

Here are the raw data for the vegetation zonation of Axe Lake collected in 1979
prepared by Paul Keddy in 2018

When I was a young professor at the University of Guelph, I spent some years, and particularly the early summer of 1979, looking for the best example I could find of vegetation zonation in a wetland on a shoreline. I expected to find it on the Great Lakes, but after fruitless searches, the lakes then being in a high-water phase, I explored some interior lakes, including Axe Lake. As I recall, I was led there by an herbarium specimen of *Rhexia virginica* that indicated the presence of wet meadows with rare plants. At that time, the north end of the lake was relatively pristine, with access mostly via boat from an old road leading to an abandoned causeway at the southeast end of the lake. The general ecology of this lake and its flora are described here:

Keddy, P.A. 1981. Vegetation with Atlantic coastal plain affinities in Axe Lake, near Georgian Bay, Ontario. *Canadian Field Naturalist* 95:241-248.



FIGURE 3. The shoreline vegetation at the north end of Axe Lake in a sand shoreline type. Note the gently sloping sand exposed by falling summer water levels. The vegetation types from left to right (above to below waterline) are (1) *Betula papyrifera* (White Birch) and *Pinus strobus* (White Pine) forest, (2) a band of shrubs, principally *Myrica gale*, (3) open sand with *Rhynchospora fusca*, *Lobelia dortmanna*, *Eriocaulon septangulare*, *Drosera intermedia*, and *Utricularia cornuta* (at peak of flower — see lower left of picture), (4) emergents such as *Scirpus torreyi* mixed with *E. septangulare* and *L. dortmanna*, and (5) open water supporting *Scirpus subterminalis*, *Nymphaeoides cordata*, *E. septangulare*, and *L. dortmanna*.

(for a colour version of this photo see *Plant Ecology* 2017 Figure 3.18)

The following data describe the vegetation zonation of the lake along two gradients: elevation (based upon water depth and elevation surveys with an automatic level) and exposure to waves (from a protected bay in the east to an exposed shoreline in the west. Each page represents one transect, going from upper to lower elevations (left to right) – the plant names make this progression obvious. There are 25 transects, each with 20 elevation ranges (beginning 0.5 m above the waterline), for a total of 500 discrete sample units. Each of these sample units can be treated as a quadrat, but strictly speaking they are not, since one dimension of the quadrat is 0.5 m wide, while the other represents a 5 cm elevation range. For each elevation range in each transect, a list of species present and absent is given as 1 and 0. The transects are numbered from 1 (most exposed to waves) to 25 (least exposed to waves.) The sampling methods are described in more detail in the following paper (and three extracted pages follow this introduction.)

Keddy, P.A. 1983. Shoreline vegetation in Axe Lake, Ontario: Effects of exposure on zonation patterns. *Ecology* 64: 331-344.

Here are a few profile sketches of the transects. In this figure, ‘sand’ refers to the transects most exposed to waves, while ‘peat’ transects are least exposed to waves. In each case, the upper level of the transect is dominated by shrubs, while the lower level of the transect is dominated by aquatic plants.

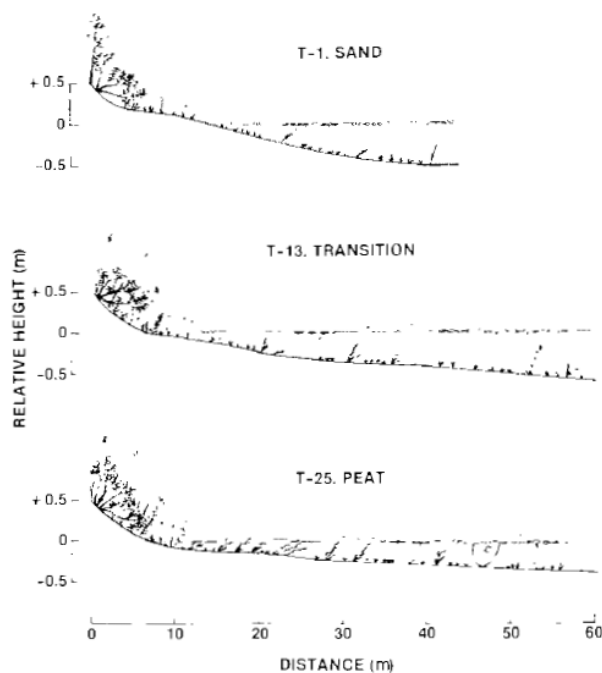


FIGURE 4. Diagrammatic profiles through transects representing the three main shoreline types studied. Note the increasing plant cover from sand through transition to peat shorelines.

All of these plants were documented by herbarium specimens confirmed by experts. I was careful about this work. In some cases—particularly noteworthy species—duplicates were sent to Agriculture Canada and the University of Toronto Herbarium. (Note that you should not look for my personal supporting specimens. Many of the original specimens were lost when I became ill

in the late 1980s. I was unable to care for the herbarium in my lab, and some specimens were consumed by insects. When the University of Ottawa shut down my lab, both specimens, seed collections, and some raw data were simply thrown into trash bins. The data here were among those I rescued on a one day visit.)

These data were scanned in 2018 from computer printouts kept in my personal archives. This data set is still likely one of the best for documenting vegetation zonation along an elevation gradient in a shoreline wetland. They therefore illustrate the many types of wetland (and aquatic) vegetation found in the Georgian Bay area. Their initial significance for plant ecology is described in the above 1983 paper, and the longer term significance in relation to more recent zonation studies is summarized in the following book in a section titled “Empirical studies of patterns along gradients” on pages 441-448.

Keddy, P.A. 2017. *Plant Ecology: Origins, Processes Consequences*. Cambridge University Press, Cambridge, UK. 604 p.

Axe Lake was also the site for many other studies over nearly a decade. Some of the relevant papers are in the following list. The full list can be found on my web site www.drpaulkeddy.com. Scott Wilson was the graduate student who carried out much of the experimental work. He became a professor of plant ecology, and is now retired.

Keddy, P.A. 1982. Quantifying within lake gradients of wave energy: Inter relationships of wave energy, substrate particle size and shoreline plants in Axe Lake, Ontario. *Aquatic Botany* 14:41-58.

Wilson, S. D., P.A. Keddy, and D. L. Randall. 1985. The distribution of *Xyris difformis* Chapman along an environmental gradient: an experimental study. *Canadian Journal of Botany* 63:1226-1230.

Wilson, S. D. and P.A. Keddy. 1985. The shoreline distribution of *Juncus pelocarpus* along a gradient of exposure to waves: an experimental study. *Aquatic Botany* 21:277-284.

Keddy, P.A. 1985. Wave disturbance on lakeshores and the within-lake distribution of Ontario's Atlantic coastal plain flora. *Canadian Journal of Botany* 63:656-660.

Wilson, S. D. and P.A. Keddy. 1985. Plant zonation on a lakeshore gradient: physiological response curves of component species. *Journal of Ecology* 73:851-860.

Wilson, S. D. and P.A. Keddy. 1986. Species competitive ability and position along a natural stress/disturbance gradient. *Ecology* 67:1236-1242.

Wilson, S. D. and P.A. Keddy. 1986. Measuring diffuse competition along an environmental gradient: results from a shoreline plant community. *The American Naturalist* 127: 862-869.

Wilson, S. D. and P.A. Keddy. 1988. Survivorship, biomass accumulation and species richness along an environmental gradient. *Oikos* 53:375-380.

Keddy, P.A. 1989. Effects of competition from shrubs on herbaceous wetland plants: a four year field experiment. *Canadian Journal of Botany* 67: 708-716.

In addition, when I worked at the University of Ottawa (1982-1999) we sometimes collected living plants from Axe Lake for use in research there. For example, seeds and adult plants from Axe Lake were used screening for life history traits, in work such as:

Shipley, B., P.A. Keddy, D.R.J. Moore and K. Lemky. 1990. Regeneration and establishment strategies of emergent macrophytes. *Journal of Ecology* 77: 1093-1110.

McCanny, S. J., P.A. Keddy, T. J. Arnason, C.L. Gaudet, D.R.J. Moore and B. Shipley. 1990. Fertility and the food quality of wetland plants: a test of the resource availability hypothesis. *Oikos* 59: 373-381.

There is one more reason the data are important. I have not visited the site in more than a decade. Sadly, I am told that there is now a cottage development on the lake, and the north shore has been badly damaged by all terrain vehicles. Hence, it would no longer be possible to collect such data, and given the pace of development in the Muskoka area overall, this data set may be the best record we have of the original vegetation of gently sloping shorelines on lakes east of Georgian Bay.

If you wish to put these data into a regional conservation context, my web page on this topic is http://www.drpaulkeddy.com/conserv_ontarioacpflora.html. The key reference paper is:

Keddy, C.J. and M.J. Sharp. 1994. A protocol to identify and prioritize significant coastal plain plant assemblages for conservation. *Biological Conservation* 68: 269-274.

I wish you well with further use of these data.

Regards, Paul Keddy, Ph.D., FSWS, MSM.

munities along environmental gradients: intertidal invertebrates (Connell 1961, Underwood 1978b, Lubchenco 1980), birds on mountainsides (Terborgh 1971, Diamond 1973), mosses in bogs (Vitt and Slack 1975), vascular plants in salt marshes (Pielou and Routledge 1976), desert cacti (Yeaton and Cody 1979), mangroves on shorelines (Rabinowitz 1978), trees on altitudinal gradients (Whittaker 1956), and insects on altitudinal gradients (Dearn 1977).

The independent variable will be exposure. Exposure is clearly correlated with environmental disturbance, and it is therefore possible first to test the intermediate disturbance hypothesis (Connell 1978, Huston 1979, Sousa 1979), which predicts that species richness should peak at intermediate levels of environmental disturbance. By studying these gradients, however, it is possible to determine not only whether disturbance affects the number of species, but whether it affects their interactions. Two questions can be asked: (1) Does environmental disturbance affect the mean niche width of lakeshore assemblages? (2) Does environmental disturbance affect the degree to which groups of lakeshore species share similar upper or lower depth limits? Thus, it is possible to determine whether environmental disturbance affects either the degree of specialization of species, or their tendency to occur in discrete "communities."

The effects of exposure may also be summarized in the terminology of Sanders (1968), who proposed that communities could be arranged along a gradient from "biologically accommodated" to "physically controlled" conditions. The former refers to communities where physical conditions are rather constant, and physiological stress arises predominantly from biological interactions (e.g., competition). The latter refers to communities where physiological stress results primarily from physical factors (e.g., fluctuations in temperature or salinity), and thus where biological interactions are less important. Grime (1977) has recently proposed that two distinct sets of such physical factors influence plants: disturbance and stress. The former is associated with partial or total destruction of plant biomass; the latter is associated with conditions that restrict production (e.g., shortages of light, water, or mineral nutrients). He concludes that plants have different adaptive strategies for these two types of physical control. Both of these factors are likely correlated with exposure, since more exposed shores are not only more disturbed, but tend to have coarse nutrient-poor substrates; the fine, nutrient-rich particles and organic matter are removed and deposited in sheltered areas (e.g., Pearsall 1920, Spence 1967, Hutchinson 1975, Keddy 1982). Huston (1979) has emphasized that the balance between frequency of disturbance and rate of competitive displacement should ultimately determine the species composition of an assemblage. The rate of competitive displacement, in turn, is a function of growth rates of competitive dominants. Lakeshores

with high disturbance have nutrient-poor sediments, and therefore low potential for plant growth. Any decreases in nutrient availability with increasing exposure therefore ought to accentuate, not mask, the effects of disturbance.

The object of this paper, therefore, is to examine the effect of exposure on zonation patterns. While many studies have examined one gradient, only a few (such as Whittaker 1956) have shown how a second gradient (topography) interacts with a first (altitude). By quantitatively examining how species distributions along a relative height gradient interact with a gradient of increasing wave energy (exposure), I will examine the following questions regarding species composition on lakeshores.

1) Does increasing exposure affect species richness? (I will show that richness peaks at an intermediate level of exposure.)

2) Does increasing exposure affect the mean niche width of a lakeshore assemblage? (I will show that mean niche width is neither a function of exposure nor of species richness.)

3) Does increasing exposure affect the degree to which groups of species share similar upper or lower depth limits? (I will show that the upper limits of species are clustered, as are the lower limits, thereby producing discrete communities along the relative height gradient. The arrangement of clustering changes significantly with exposure.)

In presenting the results, however, the distribution patterns of selected shoreline species will be examined first. This will not only provide some general natural history of the community concerned, but will aid in interpreting the answers to questions 1 through 3.

Description of study area

Axe Lake occurs along the boundary of Parry Sound District and Muskoka District east of Georgian Bay in Ontario, Canada, ≈ 20 km northwest of the town of Huntsville (Fig. 1). It is an extremely shallow lake with a sandy bottom and very gently sloping shorelines. Most of the upper shoreline is dominated by ericaceous shrubs, often with an adjacent zone of emergent herbaceous species. During the spring, the gently sloping sand shores are covered in water, but as the summer progresses, expanses of open sand and herbaceous vegetation are exposed by falling water levels. Floating bog mats are found around the southern shore. Near the north end is an open sandy area which grades into peat bog shoreline to both the east and the west. Many other small lakes in the area are entirely surrounded by floating bog mats. This gradation from open sand to peat bog was the primary study area. There are marked changes in the species composition of shoreline vegetation along this gradient (Keddy 1981).

The geological history and floristics of Axe Lake are discussed in more detail in Keddy (1981). The lake is a remnant of the former shoreline of glacial Lake Al-

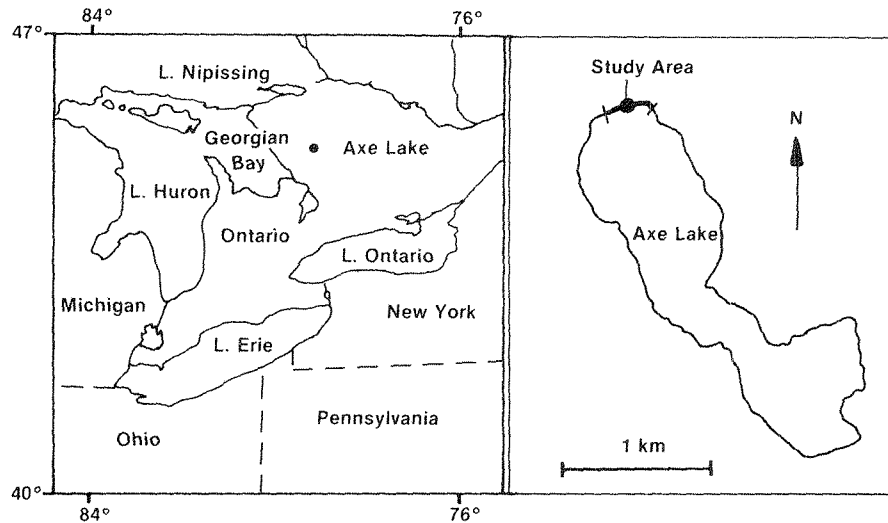


FIG. 1. Location of Axe Lake and the study area.

gonquin, and the flora has affinities to the Atlantic coastal plain of eastern North America. The open sandy shores of Axe Lake support species such as: *Rhexia virginica*, *Xyris caroliniana*, *Juncus militaris*, *Nymphoides cordata*, *Muhlenbergia uniflora*, and *Rhynchospora capitellata*, which are considered rare in Ontario (Argus and White 1977). These and other species are largely restricted to the Georgian Bay area of Ontario (Keddy and Reznicek 1982), with other disjunct concentrations on the southern end of Lake Michigan (Peattie 1922) and the sand barrens of northwestern Wisconsin (McLaughlin 1932).

The exposure gradient

The size of waves reaching a shoreline will be influenced by many factors including fetch, wind speed, wind duration, and water depth (Keddy 1982). Climatic data show two principal wind directions in this area of Ontario: from the northwest, and from the south. The study area (Fig. 1) has a range of wave energy regimes as a result. The maximum amount of exposure in the study area would be expected at the extreme north end of the lake where the shoreline faces due south and is exposed to south winds with a fetch of at least 1 km. The minimum amount of exposure in the study area would be expected at the northwest end of the lake where the shoreline is protected from both the northwest and south winds. Calculations using wind data from different time periods, and different measures of wind speed, wind duration, and fetch confirmed that such an exposure gradient exists (Keddy 1982). As well as using calculated exposure values, substrate samples were collected in each transect where vegetation was examined. The calculated exposure gradient was strongly positively correlated with a sand-sorting coefficient, and strongly negatively correlated with the proportion of silt and clay in the substrate

(Keddy 1982). The rank order of transects along the shore from east to west therefore represents a gradient from lower to higher exposure to wave energy. This rank order of transects is used as the independent variable in figures relating vegetation to exposure, and therefore nonparametric statistical methods are appropriate. The Kendall rank correlation coefficient, τ , (Siegel 1956) is used throughout to test for monotonic trends in vegetation with exposure. To test for a bi-tonic relationship with exposure, the extension of τ proposed by Ferguson (1965) is used.

METHODS

Sampling procedures

A 600-m section of the perimeter of the northeastern end of the lake was marked; this length of shoreline encompassed most of the range of variation seen in the lake as a whole, from open sand beach to organic shoreline. Random numbers (between 1 and 600) were then chosen until 25 transects were located. These random numbers were accepted subject to the criterion that no pair of transects was to be separated by <10 m, to ensure that the transects would be relatively independent of one another. The transects were then located and sampled in the order in which the random numbers had been drawn. This ensured that variation resulting from changes in observer expertise, working conditions, or plant maturity would be randomly assigned along the shoreline.

Each transect contained a belt of vegetation 0.5 m wide. The exact location of the transect was determined by the random number assigned to it, except that transects were in several cases moved laterally up to 2 m to avoid (1) major departures from a monotonic slope (such as deep channels), or (2) obstacles such as large logs. The belt transects were then sur-

veyed into 5 cm height increments using a Sokkisha B4 automatic level (Sokkisha, Limited, Tokyo, Japan). The waterline was used as the reference point, and for each transect 20 such increments were marked out—from 0.5 m above to 0.5 m below the waterline. Since the water level fell during the study period, everything was surveyed relative to 0 m on the day sampling was commenced; daily corrections were made for falling water levels. The gently sloping nature of the sand shores (illustrated in Keddy 1981) meant that these transects were usually ≈ 40 m long, with extremes up to 130 m.

An observer then started at the top of the transect and recorded the presence of each species in each height increment (initially 45–50 cm above the waterline along the 50 cm wide strip). For sample units deeper than ≈ -20 cm, a snorkel and mask were necessary. The final data for each transect then consisted of lists of species occurrences in 20 height increments (quadrats).

The vegetation was sampled in this manner during the period 13–21 July 1979. This was slightly early for best identification; however, many species had been collected the previous year and were already identified. For most taxa encountered a voucher specimen was pressed and used as a reference for the remainder of the transects. These vouchers are on file in the author's herbarium, and duplicates, where available, are deposited in the University of Toronto Herbarium, Toronto, and the National Herbarium, Ottawa, Ontario, Canada. All problematic taxa (*Potamogeton* and *Carex* in particular) were confirmed or annotated by Dr. A. A. Reznicek (University of Michigan) or Dr. P. W. Ball (Erindale College, University of Toronto). Species names follow Fernald (1950) except for the use of *Triadenum fraseri* for *Hypericum virginicum*.

Seedlings of *Acer rubrum*, which germinated in abundance on shores exposed by receding water, were excluded from the data set since they were an ephemeral component of the vegetation. Three species of *Utricularia* (*U. gibba*, *U. purpurea*, and *U. vulgaris*) were also excluded because they occurred primarily as floating fragments rather than rooted plants, and thus were probably little affected by relative height (or water depth).

Frequently aquatic species such as *Nymphoides cordata* occurred well above the July waterline on open sand beach. To test whether these were ephemeral occupants of this habitat, marked quadrats were established. The object was to test whether these species would die during August from being stranded, and therefore to determine whether zonation patterns changed significantly with the seasons. A row of 10 contiguous 1 \times 1 m quadrats was established at each of three heights (28, 22, and 20 cm) above the July water line. These quadrats represented open sand beach. A metre-square quadrat subdivided by strings into 25 20 \times 20 cm subquadrats was placed over each

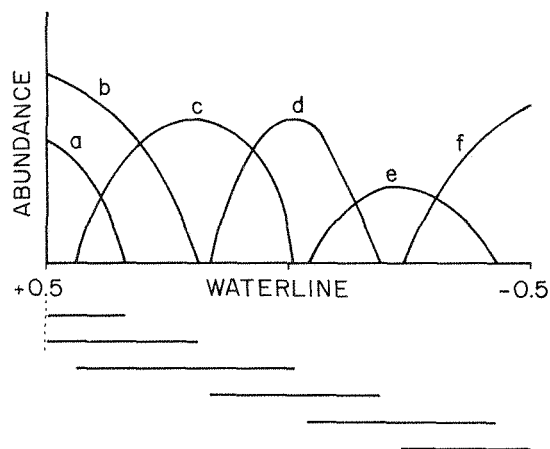


FIG. 2. Hypothetical depth distribution of six species in a lakeshore transect, showing complete species (c, d, e) and incomplete species (a, b, f). The former can be considered true shoreline species, while the latter can be divided into terrestrial species (a, b) and aquatic species (f).

quadrat in turn. The presence or absence of *Eriocaulon septangulare*, *Lobelia dortmanna*, and *Nymphoides cordata* was recorded for each subquadrat, yielding frequency estimates ($n = 750$). This was carried out on 18 July and 22 September 1979 on the same quadrats.

Data analysis

Niche width.—Fig. 2 shows a hypothetical depth distribution for six species in a lakeshore transect. The lower part of the figure shows the presence/absence data, which could easily be recorded as a matrix of zeros and ones. Note that there are two groups of species. One group (to be designated as “shoreline” species) are completely known in terms of their upper and lower limits—Fig. 2c, d, e. The other group is only partly known. Either their landward limits are unknown (for terrestrial species, Fig. 2a, b) or their waterward limits are unknown (for aquatic species, Fig. 2f). First, consider measures of niche width based only on true “shoreline” species. All species that occur in either of the end quadrats on the transect are excluded from the data set. (Note: for the sake of clarity, the term “shoreline species” will be used to refer specifically to this group of species which narrowly span the waterline; the term “lakeshore species” will be used to refer to all species growing in the lakeshore transects.)

Niche width can be defined as the range of relative heights occupied. For any species C , the range occupied would be $C_{\max} - C_{\min}$. If this species happens by chance to be absent from some intermediate depths, the measure is unaffected. Let W_c represent the range occupied by species C . Then, mean range for a particular transect with s species is simply

$$\left(\sum_{i=1}^s W_i \right) / s$$

NAME OF LAKE: AXESPECIES

TRANSECT NUMBER: 1

0.5 to 0.45 m above
water line in July 19790.45 to 0.5 m below
water line in July 1979

-----DATA SUMMARY-----

SPECIES NAME

DATA

1 MYRICA GALE	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2 ALNUS RUGOSA	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0
5 VIBURNUM CASSINOIDES	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12 ASTER NEMORALIS	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14 LYSIMACHIA TERRESTRIS	0	0	0	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0
17 JUNCUS PELOCARPUS	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0
36 HYPERICUM BOREALE	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0
37 DROSER A INTERMEDIA	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0
39 ERIOCAULON SEPTANGULARE	0	0	0	0	0	1	1	1	1	1	1	1	0	1	1	1	1	1	1
46 UTRICULARIA CORNUTA	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	0	0
48 JUNCUS MILITARIS	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
49 LOBELIA DORTMANNA	0	0	0	0	0	0	1	0	0	0	1	1	1	1	1	0	1	0	0
50 NYMPHOIDES CORDATA	0	0	0	0	0	0	1	1	1	0	1	1	1	1	1	1	1	1	1
51 SCIRPUS SUBTERMINALIS	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0
53 MYRIOPHYLLUM TENELLUM	0	0	0	0	0	0	0	0	0	1	1	1	0	1	1	1	1	1	1
56 UTRICULARIA RESUPINATA	0	0	0	0	0	0	0	0	0	0	1	1	1	1	0	0	0	0	0

Note: the preface
to this printout
explains the
sampling methods
and provides
citations to relevant
published papers

[illegible]

NAME OF LAKE: AXESPECIES

TRANSECT NUMBER: 2

-DATA SUMMARY-

[illegible]

NAME OF LAKE: AXESPECIES

TRANSECT NUMBER: 3

----- DATA SUMMARY -----

SPECIES NAME

DATA

1 MYRICA GALE	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12 ASTER NEMORALIS	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13 TRIADENUM FRASERI	0	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14 LYSIMACHIA TERRESTRIS	1	1	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0
15 LYCOPUS UNIFLORUS	0	1	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0
16 VIOLA LANCEOLATA	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
17 JUNCUS PELOCARPUS	0	0	0	0	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0
18 BIDENS SP.	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35 HYPERICUM ELLIPTICUM	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
36 HYPERICUM BOREALE	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
37 DROSER A INTERMEDIA	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
38 RHYNCHOSPORA FUSCA	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0
39 ERIOCAULON SEPTANGULARE	0	0	0	0	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0
40 CLADIUM MARISCOIDES	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
41 XYRIS CAROLINIANA	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
42 SCRIPUS TORREYI	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
43 JUNCUS CANADENSIS	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
46 UTRICULARIA CORNUTA	0	0	0	0	1	1	1	0	1	1	1	0	1	0	0	0	0	0	0
49 LOBELIA DORTMANNA	0	0	0	0	1	1	1	0	0	1	1	1	1	1	1	0	0	0	0
50 NYMPHOIDES CORDATA	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
51 SCIRPUS SUBTERMINALIS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
53 MYRIOPHYLLUM TENELLUM	0	0	0	0	0	0	0	0	0	1	0	0	0	1	1	1	1	1	0
56 UTRICULARIA RESUPINATA	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0

NAME OF LAKE: AXESPECIES

TRANSECT NUMBER: 4

-----DATA SUMMARY-----

SPECIES NAME

DATA

1 MYRICA GALE	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2 ALNUS RUGOSA	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12 ASTER NEMORALIS	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13 TRIADENUM FRASERI	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14 LYSIMACHIA TERRESTRIS	0	1	1	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
15 LYCOPUS UNIFLORUS	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16 VIOLA LANCEOLATA	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17 JUNCUS PELOCARPUS	0	0	0	0	0	1	1	0	1	0	0	1	0	1	1	0	0	0	0
35 HYPERICUM ELLIPTICUM	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0
37 DROSER A INTERMEDIA	0	0	0	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0
38 RHYNCHOSPORA FUSCA	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0
39 ERIOCAULON SEPTANGULARE	0	0	0	0	0	1	1	1	1	0	0	1	1	1	1	1	1	1	0
40 CLADIUM MARISCOIDES	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
46 UTRICULARIA CORNUTA	0	0	0	0	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0
48 JUNCUS MILITARIS	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
49 LOBELIA DORTMANNA	0	0	0	0	0	1	1	1	0	0	0	1	1	1	0	1	1	0	0
50 NYMPHOIDES CORDATA	0	0	0	0	0	1	1	1	1	0	0	1	1	1	1	1	1	1	1
51 SCIRPUS SUBTERMINALIS	0	0	0	0	0	0	0	0	0	0	1	0	0	1	1	0	0	0	0
53 MYRIOPHYLLUM TENELLUM	0	0	0	0	0	0	1	1	0	0	0	1	1	1	1	1	1	1	0

NAME OF LAKE: AXESPECIES

TRANSECT NUMBER: 5

- DATA SUMMARY -

[illegible]

NAME OF LAKE: AXESPECIES

TRANSECT NUMBER: 6

-----DATA SUMMARY-----

SPECIES NAME

DATA

3 NEMOPANTHUS MUCRONATA	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12 ASTER NEMORALIS	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14 LYSIMACHIA TERRESTRIS	0	1	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0
15 LYCOPUS UNIFLORUS	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16 VIOLA LANCEOLATA	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17 JUNCUS PELOCARPUS	0	0	0	1	1	1	1	1	0	0	1	0	0	0	0	0	0	0	0
36 HYPERICUM BOREALE	0	0	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0
37 DROSERA INTERMEDIA	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0
38 RHYNCHOSPORA FUSCA	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0
39 ERIDCAULON SEPTANGULARE	0	0	0	0	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1
41 XYRIS CAROLINIANA	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0
44 JUNCUS BREVICAUDATUS	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
46 UTRICULARIA CORNUTA	0	0	0	0	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0
49 LOBELIA DORTMANNA	0	0	0	0	0	1	1	0	0	0	1	0	0	1	1	1	1	0	0
50 NYMPHOIDES CORDATA	0	0	0	0	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1
51 SCIRPUS SUBTERMINALIS	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0
53 MYRIOPHYLLUM TENELLUM	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	0
56 UTRICULARIA RESUPINATA	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0

[illegible]

NAME OF LAKE: AXESPECIES

TRANSECT NUMBER: 7

- DATA SUMMARY

[illegible]

NAME OF LAKE: AXESPECIES

TRANSECT NUMBER: 8

-- DATA SUMMARY:

SPECIES NAMEDATA[illegible]

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46 UTRICULARIA CORNUTA

49 LOBELIA DORTMANNA

50 NYMPHOIDES CORDATA

51 SCIRPUS SUBTERMINALIS

53 MYRIOPHYLLUM TENELLUM

54 UTRICULARIA VULGARIS

55 UTRICULARIA INTER

57 UTRICULARIA GIBBA

58 UTRICULARIA PURPUREA

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NAME OF LAKE: AXESPECIES

TRANSECT NUMBER: 11

- DATA SUMMARY -

SPECIES NAME		DATA																			
1	MYRICA GALE	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
6	VACCINIUM MACROCARPON	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
12	ASTER NEMORALIS	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
13	TRIADENUM FRASERI	0	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	
14	LYSIMACHIA TERRESTRIS	1	0	1	1	1	1	0	1	1	0	0	0	0	0	0	0	0	0	0	
15	LYCOPUS UNIFLORUS	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
16	VIOLA LANCEOLATA	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	
17	JUNCUS PELOCARPUS	0	0	0	0	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	
19	MUHLENBERGIA UNIFLORA	1	1	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	
20	RHEXIA VIRGINICA	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
24	DULICHIMUM ARUNDINACEUM	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	
35	HYPERICUM ELLIPTICUM	0	0	1	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	
36	HYPERICUM BOREALE	0	0	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	
37	DROSELA INTERMEDIA	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	
38	RHYNCHOSPORA FUSCA	0	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	
39	ERIOCAULON SEPTANGULARE	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	
40	CLADIUM MARISCOIDES	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	
41	XYRIS CAROLINIANA	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	
42	SCRIPUS TORREYI	0	0	0	0	0	0	0	0	1	1	1	1	1	0	0	0	0	0	0	
43	JUNCUS CANADENSIS	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	
46	UTRICULARIA CORNUTA	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	
48	JUNCUS MILITARIS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
49	LOBELIA DORTMANNA	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	
50	NYMPHOIDES CORDATA	0	0	0	0	0	0	0	0	1	1	1	0	1	1	1	1	1	1	1	
51	SCRIPUS SUBTERMINALIS	0	0	0	0	0	0	0	0	0	1	1	0	1	0	1	1	1	1	1	
53	MYRIOPHYLLUM TENELLUM	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	
54	UTRICULARIA VULGARIS	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	
55	UTRICULARIA INTERMEDIA	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	1	0	
56	UTRICULARIA RESUPINATA	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	
57	UTRICULARIA GIBBA	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	0	0	1	
58	UTRICULARIA PURPUREA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	0	
59	NUPHAR VARIEGATUM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
60	BRASENIA SCHREBERI	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	

1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 76. 77. 78. 79. 80. 81. 82. 83. 84. 85. 86. 87. 88. 89. 90. 91. 92. 93. 94. 95. 96. 97. 98. 99. 100. 101. 102. 103. 104. 105. 106. 107. 108. 109. 110. 111. 112. 113. 114. 115. 116. 117. 118. 119. 120. 121. 122. 123. 124. 125. 126. 127. 128. 129. 130. 131. 132. 133. 134. 135. 136. 137. 138. 139. 140. 141. 142. 143. 144. 145. 146. 147. 148. 149. 150. 151. 152. 153. 154. 155. 156. 157. 158. 159. 160. 161. 162. 163. 164. 165. 166. 167. 168. 169. 170. 171. 172. 173. 174. 175. 176. 177. 178. 179. 180. 181. 182. 183. 184. 185. 186. 187. 188. 189. 190. 191. 192. 193. 194. 195. 196. 197. 198. 199. 200. 201. 202. 203. 204. 205. 206. 207. 208. 209. 210. 211. 212. 213. 214. 215. 216. 217. 218. 219. 220. 221. 222. 223. 224. 225. 226. 227. 228. 229. 230. 231. 232. 233. 234. 235. 236. 237. 238. 239. 240. 241. 242. 243. 244. 245. 246. 247. 248. 249. 250. 251. 252. 253. 254. 255. 256. 257. 258. 259. 260. 261. 262. 263. 264. 265. 266. 267. 268. 269. 270. 271. 272. 273. 274. 275. 276. 277. 278. 279. 280. 281. 282. 283. 284. 285. 286. 287. 288. 289. 290. 291. 292. 293. 294. 295. 296. 297. 298. 299. 300. 301. 302. 303. 304. 305. 306. 307. 308. 309. 310. 311. 312. 313. 314. 315. 316. 317. 318. 319. 320. 321. 322. 323. 324. 325. 326. 327. 328. 329. 330. 331. 332. 333. 334. 335. 336. 337. 338. 339. 340. 341. 342. 343. 344. 345. 346. 347. 348. 349. 350. 351. 352. 353. 354. 355. 356. 357. 358. 359. 360. 361. 362. 363. 364. 365. 366. 367. 368. 369. 370. 371. 372. 373. 374. 375. 376. 377. 378. 379. 380. 381. 382. 383. 384. 385. 386. 387. 388. 389. 390. 391. 392. 393. 394. 395. 396. 397. 398. 399. 400. 401. 402. 403. 404. 405. 406. 407. 408. 409. 410. 411. 412. 413. 414. 415. 416. 417. 418. 419. 420. 421. 422. 423. 424. 425. 426. 427. 428. 429. 430. 431. 432. 433. 434. 435. 436. 437. 438. 439. 440. 441. 442. 443. 444. 445. 446. 447. 448. 449. 450. 451. 452. 453. 454. 455. 456. 457. 458. 459. 460. 461. 462. 463. 464. 465. 466. 467. 468. 469. 470. 471. 472. 473. 474. 475. 476. 477. 478. 479. 480. 481. 482. 483. 484. 485. 486. 487. 488. 489. 490. 491. 492. 493. 494. 495. 496. 497. 498. 499. 500. 501. 502. 503. 504. 505. 506. 507. 508. 509. 510. 511. 512. 513. 514. 515. 516. 517. 518. 519. 520. 521. 522. 523. 524. 525. 526. 527. 528. 529. 530. 531. 532. 533. 534. 535. 536. 537. 538. 539. 540. 541. 542. 543. 544. 545. 546. 547. 548. 549. 550. 551. 552. 553. 554. 555. 556. 557. 558. 559. 560. 561. 562. 563. 564. 565. 566. 567. 568. 569. 570. 571. 572. 573. 574. 575. 576. 577. 578. 579. 580. 581. 582. 583. 584. 585. 586. 587. 588. 589. 590. 591. 592. 593. 594. 595. 596. 597. 598. 599. 600. 601. 602. 603. 604. 605. 606. 607. 608. 609. 610. 611. 612. 613. 614. 615. 616. 617. 618. 619. 620. 621. 622. 623. 624. 625. 626. 627. 628. 629. 630. 631. 632. 633. 634. 635. 636. 637. 638. 639. 640. 641. 642. 643. 644. 645. 646. 647. 648. 649. 650. 651. 652. 653. 654. 655. 656. 657. 658. 659. 660. 661. 662. 663. 664. 665. 666. 667. 668. 669. 670. 671. 672. 673. 674. 675. 676. 677. 678. 679. 680. 681. 682. 683. 684. 685. 686. 687. 688. 689. 690. 691. 692. 693. 694. 695. 696. 697. 698. 699. 700. 701. 702. 703. 704. 705. 706. 707. 708. 709. 710. 711. 712. 713. 714. 715. 716. 717. 718. 719. 720. 721. 722. 723. 724. 725. 726. 727. 728. 729. 730. 731. 732. 733. 734. 735. 736. 737. 738. 739. 740. 741. 742. 743. 744. 745. 746. 747. 748. 749. 750. 751. 752. 753. 754. 755. 756. 757. 758. 759. 760. 761. 762. 763. 764. 765. 766. 767. 768. 769. 770. 771. 772. 773. 774. 775. 776. 777. 778. 779. 780. 781. 782. 783. 784. 785. 786. 787. 788. 789. 790. 791. 792. 793. 794. 795. 796. 797. 798. 799. 800. 801. 802. 803. 804. 805. 806. 807. 808. 809. 810. 811. 812. 813. 814. 815. 816. 817. 818. 819. 820. 821. 822. 823. 824. 825. 826. 827. 828. 829. 830. 831. 832. 833. 834. 835. 836. 837. 838. 839. 840.

NAME OF LAKE: AXESPECIES

TRANSECT NUMBER: 12

DATA SUMMARY

SPECIES NAMEDATA[illegible]

NAME OF LAKE: AXESPECIES

TRANSECT NUMBER: 13

- DATA SUMMARY:

| SPECIES NAME | DATA | | | | | | | | | | | | | | | | | | | |
|----------------------------|------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----|
| 1 MYRICA GALE | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2 ALNUS RUGOSA | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 11 RUBUS HISPIDUS | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 12 ASTER MEMORALIS | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 14 LYSIMACHIA TERRESTRIS | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 16 VIOLA LANCEOLATA | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17 JUNCUS PELOCARPUS | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 19 MUHLENBERGIA UNIFLORA | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 20 RHEXIA VIRGINICA | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 36 HYPERICUM BOREALE | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 37 DROSER A INTERMEDIA | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 38 RHYNCHOSPORA FUSCA | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 39 ERIDCAULON SEPTANGULARE | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 1 |
| 40 CLADIUM MARISCOIDES | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 41 XYRIS CAROLINIANA | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 42 SCRIPUS TORREYI | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 43 JUNCUS CANADENSIS | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 44 JUNCUS BREVICAUDATUS | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 46 UTRICULARIA CORNUTA | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 49 LOBELIA DORTMANNA | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| 50 NYMPHOIDES CORDATA | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 51 SCIRPUS SUBTERMINALIS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 52 ELEOCHARIS PALUSTRIS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| 53 MYRIOPHYLLUM TENELLUM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 |
| 54 UTRICULARIA VULGARIS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 1 | 0 |
| 55 UTRICULARIA INTERMEDIA | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 56 UTRICULARIA RESUPINATA | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 0 | 0 | 0 |
| 57 UTRICULARIA GIBBA | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 0 | 0</ |

NAME OF LAKE: AXESPECIES

TRANSECT NUMBER: 14

-----DATA SUMMARY-----

SPECIES NAME

DATA

| | | | | | | | | | | | | | | | | | | | |
|----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 11 RUBUS HISPIDUS | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 12 ASTER NEMORALIS | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 13 TRIADENUM FRASERI | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 14 LYSIMACHIA TERRESTRIS | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15 LYCOPUS UNIFLORUS | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 16 VIOLA LANCEOLATA | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17 JUNCUS PELOCARPUS | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 19 MUHLENBERGIA UNIFLORA | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 20 RHEXIA VIRGINICA | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 24 DULICHIMUM ARUNDINACEUM | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 25 CAREX ROSTRATA | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 35 HYPERICUM ELLIPTICUM | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 36 HYPERICUM BOREALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 37 DROSER A INTERMEDIA | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 39 ERIOCAULON SEPTANGULARE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 40 CLADIUM MARISCOIDES | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 41 XYRIS CAROLINIANA | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 42 SCRIPUS TORREYI | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 0 | 0 |
| 43 JUNCUS CANADENSIS | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 44 JUNCUS BREVICAUDATUS | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 47 PONTEDERIA CORDATA | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 48 JUNCUS MILITARIS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| 49 LOBELIA DORTMANNA | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| 50 NYMPHOIDES CORDATA | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 |
| 51 SCIRPUS SUBTERMINALIS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 52 ELEOCHARIS PALUSTRIS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 1 |
| 54 UTRICULARIA VULGARIS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 55 UTRICULARIA INTERMEDIA | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| 57 UTRICULARIA GIBBA | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 |
| 59 NUPHAR VARIEGATUM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 |
| 60 BRASENIA SCHREBERI | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 1 |
| 61 NYMPHAEA ODORATA | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 1 |

NAME OF LAKE: AXESPECIES

TRANSECT NUMBER: 15

- DATA SUMMARY:

| SPECIES NAME | | DATA | | | | | | | | | | | | | | | | | | | |
|--------------|-------------------------|------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| 1 | MYRICA GALE | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 4 | SPIREA ALBA | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 6 | VACCINIUM MACROCARPON | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 11 | RUBUS HISPIDUS | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 12 | ASTER NEMORALIS | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 13 | TRIADENUM FRASERI | 0 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 14 | LYSIMACHIA TERRESTRIS | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 16 | VIOLA LANCEOLATA | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 17 | JUNCUS PELOCARPUS | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 19 | MUHLENBERGIA UNIFLORA | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 20 | RHEXIA VIRGINICA | 0 | 1 | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 24 | DULICHIMUM ARUNDINACEUM | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 25 | CAREX ROSTRATA | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 26 | PANICUM LANUGINOSUM | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 27 | CAREX MICHAUXIANA | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 35 | HYPERICUM ELLIPTICUM | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 37 | DROSER A INTERMEDIA | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 38 | RHYNCHOSPORA FUSCA | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 39 | ERIOCAULON SEPTANGULARE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | |
| 40 | CLADIUM MARISCOIDES | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 41 | XYRIS CAROLINIANA | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 42 | SCRIPUS TORREYI | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | |
| 43 | JUNCUS CANADENSIS | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 44 | JUNCUS BREVICAUDATUS | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 47 | PONTERDERIA CORDATA | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 48 | JUNCUS MILITARIS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | |
| 49 | LOBELIA DORTMANNA | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | |
| 50 | NYMPHOIDES CORDATA | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 1 | 1 | 1 | |
| 51 | SCRIPUS SUBTERMINALIS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| 52 | ELEOCHARIS PALUSTRIS | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 54 | UTRICULARIA VULGARIS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | |
| 56 | UTRICULARIA RESUPINATA | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | |
| 60 | BRASENIA SCHREBERI | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | |
| 61 | NYMPHAEA ODORATA | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 63 | POTAMOGETON OAKESIANUS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | |

NAME OF LAKE: AXESPECIES

TRANSECT NUMBER: 16

-----DATA SUMMARY-----

SPECIES NAME

DATA

| | | | | | | | | | | | | | | | | | | | |
|-----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 MYRICA GALE | 1 | 1 | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 6 VACCINIUM MACROCARPON | 0 | 0 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 9 PYRUS ARBUTIFOLIA | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 11 RUBUS HISPIDUS | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 12 ASTER NEMORALIS | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 13 TRIADENUM FRASERI | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 14 LYSIMACHIA TERRESTRIS | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15 LYCOPUS UNIFLORUS | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 16 VIOLA LANCEOLATA | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17 JUNCUS PELOCARPUS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 21 CAREX STRICTA | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 24 DULICHIMUM ARUNDINACEUM | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 25 CAREX ROSTRATA | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 28 CALAMAGROSTIS CANADENSIS | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 29 GLYCERIA CANADENSIS | 0 | 0 | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 30 CAREX OLIGOSPERMA | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 31 CAREX ECHINATA | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 32 CAREX VESICARIA | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 35 HYPERICUM ELLIPTICUM | 0 | 0 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 37 DROSER A INTERMEDIA | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 38 RHYNCHOSPORA FUSCA | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 39 ERIOCAULON SEPTANGULARE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 1 |
| 40 CLADIUM MARISCOIDES | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 |
| 42 SCRIPUS TORREYI | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 |
| 44 JUNCUS BREVICAUDATUS | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 46 UTRICULARIA CORNUTA | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 47 PONTEDERIA CORDATA | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 48 JUNCUS MILITARIS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 |
| 49 LOBELIA DORTMANNA | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 |
| 50 NYMPHOIDES CORDATA | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 1 | 0 | 1 | 1 | 1 | 1 | 1 |
| 51 SCIRPUS SUBTERMINALIS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 54 UTRICULARIA VULGARIS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 |
| 55 UTRICULARIA INTERMEDIA | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| 56 UTRICULARIA RESUPINATA | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 0 |
| 57 UTRICULARIA GIBBA | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 |
| 60 BRASENIA SCHREBERI | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| 61 NYMPHAEA ODORATA | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |

[illegible]

NAME OF LAKE: AXESPECIES

TRANSECT NUMBER: 17

- DATA SUMMARY-

| SPECIES NAME | | DATA | | | | | | | | | | | | | | | | | | | |
|--------------|--------------------------|------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| 1 | MYRICA GALE | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 6 | VACCINIUM MACROCARPON | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 7 | ILEX VERTICILLATA | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 11 | RUBUS HISPIDUS | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 12 | ASTER NEMORALIS | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 13 | TRIADENUM FRASERI | 0 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 14 | LYSIMACHIA TERRESTRIS | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 16 | VIOLA LANCEOLATA | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 17 | JUNCUS PELOCARPUS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 19 | MUHLENBERGIA UNIFLORA | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 20 | RHEXIA VIRGINICA | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 21 | CAREX STRICTA | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 24 | DULICHIMUM ARUNDINACEUM | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 28 | CALAMAGROSTIS CANADENSIS | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 35 | HYPERICUM ELLIPTICUM | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 37 | DROSERA INTERMEDIA | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 38 | RHYNCHOSPORA FUSCA | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 39 | ERIDCAULON SEPTANGULARE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| 40 | CLADIUM MARISCOIDES | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 42 | SCRIPUS TORREYI | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | |
| 46 | UTRICULARIA CORNUTA | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 49 | LOBELIA DORTMANNA | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 0 | |
| 50 | NYMPHOIDES CORDATA | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| 51 | SCIRPUS SUBTERMINALIS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| 54 | UTRICULARIA VULGARIS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | |
| 55 | UTRICULARIA INTERMEDIA | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 56 | UTRICULARIA RESUPINATA | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | |
| 58 | UTRICULARIA PURPUREA | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | |
| 60 | BRASENIA SCHREBERI | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | |
| 61 | NYMPHAEA ODORATA | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | |
| 63 | POTAMOGETON OAKESIANUS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | |

NAME OF LAKE: AXESPECIES

TRANSECT NUMBER: 18

----- DATA SUMMARY -----

SPECIES NAME

DATA

| | | | | | | | | | | | | | | | | | | | |
|-----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 MYRICA GALE | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 6 VACCINIUM MACROCARPON | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 11 RUBUS HISPIDUS | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 12 ASTER NEMORALIS | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 13 TRIADENUM FRASERI | 1 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 16 VIOLA LANCEOLATA | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17 JUNCUS PELOCARPUS | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 24 DULICHIMUM ARUNDINACEUM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 28 CALAMAGROSTIS CANADENSIS | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 33 CAREX LASIOCARPA | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 37 DROSER A INTERMEDIA | 0 | 0 | 1 | 0 | 1 | 1 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 39 ERIOCAULON SEPTANGULARE | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 1 |
| 40 CLADIUM MARISCOIDES | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| 42 SCRIPUS TORREYI | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 |
| 43 JUNCUS CANADENSIS | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 47 PONTEDERIA CORDATA | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 48 JUNCUS MILITARIS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 1 |
| 49 LOBELIA DORTMANNA | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 1 | 1 | 0 |
| 50 NYMPHOIDES CORDATA | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 1 |
| 51 SCIRPUS SUBTERMINALIS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 |
| 53 MYRIOPHYLLUM TENELLUM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 |
| 56 UTRICULARIA RESUPINATA | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 1 | 1 |
| 58 UTRICULARIA PURPUREA | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 60 BRASENIA SCHREBERI | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 1 | 1 |
| 61 NYMPHAEA ODORATA | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 1 | 0 | 0 |
| 65 PCTAMOGETON NATANS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 0 | 1 | 0 | 0 | 0 |

NAME OF LAKE: AXESPECIES

TRANSECT NUMBER: 19

- DATA SUMMARY -

| SPECIES NAME | | DATA | | | | | | | | | | | | | | | | | | | |
|--------------|-------------------------|------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| 1 | MYRICA GALE | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 6 | VACCINIUM MACROCARPON | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 11 | RUBUS HISPIDUS | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 12 | ASTER NEMORALIS | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 13 | TRIADENUM FRASERI | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 14 | LYSIMACHIA TERRESTRIS | 0 | 0 | 0 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 15 | LYCOPUS UNIFLORUS | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 16 | VIOLA LANCEOLATA | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 17 | JUNCUS PELOCARPUS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 19 | MUHLENBERGIA UNIFLORA | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 24 | DULICHIMUM ARUNDINACEUM | 1 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 35 | HYPERICUM ELLIPTICUM | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 36 | HYPERICUM BOREALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 37 | DROSERA INTERMEDIA | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 38 | RHYNCHOSPORA FUSCA | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 39 | ERIOCAULON SEPTANGULARE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| 40 | CLADIUM MARISCOIDES | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | |
| 42 | SCRIPUS TORREYI | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | |
| 46 | UTRICULARIA CORNUTA | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 48 | JUNCUS MILITARIS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 0 | |
| 49 | LOBELIA DORTMANNA | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 0 | |
| 50 | NYMPHOIDES CORDATA | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| 51 | SCIRPUS SUBTERMINALIS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| 53 | MYRIOPHYLLUM TENELLUM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | |
| 56 | UTRICULARIA RESUPINATA | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 0 | |
| 57 | UTRICULARIA GIBBA | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | |
| 58 | UTRICULARIA PURPUREA | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 0 | 0 | |
| 60 | BRASENIA SCHREBERI | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | |
| 61 | NYMPHAEA ODORATA | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | |
| 64 | POTAMOGETON EPIHYDRUS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | |

NAME OF LAKE: AXESPECIES

TRANSECT NUMBER: 20

-----DATA SUMMARY-----

SPECIES NAME

DATA

| | | | | | | | | | | | | | | | | | | | |
|-----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 MYRICA GALE | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 6 VACCINIUM MACROCARPON | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 11 RUBUS HISPIDUS | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 12 ASTER NEMORALIS | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 13 TRIADENUM FRASERI | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 14 LYSIMACHIA TERRESTRIS | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15 LYCOPUS UNIFLORUS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17 JUNCUS PELOCARPUS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 21 CAREX STRICTA | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 24 DULICHIMUM ARUNDINACEUM | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 28 CALAMAGROSTIS CANADENSIS | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 30 CAREX CLIGOSPERMA | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 37 DROSER A INTERMEDIA | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 38 RHYNCHOSPORA FUSCA | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 39 ERIODCAULON SEPTANGULARE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 |
| 40 CLADIUM MARISCOIDES | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 |
| 42 SCRIPUS TORREYI | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 43 JUNCUS CANADENSIS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 47 PONTEDERIA CORDATA | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 48 JUNCUS MILITARIS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 |
| 49 LOBELIA DORTMANNA | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 0 |
| 50 NYMPHOIDES CORDATA | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 1 |
| 51 SCIRPUS SUBTERMINALIS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 0 | 0 | 1 | 1 | 1 | 1 | 1 |
| 52 ELEOCHARIS PALUSTRIS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 53 MYRIOPHYLLUM TENELLUM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 0 |
| 54 UTRICULARIA VULGARIS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| 56 UTRICULARIA RESUPINATA | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 |
| 57 UTRICULARIA GIBBA | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| 58 UTRICULARIA PURPUREA | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 0 | 0 |
| 59 NUPHAR VARIEGATUM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 1 | 0 |
| 60 BRASENIA SCHREBERI | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 |
| 61 NYMPHAEA ODORATA | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 1 | 1 | 0 |

NAME OF LAKE: AXESPECIES

TRANSECT NUMBER: 21

-----DATA SUMMARY-----

SPECIES NAME

DATA

| | | | | | | | | | | | | | | | | | | | |
|-----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 MYRICA GALE | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2 ALNUS RUGOSA | 0 | 0 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 11 RUBUS HISPIDUS | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 13 TRIADENUM FRASERI | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 14 LYSIMACHIA TERRESTRIS | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 21 CAREX STRICTA | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 24 DULICHIMUM ARUNDINACEUM | 0 | 0 | 0 | 1 | 1 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 25 CAREX ROSTRATA | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 28 CALAMAGROSTIS CANADENSIS | 1 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 34 IRIS VERSICOLOR | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 37 DROSERIA INTERMEDIA | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 39 ERIOCAULON SEPTANGULARE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 40 CLADIUM MARISCOIDES | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 42 SCRIPUS TORREYI | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 |
| 47 PONTEDERIA CORDATA | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 48 JUNCUS MILITARIS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 |
| 49 LOBELIA DORTMANNIA | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 1 | 0 | 0 |
| 50 NYMPHOIDES CORDATA | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 51 SCIRPUS SUBTERMINALIS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 52 ELEOCHARIS PALUSTRIS | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 53 MYRIOPHYLLUM TENELLUM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 |
| 54 UTRICULARIA VULGARIS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 |
| 56 UTRICULARIA RESUPINATA | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 0 | 0 | 0 |
| 57 UTRICULARIA GIBBA | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 58 UTRICULARIA PURPUREA | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 0 |
| 59 NUPHAR VARIEGATUM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 |
| 60 BRASENIA SCHREBERI | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 |
| 61 NYMPHAEA ODORATA | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 63 POTAMOGETON OAKESIANUS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 0 |

5409317 DATE 02/13/80, CLOCK 10.15.47

[illegible]

NAME OF LAKE: AXESPECIES

TRANSECT NUMBER: 22

- DATA SUMMARY

[illegible]

NAME OF LAKE: AXESPECIES

TRANSECT NUMBER: 23

- DATA SUMMARY -

| SPECIES NAME | | DATA | | | | | | | | | | | | | | | | | | | |
|--------------|-------------------------|------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| 1 | MYRICA GALE | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 4 | SPIREA ALBA | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 6 | VACCINIUM MACROCARPON | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 13 | TRIADENUM FRASERI | 0 | 1 | 0 | 1 | 1 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 14 | LYSIMACHIA TERRESTRIS | 1 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 15 | LYCOPUS UNIFLORUS | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 16 | VIOLA LANCEOLATA | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 24 | DULICHIMUM ARUNDINACEUM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 25 | CAREX ROSTRATA | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 29 | GLYCERIA CANADENSIS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 32 | CAREX VESICARIA | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 34 | IRIS VERSICOLOR | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 36 | HYPERICUM BOREALE | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 37 | DROSERA INTERMEDIA | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 39 | ERIOCAULON SEPTANGULARE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 1 | 1 | 1 | |
| 40 | CLADIUM MARISCOIDES | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 47 | PONTEDERIA CORDATA | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 50 | NYMPHOIDES CORDATA | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | |
| 51 | SCIRPUS SUBTERMINALIS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| 52 | ELEOCHARIS PALUSTRIS | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 53 | MYRIOPHYLLUM TENELLUM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 1 | |
| 54 | UTRICULARIA VULGARIS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | |
| 55 | UTRICULARIA INTERMEDIA | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 56 | UTRICULARIA RESUPINATA | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | |
| 57 | UTRICULARIA GIBBA | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | |
| 58 | UTRICULARIA PURPUREA | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | |
| 59 | NUPHAR VARIEGATUM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | |
| 60 | BRASENIA SCHREBERI | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | |
| 61 | NYMPHAEA ODORATA | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | |
| 63 | PCTAMOGETON OAKESIANUS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | |

NAME OF LAKE: AXESPECIES

TRANSECT NUMBER: 24

-----DATA SUMMARY-----

SPECIES NAME

DATA

| | | | | | | | | | | | | | | | | | | | |
|-----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 MYRICA GALE | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4 SPIREA ALBA | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 6 VACCINIUM MACROCARPON | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8 CHAMAEDAPHNE CALYCVLATA | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 11 RUBUS HISPIDUS | 1 | 1 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 12 ASTER NEMORALIS | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 13 TRIADENUM FRASERI | 0 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 14 LYSIMACHIA TERRESTRIS | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15 LYCOPUS UNIFLORUS | 0 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 24 DULICHIMUM ARUNDINACEUM | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 25 CAREX ROSTRATA | 1 | 1 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 28 CALAMAGROSTIS CANADENSIS | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 29 GLYCERIA CANADENSIS | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 32 CAREX VESICARIA | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 37 DROSELA INTERMEDIA | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 39 ERIOCAULON SEPTANGULARE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 1 |
| 40 CLADIUM MARISCOIDES | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 47 PONTEDERIA CORDATA | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 49 LOBELIA DORTMANNA | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |
| 50 NYMPHOIDES CORDATA | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 51 SCIRPUS SUBTERMINALIS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 52 ELEOCHARIS PALUSTRIS | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 53 MYRIOPHYLLUM TENELLUM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 |
| 54 UTRICULARIA VULGARIS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 |
| 55 UTRICULARIA INTERMEDIA | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 |
| 56 UTRICULARIA RESUPINATA | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 1 | 1 | 0 |
| 57 UTRICULARIA GIBBA | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 |
| 58 UTRICULARIA PURPUREA | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 |
| 59 NUPHAR VARIEGATUM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 |
| 60 BRASENIA SCHREBERI | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 |
| 61 NYMPHAEA ODORATA | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 |
| 62 POTAMOGETON CONFEROIDES | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 |
| 64 POTAMOGETON EPIHYDRUS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

NAME OF LAKE: AXESPECIES

TRANSECT NUMBER: 25

----- DATA SUMMARY -----

----- SPECIES NAME -----

----- DATA -----

| | | | | | | | | | | | | | | | | | | | |
|-----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 MYRICA GALE | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 11 RUBUS HISPIDUS | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 13 TRIADENUM FRASERI | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 14 LYSIMACHIA TERRESTRIS | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15 LYCOPUS UNIFLORUS | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 24 DULICHIMUM ARUNDINACEUM | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 28 CALAMAGROSTIS CANADENSIS | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 29 GLYCERIA CANADENSIS | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 32 CAREX VESICARIA | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 37 DROSERIA INTERMEDIA | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 39 ERIOCAULON SEPTANGULARE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 1 |
| 42 SCRIPUS TORREYI | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 47 PONTEDERIA CORDATA | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 50 NYMPHOIDES CORDATA | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 1 | 1 | 1 |
| 51 SCIRPUS SUBTERMINALIS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 52 ELEOCHARIS PALUSTRIS | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 53 MYRIOPHYLLUM TENELLUM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 |
| 54 UTRICULARIA VULGARIS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 1 | 1 | 0 |
| 55 UTRICULARIA INTERMEDIA | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 57 UTRICULARIA GIBBA | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |
| 59 NUPHAR VARIEGATUM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| 60 BRASENIA SCHREBERI | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 |
| 61 NYMPHAEA ODORATA | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| 62 POTAMOGETON CONFEROIDES | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 1 |
| 63 POTAMOGETON OAKESIANUS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 1 | 1 | 0 |
| 64 POTAMOGETON EPIHYDRUS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |