242	349			398		
2013	1	276	261	309	378			350		
2015	1	471	695	634	519	519	407	815		
2016	1	472	422	296	303	600	485	352		
<b>Total Length Sampled (feet)</b>		<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>200</b>	<b>400</b>	<b>100</b>		

n.r. – indicates sample time was not recorded

**Total Catch per Unit of Effort (number of fish/minute of electrofishing).**

Year	Twin Creek				Chippewa Creek		
	SF1	SF5	SF5-6	SF9	SG5	SF8	SF16
2003 (total time)	4.6	2.1	0.4	0.2	0.0	0.0	5.7
2008	3.2	2.3	0.6	5.3			11.3
2009	4.9	1.0	0.4	4.3			9.3
2010	1.2	2.0	1.1	5.3			5.7
2011	4.7	3.7	1.3	4.9			2.6
2012	5.2	2.3	0.5	2.1			5.9
2013	7.4	2.8	0.6	4.6			8.1
2015	2.7	0.9	0.5	2.1	0.0	0.0	1.1
2016	5.2	1.1	1.2	5.1	0.0	0.0	6.8

**Length Summary by Sample Station and by Year**

## 2003 Fish Length Summary

Common name	Data	Twin Creek				Chippewa Creek	Total
		SF1	SF5	SF5-6	SF9	SF16	
American brook lamprey	Sample Size						
	Min of Length (mm)						
	Max of Length (mm)						
	Average of Length (mm)						
	StdDev of Length (mm)						
Blacknose dace	Sample Size				1		1
	Min of Length (mm)				87		87
	Max of Length (mm)				87		87
	Average of Length (mm)				87		87
	StdDev of Length (mm)						
Brook trout	Sample Size		12	3	1		16
	Min of Length (mm)		45	54	85		45
	Max of Length (mm)		69	79	85		85
	Average of Length (mm)		57.0	66.0	85.0		60.4
	StdDev of Length (mm)		7.6	12.5			10.9
Brown trout	Sample Size	11			34	3	48
	Min of Length (mm)	51			61	49	49
	Max of Length (mm)	190			317	74	317
	Average of Length (mm)	91.5			171.2	61.7	146.1
	StdDev of Length (mm)	49.8			70.2	12.5	74.9
Creek chub	Sample Size				1		1
	Min of Length (mm)				89		89
	Max of Length (mm)				89		89
	Average of Length (mm)				89		89
	StdDev of Length (mm)						
Mottled sculpin	Sample Size				3		3
	Min of Length (mm)				49		49
	Max of Length (mm)				54		54
	Average of Length (mm)				52.0		52.0
	StdDev of Length (mm)				2.6		2.6
<b>Total Sample Size</b>		<b>11</b>	<b>12</b>	<b>3</b>	<b>40</b>	<b>3</b>	<b>69</b>
<b>Total Min of Length (mm)</b>		<b>51</b>	<b>45</b>	<b>54</b>	<b>49</b>	<b>49</b>	<b>45</b>
<b>Total Max of Length (mm)</b>		<b>190</b>	<b>69</b>	<b>79</b>	<b>317</b>	<b>74</b>	<b>317</b>
<b>Total Average of Length (mm)</b>		<b>91.5</b>	<b>57.0</b>	<b>66.0</b>	<b>156.0</b>	<b>61.7</b>	<b>120.5</b>
<b>Total StdDev of Length (mm)</b>		<b>49.8</b>	<b>7.6</b>	<b>12.5</b>	<b>74.7</b>	<b>12.5</b>	<b>73.8</b>

## 2008 Fish Length Summary

Common name	Data	Twin Creek				Chippewa Creek	Total
		SF1	SF5	SF5-6	SF9	SF16	
American brook lamprey	Sample Size					1	1
	Min of Length (mm)					95	95
	Max of Length (mm)					95	95
	Average of Length (mm)					95	95
Blacknose dace	Sample Size	4			9		13
	Min of Length (mm)	37			49		37
	Max of Length (mm)	70			64		70
	Average of Length (mm)	61.5			55.2		57.2
	StdDev of Length (mm)	16.3			4.8		9.6
Brook trout	Sample Size	1	8	2	5		16
	Min of Length (mm)	74	47	119	146		47
	Max of Length (mm)	74	77	137	224		224
	Average of Length (mm)	74.0	64.1	128.0	171.4		106.3
	StdDev of Length (mm)		8.8	12.7	32.3		53.1
Brown trout	Sample Size	3			6	5	14
	Min of Length (mm)	132			144	61	61
	Max of Length (mm)	241			296	137	296
	Average of Length (mm)	170.7			237.7	79.6	166.9
	StdDev of Length (mm)	61.0			54.7	32.3	85.4
Creek chub	Sample Size	3			1	44	48
	Min of Length (mm)	67			63	28	28
	Max of Length (mm)	129			63	151	151
	Average of Length (mm)	93.0			63.0	66.4	68.0
	StdDev of Length (mm)	32.2				23.4	24.2
Mottled sculpin	Sample Size	2	3		4	1	10
	Min of Length (mm)	64	56		51	60	51
	Max of Length (mm)	90	69		85	60	90
	Average of Length (mm)	77.0	62.0		66.8	60.0	66.7
	StdDev of Length (mm)	18.4	6.6		14.9		12.5
Pumpkinseed sunfish	Sample Size				1		1
	Min of Length (mm)				85		85
	Max of Length (mm)				85		85
	Average of Length (mm)				85		85
<b>Total Sample Size</b>		<b>13</b>	<b>11</b>	<b>2</b>	<b>26</b>	<b>51</b>	<b>103</b>
<b>Total Min of Length (mm)</b>		<b>37</b>	<b>47</b>	<b>119</b>	<b>49</b>	<b>28</b>	<b>28</b>
<b>Total Max of Length (mm)</b>		<b>241</b>	<b>77</b>	<b>137</b>	<b>296</b>	<b>151</b>	<b>296</b>
<b>Total Average of Length (mm)</b>		<b>97.3</b>	<b>63.5</b>	<b>128.0</b>	<b>122.9</b>	<b>68.2</b>	<b>86.3</b>
<b>Total StdDev of Length (mm)</b>		<b>52.7</b>	<b>8.0</b>	<b>12.7</b>	<b>82.4</b>	<b>24.2</b>	<b>53.8</b>

## 2009 Fish Length Summary

Common name	Data	Twin Creek				Chippewa Creek	Total
		SF1	SF5	SF5-6	SF9	SF16	
American brook lamprey	Sample Size	1			1		2
	Min of Length (mm)	58			158		58
	Max of Length (mm)	58			158		158
	Average of Length (mm)	58.0			158.0		108.0
	StdDev of Length (mm)						70.7
Blacknose dace	Sample Size	12					12
	Min of Length (mm)	45					45
	Max of Length (mm)	84					84
	Average of Length (mm)	65.8					65.8
	StdDev of Length (mm)	14.4					14.4
Brook trout	Sample Size		4		6		10
	Min of Length (mm)		52		65		52
	Max of Length (mm)		62		192		192
	Average of Length (mm)		56.5		138.7		105.8
	StdDev of Length (mm)		4.4		59.8		61.6
Brown trout	Sample Size	3			10	3	16
	Min of Length (mm)	68			63	60	60
	Max of Length (mm)	152			313	73	313
	Average of Length (mm)	115.7			209.0	65.7	164.6
	StdDev of Length (mm)	43.1			76.5	6.7	86.7
Central mudminnow	Sample Size				1		1
	Min of Length (mm)				57		57
	Max of Length (mm)				57		57
	Average of Length (mm)				57		57
Creek chub	Sample Size	3				36	39
	Min of Length (mm)	69				27	27
	Max of Length (mm)	97				95	97
	Average of Length (mm)	87.7				67.8	69.3
	StdDev of Length (mm)	16.2				11.4	12.8
Mottled sculpin	Sample Size	1	1	1	2	3	8
	Min of Length (mm)	73	70	63	48	34	34
	Max of Length (mm)	73	70	63	80	108	108
	Average of Length (mm)	73.0	70.0	63.0	64.0	71.3	68.5
	StdDev of Length (mm)				22.6	37.0	21.9
Pumpkinseed sunfish	Sample Size				1		1
	Min of Length (mm)				76		76
	Max of Length (mm)				76		76
	Average of Length (mm)				76		76
<b>Total Sample Size</b>		<b>20</b>	<b>5</b>	<b>1</b>	<b>21</b>	<b>42</b>	<b>89</b>
<b>Total Min of Length (mm)</b>		<b>45</b>	<b>52</b>	<b>63</b>	<b>48</b>	<b>27</b>	<b>27</b>
<b>Total Max of Length (mm)</b>		<b>152</b>	<b>70</b>	<b>63</b>	<b>313</b>	<b>108</b>	<b>313</b>
<b>Total Average of Length (mm)</b>		<b>76.6</b>	<b>59.2</b>	<b>63.0</b>	<b>159.1</b>	<b>67.9</b>	<b>90.8</b>
<b>Total StdDev of Length (mm)</b>		<b>26.4</b>	<b>7.2</b>		<b>81.8</b>	<b>13.5</b>	<b>56.9</b>

## 2010 Fish Length Summary

Common name	Data	Twin Creek				Chippewa Creek	Total
		SF1	SF5	SF5-6	SF9	SF16	
American brook lamprey	Sample Size	1					1
	Min of Length (mm)	74					74
	Max of Length (mm)	74					74
	Average of Length (mm)	74					74
Blacknose dace	Sample Size	2			3		5
	Min of Length (mm)	66			26		26
	Max of Length (mm)	70			85		85
	Average of Length (mm)	68.0			64.0		65.6
	StdDev of Length (mm)	2.8			33.0		23.5
Brook trout	Sample Size		7	3	4		14
	Min of Length (mm)		48	81	53		48
	Max of Length (mm)		71	148	206		206
	Average of Length (mm)		60.0	115.3	117.5		88.3
	StdDev of Length (mm)		7.9	33.5	70.2		46.9
Brown trout	Sample Size				13	5	18
	Min of Length (mm)				66	55	55
	Max of Length (mm)				302	74	302
	Average of Length (mm)				189.3	65.6	154.9
	StdDev of Length (mm)				64.0	7.6	78.5
Creek chub	Sample Size	1				18	19
	Min of Length (mm)	76				27	27
	Max of Length (mm)	76				97	97
	Average of Length (mm)	76.0				55.8	56.9
	StdDev of Length (mm)					26.8	26.4
Mottled sculpin	Sample Size	1	3	1	5	5	15
	Min of Length (mm)	67	45	46	62	29	29
	Max of Length (mm)	67	69	46	106	72	106
	Average of Length (mm)	67.0	57.0	46.0	78.2	58.0	64.3
	StdDev of Length (mm)		12.0		17.6	16.7	17.5
White sucker	Sample Size				1		1
	Min of Length (mm)				106		106
	Max of Length (mm)				106		106
	Average of Length (mm)				106		106
<b>Total Sample Size</b>		<b>5</b>	<b>10</b>	<b>4</b>	<b>26</b>	<b>28</b>	<b>73</b>
<b>Total Min of Length (mm)</b>		<b>66</b>	<b>45</b>	<b>46</b>	<b>26</b>	<b>27</b>	<b>26</b>
<b>Total Max of Length (mm)</b>		<b>76</b>	<b>71</b>	<b>148</b>	<b>302</b>	<b>97</b>	<b>302</b>
<b>Total Average of Length (mm)</b>		<b>70.6</b>	<b>59.1</b>	<b>98.0</b>	<b>139.2</b>	<b>58.0</b>	<b>90.1</b>
<b>Total StdDev of Length (mm)</b>		<b>4.3</b>	<b>8.7</b>	<b>44.2</b>	<b>74.4</b>	<b>22.7</b>	<b>60.4</b>

## 2011 Fish Length Summary

Common name	Data	Twin Creek				Chippewa Creek	Total
		SF1	SF5	SF5-6	SF9	SF16	
American brook lamprey	Sample Size	1	1				2
	Min of Length (mm)	132	132				132
	Max of Length (mm)	132	132				132
	Average of Length (mm)	132	132				132
Blacknose dace	Sample Size	17			8		25
	Min of Length (mm)	31			47		31
	Max of Length (mm)	88			62		88
	Average of Length (mm)	61.8			56.4		60.0
	StdDev of Length (mm)	21.8			5.3		18.2
Brook trout	Sample Size		12	4	2		18
	Min of Length (mm)		48	61	174		48
	Max of Length (mm)		142	135	214		214
	Average of Length (mm)		73.5	114.3	194.0		95.9
	StdDev of Length (mm)		32.9	35.7	28.3		50.4
Brown trout	Sample Size	2			9	2	13
	Min of Length (mm)	67			137	61	61
	Max of Length (mm)	147			327	123	327
	Average of Length (mm)	107.0			219.9	92.0	182.8
	StdDev of Length (mm)	56.6			66.0	43.8	81.8
Creek chub	Sample Size	2		1		9	12
	Min of Length (mm)	81		88		28	28
	Max of Length (mm)	118		88		112	118
	Average of Length (mm)	99.5		88.0		74.2	79.6
	StdDev of Length (mm)	26.2				24.0	24.1
Mottled sculpin	Sample Size	1	5	1	2	2	11
	Min of Length (mm)	80	57	65	53	70	53
	Max of Length (mm)	80	62	65	70	72	80
	Average of Length (mm)	80.0	59.4	65.0	61.5	71.0	64.3
	StdDev of Length (mm)		2.4		12.0	1.4	8.0
White sucker	Sample Size				3		3
	Min of Length (mm)				271		271
	Max of Length (mm)				293		293
	Average of Length (mm)				280		280
	StdDev of Length (mm)				11.5		11.5
<b>Total Sample Size</b>		<b>23</b>	<b>18</b>	<b>6</b>	<b>24</b>	<b>13</b>	<b>84</b>
<b>Total Min of Length (mm)</b>		<b>31</b>	<b>48</b>	<b>61</b>	<b>47</b>	<b>28</b>	<b>28</b>
<b>Total Max of Length (mm)</b>		<b>147</b>	<b>142</b>	<b>135</b>	<b>327</b>	<b>123</b>	<b>327</b>
<b>Total Average of Length (mm)</b>		<b>72.8</b>	<b>72.8</b>	<b>101.7</b>	<b>157.5</b>	<b>76.5</b>	<b>99.7</b>
<b>Total StdDev of Length (mm)</b>		<b>30.8</b>	<b>31.0</b>	<b>34.6</b>	<b>97.6</b>	<b>24.3</b>	<b>68.2</b>

## 2012 Fish Length Summary

Common name	Data	Twin Creek				Chippewa Creek	Total
		SF1	SF5	SF5-6	SF9	SF16	
American brook lamprey	Sample Size	3	1				4
	Min of Length (mm)	68	155				68
	Max of Length (mm)	138	155				155
	Average of Length (mm)	92.3	155.0				108.0
	StdDev of Length (mm)	39.6					45.0
Blacknose dace	Sample Size	20			7	1	28
	Min of Length (mm)	26			28	40	26
	Max of Length (mm)	80			85	40	85
	Average of Length (mm)	53.8			59.0	40.0	54.6
	StdDev of Length (mm)	16.0			19.7		16.7
Brook trout	Sample Size		8	1	3		12
	Min of Length (mm)		50	80	119		50
	Max of Length (mm)		154	80	141		154
	Average of Length (mm)		75.4	80.0	130.7		89.6
	StdDev of Length (mm)		35.7		11.1		38.1
Brown trout	Sample Size	4			1	3	8
	Min of Length (mm)	59			281	62	59
	Max of Length (mm)	152			281	65	281
	Average of Length (mm)	124.8			281.0	63.0	121.1
	StdDev of Length (mm)	44.5				1.7	77.2
Creek chub	Sample Size	1				25	26
	Min of Length (mm)	53				35	35
	Max of Length (mm)	53				92	92
	Average of Length (mm)	53.0				59.6	59.4
	StdDev of Length (mm)					16.8	16.5
Mottled sculpin	Sample Size		3	1	1	8	13
	Min of Length (mm)		49	58	64	28	28
	Max of Length (mm)		69	58	64	71	71
	Average of Length (mm)		61.7	58.0	64.0	47.5	52.8
	StdDev of Length (mm)		11.0			18.2	16.2
White sucker	Sample Size	1				2	3
	Min of Length (mm)	100				88	88
	Max of Length (mm)	100				107	107
	Average of Length (mm)	100.0				97.5	98.3
	StdDev of Length (mm)					13.4	9.6
<b>Total Sample Size</b>		<b>29</b>	<b>12</b>	<b>2</b>	<b>12</b>	<b>39</b>	<b>94</b>
<b>Total Min of Length (mm)</b>		<b>26</b>	<b>49</b>	<b>58</b>	<b>28</b>	<b>28</b>	<b>26</b>
<b>Total Max of Length (mm)</b>		<b>152</b>	<b>155</b>	<b>80</b>	<b>281</b>	<b>107</b>	<b>281</b>
<b>Total Average of Length (mm)</b>		<b>69.1</b>	<b>78.6</b>	<b>69.0</b>	<b>95.8</b>	<b>58.8</b>	<b>69.5</b>
<b>Total StdDev of Length (mm)</b>		<b>34.8</b>	<b>38.1</b>	<b>15.6</b>	<b>68.1</b>	<b>19.0</b>	<b>37.2</b>

## 2013 Fish Length Summary

Common name	Data	Twin Creek				Chippewa Creek	Total
		SF1	SF5	SF5-6	SF9	SF16	
Blacknose dace	Sample Size	30			12	1	43
	Min of Length (mm)	35			52	28	28
	Max of Length (mm)	84			83	28	84
	Average of Length (mm)	66.1			64.8	28.0	64.8
	StdDev of Length (mm)	11.3			9.1		12.0
Brook trout	Sample Size		3	2	6		11
	Min of Length (mm)		52	84	71		52
	Max of Length (mm)		88	146	228		228
	Average of Length (mm)		66.7	115.0	182.2		138.5
	StdDev of Length (mm)		18.9	43.8	59.1		69.4
Brown trout	Sample Size				5	3	8
	Min of Length (mm)				74	58	58
	Max of Length (mm)				197	70	197
	Average of Length (mm)				138.8	64.0	110.8
	StdDev of Length (mm)				44.3	6.0	51.3
Central mudminnow	Sample Size				1		1
	Min of Length (mm)				68		68
	Max of Length (mm)				68		68
	Average of Length (mm)				68		68
Creek chub	Sample Size	3			2	34	39
	Min of Length (mm)	94			96	24	24
	Max of Length (mm)	101			118	98	118
	Average of Length (mm)	97.7			107.0	45.1	52.4
	StdDev of Length (mm)	3.5			15.6	19.9	26.8
Mottled sculpin	Sample Size	1	9	1	3	9	23
	Min of Length (mm)	88	44	60	33	34	33
	Max of Length (mm)	88	72	60	73	79	88
	Average of Length (mm)	88.0	52.9	60.0	58.7	42.8	51.5
	StdDev of Length (mm)		8.8		22.3	15.5	16.2
<b>Total Sample Size</b>		<b>34</b>	<b>12</b>	<b>3</b>	<b>29</b>	<b>47</b>	<b>125</b>
<b>Total Min of Length (mm)</b>		<b>35</b>	<b>44</b>	<b>60</b>	<b>33</b>	<b>24</b>	<b>24</b>
<b>Total Max of Length (mm)</b>		<b>101</b>	<b>88</b>	<b>146</b>	<b>228</b>	<b>98</b>	<b>228</b>
<b>Total Average of Length (mm)</b>		<b>69.5</b>	<b>56.3</b>	<b>96.7</b>	<b>104.2</b>	<b>45.5</b>	<b>67.9</b>
<b>Total StdDev of Length (mm)</b>		<b>14.4</b>	<b>12.6</b>	<b>44.4</b>	<b>58.6</b>	<b>18.9</b>	<b>39.2</b>



## 2015 Fish Length Summary

Common name	Data	Twin Creek				Chippewa Creek	Total
		SF1	SF5	SF5-6	SF9	SF16	
Blacknose dace	Sample Size	14			8		22
	Min of Length (mm)	51			26		26
	Max of Length (mm)	84			87		87
	Average of Length (mm)	68.6			62.9		66.5
	StdDev of Length (mm)	10.3			20.7		14.7
Brook trout	Sample Size	1	1	2	3		7
	Min of Length (mm)	204	54	114	64		54
	Max of Length (mm)	204	54	115	190		204
	Average of Length (mm)	204.0	54.0	114.5	146.3		132.3
	StdDev of Length (mm)			0.7	71.3		61.5
Brown trout	Sample Size				2		2
	Min of Length (mm)				119		119
	Max of Length (mm)				421		421
	Average of Length (mm)				270.0		270.0
	StdDev of Length (mm)				213.5		213.5
Central mudminnow	Sample Size				2		2
	Min of Length (mm)				42		42
	Max of Length (mm)				45		45
	Average of Length (mm)				43.5		43.5
	StdDev of Length (mm)				2.1		2.1
Creek chub	Sample Size	6			1	13	20
	Min of Length (mm)	68			145	30	30
	Max of Length (mm)	124			145	102	145
	Average of Length (mm)	97.5			145.0	56.8	73.4
	StdDev of Length (mm)	23.4				26.4	35.0
Mottled sculpin	Sample Size		9	3	2	1	15
	Min of Length (mm)		47	55	49	93	47
	Max of Length (mm)		86	58	62	93	93
	Average of Length (mm)		59.2	56.7	55.5	93.0	60.5
	StdDev of Length (mm)		14.0	1.5	9.2		14.2
White sucker	Sample Size					1	1
	Min of Length (mm)					92	92
	Max of Length (mm)					92	92
	Average of Length (mm)					92	92
<b>Total Sample Size</b>		<b>21</b>	<b>10</b>	<b>5</b>	<b>18</b>	<b>15</b>	<b>69</b>
<b>Total Min of Length (mm)</b>		<b>51</b>	<b>47</b>	<b>55</b>	<b>26</b>	<b>30</b>	<b>26</b>
<b>Total Max of Length (mm)</b>		<b>204</b>	<b>86</b>	<b>115</b>	<b>421</b>	<b>102</b>	<b>421</b>
<b>Total Average of Length (mm)</b>		<b>83.3</b>	<b>58.7</b>	<b>79.8</b>	<b>101.4</b>	<b>61.5</b>	<b>79.5</b>
<b>Total StdDev of Length (mm)</b>		<b>33.9</b>	<b>13.3</b>	<b>31.7</b>	<b>92.8</b>	<b>27.5</b>	<b>54.7</b>

## 2016 Fish Length Summary

Common name	Data	Twin Creek				Chippewa Creek	Total
		SF1	SF5	SF5-6	SF9	SF16	
American brook lamprey	Sample Size					1	1
	Min of Length (mm)					150	150
	Max of Length (mm)					150	150
	Average of Length (mm)					150	150
Blacknose dace	Sample Size	29		2	9		40
	Min of Length (mm)	46		70	51		46
	Max of Length (mm)	81		75	80		81
	Average of Length (mm)	63.3		72.5	67.1		64.6
	StdDev of Length (mm)	11.7		3.5	11.4		11.4
Brook trout	Sample Size	1	5	2	3		11
	Min of Length (mm)	173	53	77	203		53
	Max of Length (mm)	173	120	112	227		227
	Average of Length (mm)	173.0	74.8	94.5	217.7		126.3
	StdDev of Length (mm)		26.8	24.7	12.9		68.1
Brown trout	Sample Size				2		2
	Min of Length (mm)				200		200
	Max of Length (mm)				334		334
	Average of Length (mm)				267.0		267.0
	StdDev of Length (mm)				94.8		94.8
Central mudminnow	Sample Size	1					1
	Min of Length (mm)	65					65
	Max of Length (mm)	65					65
	Average of Length (mm)	65					65
Creek chub	Sample Size	10			2	36	48
	Min of Length (mm)	56			96	24	24
	Max of Length (mm)	108			96	112	112
	Average of Length (mm)	69.8			96.0	56.9	61.2
	StdDev of Length (mm)	16.2			0.0	22.9	22.8
Mottled sculpin	Sample Size		3	2	10	3	18
	Min of Length (mm)		53	57	26	35	26
	Max of Length (mm)		75	75	91	60	91
	Average of Length (mm)		64.0	66.0	60.6	45.0	59.2
	StdDev of Length (mm)		11.0	12.7	20.3	13.2	17.6
<b>Total Sample Size</b>		<b>41</b>	<b>8</b>	<b>6</b>	<b>26</b>	<b>40</b>	<b>121</b>
<b>Total Min of Length (mm)</b>		<b>46</b>	<b>53</b>	<b>57</b>	<b>26</b>	<b>24</b>	<b>24</b>
<b>Total Max of Length (mm)</b>		<b>173</b>	<b>120</b>	<b>112</b>	<b>334</b>	<b>150</b>	<b>334</b>
<b>Total Average of Length (mm)</b>		<b>67.6</b>	<b>70.8</b>	<b>77.7</b>	<b>99.6</b>	<b>58.3</b>	<b>72.1</b>
<b>Total StdDev of Length (mm)</b>		<b>21.1</b>	<b>21.9</b>	<b>18.3</b>	<b>73.9</b>	<b>26.6</b>	<b>42.4</b>

## 2003 through 2016 Combined Fish Length Summary

Common name	Data	Twin Creek				Chippewa Creek	Total
		SF1	SF5	SF5-6	SF9	SF16	
American brook lamprey	Sample Size	6	2		1	2	11
	Min of Length (mm)	58	132		158	95	58
	Max of Length (mm)	138	155		158	150	158
	Average of Length (mm)	90.2	143.5		158.0	122.5	111.9
	StdDev of Length (mm)	35.2	16.3			38.9	38.9
Blacknose dace	Sample Size	128		2	57	2	189
	Min of Length (mm)	26		70	26	28	26
	Max of Length (mm)	88		75	87	40	88
	Average of Length (mm)	63.1		72.5	61.8	34.0	62.5
	StdDev of Length (mm)	14.6		3.5	14.3	8.5	14.7
Brook trout	Sample Size	3	60	19	33		115
	Min of Length (mm)	74	45	54	53		45
	Max of Length (mm)	204	154	148	228		228
	Average of Length (mm)	150.3	65.9	104.5	157.8		100.9
	StdDev of Length (mm)	67.9	22.4	30.4	56.0		54.9
Brown trout	Sample Size	23			82	24	129
	Min of Length (mm)	51			61	49	49
	Max of Length (mm)	241			421	137	421
	Average of Length (mm)	112.1			193.0	69.7	155.6
	StdDev of Length (mm)	52.6			75.3	19.6	82.2
Central mudminnow	Sample Size	1			4		5
	Min of Length (mm)	65			42		42
	Max of Length (mm)	65			68		68
	Average of Length (mm)	65			53		55.4
	StdDev of Length (mm)				11.9		11.6
Creek chub	Sample Size	29		1	7	215	252
	Min of Length (mm)	53		88	63	24	24
	Max of Length (mm)	129		88	145	151	151
	Average of Length (mm)	84.3		88.0	100.4	59.7	63.8
	StdDev of Length (mm)	22.3			25.4	22.2	24.4
Mottled sculpin	Sample Size	6	36	10	32	32	116
	Min of Length (mm)	64	44	46	26	28	26
	Max of Length (mm)	90	86	75	106	108	108
	Average of Length (mm)	77.0	58.6	59.4	63.2	53.1	59.4
	StdDev of Length (mm)	10.8	10.2	7.5	17.2	20.7	16.4
Pumpkinseed sunfish	Sample Size				2		2
	Min of Length (mm)				76		76
	Max of Length (mm)				85		85
	Average of Length (mm)				80.5		80.5
	StdDev of Length (mm)				6.4		6.4
White sucker	Sample Size	1			4	3	8
	Min of Length (mm)	100			106	88	88
	Max of Length (mm)	100			293	107	293
	Average of Length (mm)	100.0			236.5	95.7	166.6
	StdDev of Length (mm)				87.5	10.0	94.3

## 2003 through 2016 Combined Fish Length Summary (Continued)

Summary Statistics	Twin Creek				Chippewa Creek	Total
	SF1	SF5	SF5-6	SF9	SF16	
Total Sample Size	197	98	32	222	278	827
Total Min of Length (mm)	26	44	46	26	24	24
Total Max of Length (mm)	241	155	148	421	151	421
Total Average of Length (mm)	74.7	64.8	87.9	129.6	60.5	84.0
Total StdDev of Length (mm)	31.1	22.1	31.6	80.9	23.0	55.3

## 2003 Fish Weight Summary

Common name	Data	Twin Creek				Chippewa Creek	Total
		SF1	SF5	SF5-6	SF9	SF16	
American brook lamprey	Sample Size						
	Min of Weight (g)						
	Max of Weight (g)						
	Average of Weight (g)						
	StdDev of Weight (g)						
Blacknose dace	Sample Size				1		1
	Min of Weight (g)				6.3		6.3
	Max of Weight (g)3				6.3		6.3
	Average of Weight (g)				6.3		6.3
Brook trout	Sample Size				1		1
	Min of Weight (g)				5.3		5.3
	Max of Weight (g)				5.3		5.3
	Average of Weight (g)				5.3		5.3
Brown trout	Sample Size	3			33		36
	Min of Weight (g)	20			2		2
	Max of Weight (g)	38			287.5		287.5
	Average of Weight (g)	26.7			71.0		67.3
	StdDev of Weight (g)	9.9			75.6		73.4
Creek chub	Sample Size				1		1
	Min of Weight (g)				6.9		6.9
	Max of Weight (g)				6.9		6.9
	Average of Weight (g)				6.9		6.9
Mottled sculpin	Sample Size				3		3
	Min of Weight (g)				1.3		1.3
	Max of Weight (g)				1.6		1.6
	Average of Weight (g)				1.5		1.5
	StdDev of Weight (g)				0.2		0.2
<b>Total Sample Size</b>		<b>3</b>			<b>39</b>		<b>42</b>
<b>Total Min of Weight (g)</b>		<b>20</b>			<b>1.3</b>		<b>1.3</b>
<b>Total Max of Weight (g)</b>		<b>38</b>			<b>287.5</b>		<b>287.5</b>
<b>Total Average of Weight (g)</b>		<b>26.7</b>			<b>60.7</b>		<b>58.2</b>
<b>Total StdDev of Weight (g)</b>		<b>9.9</b>			<b>73.6</b>		<b>71.4</b>

## 2008 Fish Weight Summary

Common name	Data	Twin Creek				Chippewa Creek	Total
		SF1	SF5	SF5-6	SF9	SF16	
American brook lamprey	Sample Size					1	1
	Min of Weight (g)					2	2
	Max of Weight (g)					2	2
	Average of Weight (g)					2	2
Blacknose dace	Sample Size	4			9		13
	Min of Weight (g)	0.3			1		0.3
	Max of Weight (g)	3.6			2.5		3.6
	Average of Weight (g)	2.6			1.6		1.9
	StdDev of Weight (g)	1.5			0.5		1.0
Brook trout	Sample Size	1	8	2	5		16
	Min of Weight (g)	3.3	0.8	15.6	28.6		0.8
	Max of Weight (g)	3.3	4.1	23.7	97.6		97.6
	Average of Weight (g)	3.3	2.5	19.7	49.9		19.5
	StdDev of Weight (g)		1.0	5.7	28.6		26.5
Brown trout	Sample Size	3			6	5	14
	Min of Weight (g)	19.1			29.7	2	2
	Max of Weight (g)	139.4			233.4	21.9	233.4
	Average of Weight (g)	60.7			142.8	6.4	76.5
	StdDev of Weight (g)	68.2			79.2	8.7	84.4
Creek chub	Sample Size	3			1	43	47
	Min of Weight (g)	2.9			2.3	0.1	0.1
	Max of Weight (g)	20.8			2.3	32.9	32.9
	Average of Weight (g)	9.9			2.3	4.0	4.3
	StdDev of Weight (g)	9.6				5.2	5.6
Mottled sculpin	Sample Size	2	3		4	1	10
	Min of Weight (g)	3	1.8		1.5	2.8	1.5
	Max of Weight (g)	10.5	4.4		7.7	2.8	10.5
	Average of Weight (g)	6.8	3.0		4.1	2.8	4.2
	StdDev of Weight (g)	5.3	1.3		2.8		2.9
Pumpkinseed sunfish	Sample Size				1		1
	Min of Weight (g)				13.1		13.1
	Max of Weight (g)				13.1		13.1
	Average of Weight (g)				13.1		13.1
<b>Total Sample Size</b>		<b>13</b>	<b>11</b>	<b>2</b>	<b>26</b>	<b>50</b>	<b>102</b>
<b>Total Min of Weight (g)</b>		<b>0.3</b>	<b>0.8</b>	<b>15.6</b>	<b>1</b>	<b>0.1</b>	<b>0.1</b>
<b>Total Max of Weight (g)</b>		<b>139.4</b>	<b>4.4</b>	<b>23.7</b>	<b>233.4</b>	<b>32.9</b>	<b>233.4</b>
<b>Total Average of Weight (g)</b>		<b>18.4</b>	<b>2.6</b>	<b>19.7</b>	<b>44.3</b>	<b>4.1</b>	<b>16.3</b>
<b>Total StdDev of Weight (g)</b>		<b>37.2</b>	<b>1.0</b>	<b>5.7</b>	<b>68.9</b>	<b>5.5</b>	<b>40.6</b>

## 2009 Fish Weight Summary

Common name	Data	Twin Creek				Chippewa Creek	Total
		SF1	SF5	SF5-6	SF9	SF16	
American brook lamprey	Sample Size	1			1		2
	Min of Weight (g)	0.5			4.7		0.5
	Max of Weight (g)	0.5			4.7		4.7
	Average of Weight (g)	0.5			4.7		2.6
Blacknose dace	Sample Size	12					12
	Min of Weight (g)	0.7					0.7
	Max of Weight (g)3	5.4					5.4
	Average of Weight (g)	2.9					2.9
	StdDev of Weight (g)	1.7					1.7
Brook trout	Sample Size		4		6		10
	Min of Weight (g)		1.4		2.7		1.4
	Max of Weight (g)		2.4		71.8		71.8
	Average of Weight (g)		1.8		37.3		23.1
	StdDev of Weight (g)		0.5		32.2		30.2
Brown trout	Sample Size	3			10	3	16
	Min of Weight (g)	3			1.8	2.1	1.8
	Max of Weight (g)	33.6			314.3	3.2	314.3
	Average of Weight (g)	18.8			115.2	2.5	76.0
	StdDev of Weight (g)	15.3			96.1	0.6	91.3
Central mudminnow	Sample Size				1		1
	Min of Weight (g)				1.6		1.6
	Max of Weight (g)3				1.6		1.6
	Average of Weight (g)				1.6		1.6
Creek chub	Sample Size	3				36	39
	Min of Weight (g)	3.1				0.1	0.1
	Max of Weight (g)	9.2				8.1	9.2
	Average of Weight (g)	7.0				3.1	3.4
	StdDev of Weight (g)	3.4				1.5	1.9
Mottled sculpin	Sample Size	1	1	1	2	3	8
	Min of Weight (g)	4.4	3.9	2.8	1.4	0.4	0.4
	Max of Weight (g)	4.4	3.9	2.8	6.5	15.3	15.3
	Average of Weight (g)	4.4	3.9	2.8	4.0	6.8	4.9
	StdDev of Weight (g)				3.6	7.7	4.6
Pumpkinseed sunfish	Sample Size				1		1
	Min of Weight (g)				8.5		8.5
	Max of Weight (g)				8.5		8.5
	Average of Weight (g)				8.5		8.5
<b>Total Sample Size</b>		<b>20</b>	<b>5</b>	<b>1</b>	<b>21</b>	<b>42</b>	<b>89</b>
<b>Total Min of Weight (g)</b>		<b>0.5</b>	<b>1.4</b>	<b>2.8</b>	<b>1.4</b>	<b>0.1</b>	<b>0.1</b>
<b>Total Max of Weight (g)</b>		<b>33.6</b>	<b>3.9</b>	<b>2.8</b>	<b>314.3</b>	<b>15.3</b>	<b>314.3</b>
<b>Total Average of Weight (g)</b>		<b>5.9</b>	<b>2.2</b>	<b>2.8</b>	<b>66.6</b>	<b>3.4</b>	<b>18.8</b>
<b>Total StdDev of Weight (g)</b>		<b>7.8</b>	<b>1.0</b>		<b>82.6</b>	<b>2.4</b>	<b>47.8</b>

## 2010 Fish Weight Summary

Common name	Data	Twin Creek				Chippewa Creek	Total
		SF1	SF5	SF5-6	SF9	SF16	
American brook lamprey	Sample Size	1					1
	Min of Weight (g)	0.6					0.6
	Max of Weight (g)	0.6					0.6
	Average of Weight (g)	0.6					0.6
Blacknose dace	Sample Size	2			3		5
	Min of Weight (g)	2.6			0.1		0.1
	Max of Weight (g)	3			6.2		6.2
	Average of Weight (g)	2.8			3.7		3.3
	StdDev of Weight (g)	0.3			3.2		2.3
Brook trout	Sample Size		7	3	4		14
	Min of Weight (g)		0.9	5.1	0.5		0.5
	Max of Weight (g)		3.4	31.7	74.7		74.7
	Average of Weight (g)		2.0	17.2	26.3		12.2
	StdDev of Weight (g)		0.8	13.5	34.3		20.5
Brown trout	Sample Size				13	5	18
	Min of Weight (g)				2.8	1.4	1.4
	Max of Weight (g)				230.3	3.3	230.3
	Average of Weight (g)				79.5	2.5	58.1
	StdDev of Weight (g)				66.8	0.8	66.4
Creek chub	Sample Size	1				18	19
	Min of Weight (g)	4.6				0.2	0.2
	Max of Weight (g)	4.6				8.3	8.3
	Average of Weight (g)	4.6				2.7	2.8
	StdDev of Weight (g)					3.0	2.9
Mottled sculpin	Sample Size	1	3	1	5	5	15
	Min of Weight (g)	3.7	0.9	1.2	2.7	0.3	0.3
	Max of Weight (g)	3.7	4	1.2	16.7	4.5	16.7
	Average of Weight (g)	3.7	2.3	1.2	7.6	2.7	4.2
	StdDev of Weight (g)		1.6		5.6	1.5	4.0
White sucker	Sample Size				1		1
	Min of Weight (g)				11		11
	Max of Weight (g)				11		11
	Average of Weight (g)				11		11
<b>Total Sample Size</b>		<b>5</b>	<b>10</b>	<b>4</b>	<b>26</b>	<b>28</b>	<b>73</b>
<b>Total Min of Weight (g)</b>		<b>0.6</b>	<b>0.9</b>	<b>1.2</b>	<b>0.1</b>	<b>0.2</b>	<b>0.1</b>
<b>Total Max of Weight (g)</b>		<b>4.6</b>	<b>4</b>	<b>31.7</b>	<b>230.3</b>	<b>8.3</b>	<b>230.3</b>
<b>Total Average of Weight (g)</b>		<b>2.9</b>	<b>2.1</b>	<b>13.2</b>	<b>46.1</b>	<b>2.7</b>	<b>18.6</b>
<b>Total StdDev of Weight (g)</b>		<b>1.5</b>	<b>1.0</b>	<b>13.6</b>	<b>59.1</b>	<b>2.5</b>	<b>40.7</b>



## 2011 Fish Weight Summary

Common name	Data	Twin Creek				Chippewa Creek	Total
		SF1	SF5	SF5-6	SF9	SF16	
American brook lamprey	Sample Size	1	1				2
	Min of Weight (g)	4.2	4.6				4.2
	Max of Weight (g)	4.2	4.6				4.6
	Average of Weight (g)	4.2	4.6				4.4
	StdDev of Weight (g)						0.3
Blacknose dace	Sample Size	17			8		25
	Min of Weight (g)	0.3			0.9		0.3
	Max of Weight (g)	6.3			2.5		6.3
	Average of Weight (g)	3.0			1.7		2.6
	StdDev of Weight (g)	2.4			0.5		2.0
Brook trout	Sample Size		12	4	2		18
	Min of Weight (g)		1.1	1.8	51.1		1.1
	Max of Weight (g)		27.6	20.9	88.6		88.6
	Average of Weight (g)		6.3	15.5	69.9		15.4
	StdDev of Weight (g)		8.9	9.2	26.5		22.7
Brown trout	Sample Size	2			9	2	13
	Min of Weight (g)	2.8			22.1	2.1	2.1
	Max of Weight (g)	29.3			319.8	15.5	319.8
	Average of Weight (g)	16.1			117.2	8.8	84.9
	StdDev of Weight (g)	18.7			98.5	9.5	95.1
Creek chub	Sample Size	2		1		9	12
	Min of Weight (g)	5.6		6.4		0.1	0.1
	Max of Weight (g)	14.3		6.4		11.8	14.3
	Average of Weight (g)	10.0		6.4		4.5	5.6
	StdDev of Weight (g)	6.2				3.4	4.0
Mottled sculpin	Sample Size	1	5	1	2	2	11
	Min of Weight (g)	6.7	1.9	2.9	1.4	4.4	1.4
	Max of Weight (g)	6.7	2.9	2.9	4.1	4.6	6.7
	Average of Weight (g)	6.7	2.3	2.9	2.8	4.5	3.2
	StdDev of Weight (g)		0.4		1.9	0.1	1.6
White sucker	Sample Size				3		3
	Min of Weight (g)				206.9		206.9
	Max of Weight (g)				259.4		259.4
	Average of Weight (g)				228.6		228.6
	StdDev of Weight (g)				27.4		27.4
<b>Total Sample Size</b>		<b>23</b>	<b>18</b>	<b>6</b>	<b>24</b>	<b>13</b>	<b>84</b>
<b>Total Min of Weight (g)</b>		<b>0.3</b>	<b>1.1</b>	<b>1.8</b>	<b>0.9</b>	<b>0.1</b>	<b>0.1</b>
<b>Total Max of Weight (g)</b>		<b>29.3</b>	<b>27.6</b>	<b>20.9</b>	<b>319.8</b>	<b>15.5</b>	<b>319.8</b>
<b>Total Average of Weight (g)</b>		<b>4.9</b>	<b>5.1</b>	<b>11.9</b>	<b>79.1</b>	<b>5.2</b>	<b>26.7</b>
<b>Total StdDev of Weight (g)</b>		<b>6.2</b>	<b>7.4</b>	<b>9.1</b>	<b>97.7</b>	<b>4.2</b>	<b>61.6</b>

## 2012 Fish Weight Summary

Common name	Data	Twin Creek				Chippewa Creek	Total
		SF1	SF5	SF5-6	SF9	SF16	
American brook lamprey	Sample Size	3	1				4
	Min of Weight (g)	0.7	5.3				0.7
	Max of Weight (g)	4.3	5.3				5.3
	Average of Weight (g)	2.1	5.3				2.9
	StdDev of Weight (g)	1.9					2.2
Blacknose dace	Sample Size	20			7	1	28
	Min of Weight (g)	0.1			0.1	0.6	0.1
	Max of Weight (g)	4.8			5.9	0.6	5.9
	Average of Weight (g)	1.6			2.3	0.6	1.7
	StdDev of Weight (g)	1.3			1.9		1.4
Brook trout	Sample Size		8	1	3		12
	Min of Weight (g)		1.2	4.5	13		1.2
	Max of Weight (g)		34.4	4.5	24.2		34.4
	Average of Weight (g)		6.9	4.5	20.0		10.0
	StdDev of Weight (g)		11.5		6.1		11.3
Brown trout	Sample Size	4			1	3	8
	Min of Weight (g)	1.8			201.5	2	1.8
	Max of Weight (g)	29.7			201.5	2.5	201.5
	Average of Weight (g)	20.4			201.5	2.2	36.2
	StdDev of Weight (g)	13.0				0.3	67.9
Creek chub	Sample Size	1				25	26
	Min of Weight (g)	1.3				0.3	0.3
	Max of Weight (g)	1.3				6.3	6.3
	Average of Weight (g)	1.3				2.3	2.2
	StdDev of Weight (g)					1.7	1.7
Mottled sculpin	Sample Size		3	1	1	8	13
	Min of Weight (g)		1.5	3	3	0.1	0.1
	Max of Weight (g)		4.9	3	3	4.6	4.9
	Average of Weight (g)		3.3	3.0	3.0	1.8	2.3
	StdDev of Weight (g)		1.7			1.8	1.7
White sucker	Sample Size	1				2	3
	Min of Weight (g)	9.2				6.1	6.1
	Max of Weight (g)	9.2				11.8	11.8
	Average of Weight (g)	9.2				9.0	9.0
	StdDev of Weight (g)					4.0	2.9
<b>Total Sample Size</b>		<b>29</b>	<b>12</b>	<b>2</b>	<b>12</b>	<b>39</b>	<b>94</b>
<b>Total Min of Weight (g)</b>		<b>0.1</b>	<b>1.2</b>	<b>3</b>	<b>0.1</b>	<b>0.1</b>	<b>0.1</b>
<b>Total Max of Weight (g)</b>		<b>29.7</b>	<b>34.4</b>	<b>4.5</b>	<b>201.5</b>	<b>11.8</b>	<b>201.5</b>
<b>Total Average of Weight (g)</b>		<b>4.5</b>	<b>5.9</b>	<b>3.8</b>	<b>23.4</b>	<b>2.5</b>	<b>6.2</b>
<b>Total StdDev of Weight (g)</b>		<b>8.0</b>	<b>9.4</b>	<b>1.1</b>	<b>56.7</b>	<b>2.3</b>	<b>21.4</b>

## 2013 Fish Weight Summary

Common name	Data	Twin Creek				Chippewa Creek	Total
		SF1	SF5	SF5-6	SF9	SF16	
Blacknose dace	Sample Size	30			12	1	43
	Min of Weight (g)	0.3			0.8	0.1	0.1
	Max of Weight (g)	5.4			5	0.1	5.4
	Average of Weight (g)	2.8			2.5	0.1	2.6
	StdDev of Weight (g)	1.3			1.2		1.3
Brook trout	Sample Size		3	2	6		11
	Min of Weight (g)		1.2	5	3.2		1.2
	Max of Weight (g)		5.8	31.8	128.7		128.7
	Average of Weight (g)		3.0	18.4	69.1		41.8
	StdDev of Weight (g)		2.5	19.0	44.0		44.9
Brown trout	Sample Size				5	3	8
	Min of Weight (g)				3.3	1.5	1.5
	Max of Weight (g)				66.2	3	66.2
	Average of Weight (g)				28.9	2.2	18.9
	StdDev of Weight (g)				23.3	0.8	22.4
Central mudminnow	Sample Size				1		1
	Min of Weight (g)				3.1		3.1
	Max of Weight (g)				3.1		3.1
	Average of Weight (g)				3.1		3.1
Creek chub	Sample Size	3			2	34	39
	Min of Weight (g)	6.9			7.4	0.1	0.1
	Max of Weight (g)	8.5			14.1	8.7	14.1
	Average of Weight (g)	7.9			10.8	1.3	2.3
	StdDev of Weight (g)	0.9			4.7	2.0	3.4
Mottled sculpin	Sample Size	1	9	1	3	9	23
	Min of Weight (g)	9	0.9	1.9	0.3	0.2	0.2
	Max of Weight (g)	9	3.7	1.9	4.5	7.1	9
	Average of Weight (g)	9.0	1.6	1.9	3.0	1.2	2.0
	StdDev of Weight (g)		0.9		2.3	2.3	2.3
<b>Total Sample Size</b>		<b>34</b>	<b>12</b>	<b>3</b>	<b>29</b>	<b>47</b>	<b>125</b>
<b>Total Min of Weight (g)</b>		<b>0.3</b>	<b>0.9</b>	<b>1.9</b>	<b>0.3</b>	<b>0.1</b>	<b>0.1</b>
<b>Total Max of Weight (g)</b>		<b>9</b>	<b>5.8</b>	<b>31.8</b>	<b>128.7</b>	<b>8.7</b>	<b>128.7</b>
<b>Total Average of Weight (g)</b>		<b>3.4</b>	<b>2.0</b>	<b>12.9</b>	<b>21.5</b>	<b>1.3</b>	<b>6.9</b>
<b>Total StdDev of Weight (g)</b>		<b>2.2</b>	<b>1.4</b>	<b>16.4</b>	<b>33.7</b>	<b>2.0</b>	<b>18.2</b>

## 2015 Fish Weight Summary

Common name	Data	Twin Creek				Chippewa Creek	Total
		SF1	SF5	SF5-6	SF9	SF16	
Blacknose dace	Sample Size	14			8		22
	Min of Weight (g)	1.3			0.2		0.2
	Max of Weight (g) <sup>3</sup>	5.6			6.2		6.2
	Average of Weight (g)	3.2			3.0		3.2
	StdDev of Weight (g)	1.3			2.3		1.7
Brook trout	Sample Size	1	1	2	3		7
	Min of Weight (g)	75.4	1.8	11	2.4		1.8
	Max of Weight (g)	75.4	1.8	14.5	63.3		75.4
	Average of Weight (g)	75.4	1.8	12.8	42.1		32.7
	StdDev of Weight (g)			2.5	34.4		32.2
Brown trout	Sample Size				2		2
	Min of Weight (g)				15.7		15.7
	Max of Weight (g)				672.5		672.5
	Average of Weight (g)				344.1		344.1
	StdDev of Weight (g)				464.4		464.4
Central mudminnow	Sample Size				2		2
	Min of Weight (g)				0.8		0.8
	Max of Weight (g)				0.9		0.9
	Average of Weight (g)				0.9		0.9
	StdDev of Weight (g)				0.1		0.1
Creek chub	Sample Size	6			1	13	20
	Min of Weight (g)	2.7			29.4	0.4	0.4
	Max of Weight (g)	16.9			29.4	10.4	29.4
	Average of Weight (g)	9.7			29.4	2.8	6.2
	StdDev of Weight (g)	5.9				3.4	7.5
Mottled sculpin	Sample Size		9	3	2	1	15
	Min of Weight (g)		0.8	1.5	1.3	11	0.8
	Max of Weight (g)		8.2	1.9	2.8	11	11
	Average of Weight (g)		2.8	1.8	2.1	11.0	3.0
	StdDev of Weight (g)		2.4	0.2	1.1		2.9
White sucker	Sample Size					1	1
	Min of Weight (g)					6.2	6.2
	Max of Weight (g)					6.2	6.2
	Average of Weight (g)					6.2	6.2
<b>Total Sample Size</b>		<b>21</b>	<b>10</b>	<b>5</b>	<b>18</b>	<b>15</b>	<b>69</b>
<b>Total Min of Weight (g)</b>		<b>1.3</b>	<b>0.8</b>	<b>1.5</b>	<b>0.2</b>	<b>0.4</b>	<b>0.2</b>
<b>Total Max of Weight (g)</b>		<b>75.4</b>	<b>8.2</b>	<b>14.5</b>	<b>672.5</b>	<b>11</b>	<b>672.5</b>
<b>Total Average of Weight (g)</b>		<b>8.5</b>	<b>2.7</b>	<b>6.2</b>	<b>48.6</b>	<b>3.6</b>	<b>16.9</b>
<b>Total StdDev of Weight (g)</b>		<b>15.9</b>	<b>2.3</b>	<b>6.1</b>	<b>156.9</b>	<b>3.9</b>	<b>81.3</b>

## 2016 Fish Weight Summary

Common name	Data	Twin Creek				Chippewa Creek	Total
		SF1	SF5	SF5-6	SF9	SF16	
American brook lamprey	Sample Size					1	1
	Min of Weight (g)					5.9	5.9
	Max of Weight (g)					5.9	5.9
	Average of Weight (g)					5.9	5.9
Blacknose dace	Sample Size	29		2	9		40
	Min of Weight (g)	0.1		3.3	1.6		0.1
	Max of Weight (g)	4.6		4.3	5.4		5.4
	Average of Weight (g)	2.3		3.8	3.4		2.6
	StdDev of Weight (g)	1.3		0.7	1.5		1.4
Brook trout	Sample Size	1	5	2	3		11
	Min of Weight (g)	56.3	1.2	3.9	70.1		1.2
	Max of Weight (g)	56.3	16.8	14.3	117.6		117.6
	Average of Weight (g)	56.3	5.2	9.1	99.7		36.3
	StdDev of Weight (g)		6.6	7.4	25.8		45.1
Brown trout	Sample Size				2		2
	Min of Weight (g)				65.3		65.3
	Max of Weight (g)				349.8		349.8
	Average of Weight (g)				207.6		207.6
	StdDev of Weight (g)				201.2		201.2
Central mudminnow	Sample Size	1					1
	Min of Weight (g)	3.3					3.3
	Max of Weight (g)	3.3					3.3
	Average of Weight (g)	3.3					3.3
Creek chub	Sample Size	10			2	35	47
	Min of Weight (g)	1.3			8.3	0	0
	Max of Weight (g)	11.1			8.5	12.3	12.3
	Average of Weight (g)	3.4			8.4	2.4	2.9
	StdDev of Weight (g)	3.1			0.1	2.6	2.9
Mottled sculpin	Sample Size		3	2	10	3	18
	Min of Weight (g)		1.7	2.3	0.1	0.3	0.1
	Max of Weight (g)		5	4.5	10.1	2.5	10.1
	Average of Weight (g)		3.3	3.4	3.8	1.2	3.3
	StdDev of Weight (g)		1.7	1.6	3.1	1.2	2.6
<b>Total Sample Size</b>		<b>41</b>	<b>8</b>	<b>6</b>	<b>26</b>	<b>39</b>	<b>120</b>
<b>Total Min of Weight (g)</b>		<b>0.1</b>	<b>1.2</b>	<b>2.3</b>	<b>0.1</b>	<b>0</b>	<b>0</b>
<b>Total Max of Weight (g)</b>		<b>56.3</b>	<b>16.8</b>	<b>14.3</b>	<b>349.8</b>	<b>12.3</b>	<b>349.8</b>
<b>Total Average of Weight (g)</b>		<b>3.9</b>	<b>4.5</b>	<b>5.4</b>	<b>30.8</b>	<b>2.4</b>	<b>9.4</b>
<b>Total StdDev of Weight (g)</b>		<b>8.6</b>	<b>5.1</b>	<b>4.4</b>	<b>73.1</b>	<b>2.6</b>	<b>35.8</b>

## 2003 through 2016 Combined Fish Weight Summary

Common name	Data	Twin Creek				Chippewa Creek	Total
		SF1	SF16	SF5	SF5-6	SF9	
American brook lamprey	Sample Size	6	2	2		1	11
	Min of Weight (g)	0.5	2	4.6		4.7	0.5
	Max of Weight (g)	4.3	5.9	5.3		4.7	5.9
	Average of Weight (g)	2.0	4.0	5.0		4.7	3.1
	StdDev of Weight (g)	1.8	2.8	0.5			2.1
Blacknose dace	Sample Size	128	2		2	57	189
	Min of Weight (g)	0.1	0.1		3.3	0.1	0.1
	Max of Weight (g)	6.3	0.6		4.3	6.3	6.3
	Average of Weight (g)	2.56	0.35		3.80	2.56	2.55
	StdDev of Weight (g)	1.56	0.35		0.71	1.68	1.60
Brook trout	Sample Size	3		48	16	33	100
	Min of Weight (g)	3.3		0.8	1.8	0.5	0.5
	Max of Weight (g)	75.4		34.4	31.8	128.7	128.7
	Average of Weight (g)	45.0		4.4	14.9	49.2	22.1
	StdDev of Weight (g)	37.4		6.8	9.4	37.3	30.6
Brown trout	Sample Size	15	21			81	117
	Min of Weight (g)	1.8	1.4			1.8	1.4
	Max of Weight (g)	139.4	21.9			672.5	672.5
	Average of Weight (g)	28.8	3.9			97.4	71.8
	StdDev of Weight (g)	32.5	5.0			106.9	97.7
Central mudminnow	Sample Size	1				4	5
	Min of Weight (g)	3.3				0.8	0.8
	Max of Weight (g)	3.3				3.1	3.3
	Average of Weight (g)	3.3				1.6	1.9
	StdDev of Weight (g)					1.1	1.2
Creek chub	Sample Size	29	213		1	7	250
	Min of Weight (g)	1.3	0		6.4	2.3	0
	Max of Weight (g)	20.8	32.9		6.4	29.4	32.9
	Average of Weight (g)	6.6	2.8		6.4	11.0	3.5
	StdDev of Weight (g)	5.2	3.2			8.8	4.1
Mottled sculpin	Sample Size	6	32	36	10	32	116
	Min of Weight (g)	3	0.1	0.8	1.2	0.1	0.1
	Max of Weight (g)	10.5	15.3	8.2	4.5	16.7	16.7
	Average of Weight (g)	6.2	2.7	2.5	2.4	4.0	3.1
	StdDev of Weight (g)	3.0	3.4	1.6	1.0	3.4	2.9
Pumpkinseed sunfish	Sample Size					2	2
	Min of Weight (g)					8.5	8.5
	Max of Weight (g)					13.1	13.1
	Average of Weight (g)					10.8	10.8
	StdDev of Weight (g)					3.3	3.3
White sucker	Sample Size	1	3			4	8
	Min of Weight (g)	9.2	6.1			11	6.1
	Max of Weight (g)	9.2	11.8			259.4	259.4
	Average of Weight (g)	9.2	8.0			174.2	91.3
	StdDev of Weight (g)		3.3			111.1	114.7

## 2003 through 2016 Combined Fish Weight Summary (Continued)

Summary Statistics	Twin Creek				Chippewa Creek	Total
	SF1	SF16	SF5	SF5-6	SF9	
Total Sample Size	189	273	86	29	221	798
Total Min of Weight (g)	0.1	0	0.8	1.2	0.1	0
Total Max of Weight (g)	139.4	32.9	34.4	31.8	672.5	672.5
Total Average of Weight (g)	6.1	2.9	3.6	9.5	47.9	16.4
Total StdDev of Weight (g)	13.2	3.4	5.3	9.2	81.5	47.6