



Water: Horsehead Lake

County T/R/S: Mecosta

Watershed: Little Muskegon

15N 08W 22

Survey begin: 07/01/2017 end: 08/31/2017

Status: Field Work Completed

Survey purpose: Discretionary survey

| | | |
|--------------------|-----------|-------------|
| No. gear used 1 | Gear type | Common name |
| | ANGLING | Angling |

| Species / Age | No. aged | Length range (in.) | State avg. length (in.) | Weighted mean len. (in.) | Weighted age freq. | Mean growth index* |
|----------------------|----------|--------------------|-------------------------|--------------------------|--------------------|--------------------|
| Black crappie | | | | | | -- |
| Age II: | 1 | 7.60-7.60 | 6.5 | 7.60 | 33.33% | |
| Age III: | 2 | 5.50-6.00 | 7.9 | 5.75 | 66.67% | |
| Bluegill | | | | | | +0.3 |
| Age III: | 7 | 4.50-7.00 | 5.3 | 5.17 | 52.78% | |
| Age IV: | 7 | 6.00-8.10 | 6.2 | 6.78 | 47.22% | |
| Pumpkinseed | | | | | | +0.7 |
| Age II: | 3 | 6.90-8.10 | 4.2 | 7.50 | 10.00% | |
| Age III: | 15 | 4.00-7.25 | 5.2 | 5.78 | 50.00% | |
| Age IV: | 11 | 4.60-8.10 | 5.8 | 6.62 | 36.67% | |
| Age V: | 1 | 6.00-6.00 | 6.3 | 6.00 | 3.33% | |
| Rock bass | | | | | | -- |
| Age V: | 1 | 9.40-9.40 | 7.2 | 9.40 | 50.00% | |
| Age VI: | 1 | 9.25-9.25 | 8.1 | 9.25 | 50.00% | |
| Walleye | | | | | | -- |
| Age III: | 1 | 21.25-21.25 | 14.4 | 21.25 | 50.00% | |
| Age IV: | 1 | 18.00-18.00 | 16.2 | 18.00 | 50.00% | |
| Warmouth | | | | | | -- |
| Age II: | 1 | 4.10-4.10 | 4.4 | 4.10 | 100.00% | |
| Yellow Perch | | | | | | -- |
| Age II: | 1 | 7.25-7.25 | 5.7 | 7.25 | 12.50% | |
| Age III: | 3 | 4.25-5.25 | 6.8 | 4.84 | 37.50% | |
| Age IV: | 2 | 6.00-8.25 | 7.8 | 7.13 | 25.00% | |
| Age V: | 1 | 8.50-8.50 | 8.7 | 8.50 | 12.50% | |
| Age VI: | 1 | 13.50-13.50 | 9.7 | 13.50 | 12.50% | |

| Species | Inch group | Age class | No. aged | Avg. length (in.) | Pct. of inch group |
|------------------------------------|------------|-----------|----------|-------------------|--------------------|
| Black crappie | 5 | III | 1 | 5.50 | 100.00 |
| Black crappie | 6 | III | 1 | 6.00 | 100.00 |
| Black crappie | 7 | II | 1 | 7.60 | 100.00 |
| (samples from 5.5-7.6 in.) Totals: | | | 3 | | |
| Bluegill | 4 | III | 3 | 4.67 | 100.00 |
| Bluegill | 5 | III | 2 | 5.13 | 100.00 |
| Bluegill | 6 | III | 1 | 6.00 | 16.67 |

* Mean growth index is the average deviation from the state average length at age.



| Species | Inch group | Age class | No. aged | Avg. length (in.) | Pct. of inch group |
|--------------------------------------|------------|-----------|----------|-------------------|--------------------|
| Bluegill | 6 | IV | 5 | 6.40 | 83.33 |
| Bluegill | 7 | III | 1 | 7.00 | 50.00 |
| Bluegill | 7 | IV | 1 | 7.25 | 50.00 |
| Bluegill | 8 | IV | 1 | 8.10 | 100.00 |
| (samples from 4.5-8.1 in.) Totals: | | | 14 | | |
| Pumpkinseed | 4 | III | 3 | 4.50 | 75.00 |
| Pumpkinseed | 4 | IV | 1 | 4.60 | 25.00 |
| Pumpkinseed | 5 | III | 5 | 5.22 | 83.33 |
| Pumpkinseed | 5 | IV | 1 | 5.00 | 16.67 |
| Pumpkinseed | 6 | II | 1 | 6.90 | 10.00 |
| Pumpkinseed | 6 | III | 4 | 6.33 | 40.00 |
| Pumpkinseed | 6 | IV | 4 | 6.55 | 40.00 |
| Pumpkinseed | 6 | V | 1 | 6.00 | 10.00 |
| Pumpkinseed | 7 | II | 1 | 7.50 | 12.50 |
| Pumpkinseed | 7 | III | 3 | 7.25 | 37.50 |
| Pumpkinseed | 7 | IV | 4 | 7.23 | 50.00 |
| Pumpkinseed | 8 | II | 1 | 8.10 | 50.00 |
| Pumpkinseed | 8 | IV | 1 | 8.10 | 50.00 |
| (samples from 4-8.1 in.) Totals: | | | 30 | | |
| Rock bass | 9 | V | 1 | 9.40 | 50.00 |
| Rock bass | 9 | VI | 1 | 9.25 | 50.00 |
| (samples from 9.25-9.4 in.) Totals: | | | 2 | | |
| Walleye | 18 | IV | 1 | 18.00 | 100.00 |
| Walleye | 21 | III | 1 | 21.25 | 100.00 |
| (samples from 18-21.25 in.) Totals: | | | 2 | | |
| Warmouth | 4 | II | 1 | 4.10 | 100.00 |
| (samples from 4.1-4.1 in.) Totals: | | | 1 | | |
| Yellow Perch | 4 | III | 1 | 4.25 | 100.00 |
| Yellow Perch | 5 | III | 2 | 5.13 | 100.00 |
| Yellow Perch | 6 | IV | 1 | 6.00 | 100.00 |
| Yellow Perch | 7 | II | 1 | 7.25 | 100.00 |
| Yellow Perch | 8 | IV | 1 | 8.25 | 50.00 |
| Yellow Perch | 8 | V | 1 | 8.50 | 50.00 |
| Yellow Perch | 13 | VI | 1 | 13.50 | 100.00 |
| (samples from 4.25-13.5 in.) Totals: | | | 8 | | |

* Mean growth index is the average deviation from the state average length at age.



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|--------------------|-----------|-------------|
| No. gear used 1 | Gear type | Common name |
| | ANGLING | Angling |

| Species | Number | Percent by number | Weight (lb.) | Percent by weight | Length range (in.)* | Average length (in.) | Percent legal size** |
|---------------------|-----------|----------------------|-----------------|----------------------|---------------------------|----------------------------|----------------------------|
| Black crappie | 3 | 5.2 | 0.4 | 2.4 | 5-7 | | 33 |
| | 3 | 5.2 | 0.4 | 2.4 | 5-7 | 6.5 | 33 |
| Bluegill | 12 | 20.7 | 2.1 | 11.2 | 4-8 | | 58 |
| | 12 | 20.7 | 2.1 | 11.2 | 4-8 | 6.1 | 58 |
| Pumpkinseed | 30 | 51.7 | 7.2 | 39.1 | 4-8 | | 67 |
| | 30 | 51.7 | 7.2 | 39.1 | 4-8 | 6.4 | 67 |
| Rock bass | 2 | 3.4 | 1.3 | 7.0 | 9-9 | | 100 |
| | 2 | 3.4 | 1.3 | 7.0 | 9-9 | 9.5 | 100 |
| Walleye | 2 | 3.4 | 5.3 | 28.7 | 18-21 | | 100 |
| | 2 | 3.4 | 5.3 | 28.7 | 18-21 | 20.0 | 100 |
| Warmouth | 1 | 1.7 | 0.1 | 0.4 | 4-4 | | 0 |
| | 1 | 1.7 | 0.1 | 0.4 | 4-4 | 4.5 | 0 |
| Yellow Perch | 8 | 13.8 | 2.1 | 11.3 | 4-13 | | 50 |
| | 8 | 13.8 | 2.1 | 11.3 | 4-13 | 7.5 | 50 |
| All species totals: | 58 | | 18.5 | | | | |

* Note some fish may be measured to 0.1 inch, others to inch group: e.g., "5" = 5.0 to 5.9 inches; "12" = 12.0 to 12.9 inches; etc.

** Percent legal or acceptable size for angling.

