*Chautauqua Lake SAV Survey Results*
*June 2025*

*Tables and Figures*

**Table 1:** Relative abundance ratings assigned to retrieved rakes at survey points as described in previous survey reporting by NCSU and Solitude Lake Management (2019):

| **Rating** | **Description** |
|---|---|
| None (0) | No plants on rake |
| Trace (T) | Few plants on rake |
| Sparse (S) | Rake up to half full of plants |
| Moderate (M) | Rake more than half full of plants |
| Dense (D) | Rake at maximum capacity; difficult to retrieve |

**Table 2:** Submersed aquatic vegetation (SAV) species recorded during the June 2025 survey of Chautauqua Lake. Non-native species are marked in red.

*Survey Summary*

| SPECIES PRESENT | | TOTAL | | TRACE | | SPARSE | | MODERATE | | DENSE | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **COMMON NAME** | ***SCIENTIFIC NAME*** | **#** | **%** | **#** | **%** | **#** | **%** | **#** | **%** | **#** | **%** |
| TOTAL SURVEYED SITES | | 563 | | | | | | | | | |
| TOTAL VEGETATED SITES | | 533 | 95% | 95 | 18% | 235 | 44% | 160 | 30% | 43 | 8% |
| CURLY-LEAF PONDWEED | *POTAMOGETON CRISPUS* | 421 | 75% | 293 | 70% | 88 | 21% | 34 | 8% | 6 | 1% |
| WESTERN WATERWEED | *ELODEA NUTALLI* | 404 | 72% | 288 | 71% | 83 | 21% | 27 | 7% | 6 | 1% |
| EURASIAN WATER MILFOIL | *MYRIOPHYLLUM SPICATUM* | 402 | 71% | 283 | 70% | 81 | 20% | 35 | 9% | 3 | 1% |
| COONTAIL | *CERATOPHYLLUM DEMERSUM* | 137 | 24% | 128 | 93% | 9 | 7% | 0 | 0% | 0 | 0% |
| WATER STARGRASS | *HETERANTHERA DUBIA* | 82 | 15% | 81 | 99% | 1 | 1% | 0 | 0% | 0 | 0% |
| IVY-LEAVED DUCKWEED | *LEMNA TRISULCA* | 68 | 12% | 65 | 96% | 3 | 4% | 0 | 0% | 0 | 0% |
| COMMON WATERWEED | *ELODEA CANADENSIS* | 56 | 10% | 50 | 89% | 6 | 11% | 0 | 0% | 0 | 0% |
| LEAFY PONDWEED | *POTAMOGETON FOLIOSUS* | 51 | 9% | 50 | 98% | 1 | 2% | 0 | 0% | 0 | 0% |
| SLENDER NAIAD | *NAJAS FLEXILIS* | 17 | 3% | 17 | 100% | 0 | 0% | 0 | 0% | 0 | 0% |
| WILD CELERY | *VALLISNERIA AMERICANA* | 10 | 2% | 10 | 100% | 0 | 0% | 0 | 0% | 0 | 0% |
| SAGO PONDWEED | *STUCKENIA PECTINATA* | 7 | 1% | 4 | 57% | 3 | 43% | 0 | 0% | 0 | 0% |
| NORTHERN WATERMILFOIL | *MYRIOPHYLLUM SIBERICUM* | 5 | 1% | 5 | 100% | 0 | 0% | 0 | 0% | 0 | 0% |
| WHITESTEM PONDWEED | *POTAMOGETON PRAELONGUS* | 3 | 1% | 2 | 67% | 1 | 33% | 0 | 0% | 0 | 0% |
| STARRY STONEWORT | *NITELLOPSIS OBTUSA* | 1 | 0% | 1 | 100% | 0 | 0% | 0 | 0% | 0 | 0% |
| FILAMENTOUS ALGAE | *VARIOUS SPECIES* | 106 | 19% | | | | | | | | |
| BENTHIC FILAMENTOUS ALGAE | *LYNGBYA SPP.* | 40 | 7% | | | | | | | | |
| YELLOW WATER LILY | *NUPHAR VARIGATA* | 6 | 1% | | | | | | | | |
| WHITE WATER LILY | *NYMPHAEA ODORATA* | 2 | 0% | | | | | | | | |

**Table 3:** Mean water quality measurements recorded Chautauqua Lake at the time of survey. Sample point locations are provided in Figure 2.

| Parameter | Result |
|---|---|
| Sites Sampled | 15 |
| Site Depth (m) | 2.3 |
| Temp (C) | 18.4 |
| pH | 8.5 |
| Conductivity | 215.5 |
| D.O. (mg/L) | 10.7 |
| D.O. (% Sat) | 109.3 |
| Chlorolphyll *a* (ppb) | 2.5 |
| Secchi Depth (m) | 2.0 |

**Table 4:** Submersed aquatic vegetation (SAV) recorded in the Town of Ellery during the June 2025 survey of Chautauqua Lake. Non-native species are marked in red.

*Town of Ellery*

| SPECIES PRESENT | | TOTAL | | TRACE | | SPARSE | | MODERATE | | DENSE | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **COMMON NAME** | ***SCIENTIFIC NAME*** | **#** | **%** | **#** | **%** | **#** | **%** | **#** | **%** | **#** | **%** |
| TOTAL SURVEYED SITES | | 237 | | | | | | | | | |
| TOTAL VEGETATED SITES | | 220 | 93% | 40 | 18% | 93 | 42% | 71 | 32% | 16 | 7% |
| EURASIAN WATER MILFOIL | *MYRIOPHYLLUM SPICATUM* | 174 | 73% | 108 | 62% | 46 | 26% | 17 | 10% | 3 | 2% |
| CURLY-LEAF PONDWEED | *POTAMOGETON CRISPUS* | 172 | 73% | 109 | 63% | 43 | 25% | 15 | 9% | 5 | 3% |
| WESTERN WATERWEED | *ELODEA NUTALLI* | 161 | 68% | 124 | 77% | 28 | 17% | 9 | 6% | 0 | 0% |
| COONTAIL | *CERATOPHYLLUM DEMERSUM* | 41 | 17% | 38 | 93% | 3 | 7% | 0 | 0% | 0 | 0% |
| WATER STARGRASS | *HETERANTHERA DUBIA* | 33 | 14% | 32 | 97% | 1 | 3% | 0 | 0% | 0 | 0% |
| IVY-LEAVED DUCKWEED | *LEMNA TRISULCA* | 22 | 9% | 22 | 100% | 0 | 0% | 0 | 0% | 0 | 0% |
| COMMON WATERWEED | *ELODEA CANADENSIS* | 19 | 8% | 19 | 100% | 0 | 0% | 0 | 0% | 0 | 0% |
| LEAFY PONDWEED | *POTAMOGETON FOLIOSUS* | 10 | 4% | 10 | 100% | 0 | 0% | 0 | 0% | 0 | 0% |
| WILD CELERY | *VALLISNERIA AMERICANA* | 5 | 2% | 5 | 100% | 0 | 0% | 0 | 0% | 0 | 0% |
| SLENDER NAIAD | *NAJAS FLEXILIS* | 4 | 2% | 4 | 100% | 0 | 0% | 0 | 0% | 0 | 0% |
| SAGO PONDWEED | *STUCKENIA PECTINATA* | 4 | 2% | 2 | 50% | 2 | 50% | 0 | 0% | 0 | 0% |
| WHITESTEM PONDWEED | *POTAMOGETON PRAELONGUS* | 1 | 0% | 1 | 100% | 0 | 0% | 0 | 0% | 0 | 0% |
| NORTHERN WATERMILFOIL | *MYRIOPHYLLUM SIBERICUM* | 1 | 0% | 1 | 100% | 0 | 0% | 0 | 0% | 0 | 0% |
| FILAMENTOUS ALGAE | *VARIOUS SPECIES* | 52 | 22% | | | | | | | | |
| BENTHIC FILAMENTOUS ALGAE | *LYNGBYA SPP.* | 32 | 14% | | | | | | | | |
| YELLOW WATER LILY | *NUPHAR VARIGATA* | 1 | 0% | | | | | | | | |
| WHITE WATER LILY | *NYMPHAEA ODORATA* | 1 | 0% | | | | | | | | |

**Table 5:** Submersed aquatic vegetation (SAV) species recorded in the Village of Bemus Point during the June 2025 survey of Chautauqua Lake. Non-native species are marked in red.

*Village of Bemus Point*

| SPECIES PRESENT | | TOTAL | | TRACE | | SPARSE | | MODERATE | | DENSE | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **COMMON NAME** | ***SCIENTIFIC NAME*** | **#** | **%** | **#** | **%** | **#** | **%** | **#** | **%** | **#** | **%** |
| TOTAL SURVEYED SITES | | 34 | | | | | | | | | |
| TOTAL VEGETATED SITES | | 32 | 94% | 7 | 22% | 15 | 47% | 7 | 22% | 3 | 9% |
| EURASIAN WATER MILFOIL | *MYRIOPHYLLUM SPICATUM* | 28 | 82% | 18 | 64% | 9 | 32% | 1 | 4% | 0 | 0% |
| CURLY-LEAF PONDWEED | *POTAMOGETON CRISPUS* | 23 | 68% | 12 | 52% | 4 | 17% | 5 | 22% | 2 | 9% |
| WESTERN WATERWEED | *ELODEA NUTALLI* | 21 | 62% | 19 | 90% | 2 | 10% | 0 | 0% | 0 | 0% |
| WATER STARGRASS | *HETERANTHERA DUBIA* | 12 | 35% | 11 | 92% | 1 | 8% | 0 | 0% | 0 | 0% |
| COONTAIL | *CERATOPHYLLUM DEMERSUM* | 3 | 9% | 3 | 100% | 0 | 0% | 0 | 0% | 0 | 0% |
| IVY-LEAVED DUCKWEED | *LEMNA TRISULCA* | 2 | 6% | 2 | 100% | 0 | 0% | 0 | 0% | 0 | 0% |
| LEAFY PONDWEED | *POTAMOGETON FOLIOSUS* | 1 | 3% | 1 | 100% | 0 | 0% | 0 | 0% | 0 | 0% |
| COMMON WATERWEED | *ELODEA CANADENSIS* | 1 | 3% | 1 | 100% | 0 | 0% | 0 | 0% | 0 | 0% |
| WILD CELERY | *VALLISNERIA AMERICANA* | 1 | 3% | 1 | 100% | 0 | 0% | 0 | 0% | 0 | 0% |
| BENTHIC FILAMENTOUS ALGAE | *LYNGBYA SPP.* | 13 | 38% | | | | | | | | |
| FILAMENTOUS ALGAE | *VARIOUS SPECIES* | 4 | 12% | | | | | | | | |

**Table 6:** Submersed aquatic vegetation (SAV) species recorded in the Town of Ellicott during the June 2025 survey of Chautauqua Lake. Non-native species are marked in red.

*Town of Ellicott*

| SPECIES PRESENT | | TOTAL | | TRACE | | SPARSE | | MODERATE | | DENSE | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **COMMON NAME** | ***SCIENTIFIC NAME*** | **#** | **%** | **#** | **%** | **#** | **%** | **#** | **%** | **#** | **%** |
| TOTAL SURVEYED SITES | | 58 | | | | | | | | | |
| TOTAL VEGETATED SITES | | 58 | 100% | 3 | 5% | 13 | 22% | 28 | 48% | 14 | 24% |
| EURASIAN WATER MILFOIL | *MYRIOPHYLLUM SPICATUM* | 56 | 97% | 35 | 63% | 10 | 18% | 11 | 20% | 0 | 0% |
| WESTERN WATERWEED | *ELODEA NUTALLI* | 50 | 86% | 20 | 40% | 17 | 34% | 10 | 20% | 3 | 6% |
| CURLY-LEAF PONDWEED | *POTAMOGETON CRISPUS* | 48 | 83% | 45 | 94% | 3 | 6% | 0 | 0% | 0 | 0% |
| COONTAIL | *CERATOPHYLLUM DEMERSUM* | 30 | 52% | 30 | 100% | 0 | 0% | 0 | 0% | 0 | 0% |
| COMMON WATERWEED | *ELODEA CANADENSIS* | 24 | 41% | 18 | 75% | 6 | 25% | 0 | 0% | 0 | 0% |
| LEAFY PONDWEED | *POTAMOGETON FOLIOSUS* | 14 | 24% | 13 | 93% | 1 | 7% | 0 | 0% | 0 | 0% |
| WATER STARGRASS | *HETERANTHERA DUBIA* | 12 | 21% | 12 | 100% | 0 | 0% | 0 | 0% | 0 | 0% |
| SLENDER NAIAD | *NAJAS FLEXILIS* | 5 | 9% | 5 | 100% | 0 | 0% | 0 | 0% | 0 | 0% |
| NORTHERN WATERMILFOIL | *MYRIOPHYLLUM SIBERICUM* | 3 | 5% | 3 | 100% | 0 | 0% | 0 | 0% | 0 | 0% |
| IVY-LEAVED DUCKWEED | *LEMNA TRISULCA* | 1 | 2% | 1 | 100% | 0 | 0% | 0 | 0% | 0 | 0% |
| WILD CELERY | *VALLISNERIA AMERICANA* | 1 | 2% | 1 | 100% | 0 | 0% | 0 | 0% | 0 | 0% |
| FILAMENTOUS ALGAE | *VARIOUS SPECIES* | 5 | 9% | | | | | | | | |
| BENTHIC FILAMENTOUS ALGAE | *LYNGBYA SPP.* | 2 | 3% | | | | | | | | |

**Table 7:** Submersed aquatic vegetation (SAV) species recorded in the Village of Celeron during the June 2025 survey of Chautauqua Lake. Non-native species are marked in red.

*Village of Celeron*

| SPECIES PRESENT | | TOTAL | | TRACE | | SPARSE | | MODERATE | | DENSE | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **COMMON NAME** | ***SCIENTIFIC NAME*** | **#** | **%** | **#** | **%** | **#** | **%** | **#** | **%** | **#** | **%** |
| TOTAL SURVEYED SITES | | 23 | | | | | | | | | |
| TOTAL VEGETATED SITES | | 23 | 100% | 2 | 9% | 6 | 26% | 10 | 43% | 5 | 22% |
| EURASIAN WATER MILFOIL | *MYRIOPHYLLUM SPICATUM* | 22 | 96% | 16 | 73% | 1 | 5% | 5 | 23% | 0 | 0% |
| CURLY-LEAF PONDWEED | *POTAMOGETON CRISPUS* | 20 | 87% | 20 | 100% | 0 | 0% | 0 | 0% | 0 | 0% |
| COONTAIL | *CERATOPHYLLUM DEMERSUM* | 17 | 74% | 17 | 100% | 0 | 0% | 0 | 0% | 0 | 0% |
| WESTERN WATERWEED | *ELODEA NUTALLI* | 17 | 74% | 12 | 71% | 4 | 24% | 1 | 6% | 0 | 0% |
| COMMON WATERWEED | *ELODEA CANADENSIS* | 17 | 74% | 12 | 71% | 5 | 29% | 0 | 0% | 0 | 0% |
| LEAFY PONDWEED | *POTAMOGETON FOLIOSUS* | 10 | 43% | 9 | 90% | 1 | 10% | 0 | 0% | 0 | 0% |
| WATER STARGRASS | *HETERANTHERA DUBIA* | 7 | 30% | 7 | 100% | 0 | 0% | 0 | 0% | 0 | 0% |
| NORTHERN WATERMILFOIL | *MYRIOPHYLLUM SIBERICUM* | 3 | 13% | 3 | 100% | 0 | 0% | 0 | 0% | 0 | 0% |
| SLENDER NAIAD | *NAJAS FLEXILIS* | 1 | 4% | 1 | 100% | 0 | 0% | 0 | 0% | 0 | 0% |
| WILD CELERY | *VALLISNERIA AMERICANA* | 1 | 4% | 1 | 100% | 0 | 0% | 0 | 0% | 0 | 0% |
| BENTHIC FILAMENTOUS ALGAE | *LYNGBYA SPP.* | 2 | 13% | | | | | | | | |
| FILAMENTOUS ALGAE | *VARIOUS SPECIES* | 2 | 13% | | | | | | | | |

**Table 8:** Submersed aquatic vegetation (SAV) species recorded in the Town of Busti during the June 2025 survey of Chautauqua Lake. Non-native species are marked in red.

*Town of Busti*

| SPECIES PRESENT | | TOTAL | | TRACE | | SPARSE | | MODERATE | | DENSE | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **COMMON NAME** | ***SCIENTIFIC NAME*** | **#** | **%** | **#** | **%** | **#** | **%** | **#** | **%** | **#** | **%** |
| TOTAL SURVEYED SITES | | 140 | | | | | | | | | |
| TOTAL VEGETATED SITES | | 136 | 97% | 20 | 15% | 76 | 56% | 34 | 25% | 6 | 4% |
| WESTERN WATERWEED | *ELODEA NUTALLI* | 118 | 84% | 82 | 69% | 26 | 22% | 8 | 7% | 2 | 2% |
| EURASIAN WATER MILFOIL | *MYRIOPHYLLUM SPICATUM* | 110 | 79% | 86 | 78% | 18 | 16% | 6 | 5% | 0 | 0% |
| CURLY-LEAF PONDWEED | *POTAMOGETON CRISPUS* | 108 | 77% | 88 | 81% | 19 | 18% | 1 | 1% | 0 | 0% |
| COONTAIL | *CERATOPHYLLUM DEMERSUM* | 40 | 29% | 36 | 90% | 4 | 10% | 0 | 0% | 0 | 0% |
| LEAFY PONDWEED | *POTAMOGETON FOLIOSUS* | 26 | 19% | 26 | 100% | 0 | 0% | 0 | 0% | 0 | 0% |
| IVY-LEAVED DUCKWEED | *LEMNA TRISULCA* | 17 | 12% | 17 | 100% | 0 | 0% | 0 | 0% | 0 | 0% |
| WATER STARGRASS | *HETERANTHERA DUBIA* | 17 | 12% | 17 | 100% | 0 | 0% | 0 | 0% | 0 | 0% |
| SLENDER NAIAD | *NAJAS FLEXILIS* | 7 | 5% | 7 | 100% | 0 | 0% | 0 | 0% | 0 | 0% |
| COMMON WATERWEED | *ELODEA CANADENSIS* | 5 | 4% | 5 | 100% | 0 | 0% | 0 | 0% | 0 | 0% |
| SAGO PONDWEED | *STUCKENIA PECTINATA* | 3 | 2% | 2 | 67% | 1 | 33% | 0 | 0% | 0 | 0% |
| WILD CELERY | *VALLISNERIA AMERICANA* | 1 | 1% | 1 | 100% | 0 | 0% | 0 | 0% | 0 | 0% |
| NORTHERN WATERMILFOIL | *MYRIOPHYLLUM SIBERICUM* | 1 | 1% | 1 | 100% | 0 | 0% | 0 | 0% | 0 | 0% |
| FILAMENTOUS ALGAE | *VARIOUS SPECIES* | 17 | 12% | | | | | | | | |
| WHITE WATER LILY | *NYMPHAEA ODORATA* | 1 | 1% | | | | | | | | |
| BENTHIC FILAMENTOUS ALGAE | *LYNGBYA SPP.* | 1 | 1% | | | | | | | | |

**Table 9:** Submersed aquatic vegetation (SAV) species recorded in the Village of Lakewood during the June 2025 survey of Chautauqua Lake. Non-native species are marked in red.

*Village of Lakewood*

| SPECIES PRESENT | | TOTAL | | TRACE | | SPARSE | | MODERATE | | DENSE | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **COMMON NAME** | ***SCIENTIFIC NAME*** | **#** | **%** | **#** | **%** | **#** | **%** | **#** | **%** | **#** | **%** |
| TOTAL SURVEYED SITES | | 80 | | | | | | | | | |
| TOTAL VEGETATED SITES | | 77 | 96% | 14 | 18% | 34 | 44% | 23 | 30% | 6 | 8% |
| CURLY-LEAF PONDWEED | *POTAMOGETON CRISPUS* | 67 | 84% | 55 | 82% | 12 | 18% | 0 | 0% | 0 | 0% |
| WESTERN WATERWEED | *ELODEA NUTALLI* | 65 | 81% | 45 | 69% | 13 | 20% | 5 | 8% | 2 | 3% |
| EURASIAN WATER MILFOIL | *MYRIOPHYLLUM SPICATUM* | 62 | 78% | 45 | 73% | 10 | 16% | 7 | 11% | 0 | 0% |
| LEAFY PONDWEED | *POTAMOGETON FOLIOSUS* | 24 | 30% | 24 | 100% | 0 | 0% | 0 | 0% | 0 | 0% |
| COONTAIL | *CERATOPHYLLUM DEMERSUM* | 21 | 26% | 21 | 100% | 0 | 0% | 0 | 0% | 0 | 0% |
| SLENDER NAIAD | *NAJAS FLEXILIS* | 6 | 8% | 6 | 100% | 0 | 0% | 0 | 0% | 0 | 0% |
| IVY-LEAVED DUCKWEED | *LEMNA TRISULCA* | 5 | 6% | 5 | 100% | 0 | 0% | 0 | 0% | 0 | 0% |
| WATER STARGRASS | *HETERANTHERA DUBIA* | 5 | 6% | 5 | 100% | 0 | 0% | 0 | 0% | 0 | 0% |
| COMMON WATERWEED | *ELODEA CANADENSIS* | 4 | 5% | 4 | 100% | 0 | 0% | 0 | 0% | 0 | 0% |
| SAGO PONDWEED | *STUCKENIA PECTINATA* | 1 | 1% | 1 | 100% | 0 | 0% | 0 | 0% | 0 | 0% |
| WILD CELERY | *VALLISNERIA AMERICANA* | 1 | 1% | 1 | 100% | 0 | 0% | 0 | 0% | 0 | 0% |
| NORTHERN WATERMILFOIL | *MYRIOPHYLLUM SIBERICUM* | 1 | 1% | 1 | 100% | 0 | 0% | 0 | 0% | 0 | 0% |
| FILAMENTOUS ALGAE | *VARIOUS SPECIES* | 12 | 15% | | | | | | | | |

**Table 10:** Submersed aquatic vegetation (SAV) species recorded in the Town of North Harmony during the June 2025 survey of Chautauqua Lake. Non-native species are marked in red.

*Town of North Harmony*

| SPECIES PRESENT | | TOTAL | | TRACE | | SPARSE | | MODERATE | | DENSE | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **COMMON NAME** | ***SCIENTIFIC NAME*** | **#** | **%** | **#** | **%** | **#** | **%** | **#** | **%** | **#** | **%** |
| TOTAL SURVEYED SITES | | 128 | | | | | | | | | |
| TOTAL VEGETATED SITES | | 119 | 93% | 32 | 27% | 53 | 45% | 27 | 23% | 7 | 6% |
| CURLY-LEAF PONDWEED | *POTAMOGETON CRISPUS* | 93 | 73% | 51 | 55% | 23 | 25% | 18 | 19% | 1 | 1% |
| WESTERN WATERWEED | *ELODEA NUTALLI* | 75 | 59% | 62 | 83% | 12 | 16% | 0 | 0% | 1 | 1% |
| EURASIAN WATER MILFOIL | *MYRIOPHYLLUM SPICATUM* | 62 | 48% | 54 | 87% | 7 | 11% | 1 | 2% | 0 | 0% |
| IVY-LEAVED DUCKWEED | *LEMNA TRISULCA* | 28 | 22% | 25 | 89% | 3 | 11% | 0 | 0% | 0 | 0% |
| COONTAIL | *CERATOPHYLLUM DEMERSUM* | 26 | 20% | 24 | 92% | 2 | 8% | 0 | 0% | 0 | 0% |
| WATER STARGRASS | *HETERANTHERA DUBIA* | 20 | 16% | 20 | 100% | 0 | 0% | 0 | 0% | 0 | 0% |
| COMMON WATERWEED | *ELODEA CANADENSIS* | 8 | 6% | 8 | 100% | 0 | 0% | 0 | 0% | 0 | 0% |
| WILD CELERY | *VALLISNERIA AMERICANA* | 3 | 2% | 3 | 100% | 0 | 0% | 0 | 0% | 0 | 0% |
| WHITESTEM PONDWEED | *POTAMOGETON PRAELONGUS* | 2 | 2% | 1 | 50% | 1 | 50% | 0 | 0% | 0 | 0% |
| LEAFY PONDWEED | *POTAMOGETON FOLIOSUS* | 1 | 1% | 1 | 100% | 0 | 0% | 0 | 0% | 0 | 0% |
| SLENDER NAIAD | *NAJAS FLEXILIS* | 1 | 1% | 1 | 100% | 0 | 0% | 0 | 0% | 0 | 0% |
| STARRY STONEWORT | *NITELLOPSIS OBTUSA* | 1 | 1% | 1 | 100% | 0 | 0% | 0 | 0% | 0 | 0% |
| FILAMENTOUS ALGAE | *VARIOUS SPECIES* | 32 | 25% | | | | | | | | |
| YELLOW WATER LILY | *NUPHAR VARIGATA* | 5 | 4% | | | | | | | | |
| BENTHIC FILAMENTOUS ALGAE | *LYNGBYA SPP.* | 5 | 4% | | | | | | | | |

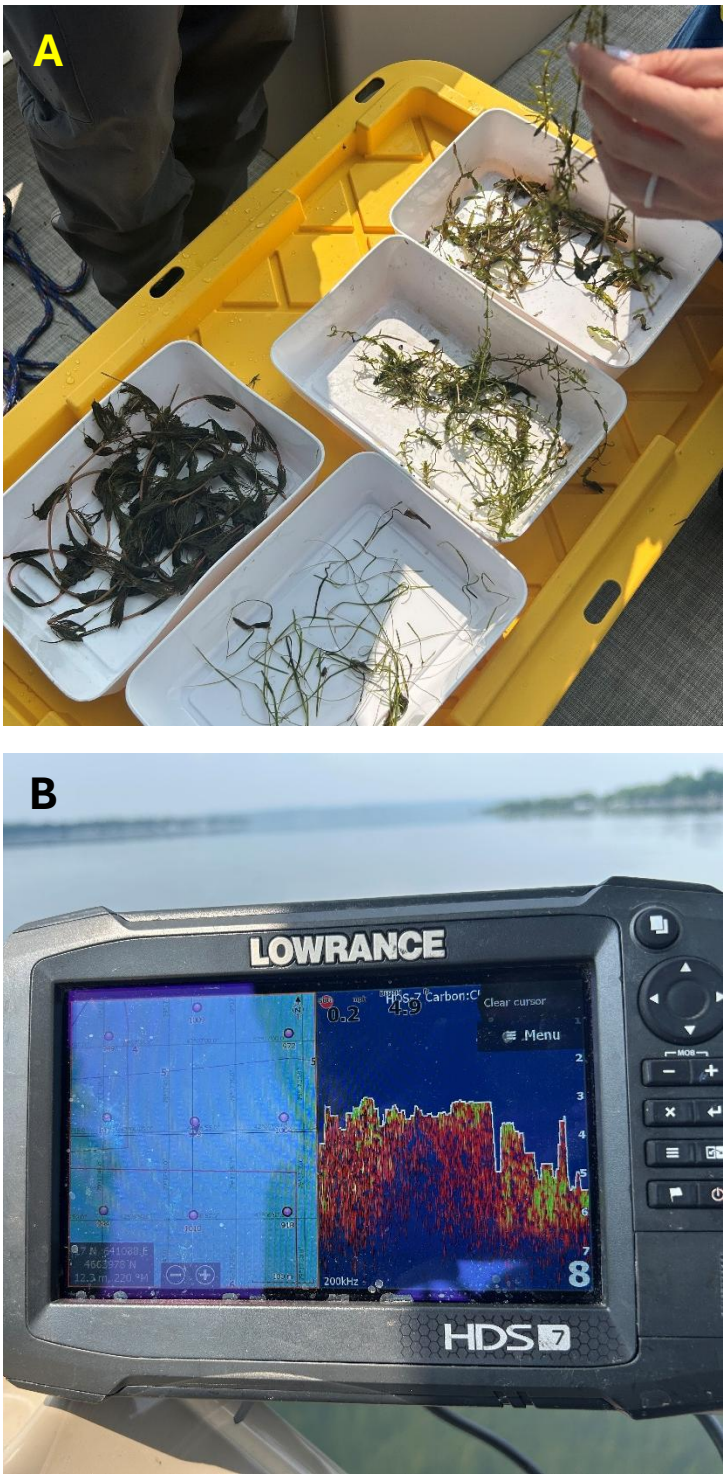



**Figure 1:** Retrieving and sorting submersed aquatic vegetation (SAV) by species (A) while concurrently recording sonar/SAV biovolume data (B) throughout the littoral zone of Chautauqua Lake.

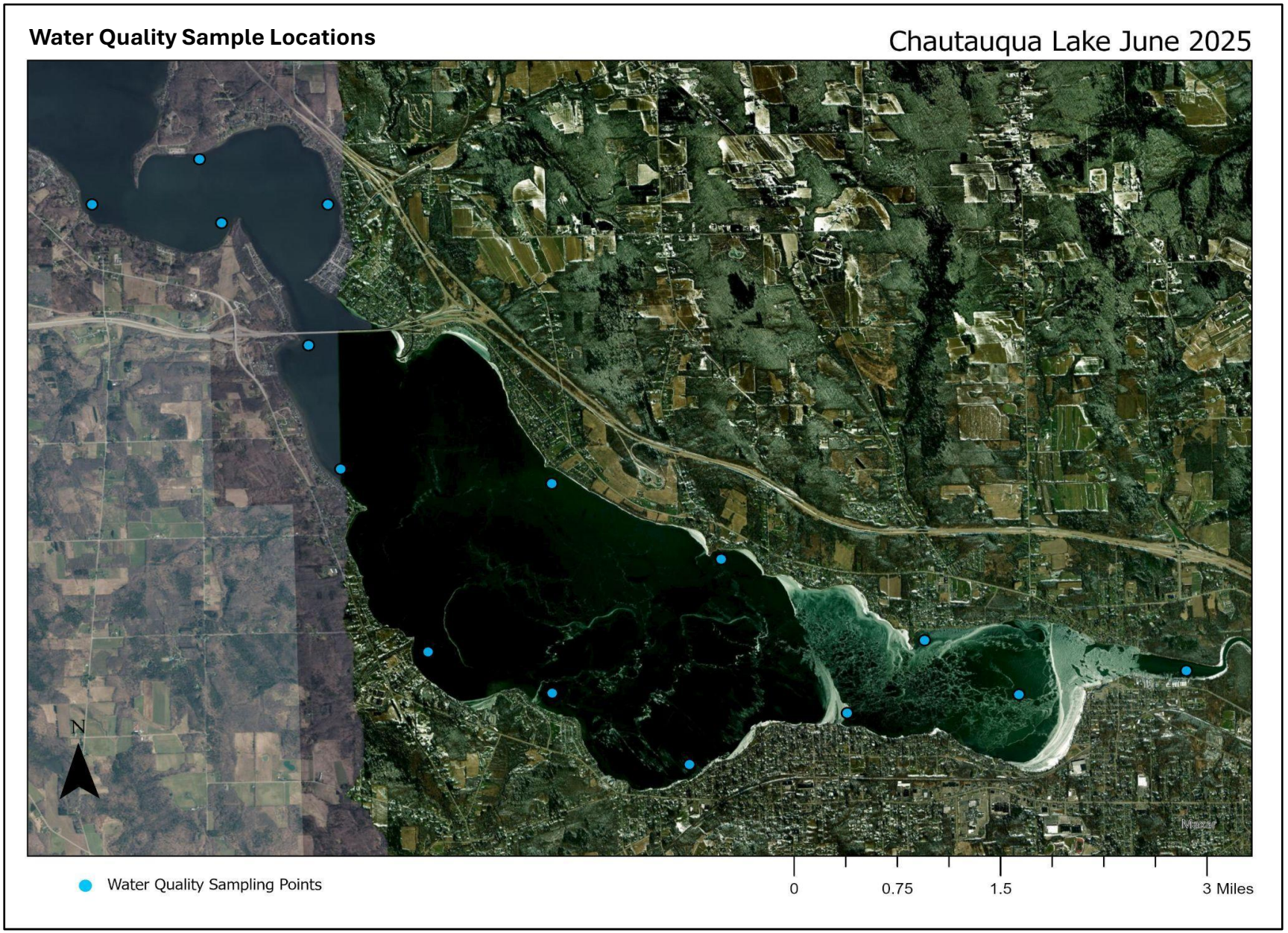



**Figure 2:** Water quality sample points during the Spring 2025 survey.

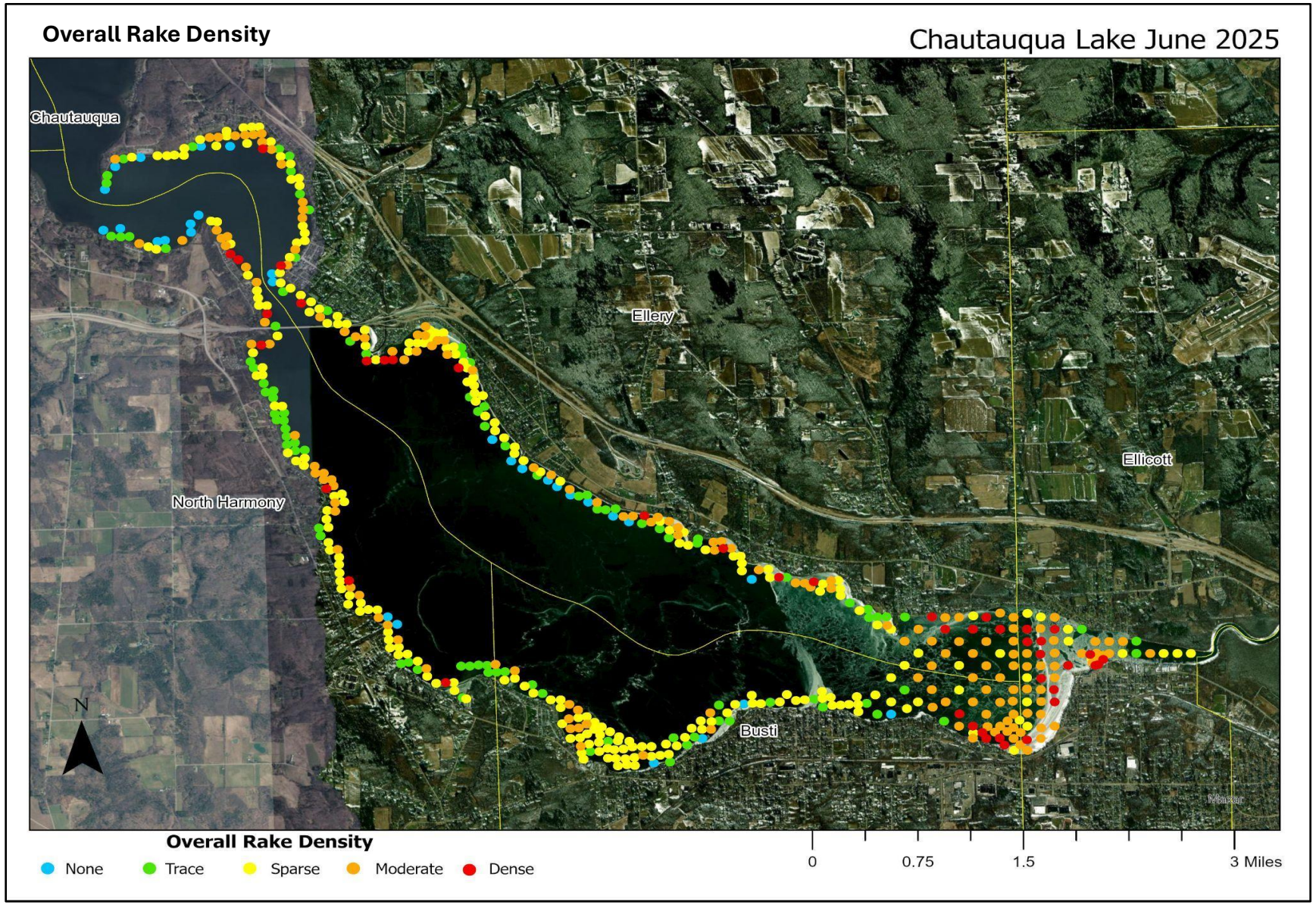



**Figure 3:** Overall rake density of surveyed points during the June 2025 aquatic vegetation survey at Chautauqua Lake.

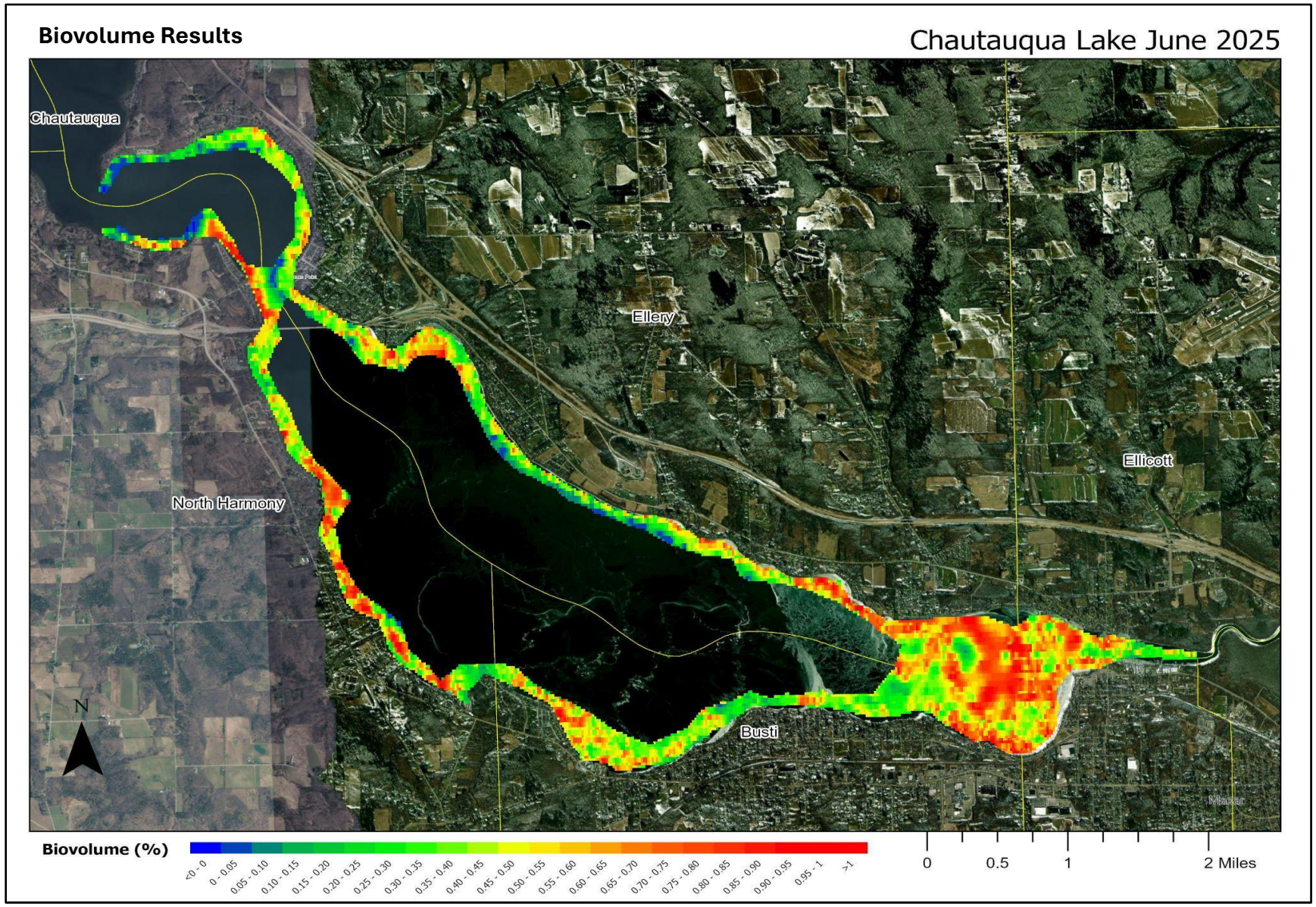



**Figure 4:** Lake-wide submersed aquatic vegetation biovolume estimates constructed from echosounding data. Warmer color areas represent greater water column occupancy (0-100% occupied).

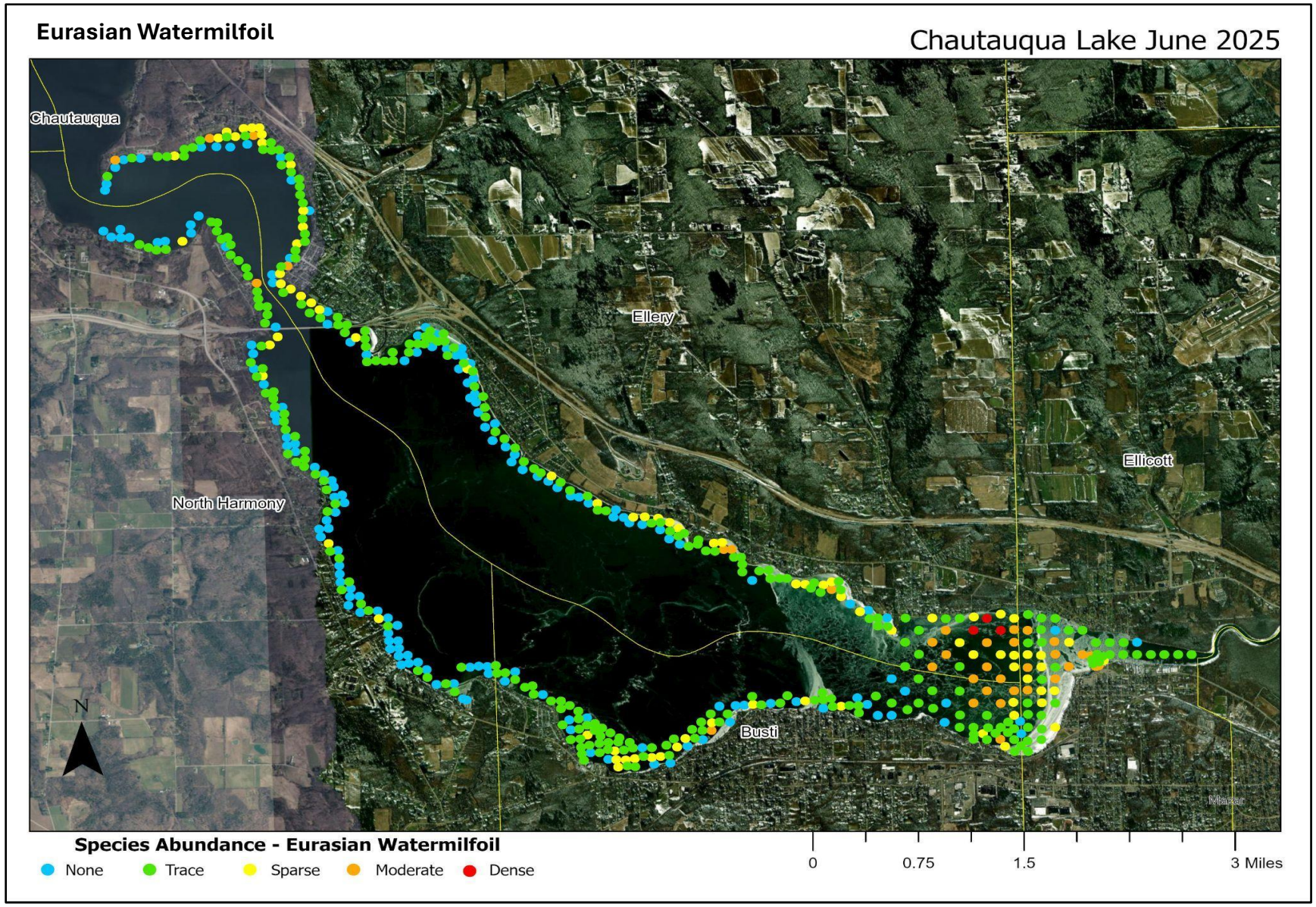



**Figure 5:** Distribution and abundance of Eurasian watermilfoil (*Myriophyllum spicatum*; EWM) in Chautauqua Lake during the June 2025 aquatic vegetation survey.

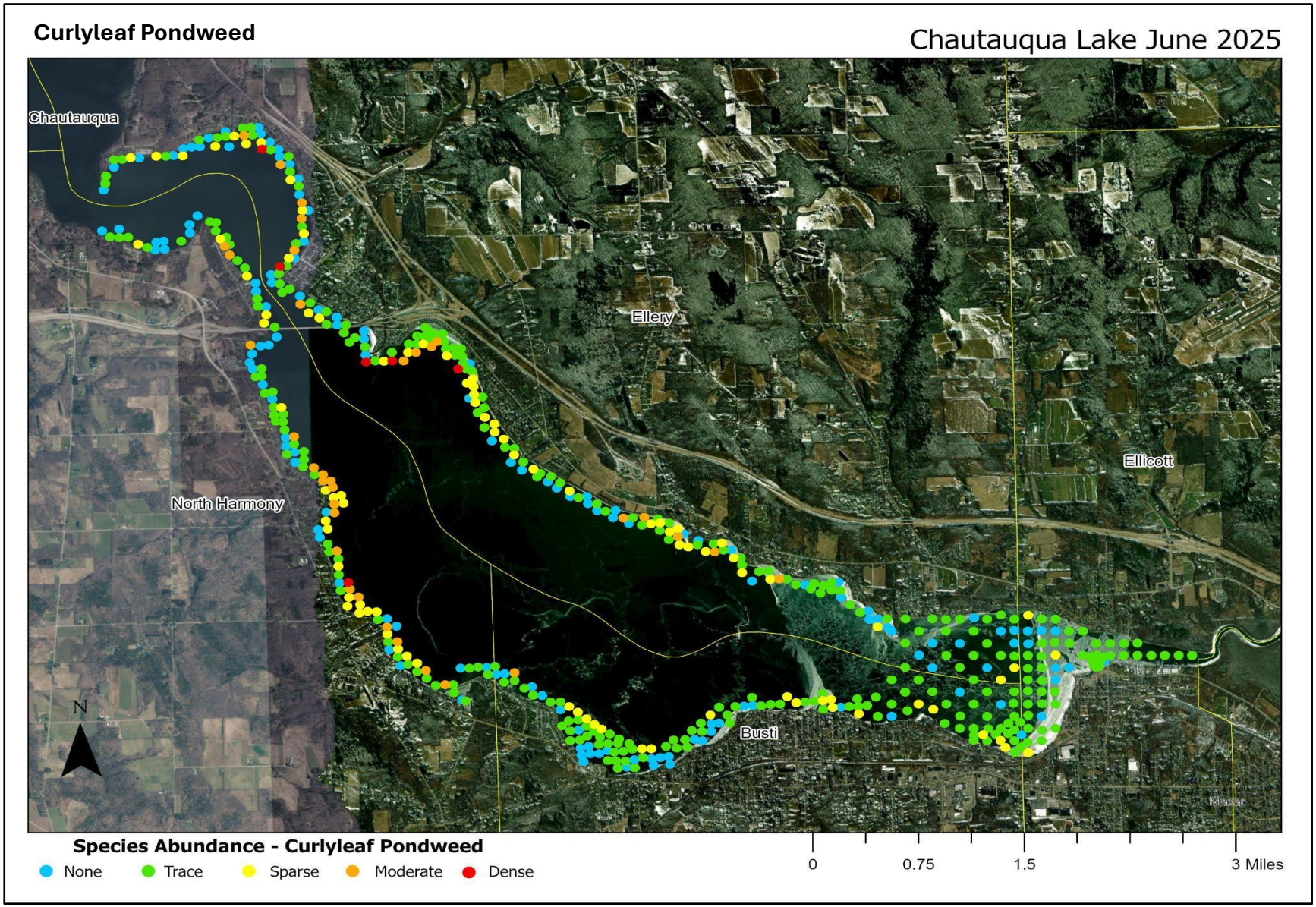



**Figure 6:** Distribution and abundance of Curlyleaf Pondweed (*Potamogeton crispus*; CLP) in Chautauqua Lake during the June 2025 aquatic vegetation survey.

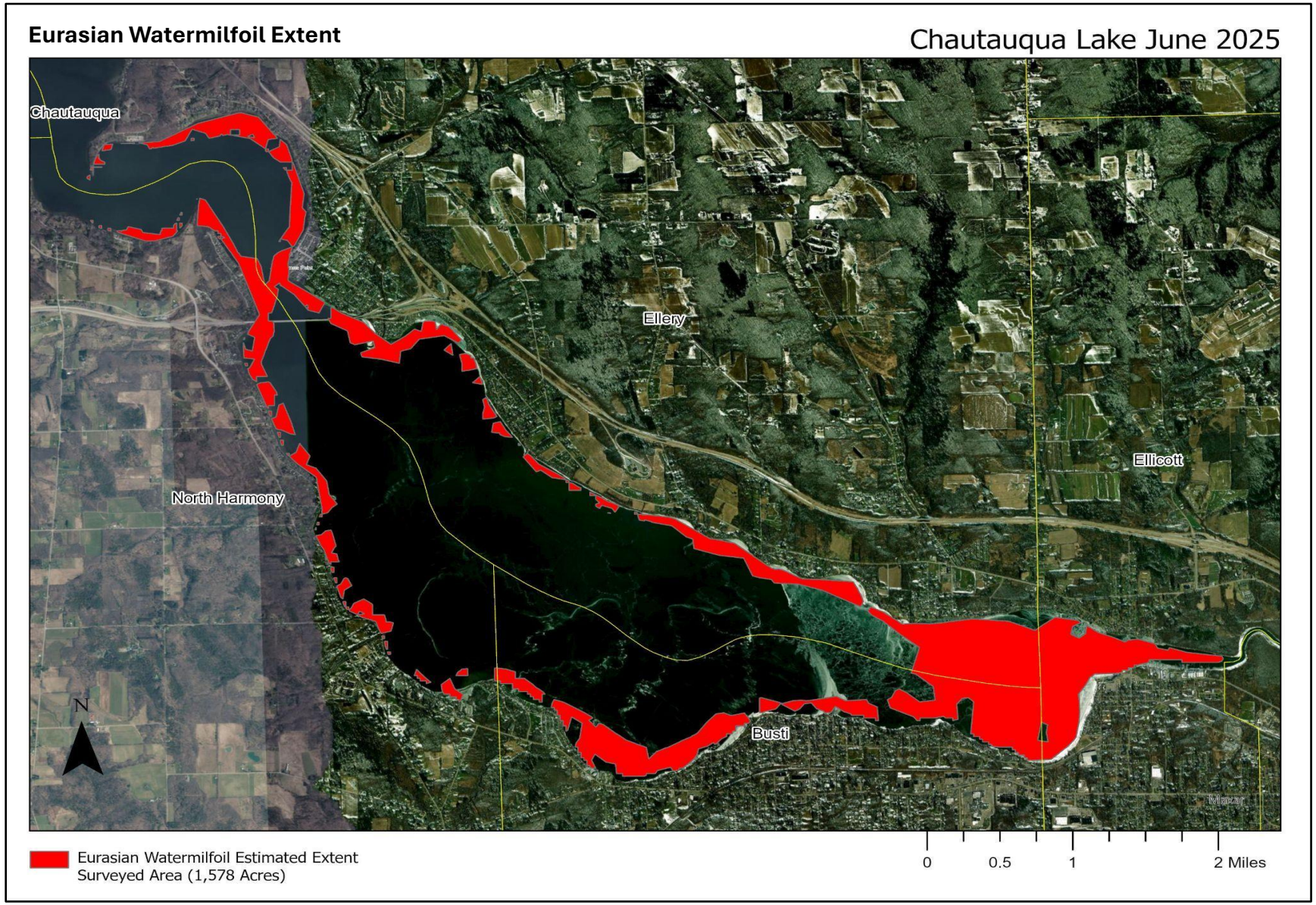



**Figure 7:** Interpolated estimate of Eurasian watermilfoil (EWM) found throughout the surveyed portion of Chautauqua Lake.

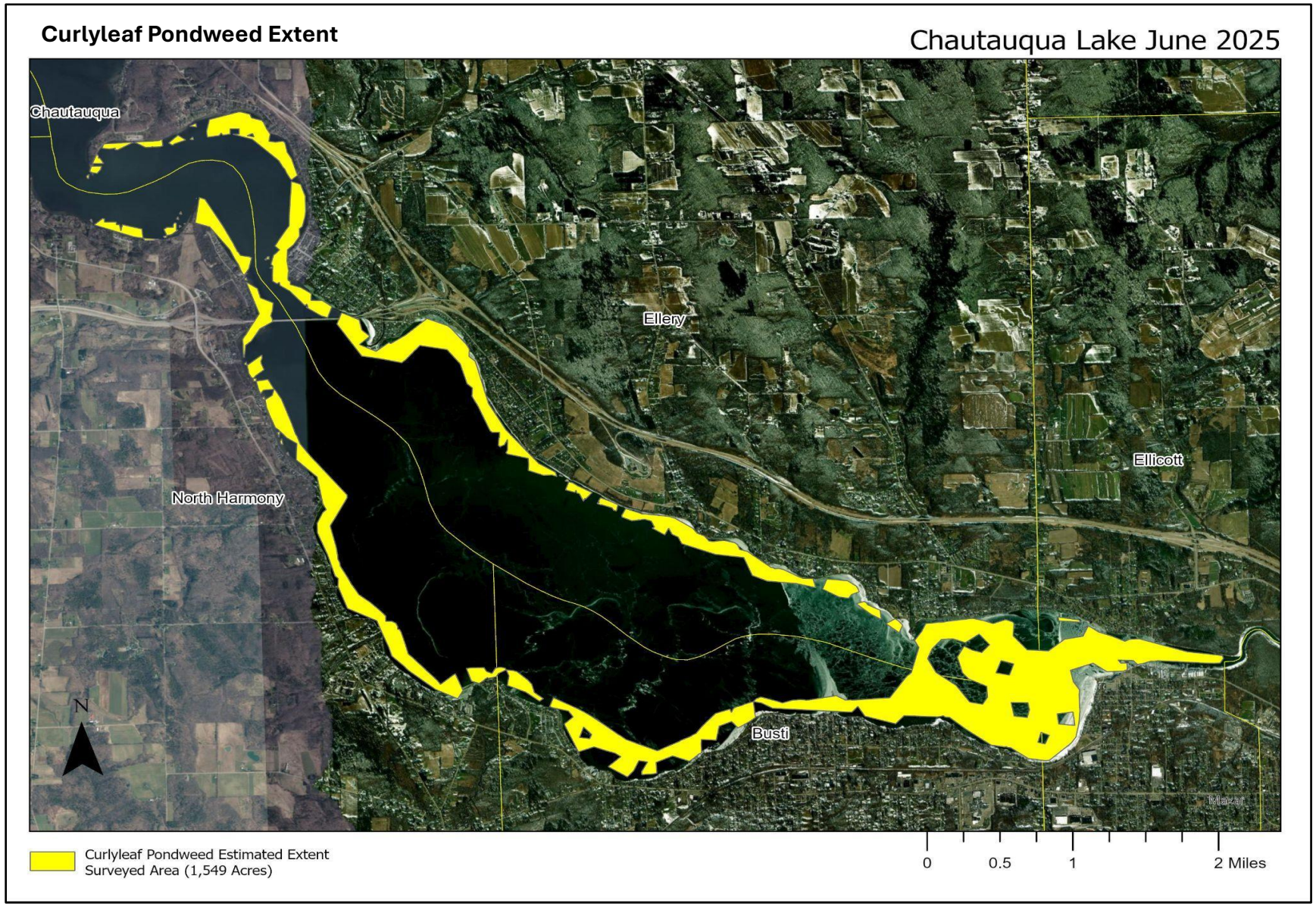



**Figure 8:** Interpolated estimate of Curlyleaf Pondweed (CLP) found throughout the surveyed portion of Chautauqua Lake.

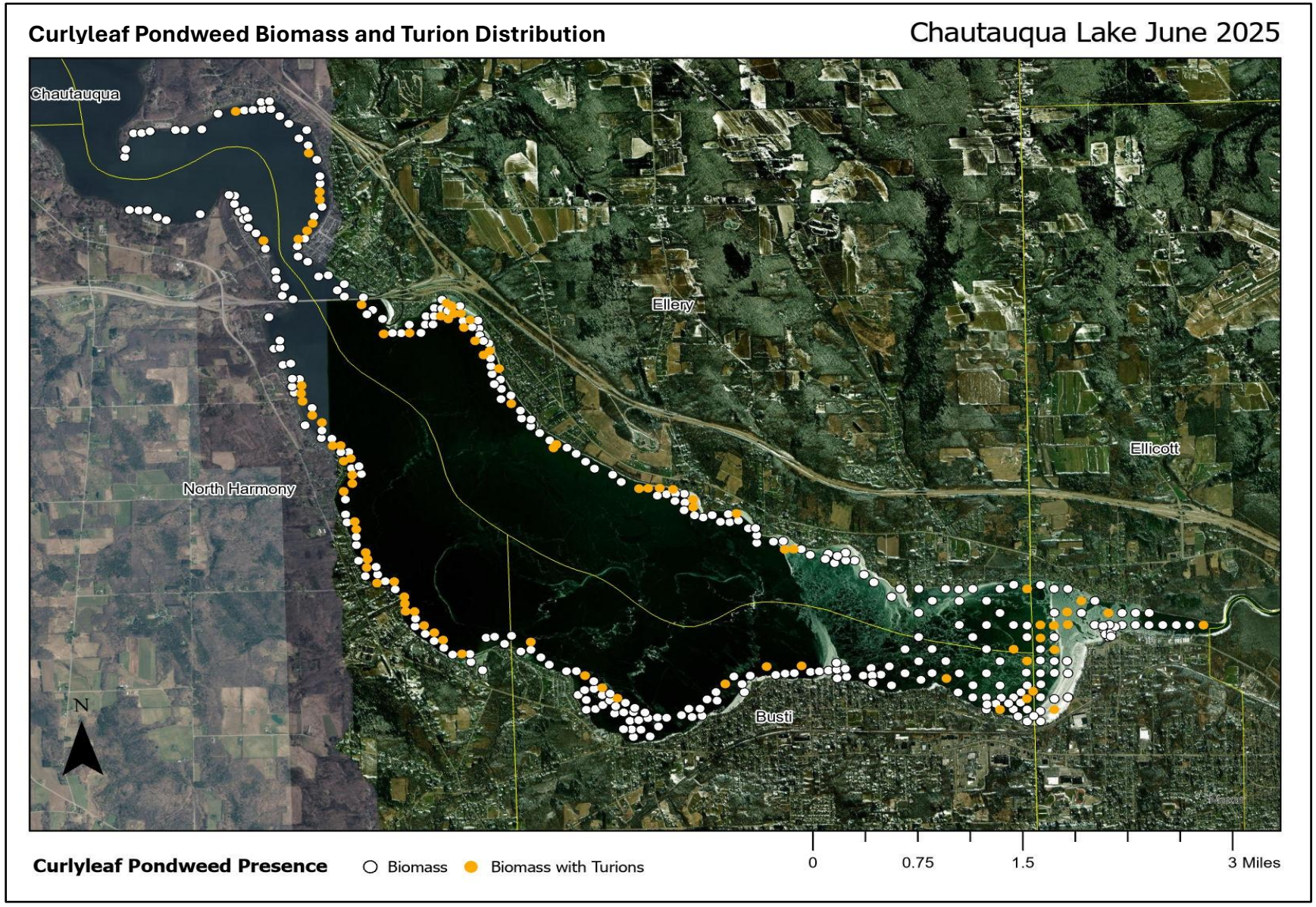



**Figure 9:** Distribution of curlyleaf pondweed (CLP) biomass and turions during the June 2025 survey.

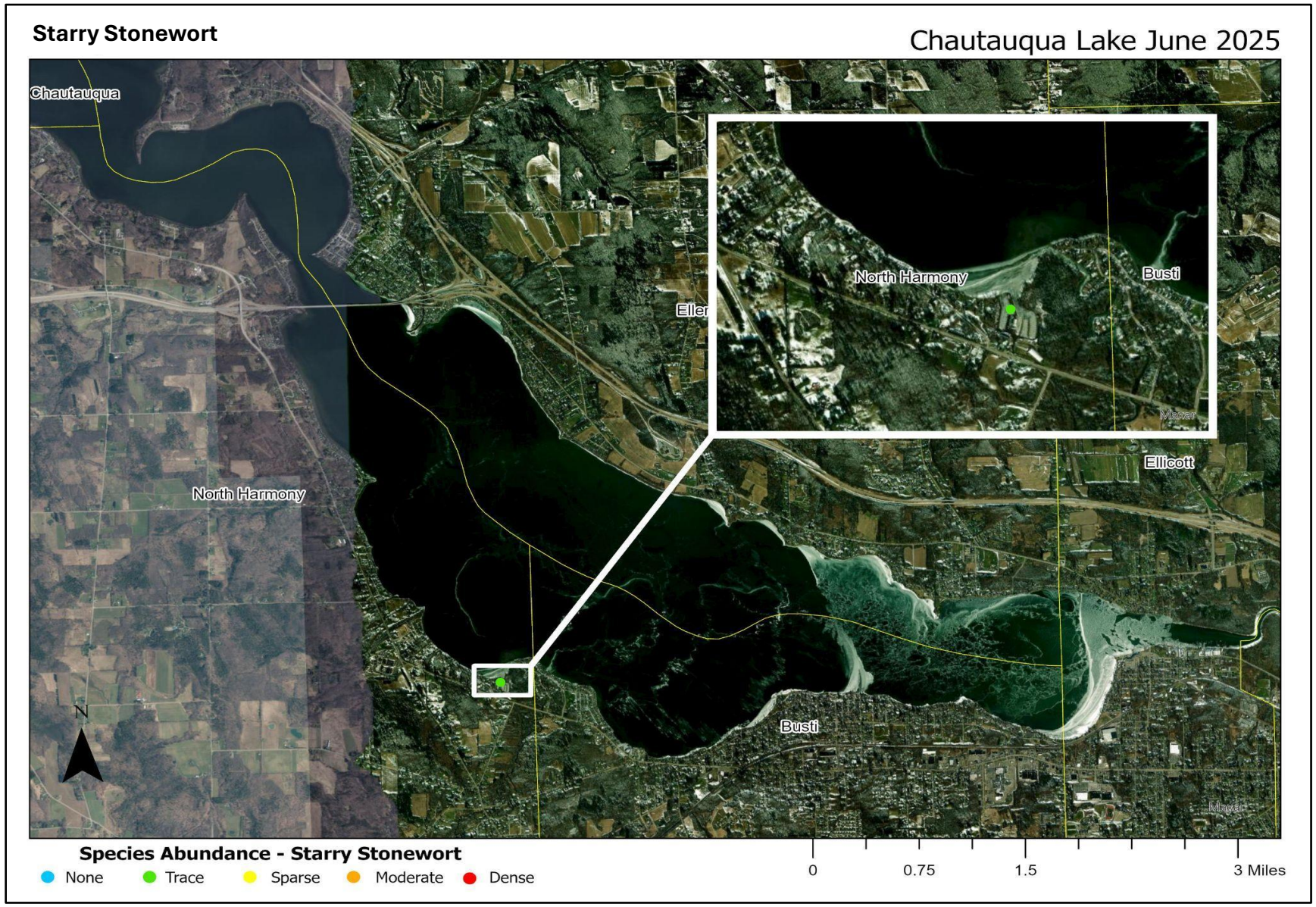



**Figure 10:** Distribution of starry stonewort (*Nitellopsis obtusa*) in Chautauqua Lake during the June 2025 aquatic vegetation survey.

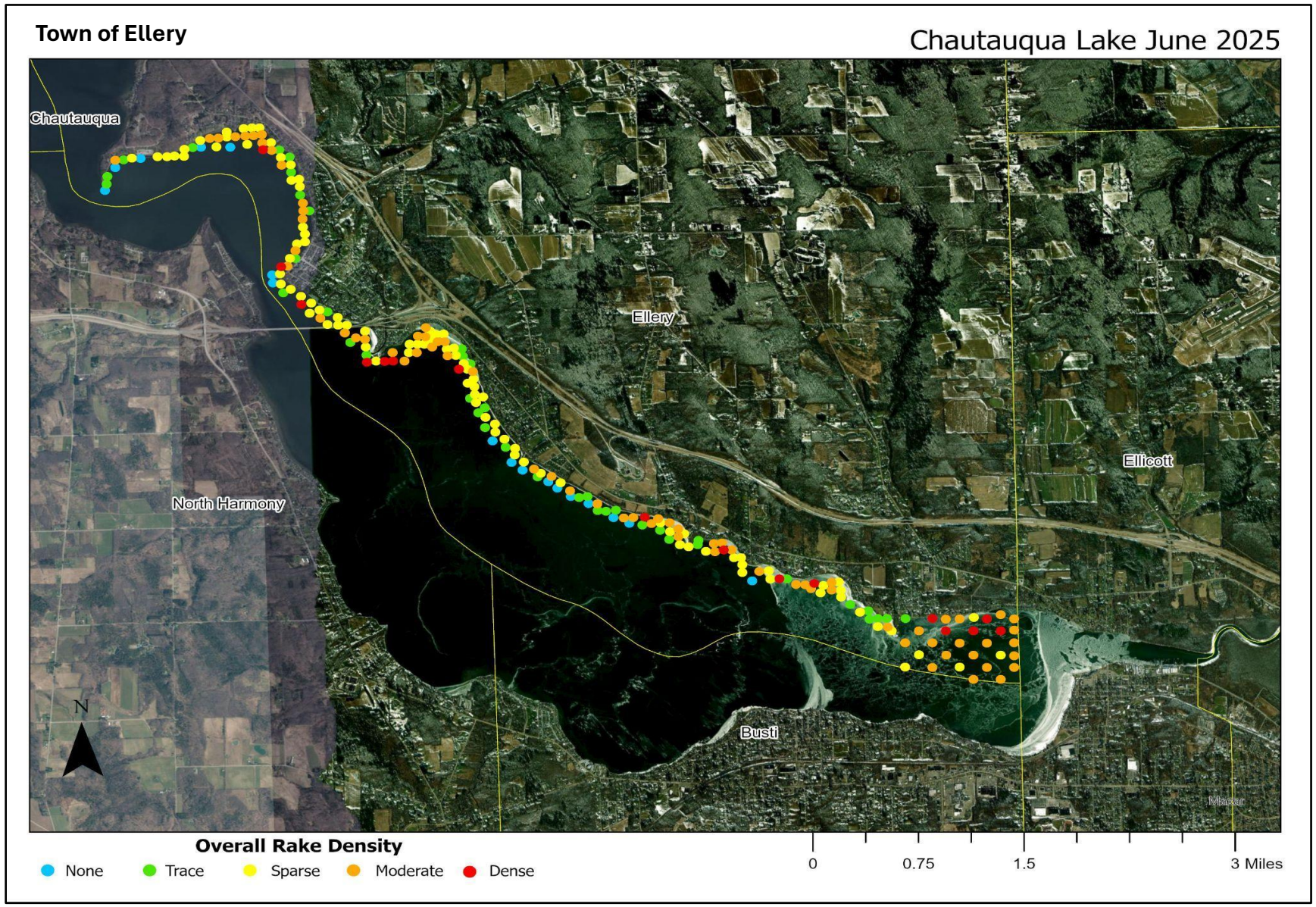



**Figure 11:** Overall rake density of surveyed points in the Town of Ellery during the June 2025 aquatic vegetation survey at Chautauqua Lake.

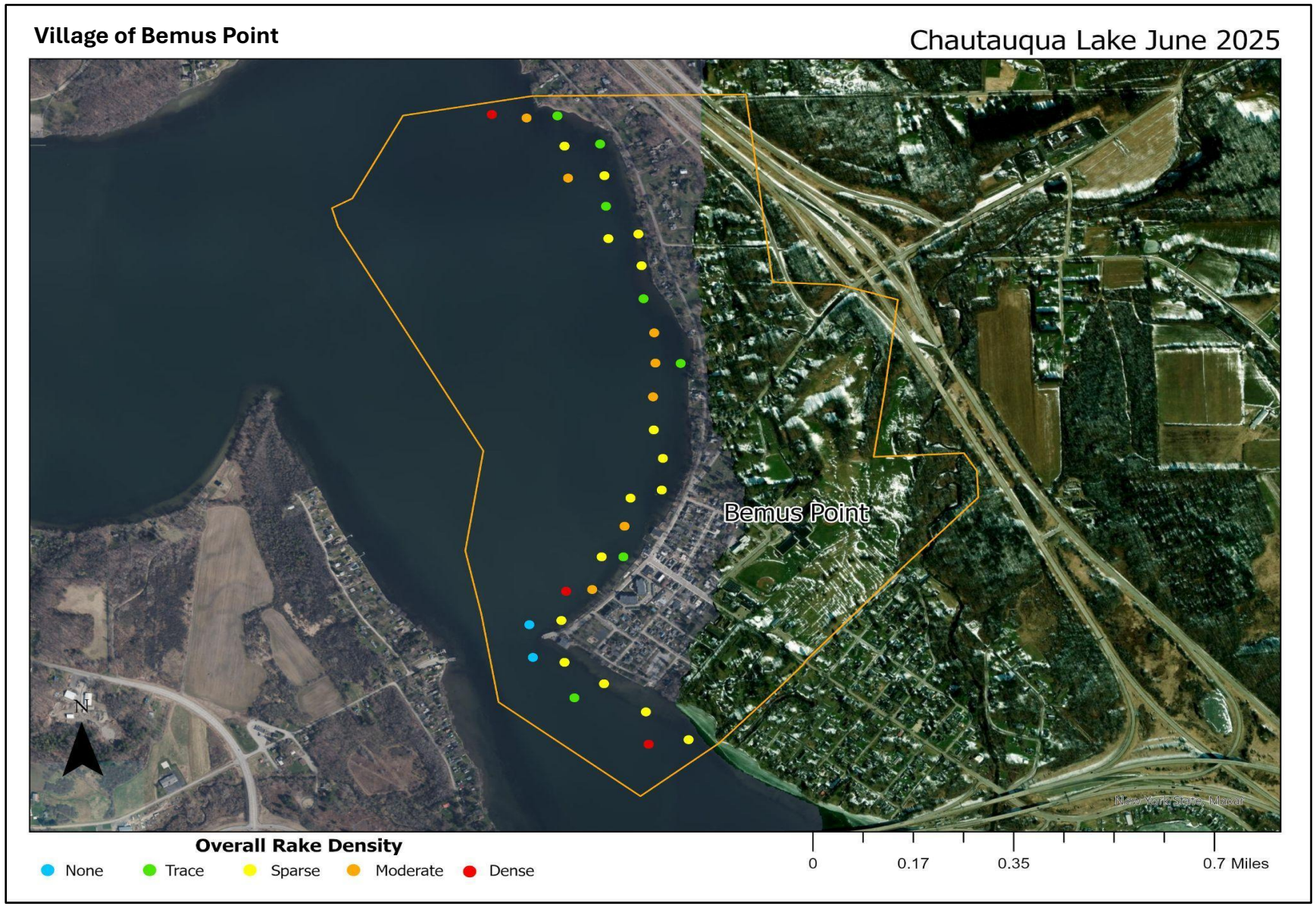



**Figure 12:** Overall rake density of surveyed points in the Village of Bemus Point during the June 2025 aquatic vegetation survey at Chautauqua Lake.

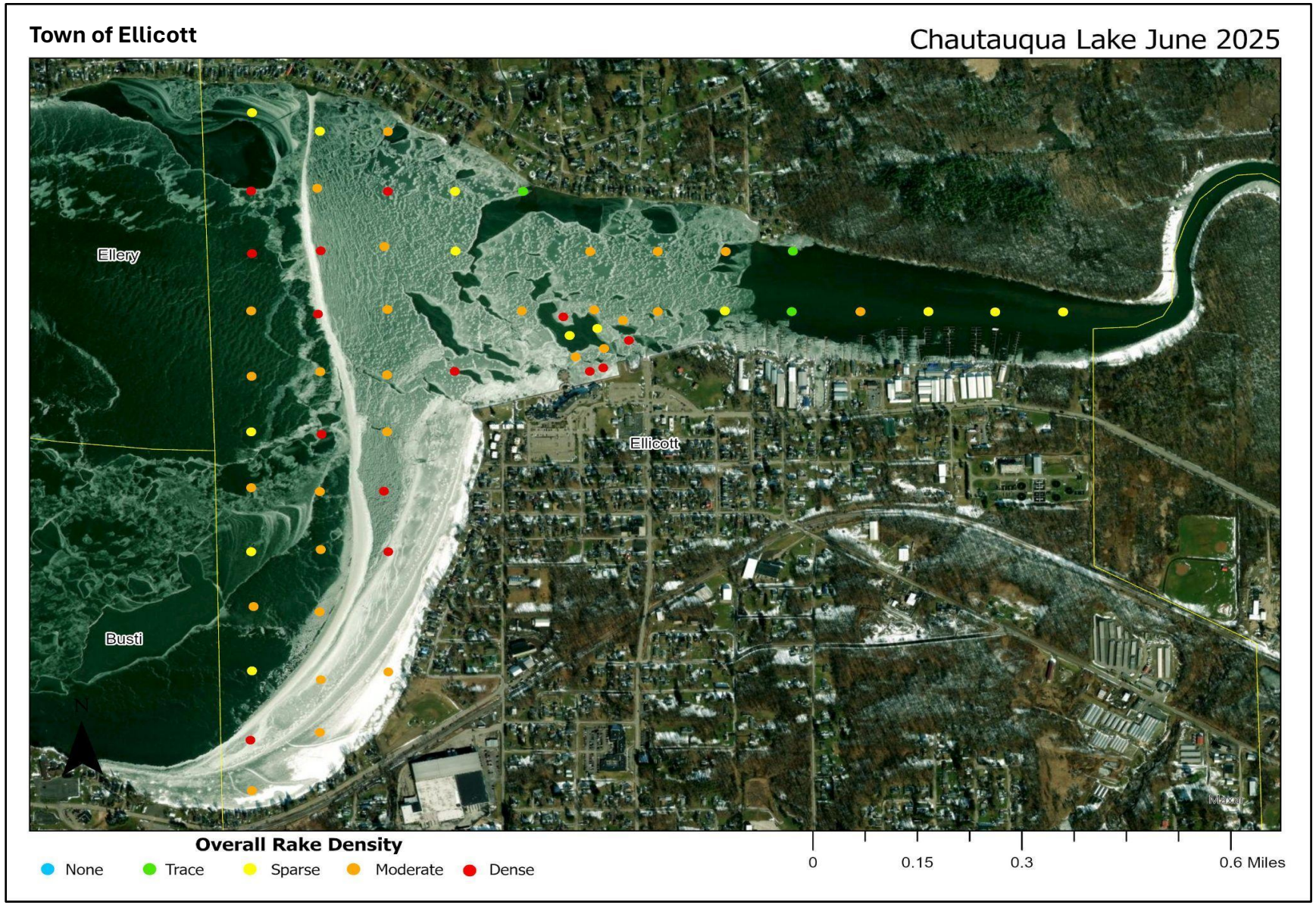



**Figure 13:** Overall rake density of surveyed points in the Town of Ellicott during the June 2025 aquatic vegetation survey at Chautauqua Lake.

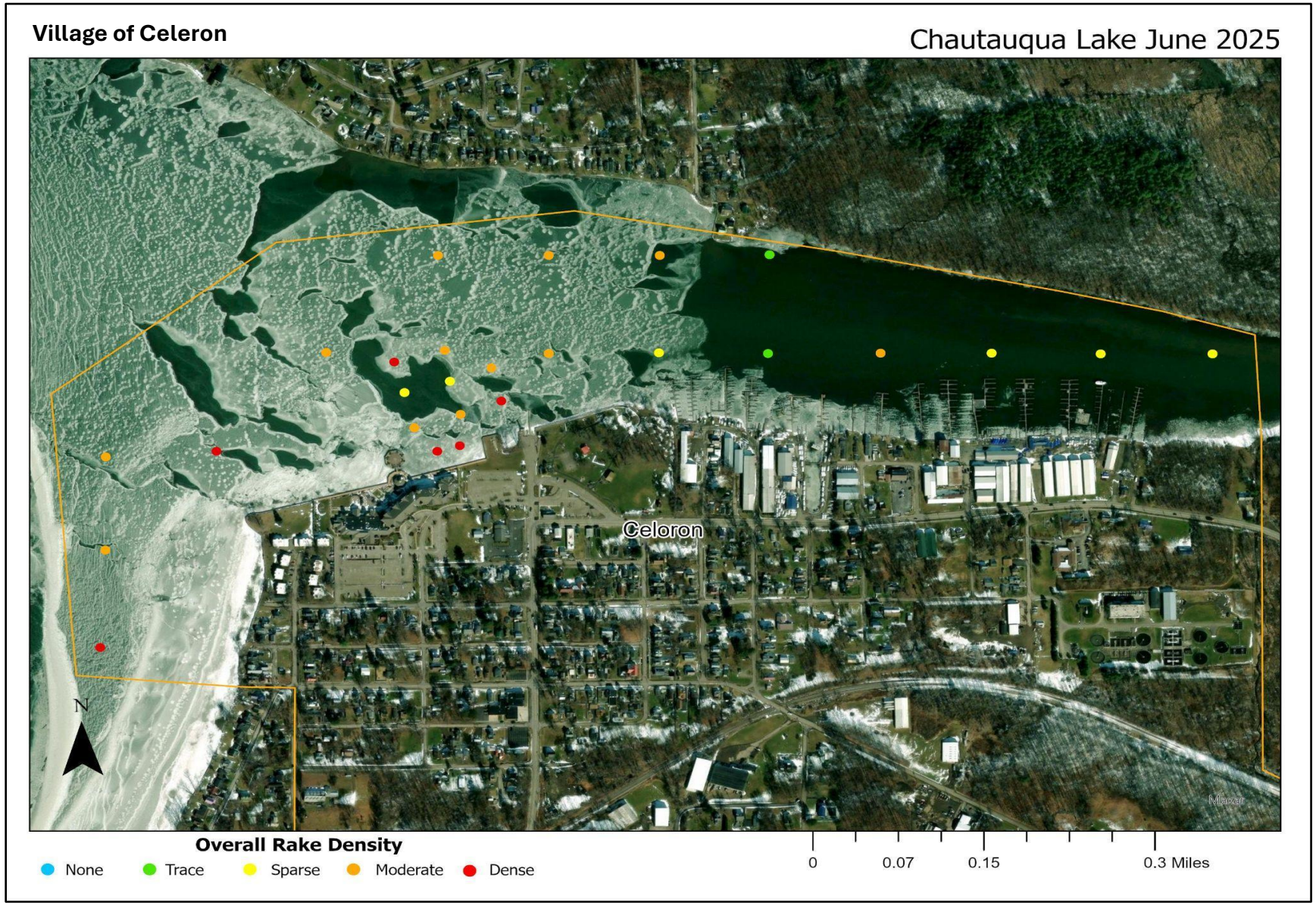



**Figure 14:** Overall rake density of surveyed points in the Village of Celeron during the June 2025 aquatic vegetation survey at Chautauqua Lake.

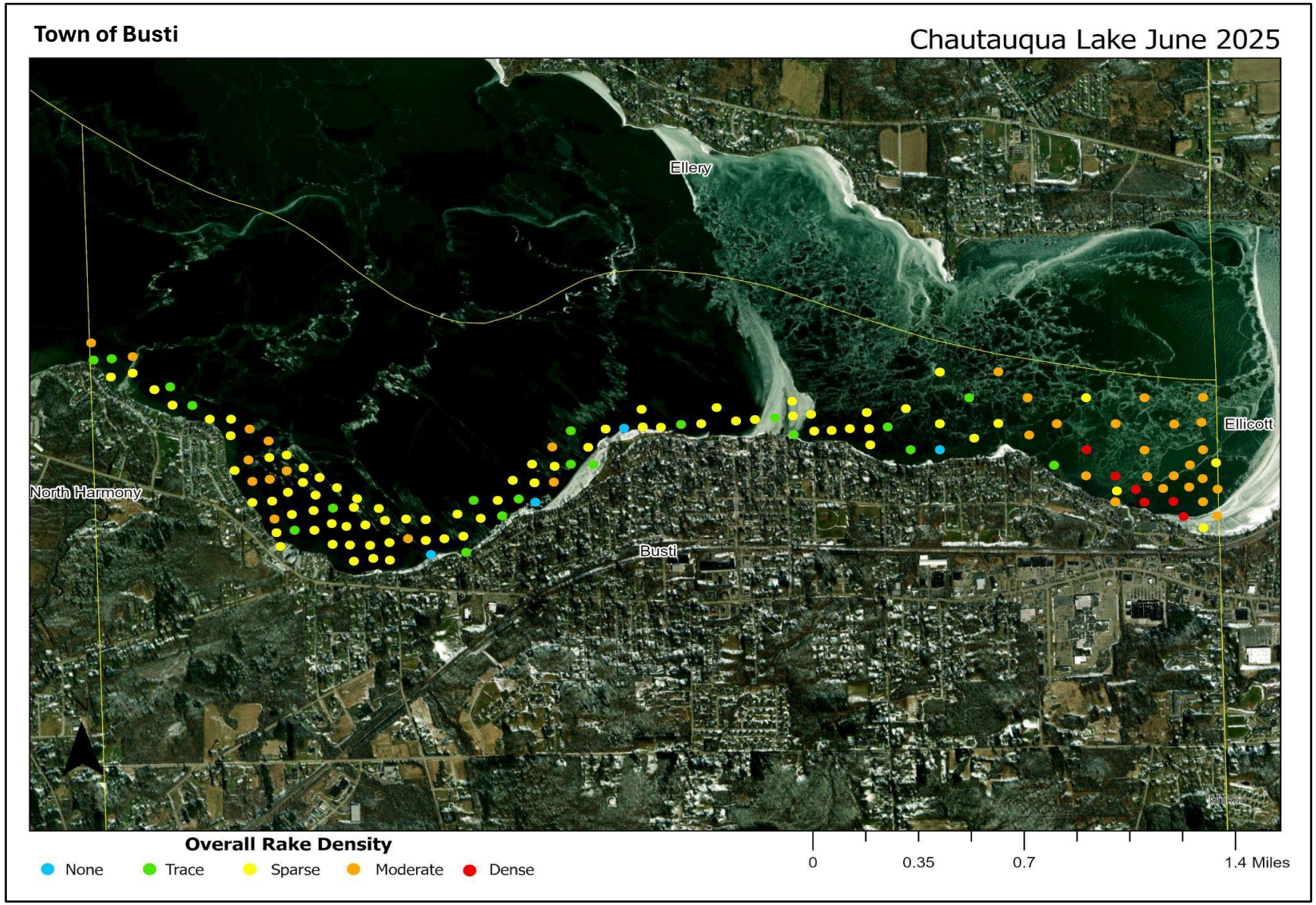



**Figure 15:** Overall rake density of surveyed points in the Town of Busti during the June 2025 aquatic vegetation survey at Chautauqua Lake.

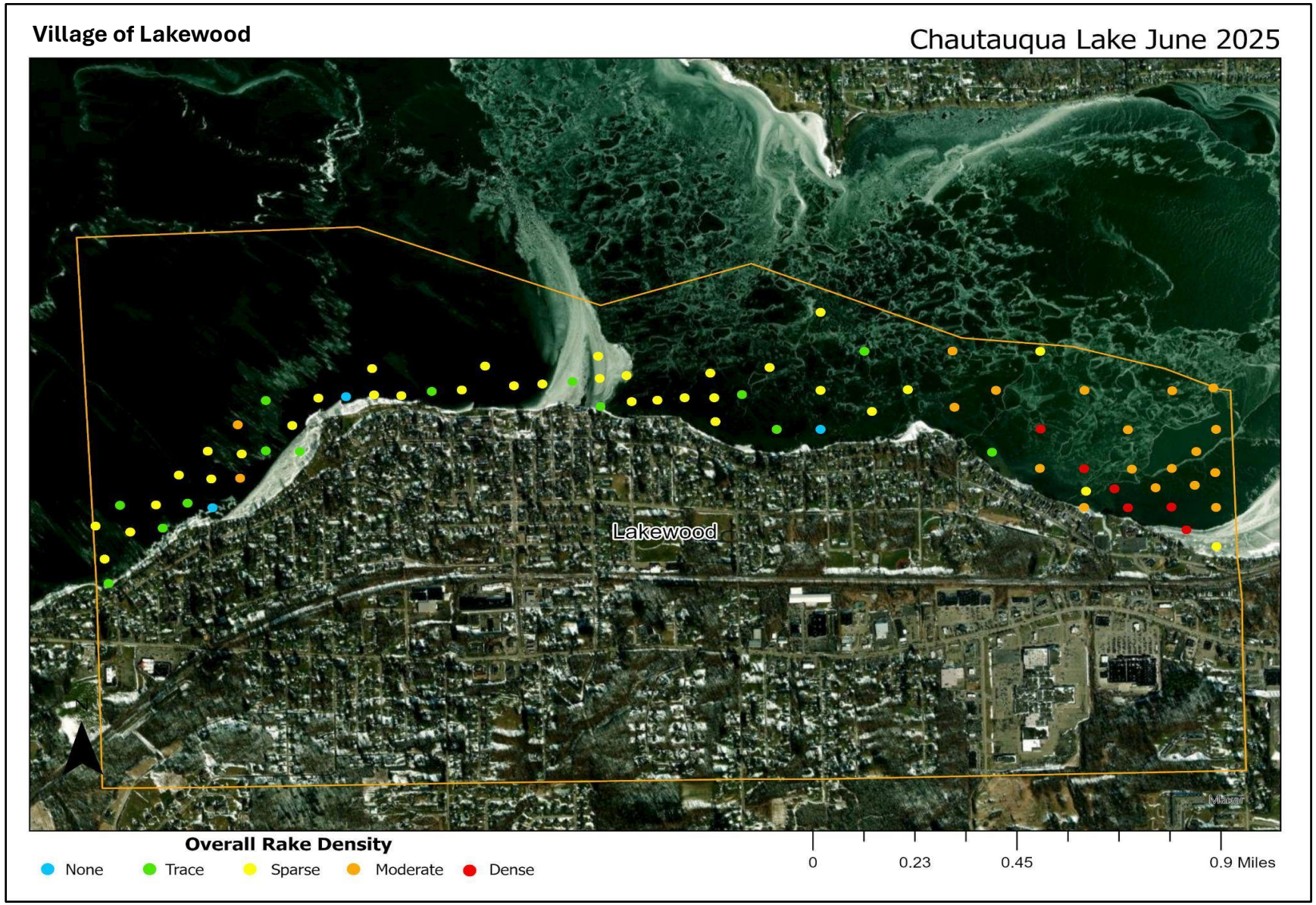



**Figure 16:** Overall rake density of surveyed points in the Village of Lakewood during the June 2025 aquatic vegetation survey at Chautauqua Lake.

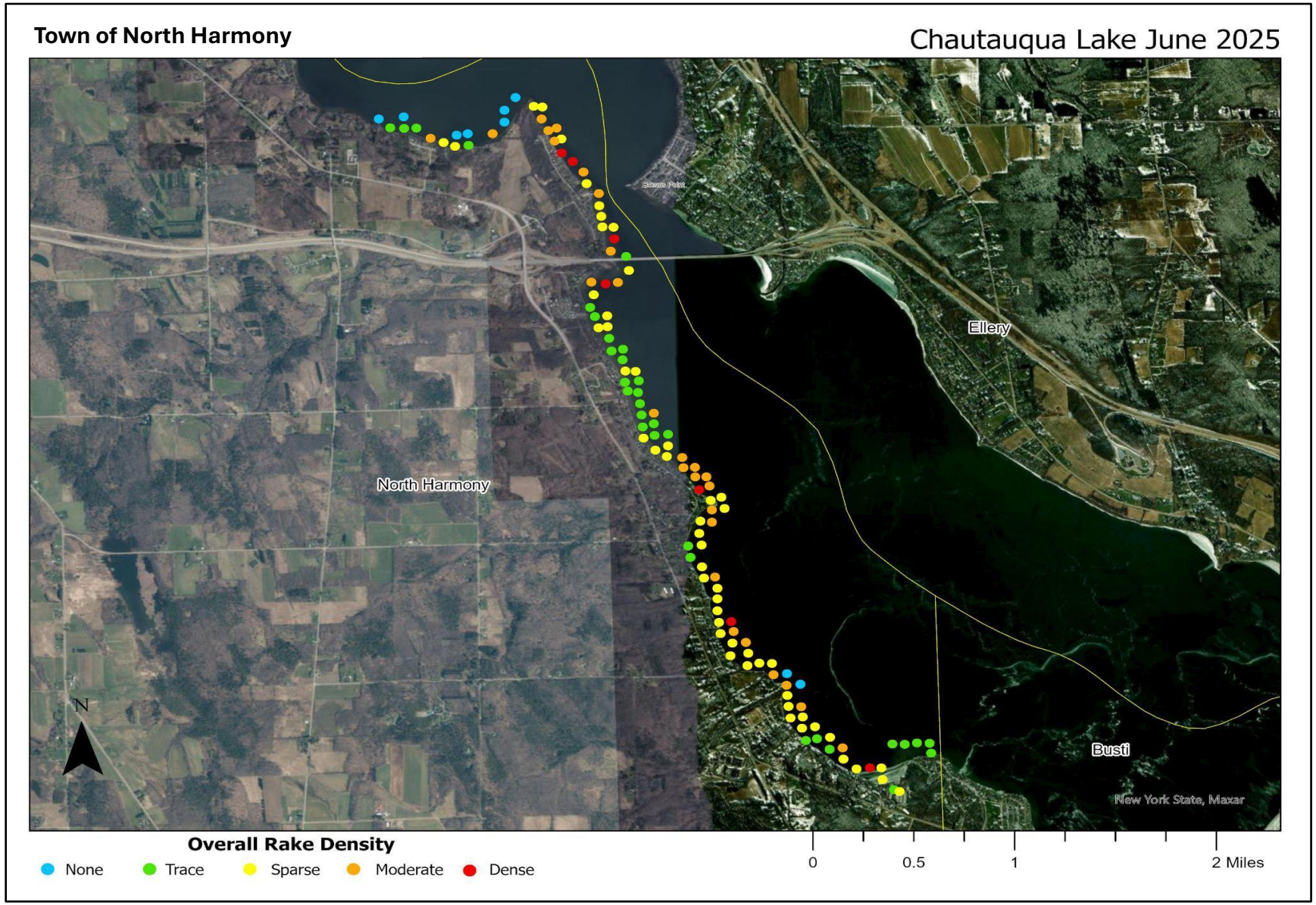



**Figure 17:** Overall rake density of surveyed points in the Town of North Harmony during the June 2025 aquatic vegetation survey at Chautauqua Lake.

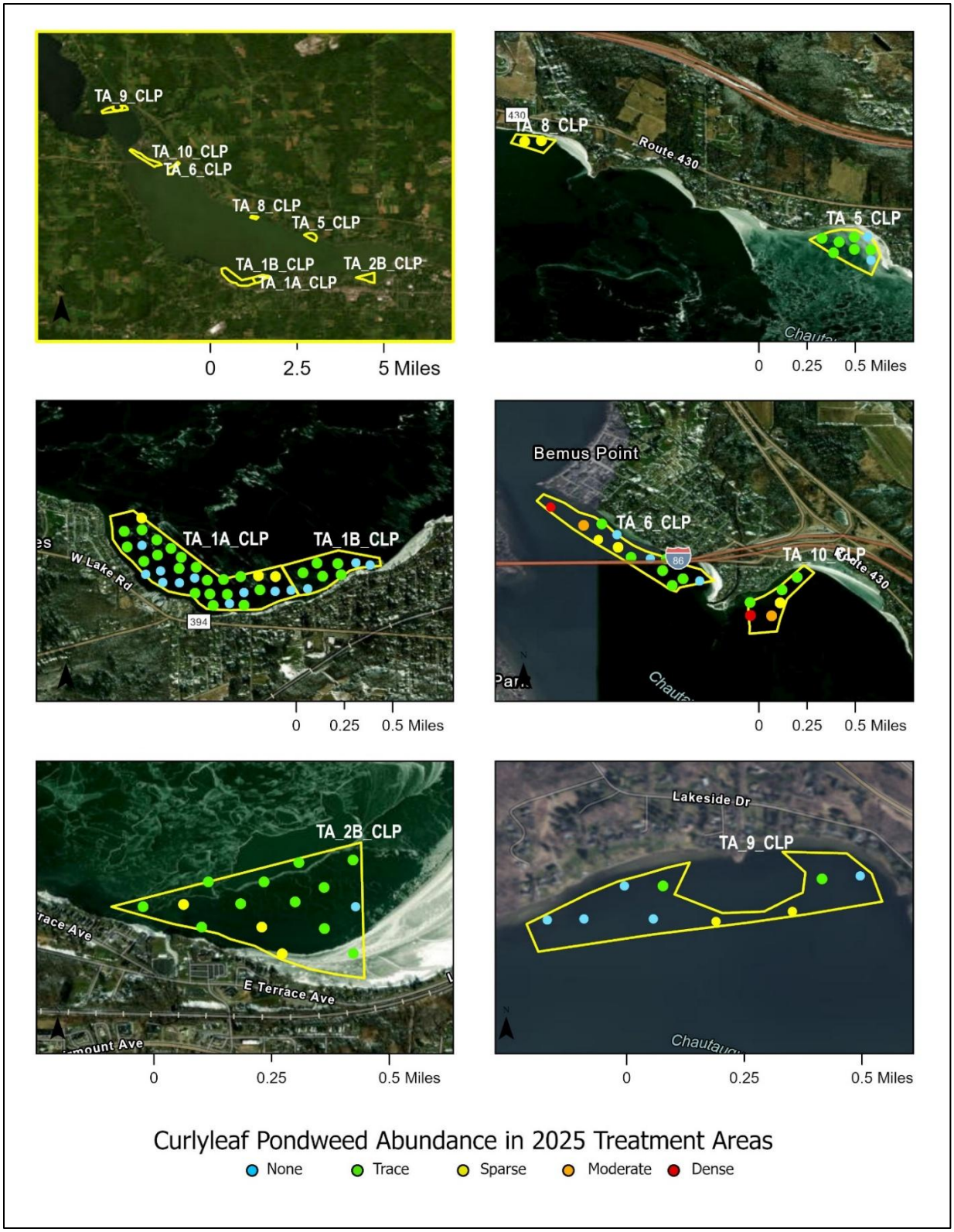
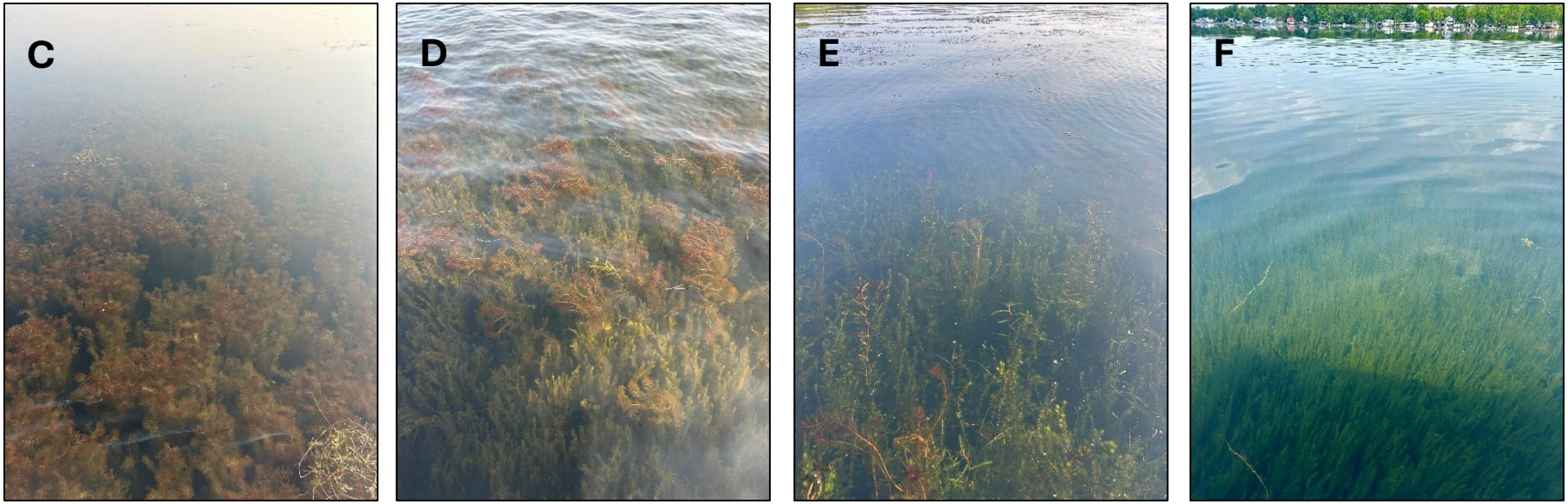



**Figure 18:** Summary of curlyleaf pondweed abundance within April 2025 Treatment Areas. All treatment areas were treated with Clearcast (imazamox) 4/28/25 – 4/29/25; approx. 1 month prior to survey.


**Figure 19***:* Documented Eurasian watermilfoil (EWM) during the Spring 2025 survey. A) Healthy EWM stem tips sampled from Burtis Bay; B) Northern watermilfoil (left) and Eurasian watermilfoil (right) distinguished by leaflet count and overall leaf shape. C-F) Examples of sites where EWM was classified as dense (C), moderate (D), sparse (E), and no EWM present in Burtis Bay.



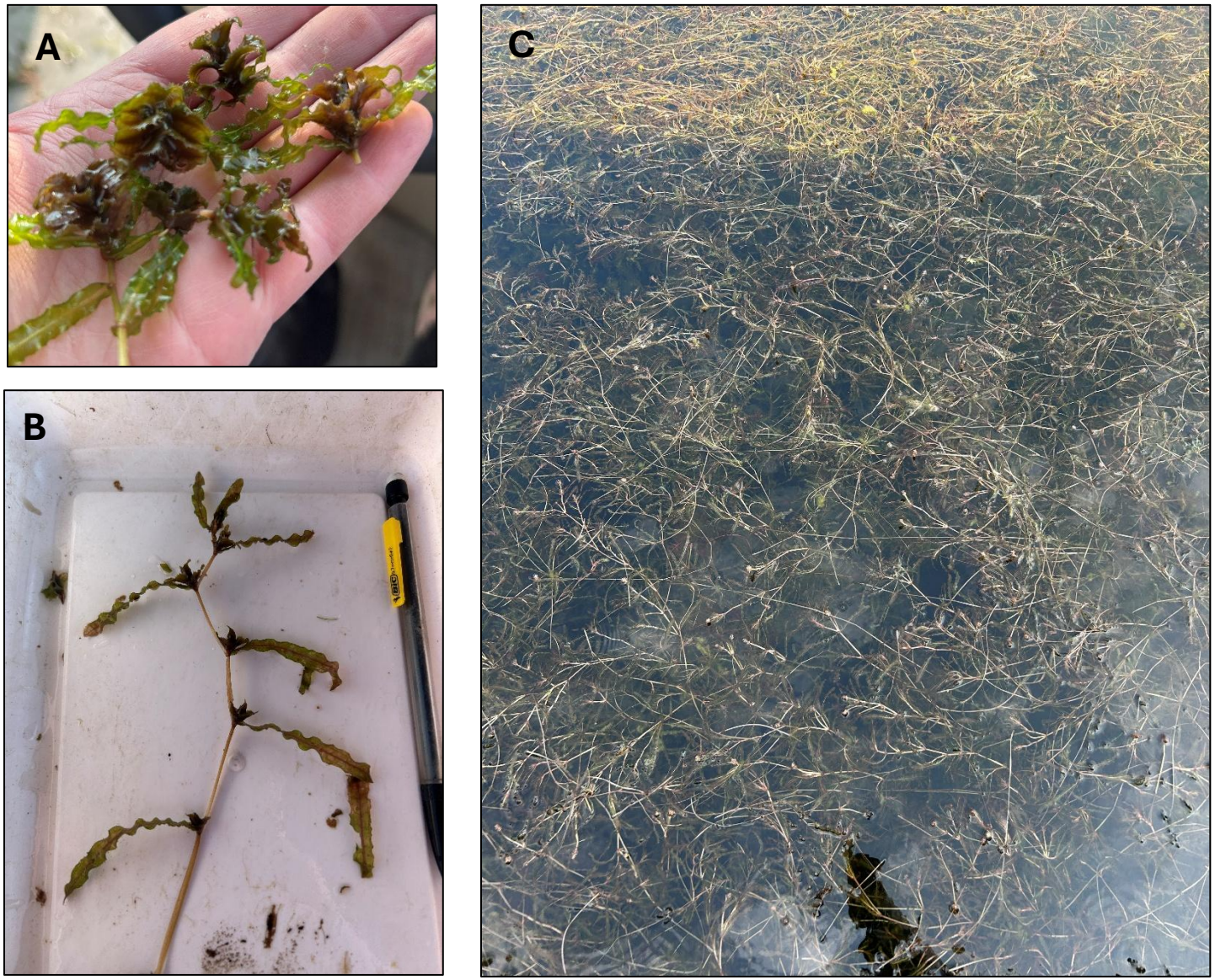



**Figure 20:** A) Newly-formed curlyleaf pondweed (CLP) turions collected during the survey; B) Example of maturing turions forming along a CLP stem; C) topped out, flowering CLP observed in North Harmony near the Southern Tier Expressway (I-86) Bridge.

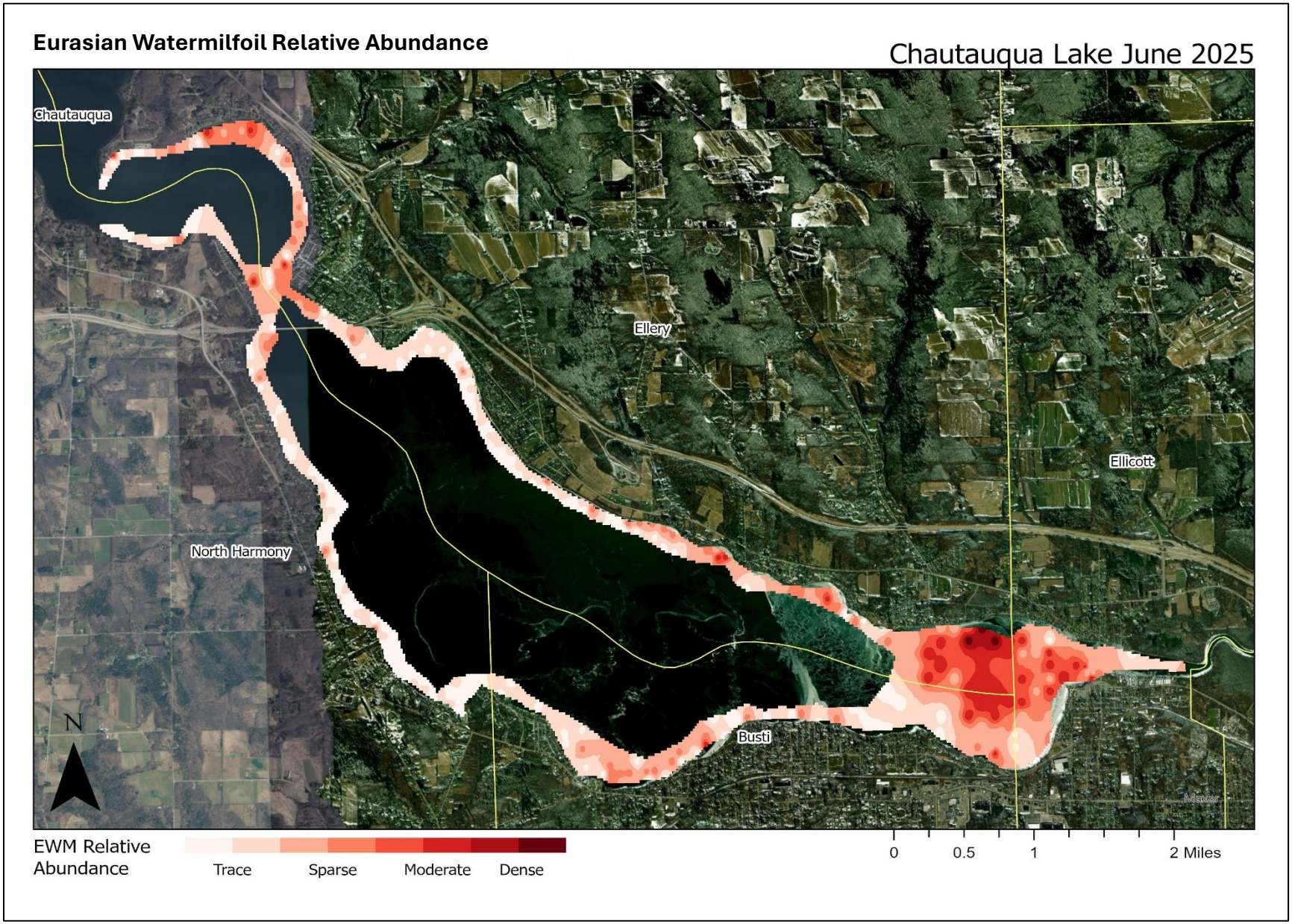



**Figure 21:** Relative abundance of Eurasian watermilfoil (EWM) recorded during the June 2025 Chautauqua Lake survey.

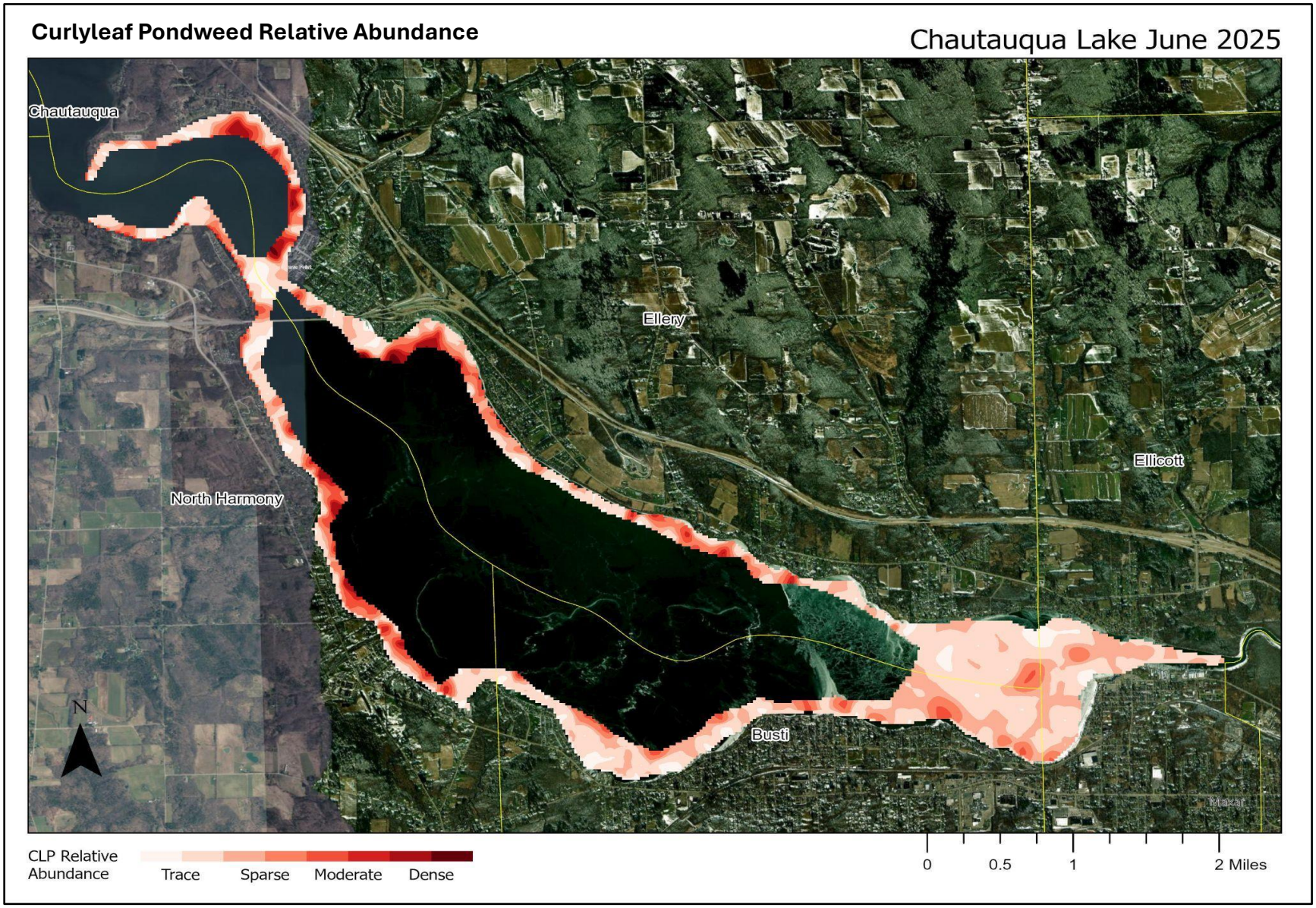



**Figure 22:** Relative abundance of curlyleaf pondweed (CLP) recorded during the June 2025 Chautauqua Lake survey.