**Relative effects of traffic pollution, moisture and colonization sources
on urban lichens**

by

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Abstract

Lichens are used as air quality indicators, but in urban areas effects of traffic pollution, moisture and colonization sources have not been distinguished. Is the reduced lichen cover and richness within cities due mainly to traffic pollution as is typically assumed? We studied lichens on 420 trees at 84 sites across urban Ottawa, Canada. Mixed models and model averaged standardized regression coefficients were used to compare relative effects of traffic pollution, moisture and colonization sources on lichens. We found that lichen cover is a good indicator of urban traffic pollution within 300m of a site, robust to influences of moisture and colonization sources. However, lichen species richness responded four times more strongly to moisture and colonization sources than to traffic pollution. Therefore, lichen cover can be used in monitoring urban traffic pollution, but not lichen species richness. For the purposes of conservation, increasing colonization sources through increased treed area is more important than controlling traffic pollution.

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Introduction

Urban lichen mapping traditionally relates lichen patterns to pollution. Lichens are a symbiosis between a fungus and an algae or cyanobacteria. In order to grow, they filter nutrients from the air and rain, making them very sensitive to air pollution (Brodo *et al.* 2002). Lichen patterns have been studied around urban areas for over two centuries, with two classic studies published in 1970 presenting detailed pollution mapping techniques. The Index of Atmospheric Purity was developed around Montreal, Canada (LeBlanc & DeSloover 1970) while a scale calibrated with sulphur dioxide pollution levels was developed in England (Hawksworth and Rose 1970).

Today, pollution from vehicle traffic is a growing concern in urban areas as it hinders lichen growth, as shown experimentally. Fumigation experiments show that nitric acid pollution levels produced by traffic damage both algal and fungal cells (Riddell *et al.* 2008). The practice of deploying “bags” of healthy lichens for short time periods has shown that lichens bio-accumulate heavy metals from vehicle traffic (Garty *et al.* 1996). These are but two examples from a vast body of literature showing the impacts of pollution on lichens, most recently reviewed by Conti and Cecchetti (2001), Asta *et al.* (2002), and Nash III (2008).

However, pollution may not be the only factor driving urban lichen patterns; lichen growth and establishment also depend on the local microclimate (primarily moisture levels) and the availability of lichen dispersal units (both vegetative and sexual). Water is needed for algae to photosynthesize, producing the energy for lichen growth. Moisture regimes in urban areas are altered by the sealing of soils (for example by paving

streets and parking lots), since rainfall cannot be absorbed but runs off, and is not available to evaporate when the soil is warmed. It has been suggested that a “city effect” on lichens may be attributable to moisture (Brodo 1966), but no measurements of this effect have been made. The idea that urban lichens may respond to factors other than pollution is supported by a recent study showing patterns in the Index of Atmospheric Purity corresponding with “human impact” rather than major pollution sources (Gombert *et al.* 2004).

While moisture may play a key role in lichen growth and establishment, lichen dispersal is also important (see Werth *et al.* 2006a for a discussion of dispersal and establishment limitations). The influx of lichen dispersal units to a given spot is typically assumed to be spatially uniform, implying no dispersal limitation in lichen distribution. The absence of a spatial pattern in the recolonization of a small urban area following air quality improvement (Ranta 2001) supports this assumption. However, there is other evidence that dispersal may not be spatially uniform. Vegetative dispersal units travel only over short distances, averaging 35m (Öckinger *et al.* 2005). Sexual dispersal (primarily airborne) is assumed to occur up to global scales, although this influx is only weak: genetic analysis suggests re-colonization after logging occurred with few sexual dispersal events but abundant vegetative dispersal (Werth *et al.* 2006b). Therefore, it seems likely that in an urban setting the lichen flora should be related to the abundance of nearby lichens producing dispersal units.

The relative effects of traffic pollution, moisture and colonization sources in determining lichen distributions within cities are unknown because measures of these

three mechanisms are correlated within cities, making it difficult to distinguish their independent effects. Locations within cities with high traffic pollution typically also have lower moisture due to higher associated soil sealing, and reduced vegetative dispersal due to a lower abundance of trees (hosting lichens) within the vicinity. This leads to our question: Is the reduced lichen cover and lichen species richness in modern cities today due mainly to traffic pollution as is typically assumed?

The purpose of our study was to estimate the relative effects of traffic pollution, moisture and colonization sources on lichen distributions within a city. To do this we selected lichen survey sites in a non-random design aimed at reducing the correlations among the three variables. We conducted this study in Ottawa, Canada (pop. 812 129, Statistics Canada 2007), a city in which the only major pollution source is traffic (City of Ottawa 2011). Sites were selected to minimize the correlation between treed area and traffic pollution, and moisture was directly measured. We predicted that sites with higher traffic pollution would have lower lichen cover and lichen species richness. We also predicted that lichen cover and species richness would be higher at sites with higher treed area and at sites with higher moisture. Finally, we predicted that traffic pollution effects on lichen cover and species richness would be stronger than the effects of moisture and treed area.

Methods

In 2009 and 2010 we sampled lichen cover and lichen species richness on street trees at eighty four sites in Ottawa, Canada (Figure 1). The sites were selected to represent gradients in traffic pollution and treed area in surrounding landscapes while minimizing the correlation between them. Gradients of landscape variables corresponding with distance from the city core were avoided.

We used three predictor variables, which we felt best represented traffic pollution, moisture, and colonization sources. We estimated traffic pollution by adding together ranged values (Legendre and Legendre 1998) of road density and bus traffic at each site. Road density was the length of all roads within the landscape surrounding each lichen sample site (Figure 2). Bus traffic was the average annual daily bus traffic (OC Transpo 2009) multiplied by the length of the corresponding bus route in each landscape. Moisture in the boundary layer of tree trunks was measured using a covered iButton (DS1923 Hygrochron, Maxim, USA) mounted one meter above the ground on the north side of one tree at each site (Appendix 1). Water potential was calculated from temperature and humidity (Equation 2.24 in Nobel 2009) every half hour of daylight over five days. Readings were averaged across each site. Sites were randomly assigned to five-day periods between July and November 2010. The average water potential for each site was subtracted from the average of all sites monitored within the same five-day period, to correct for seasonal climatic variation. The presence of colonization sources (nearby lichens producing dispersal units) are indexed by treed area: the area of all tree crowns in the landscape surrounding each lichen sample site (City of Ottawa 2009).

Traffic pollution and colonization sources predictor variables were calculated in landscapes within multiple spatial extents (radius in meters) around each site (Figure 2). It has been shown that different land uses such as annual crops and artificial areas affect lichens at different spatial scales (Pinho *et al.* 2008). A priori, the spatial extent over which traffic pollution and colonization sources might influence lichen cover and lichen species richness in urban areas was unknown. Therefore, we estimated these variables at ten spatial extents, ranging from 100m to 1km. The scale of effect for each predictor variable was the spatial extent with the highest correlation (r) with the response variable. In further statistical modeling we then used the predictor variable measured at its scale of effect.

For the lichen surveys, we selected five trees as close to the center of each site as possible. Tree selection criteria followed Asta *et al.* (2002). *Acer* (Maple) and *Fraxinus* (Ash) were preferred due to local availability. We chose straight trees within 75m of the site center point. Trees were only used if they had no branches or knots below 1.5 m from the ground and were easily accessible from the street and all sides (for light and traffic pollution). Tree species and diameter at breast height (measured 1.3m above the ground) were recorded.

We sampled lichen cover and lichen species richness on each tree. A “lichen ladder” (vertical set of five 10 by 10 cm microquadrats, Appendix 2) was placed on four sides of each tree, 90 degrees apart (Asta *et al.* 2002), with the first side parallel to and facing the road. This study is based on macrolichens with either fruticose or foliose growth forms, as they are identifiable in the field. Lichens were identified in twenty

regularly spaced, one centimeter diameter circles in each microquadrat (Appendix 3). The species of lichen (or bare bark) with the highest cover in each circle was recorded.

Reference specimens were collected and accessioned at the Canadian Museum of Nature (CANL). Lichen species richness was the number of lichen species recorded on each tree; lichen cover was the number of circles (of 400 per tree) with lichens present.

We used linear mixed effects modeling to estimate the relative effects of traffic pollution, moisture and colonization sources on lichen cover and lichen species richness. Mixed models were used to account for tree species as a random effect, since trees of each species were not systematically distributed across sites. All seven possible models of the three predictor variables - standardized traffic pollution, moisture, and colonization sources - were created for each response. We compared the support for the models given our data using AIC (Burnham & Anderson 2002) and we compared the relative effects of the predictor variables using model averaged standardized parameter estimates (Burnham & Anderson 2002, Smith et al. 2009). All models included tree diameter and tree species to control for their effects on lichen cover and lichen species richness. Inclusion of tree diameter was supported by a decrease of 8 points in AIC values when tree diameter was included in models as a fixed effect. Tree species nested within site was a random factor, as two tree genera (*Acer* and *Fraxinus*) were preferentially sampled. Inclusion of tree species was supported by an AIC decrease of 12. Residuals supported model assumptions of linearity. Model selection followed Zuur et al. (2009) using the *nlme* package for R (Pinheiro et al. 2010).

Results

We found eighteen macrolichen species, covering 27% of the total sampled trunk surface area (occupied/total circles). *Candelaria concolor*, *Xanthomendoza fallax*, and *Physciella chloantha* were most commonly found across sites (Appendix 4). Figure 3 is a map of the lichen cover and species richness at sites. Moisture varied considerably between five day periods, supporting the adjustment of water potential values by exposure period (Appendix 5). The two *Fraxinus* (Ash) species had the highest lichen cover and species richness, while different *Acer* (Maple) species varied considerably in their lichen flora (Figure 4).

The correlation coefficients between the landscape predictors (traffic pollution and colonization sources) and the lichen responses at each spatial extent are presented in Figure 5; note that traffic pollution coefficients are negative putting the largest absolute correlation at the minimum rather than the maximum. The scales of effect for traffic pollution were 300 m and 1000 m for lichen cover and richness respectively. The scales of effect for colonization sources (treed area) were at 1000 m for both lichen cover and species richness. The correlation coefficients among the predictor variables, with the landscape variables at their scales of effect, are shown in Figure 6. As intended, our site selection procedure resulted in relatively low correlations among the predictors. Figure 7 shows the distribution across the city of high and low values of the three predictor variables.

The mixed model results are presented in Table 1. The best models for cover (ΔAIC_i within two points of best model) all included traffic pollution as a predictor

variable. In contrast, all models for lichen species richness had similar support. The signs of the coefficients across all models were consistent with our predictions: the influence of traffic pollution was negative and the influences of moisture and colonization sources were positive. Comparison of model averaged standardized parameter estimates for each response variable suggested that traffic pollution was the strongest predictor of lichen cover, but moisture and colonization sources predicted lichen species richness better than traffic pollution. These relationships can be seen in plots of the raw data (Appendices 6, 7 and 8).

Discussion

Our results have important implications for the use of lichens as traffic pollution indicators and for conservation of lichen diversity. We found that while lichen cover on Ottawa's urban trees is an indicator of traffic pollution within 300m, lichen richness is not. This suggests that lichen cover could be used to represent traffic pollution in cities with similar traffic levels, rather than lichen species richness. In contrast, if the concern is lichen conservation, our results suggest that efforts should focus on treed area (to provide vegetative dispersal sources) throughout the city rather than trying to control traffic pollution; urban lichen species richness responds more strongly to moisture and treed area than to traffic pollution in Ottawa.

While we were able to estimate the separate effects of traffic pollution, moisture and colonization sources reasonably well, we were not able to select sites such that the correlations were zero. In fact, completely eliminating correlations between traffic pollution, moisture and colonization sources is probably not possible because moisture is related to both roads (part of our measure of traffic pollution) and treed area (colonization sources). Furthermore, the effects of nitric acid from car exhaust on lichen respiration and photosynthesis are experimentally reduced in humid conditions (Riddell *et al.* 2008). Throughout this study, we use standardized coefficients to measure relative effects of predictor variables as they are generally robust to correlations among them (Smith *et al.* 2009).

Lichen cover is a good indicator of urban traffic pollution; with twice the relative effect on lichen cover as moisture and treed area (Table 1). This supports the current use of "Lichen Diversity Values" (LDV, Asta *et al.* 2002) for understanding urban traffic

pollution patterns. LDV is actually a rough measure of lichen cover rather than lichen diversity, since it is the sum of presences of each species in 20 quadrats per tree, divided by the number of trees (Asta *et al.* 2002).

Lichen cover responds most strongly to traffic pollution within 300m. This scale of traffic pollution response is smaller than expected; the classic lichen air quality study in Montreal (LeBlanc & DeSloover 1970) extrapolated an “index of atmospheric purity” between sites 1600m apart. However, a recent study was unable to find a significant correlation between lichen cover or species richness and traffic levels, when traffic was measured in 1600 m radius landscapes (Perlmutter 2010). We hypothesize that the smaller scale of response in our study is due to the scale at which urban form mediates air quality. For example, one common element of urban form is street canyons, which can trap air pollution due to temperature inversions or wind direction (Spirn 1984). Ottawa’s city blocks are around 100m wide and 200-500m long, so a 300m scale response to traffic pollution suggests a link between urban air quality and urban form.

In contrast to lichen cover, urban lichen species richness was more sensitive to moisture and colonization sources than to traffic pollution. The relatively weak effect of traffic pollution on species richness is unexpected given that species have been classified based on their tolerances to sulphur dioxide pollution (Hawksworth and Rose 1970) and more recently nitrogen enrichment (Gadsdon *et al.* 2010) associated with vehicle exhaust. While the average annual daily traffic levels on main streets can be as high as 35 000 vehicles per day (City of Ottawa 2010), Ottawa is recognized as the city with the lowest overall air pollution levels in Southern Ontario (OME 2011). Thus, it was an ideal location to study the relative effects of other variables on lichen habitat as we expected a

minimal limiting effect of pollution. Our results suggest that traffic pollution may have its strongest effect on common (high cover) species, thus having a relatively small effect on overall species richness. This hypothesis is supported by post-hoc analysis of the cover of the three most common species in comparison to analysis of all other species (Appendix 9).

We interpret the positive effect of treed area on lichen richness as predominantly an effect of increased lichen colonization sources. While treed area is expected to be correlated with pollution as vegetation can remove gaseous pollutants from the air (Forsyth and Musacchio 2005), we selected our sample sites to minimize the correlation between treed area and traffic pollution. If treed area were simply an index of traffic pollution, we would have expected traffic pollution itself to be more strongly related to lichen richness than treed area. The reverse was true with treed area having four times the effect of traffic pollution. If treed area was an index of moisture, we would expect similar coefficients in cover models, which was not the case. There is remarkably little study of the effect of colonization sources limitation on lichen diversity, likely due to the difficulty of measuring dispersal. Treed area appears to be a good measure of colonization sources without being biased by traffic pollution or moisture. Given the similar coefficients for treed area and moisture and that tree respiration increases moisture, it is difficult to attribute the effect of treed area to colonization or moisture. However, the effect of treed area relative to moisture is stronger for lichen richness than cover which is consistent with the interpretation of treed area as a measure of colonization sources.

The scale of urban lichen response to colonization sources is at least 1000m. As the correlation coefficients in Figure 4 are still increasing at one kilometer, colonization sources may have their strongest effect at scales beyond 1000m. This is larger than hypothesized based on vegetative dispersal distances. However, the effect of vegetative dispersal distances compounded over time may be responsible for this larger scale response.

This study explicitly distinguished the effects of traffic pollution, moisture and colonization sources on Ottawa's lichens. Lichen cover is responding to traffic pollution at a 300m scale, and is especially suitable for monitoring traffic pollution as lichen identification is not needed. Urban air quality monitoring, where traffic pollution is at comparable levels, should not be based on lichen species richness. Species richness is related instead to moisture and colonization sources. Improving sources for colonization through treed area is the most important objective for lichen conservation. We have shown that moisture and colonization sources, as well as traffic pollution, are important in understanding urban lichens.

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Tables

Table 1: Comparison of all seven possible models of lichen cover (A) and species richness (B) predicted by standardized traffic pollution, moisture, and treed area. All models included tree diameter (fixed effect) and tree species nested within site (random effect). Direction of effect, difference between “best” model AIC and AIC of model i (ΔAIC_i), and Akaike weight of the model (w_i) are shown. Model averaged standardized parameter estimates $\bar{\beta}$ summarize predictor strength and direction.

A. Models of Lichen Cover

Traffic pollution (300m)	Moisture (Local)	Colonization sources (1000m)	ΔAIC_i	w_i
-	+		0	0.379
-			0.679	0.270
-	+	+	1.87	0.149
-		+	2.04	0.136
	+		4.29	0.0443
	+	+	5.99	0.0189
		+	9.42	0.00340
$\bar{\beta} = -19.7 \quad \bar{\beta} = 7.53 \quad \bar{\beta} = 1.29$				

B. Models of Lichen Species Richness

Traffic pollution (1000m)	Moisture (Local)	Colonization sources (1000m)	ΔAIC_i	w_i
	+		0	0.238
		+	0.064	0.230
-			0.704	0.167
	+	+	1.24	0.128
-	+		1.80	0.0965
-		+	1.89	0.0925
-	+	+	3.22	0.0475
$\bar{\beta} = -0.0514 \quad \bar{\beta} = 0.113 \quad \bar{\beta} = 0.109$				

Figure 1: Map of 84 study sites across urban Ottawa, Canada.

Figure 2: Example landscape (Site 69) with lichen sample site at center and distances from the centre within which landscape predictor variables were calculated.

Figure 3: Map of lichen cover and lichen species richness at 84 study sites. Low, medium and high categories are used for illustrative purposes only, by splitting the 84 data points equally between categories. For richness, low is three to eight species, medium is nine to eleven species and high is twelve to fourteen species. Low cover is less than 325 circles, medium is 325 to 814 and high is 815 to 1334 circles.

Figure 4: Boxplots of lichen species richness (A) and percent cover (B) for common tree species. Overlapping notches suggest non-significant differences between medians.

Values of n represent the number of trees sampled for each common tree species, of 420 trees in the study.

Figure 5: Correlations (r) between lichen species richness or cover and predictors at multiple extents. Above (A) is traffic pollution (road density and average annual daily bus traffic multiplied by length of the route); below (B) are colonization sources (natural logarithm of treed area). Extent is the radius of landscapes around site centers. We measured lichen cover and lichen species richness at the center of 84 sites. Filled symbols are significant correlations. The scale of effect is at the strongest correlation: traffic pollution in 300m landscapes for cover and 1000m landscapes for richness, treed area in 1000m landscapes for both cover and richness.

Figure 6: Correlations (r), scatter plots, and distribution (histogram) of standardized predictor variables at 84 sites. Traffic pollution combines road density and average annual daily bus traffic multiplied by length of the route in 300m radius landscapes. Colonization sources are indexed by the natural logarithm of tree canopy area in 1000m radius landscapes. Moisture is the water potential, a combination of daytime humidity and temperature monitored every half hour for five days at each site center.

Figure 7: Map of traffic pollution, moisture and colonization sources at 84 study sites. Low, medium and high categories are used for illustrative purposes only, by splitting the 84 data points equally between categories.

Appendices

Appendix 1: Moisture monitoring units: an iButton mounted with silicone caulking on a small piece of plastic (matt spray painted grey), attached to trees with a screw. These were mounted one meter above the ground on the north side of one tree at each site for five consecutive days to sample boundary layer temperature and relative humidity where lichens were sampled.

Appendix 2: Lichen ladder used to sample lichens. Lichen ladder is a frame of five vertical quadrats, each ten by ten centimeters large, suspended 1.5 meters above the ground (Asta *et al.* 2002).

Appendix 3: Circles were used within each quadrat to measure cover of lichens. Circles are regularly distributed, with diameter of one centimeter, and printed on an acetate placed over each quadrat during sampling, as shown. A lichen was recorded as present if it occupied half or more of each circle. The lichen species with the highest cover in the circle was recorded when more than one lichen was present.

Appendix 4: Cover (number of circles) of different lichen species found at all sites across Ottawa, Canada showing relative cover of different species.

Appendix 5: Boxplots of average water potential at sites by week, including a set of six test trees on campus that would all be considered part of one “site”. Water potential represents the ability of the air to remove water from lichens and is calculated from temperature and humidity measured each half hour of daylight for five days. A water potential of zero reflects the water content of the air above standing water: the more negative the water potential, the drier the conditions. Weeks are between July and November 2011. The range each week reflects differences between moisture at sites measured that week. Final analysis of moisture was based on these values subtracted from the average water potential for the week to correct for climatic variation and produce intuitive signs (positive for higher than average moisture, negative for lower than average moisture).

Appendix 6: Response of lichen cover (number of circles in which lichens were observed) to traffic pollution at a site. Evidence of the pattern (negative) present in the mixed models is present in the raw data prior to controlling for tree diameter and species.

Appendix 7: Response of lichen species richness at a site to moisture at the site center, corrected for weekly climatic variation. Some evidence for a positive response of richness to moisture is present prior to controlling for tree diameter and species, as suggested by mixed modeling.

Appendix 8: Response of lichen species richness at a site to colonization sources in landscapes around the sites. A positive response of richness to colonization sources, as suggested by mixed modeling, is present in the raw data prior to controlling for tree diameter and species.

Appendix 9: Separate analysis of common (A) and rare (B) species cover. Analysis was conducted as in main analyses. The tree most common species are *Candelaria concolor*, *Xanthomendoza fallax*, and *Physiella chloantha*; all other lichen species were considered rare. Comparison of model averaged standardized predictors $\bar{\beta}$ shows that the effect of pollution relative to colonization sources is four times stronger for common species, but only 1.3 times stronger for rare species.

A. Models of Common Lichen Species Cover

Traffic pollution (300m)	Moisture (Local)	Colonization sources (1000m)	ΔAIC_i	w_i
-			0	0.283
-		-	0.849	0.185
	+		1.56	0.130
-	+		1.78	0.116
		-	2.03	0.103
-	+	-	2.21	0.0936
-		+	2.30	0.0897
$\beta = -6.20 \quad \beta = 1.37 \quad \beta = -1.41$				

B. Models of Rare Lichen Species Cover

Traffic pollution (1000m)	Moisture (Local)	Colonization sources (1000m)	ΔAIC_i	w_i
-	+	+	0	0
-		+	0.232	0.232
-	+		2.73	2.73
	+	+	4.554	4.554
-			5.248	5.248
	+		7.882	7.882
		+	8.249	8.249
$\beta = -11.9 \quad \beta = 4.53 \quad \beta = 8.89$				

Appendix 10: Site level data from site center including site number, geographic coordinates (in Universal Transverse Mercator, NAD 1983 Zone 18N), moisture sensor information (period, start date of five day period, average temperature in degrees Celsius and average relative humidity in percentage), and total lichen cover and richness from five trees.

Site	Coordinates		Sensors				Lichen	
	Easting	Northing	Period	Start Date	Average Temperature	Average Humidity	Cover	Richness
1	447248	5033516	H	October 17, 2010	9.37	63.75	387	9
2	447025	5032594	E	September 19, 2010	15.35	71.89	458	10
3	446561	5030410	F	September 26, 2010	14.90	92.56	218	9
12	441297	5015603	F	September 26, 2010	14.70	93.99	452	8
20	438960	5024758	F	September 26, 2010	14.50	96.41	731	11
23	442313	5026590	A	July 4, 2010	29.47	59.77	485	5
24	445687	5031060	G	October 3, 2010	13.27	65.31	79	3
30	439660	5020858	G	October 3, 2010	12.96	66.81	34	7
33	442299	5022060	C	September 5, 2010	17.66	77.11	199	11
34	443593	5023262	F	September 26, 2010	14.61	94.09	1162	9
41	437371	5022242	D	September 12, 2010	14.77	79.59	750	9
44	464595	5038974	C	September 5, 2010	17.12	82.81	756	11
49	457545	5032997	D	September 12, 2010	15.04	80.70	806	11
50	460357	5033864	E	September 19, 2010	15.69	67.29	814	11
51	460605	5035203	A	July 4, 2010	30.20	55.63	469	11
52	459476	5033529	E	September 19, 2010	15.18	69.14	289	7
53	458385	5030133	C	September 5, 2010	17.10	79.60	1057	10
55	452997	5030575	F	September 26, 2010	14.62	93.44	518	8
57	452336	5033985	F	September 26, 2010	14.92	92.63	258	8
58	452009	5034312	D	September 12, 2010	14.50	81.48	735	14
59	451620	5034379	D	September 12, 2010	15.20	78.76	397	12
60	451584	5033570	E	September 19, 2010	15.26	70.01	735	13
61	450391	5033333	E	September 19, 2010	15.17	70.30	712	7
62	449654	5032436	C	September 5, 2010	17.20	77.56	12	4
63	449163	5033707	H	October 17, 2010	9.14	65.16	457	9
64	448172	5033105	G	October 3, 2010	13.16	69.73	220	9
65	451062	5029559	C	September 5, 2010	18.43	72.71	586	9
68	455730	5023930	A	July 4, 2010	28.73	64.15	1135	11
69	448970	5027486	C	September 5, 2010	17.57	76.40	84	5
70	446545	5033606	E	September 19, 2010	15.43	70.61	183	7
71	446598	5033003	A	July 4, 2010	28.25	62.48	256	10
73	445954	5032242	A	July 4, 2010	28.78	59.74	217	10
74	445624	5029485	H	October 17, 2010	10.53	59.36	138	5
75	441661	5028543	E	September 19, 2010	15.68	72.82	1178	11
76	440768	5028083	F	September 26, 2010	15.18	93.55	478	8
77	440437	5027638	A	July 4, 2010	30.57	58.76	661	11
78	443593	5027323	D	September 12, 2010	14.88	81.32	45	3
79	444373	5021222	G	October 3, 2010	12.78	66.69	787	9
83	465948	5027560	D	September 12, 2010	14.29	83.35	1231	6
85	464330	5028604	C	September 5, 2010	17.19	81.17	494	8
86	452742	5024606	G	October 3, 2010	12.51	71.13	17	5
89	449309	5022651	B	August 20, 2010	19.17	74.67	61	6

Site	Coordinates		Sensors				Lichen	
	Easting	Northing	Period	Start Date	Average Temperature	Average Humidity	Cover	Richness
90	456334	5011326	B	August 20, 2010	19.11	77.00	211	9
91	453208	5012677	H	October 17, 2010	9.73	64.33	635	11
92	452685	5010750	D	September 12, 2010	14.37	82.40	589	9
93	454041	5011089	H	October 17, 2010	9.19	66.30	866	8
95	446023	5021205	H	October 17, 2010	10.84	60.63	501	8
96	446002	5021546	C	September 5, 2010	17.11	79.39	697	11
97	446754	5013923	A	July 4, 2010	29.02	62.64	1334	9
98	440907	5013568	G	October 3, 2010	13.38	66.62	891	11
99	443843	5019020	E	September 19, 2010	15.76	70.68	325	10
100	441269	5026308	C	September 5, 2010	18.49	73.86	271	6
101	436797	5021296	D	September 12, 2010	14.75	80.44	734	10
102	438654	5024326	H	October 17, 2010	9.35	64.54	514	12
103	438308	5023200	F	September 26, 2010	14.57	98.14	54	4
104	430395	5015962	A	July 4, 2010	30.18	56.16	134	7
105	431314	5016009	E	September 19, 2010	15.34	72.86	597	12
106	430510	5014438	G	October 3, 2010	12.90	69.45	481	9
107	430946	5021627	G	October 3, 2010	12.77	69.16	1208	10
108	427255	5022083	A	July 4, 2010	29.71	57.52	693	14
109	429658	5019470	B	August 20, 2010	18.58	78.09	399	11
110	428020	5021308	H	October 17, 2010	9.51	61.77	1016	12
111	427492	5013812	D	September 12, 2010	14.48	80.62	524	10
112	456624	5035583	F	September 26, 2010	14.82	93.04	617	13
121	455999	5034123	J	October 31, 2010	4.82	82.15	122	6
122	454392	5033733	J	October 31, 2010	4.42	82.04	1088	8
125	438907	5024978	J	October 31, 2010	3.89	84.18	427	13
126	439747	5024809	J	October 31, 2010	4.57	79.93	422	9
127	443569	5025233	I	October 24, 2010	10.92	80.11	238	8
128	452001	5028023	I	October 24, 2010	10.71	79.96	1105	7
132	444711	5029953	J	October 31, 2010	4.21	80.86	193	9
133	461647	5034742	I	October 24, 2010	10.44	79.90	831	8
134	461632	5034006	I	October 24, 2010	11.81	78.72	118	7
135	450349	5022250	J	October 31, 2010	3.98	82.60	741	8
137	446509	5008877	I	October 24, 2010	11.50	78.48	1029	11
138	446240	5007952	I	October 24, 2010	11.81	78.48	409	9
139	429223	5020493	J	October 31, 2010	4.07	80.73	1053	11
140	429068	5021047	J	October 31, 2010	3.92	82.98	515	10
141	444009	5018488	I	October 24, 2010	11.23	81.01	1183	11
142	443112	5019872	I	October 24, 2010	11.29	79.84	595	11
143	446631	5028079	I	October 24, 2010	10.72	79.27	868	9
144	446557	5027747	I	October 24, 2010	10.63	81.77	700	12
145	446330	5030017	J	October 31, 2010	4.33	79.75	398	8
146	449581	5022582	J	October 31, 2010	3.91	80.59	839	12

Appendix 11: Site level data for multiple spatial extents of colonization sources.

Site	Total colonization sources (treed area) within given radius from centre point (in m ²)									
	100 m	200 m	300 m	400 m	500 m	600 m	700 m	800 m	900 m	1000 m
1	15801	53677	118156	204651	285149	389446	495214	611155	771771	933100
2	6118	22031	58885	117271	205222	302812	434737	602596	760127	908583
3	1520	8118	14550	29398	56689	82386	109057	140703	173795	207621
12	3031	8196	15945	23236	30905	41086	51145	60055	68927	93309
20	4116	22633	49021	87213	117598	158338	215979	276581	343758	427422
23	4566	37722	90563	127394	163046	210503	271907	335046	405790	485190
24	2187	6135	12793	23797	33218	48033	70810	91408	112148	141440
30	1693	4377	9534	22788	42625	67183	97772	137020	180991	238844
33	1583	7197	14831	23697	35782	54334	80395	110524	153835	194830
34	928	5166	15367	34550	61512	85477	123470	161240	202067	244696
41	946	11412	27946	44223	56802	83588	111110	141000	187824	249235
44	6407	40165	87133	162448	270568	391150	549398	703365	914638	1158797
49	0	10441	68239	157928	271841	426445	620307	857164	1108501	1393951
50	523	1308	3301	18104	45091	107398	172635	252902	353801	477227
51	143	617	4192	16307	47355	119184	205804	295742	399209	467942
52	805	1861	5703	14388	40042	69103	112201	173354	247664	324520
53	1050	2768	8124	13436	23327	74379	178685	356390	594252	768568
55	3670	15017	26407	45629	67388	98777	136625	175686	232374	319152
57	13973	45934	87385	160478	254648	367776	511204	660166	814501	963385
58	8752	39194	89792	186471	295980	404735	514825	688034	867217	1034774
59	10345	48076	113180	189725	290318	421202	585874	772244	942680	1102587
60	10164	46233	86003	148575	251775	386368	539578	677968	841483	1007388
61	884	2295	8121	45795	99840	187217	297959	396245	493523	631110
62	709	8711	41440	75422	119959	174644	262429	332072	399027	472698
63	8838	19854	33817	51743	78650	130287	181433	278633	351935	430293
64	10606	63696	135170	204106	283721	400387	515920	619143	718129	817998
65	2839	4894	11375	14925	17341	22139	35673	63175	118846	181366
68	9352	37174	93853	196693	356946	573075	800585	1024007	1235551	1459430
69	4406	10924	44614	97786	126144	188982	334265	481118	579777	674901
70	8023	41752	92776	153038	222272	284396	382950	527317	674551	800610
71	12910	56369	138123	238336	344197	479773	622137	771582	897489	1002534
73	743	12651	40157	91289	160269	219169	298328	404198	500151	564966
74	113	2597	4675	10109	25580	40280	68071	100679	137700	198098
75	9433	35555	73662	109891	146950	188428	230030	269691	322758	389689
76	7461	38383	81454	117829	172699	229823	279677	328316	375204	417066
77	1554	9788	38781	78743	117635	172215	215507	243552	294081	353639
78	6799	21901	51849	89871	124340	160519	199730	242088	291785	350458
79	1262	17815	54822	124181	192393	245513	281613	332587	392686	458184
83	4446	13218	29314	43260	68834	104443	141054	175577	212641	274656
85	7215	18186	34330	76147	150865	274022	445792	635574	848627	1076603
86	2906	5964	41416	94124	144771	208781	302631	377774	461999	573529
89	631	2098	9928	31121	87809	129610	174248	233139	293619	386684
90	20960	80230	161265	263040	401155	561214	749868	957603	1171670	1389029
91	18130	80361	181360	363944	583508	851920	1171475	1510063	1868500	2244548
92	173	232	18261	60478	144339	339573	594138	809841	1010684	1223270
93	15769	62200	125056	208673	298741	422084	554235	719505	925294	1161918
95	2278	10642	29680	60452	124109	200311	293842	416265	574557	738613
96	803	22385	49858	81587	144599	261185	368722	495100	616323	762426
97	11175	40119	111891	223838	327357	366672	405607	437191	498309	581138
98	5177	12360	28270	44702	65578	113596	180697	234949	301473	374057
99	4889	20423	54497	96337	143131	231685	367879	504292	642797	805411
100	2783	21180	52249	92944	144123	187154	244252	313579	406270	523483
101	5502	22302	46593	76225	111938	151651	196739	250775	304479	360653

Site	Total colonization sources (treed area) within given radius from centre point (in m ²)									
	100 m	200 m	300 m	400 m	500 m	600 m	700 m	800 m	900 m	1000 m
102	4700	20944	48518	98557	160488	239945	322224	400850	465970	540326
103	10828	46155	83807	121630	163479	218324	262993	321688	386892	462751
104	481	2144	4546	8160	13007	15850	25210	58398	103408	136979
105	309	2279	5170	6938	15179	27037	45408	67117	106099	147036
106	985	985	985	4279	19803	28808	38954	47273	57986	68781
107	4726	17457	43525	104854	198079	322367	471975	607185	742380	922655
108	764	2517	28880	40840	72699	101670	130964	160368	224882	319544
109	3095	21417	56492	103081	148767	193653	263148	334535	400494	456094
110	1001	11782	40396	71574	102417	126280	221414	358532	504179	676930
111	6050	9436	27229	64641	113144	176237	281437	407229	554420	639445
112	1044	7980	13166	29940	45325	63198	83842	110476	142754	198702
121	2139	19527	65769	100141	155449	216441	292642	387917	498843	659962
122	60	1869	4143	27730	85559	157835	240662	356443	478667	648793
125	10769	27891	50142	71370	95721	127019	174023	238148	311221	387419
126	2071	7272	18151	43650	79030	123843	183494	272472	371978	475529
127	2350	9371	20176	35466	53521	69972	91904	115621	141910	168317
128	0	2782	8158	24449	47080	55275	71561	88814	139584	189471
132	5714	19040	34256	51158	69699	108035	136477	162166	189363	212521
133	962	1640	4604	6877	10094	24004	39867	48781	60054	74452
134	0	169	951	3030	6254	18348	49934	87785	116657	154302
135	3110	18750	36601	58153	86129	125753	175943	253913	403163	555340
137	4128	14420	41126	95227	157150	221133	297846	369556	450639	527605
138	398	5159	28426	73163	114118	185397	277159	406738	510330	601960
139	2017	6569	23575	66458	100766	140112	169735	210530	278629	387078
140	1852	4763	7647	17839	53873	93950	131950	173004	216924	287602
141	4766	31790	78625	137896	196019	268046	337350	425440	529538	659543
142	131	932	29419	99725	193034	319199	470390	648170	826442	1017180
143	386	2654	7321	18578	46102	88338	137482	186810	250896	357852
144	208	3315	7050	13910	40149	76105	122791	184619	262995	356888
145	6583	12949	16654	24395	36847	52461	77088	113282	150367	200782
146	730	1809	18207	66298	128966	183824	218270	253446	283751	329751

Appendix 12: Site level data for multiple spatial extents of pollution: road length.

Site	Sum of length of all roads in each spatial extent (m)									
	100 m	200 m	300 m	400 m	500 m	600 m	700 m	800 m	900 m	1000 m
1	418	1334	3005	5349	8110	11007	14271	19052	24124	29795
2	599	2142	4390	8143	12568	18576	24135	31181	38443	46381
3	570	2165	4739	9356	15258	21344	28594	36830	46458	57617
12	430	1321	2631	4439	5657	7390	10066	14039	18045	21223
20	626	1715	4124	6769	10218	14061	17502	22310	28058	34183
23	941	2475	4599	8422	12424	19687	27576	35138	44258	53520
24	615	2301	4914	8987	13548	18895	24555	30164	36595	42039
30	657	1975	4063	6693	9890	14641	20287	27359	35571	44002
33	455	1687	4028	6414	9097	13023	17999	23978	30986	39432
34	480	1930	4059	7239	10853	15033	20329	26808	33131	40023
41	772	2357	5062	8464	13617	19273	25454	33588	41735	49504
44	199	807	1916	3045	4148	5817	6703	7897	9396	10798
49	392	1507	2736	3998	6391	8946	12713	16966	21943	27026
50	725	2588	4980	7689	11059	13964	17267	20748	25119	29436
51	469	1920	3990	6646	9359	12592	16782	22767	28114	34562
52	626	1836	4000	7135	10686	14652	19351	24139	29778	35738
53	199	400	600	800	1000	1553	2670	4290	5906	6830
55	901	2201	3627	5189	7488	9411	12793	18701	24101	29873
57	234	1468	3652	5969	8964	12848	17560	21916	25562	30037
58	363	1370	3502	5493	7525	10028	13342	16736	20253	24132
59	241	1026	2049	4092	5927	7690	10027	12424	15754	19708
60	595	1667	4045	6612	9886	13264	17671	23249	29157	35504
61	478	1324	3409	6244	9441	14338	18108	23640	28525	35242
62	700	2359	3869	8028	13057	18046	24086	30651	38309	47065
63	491	1264	3277	6668	9733	14123	17514	21691	26829	32157
64	511	1521	3821	6936	11027	15354	20792	27802	36395	45990
65	386	1160	2197	3900	7119	10520	15662	20325	26040	32483
68	334	765	1174	1581	2302	2965	4263	6059	7331	8407
69	718	2575	4889	7856	10774	14119	17016	20488	26116	31756
70	338	1366	3312	6280	8467	10749	13423	15933	18760	22475
71	567	2179	4125	7169	10524	14357	19333	24748	30915	37993
73	904	2611	4812	7100	8875	12120	15741	19804	25773	32029
74	590	2269	5120	9272	14119	20588	27382	36534	47603	60191
75	107	720	1627	3417	5900	8241	10902	14490	19877	24707
76	0	193	585	2565	3956	5663	8774	11949	15686	20015
77	324	732	1703	3060	4614	5929	8912	12415	15927	19089
78	543	2454	5649	9711	14549	21738	28462	35905	43240	52627
79	200	580	1272	2306	3564	5610	7943	11055	15486	18800
83	200	400	600	800	1000	1200	1400	1600	1800	2000
85	199	400	746	1091	1446	1656	1863	2068	2272	2487
86	656	2261	3962	5837	8415	10495	12049	13892	16352	18750
89	280	1482	4525	7321	10023	13961	20344	27737	36029	42978
90	396	1081	2478	3444	4482	5977	7545	9283	11779	14893
91	368	1674	3847	4963	5664	6706	8320	9827	12100	15020
92	262	783	1131	1947	3218	4993	6743	8592	11165	14578
93	333	788	1816	2927	4742	7564	10575	14810	18780	22569
95	659	1916	3505	5672	7990	10050	11877	13736	15664	18076
96	659	1826	4065	6815	8760	10006	11007	12759	14645	17505
97	200	547	1572	2739	4775	7562	10193	13827	17727	20519
98	434	1805	3864	7122	10733	14701	18784	23835	30011	36647
99	508	1483	3261	5205	7692	10038	12869	15959	19078	21912
100	598	1935	4239	7819	13055	19340	25957	32939	41316	51564
101	445	1664	3100	6937	11064	15917	22113	30602	38520	45820

Site	Sum of length of all roads in each spatial extent (m)									
	100 m	200 m	300 m	400 m	500 m	600 m	700 m	800 m	900 m	1000 m
102	700	1956	4154	7115	11599	15899	20670	25482	30303	35826
103	546	1857	4255	7721	11157	16251	21755	28533	35464	43003
104	410	1595	3621	5575	9048	13976	18502	22122	25673	31329
105	299	1034	2694	5477	8821	12521	16234	20916	25412	30714
106	0	0	0	268	878	1667	3039	4459	5981	7875
107	701	1753	2777	3653	4902	6306	8348	10557	12560	13965
108	505	2006	3607	6125	9583	12886	16609	20317	25311	30770
109	447	1201	2943	5078	8338	13377	19097	23665	30115	37117
110	535	1322	2518	3348	5089	6985	8629	10305	12260	16470
111	735	2360	4032	5957	8822	11917	15332	18904	23095	28603
112	338	1287	2533	3891	5788	8575	12655	16451	19725	23162
121	211	636	1700	3247	4356	5958	7591	9215	11135	12409
122	301	830	2373	4088	5798	7820	11327	14853	18541	22701
125	353	1019	2701	5347	8787	11722	15594	19210	23205	28686
126	319	1072	2857	5673	10356	15790	22144	29454	38220	46661
127	199	727	1342	2491	4333	6669	9583	13025	17612	22034
128	199	684	930	1917	3223	5625	7566	11096	14974	19787
132	119	1353	2925	5209	8696	12373	17394	23958	30522	38262
133	340	1544	3600	6633	10019	14055	18348	23242	28869	36356
134	199	1240	2483	4393	5965	8177	10749	15241	20142	25487
135	199	834	2272	4929	9304	13428	17939	23646	30162	36001
137	332	1178	2615	4457	7032	9279	12671	16062	19756	23349
138	384	1450	3214	5390	7445	9624	12534	16057	19510	23219
139	410	1785	3747	5760	8068	11431	15719	20564	25594	28973
140	66	825	1563	2688	4850	8114	11182	14993	18155	21379
141	315	1088	2078	3047	4803	6218	8358	11486	14034	16853
142	194	1084	2345	4043	5803	6965	8483	10067	13612	17826
143	365	1735	4233	7793	11993	17747	23827	30901	41806	51182
144	489	1203	3032	6500	11564	17877	24738	33060	42242	50573
145	649	2344	5617	10445	15629	22690	29896	39035	48421	58910
146	545	1809	3788	6319	9832	14908	20327	26854	34460	42274

Appendix 13: Site level data for multiple spatial extents of pollution: average annual

daily bus traffic multiplied by the length of the corresponding routes, for all routes in a given spatial extent around a site.

Site	Average annual daily bus traffic multiplied by the length of their respective routes									
	100 m	200 m	300 m	400 m	500 m	600 m	700 m	800 m	900 m	1000 m
1	0	0	0	0	0	0	0	0	288	581
2	24999	499	626	740	1162	1554	3506	4456	5460	6331
3	35240	827	1028	1228	54585	101727	151836	192177	212805	233087
12	119124	2787	3640	4407	6166	7956	9370	10779	12352	14569
20	44750	1028	6360	22990	49736	90779	132295	153434	165226	175479
23	0	0	337	766	1326	2512	8179	11960	13476	17241
24	5285	777	1145	1481	2144	3085	9696	16515	19875	22862
30	6726	398	501	607	819	1243	2214	3006	4651	5336
33	50831	1199	1500	2553	4212	5583	6901	8497	9266	10012
34	55109	1606	2023	2433	3245	4051	4870	5684	6740	7512
41	87425	1949	2477	2995	4017	8000	39747	62837	71722	78894
44	0	0	216	351	581	796	1007	1220	1338	1471
49	16207	827	1048	1278	1728	2441	3381	5609	6372	7089
50	0	1924	3248	4033	5770	8321	10421	12716	13672	14802
51	10869	938	1250	1735	2305	3631	5306	7007	9313	10963
52	0	999	1276	1624	3014	5506	9261	12584	14273	16082
53	0	0	0	0	0	0	0	0	0	0
55	82343	3179	4055	4729	6070	7501	8806	10025	23012	41450
57	417	304	446	1243	2129	2816	3718	5159	5693	6116
58	2454	435	541	645	863	1227	2009	3143	3598	4193
59	1631	395	497	597	1003	1308	1560	1786	1967	2213
60	2135	591	909	1263	1840	2503	3078	3673	4380	5526
61	17354	1194	1517	1923	2663	3295	3925	5093	5736	6342
62	11185	1109	1601	2136	4488	6181	7214	8369	8934	9536
63	0	0	0	0	856	1354	2396	3051	3307	3532
64	32771	439	539	639	847	1055	1278	1673	1957	2406
65	0	0	0	0	487	8397	17627	28776	34051	40004
68	0	0	0	0	0	0	0	0	0	0
69	71349	1563	2011	2418	3348	4224	5924	7856	8276	9368
70	0	0	0	0	0	0	0	0	0	0
71	0	0	0	0	0	114	360	590	701	810
73	26572	601	850	1079	1318	1554	1901	2218	2409	2675
74	0	752	1384	1897	4214	45489	124145	179539	203399	228944
75	0	0	0	42	818	1600	2359	3158	3705	4374
76	0	0	0	0	0	0	0	0	0	0
77	0	0	0	0	0	0	0	16287	27655	37399
78	0	0	0	460	1191	2946	8501	11594	15842	18324
79	2563	401	501	601	1019	2090	3723	4898	5130	5391
83	0	0	0	0	0	0	0	0	0	0
85	0	0	0	0	0	0	0	0	0	0
86	20164	426	592	827	1108	1490	1963	2379	2568	2960
89	9222	923	2350	3209	4618	6097	8521	22466	32099	39620
90	0	0	0	0	0	0	0	0	0	0
91	0	0	0	0	0	0	0	0	0	0
92	0	0	0	0	0	0	0	0	0	0
93	0	0	0	0	0	0	0	0	0	0
95	21941	487	604	716	923	1126	2068	3586	4167	4710
96	0	184	508	883	1451	1667	1873	2077	2178	2265

Site	Average annual daily bus traffic multiplied by the length of their respective routes									
	100 m	200 m	300 m	400 m	500 m	600 m	700 m	800 m	900 m	1000 m
97	0	0	0	0	0	0	0	0	723	1096
98	18434	1359	1676	2329	3632	6292	10435	14887	16814	18655
99	26616	834	1199	1576	2499	3698	4887	5853	6338	6818
100	13884	781	991	1199	1607	2143	3781	5443	6213	7338
101	57712	3149	4250	5351	17968	30546	43761	57612	63665	69732
102	973329	36325	45667	54882	74046	102103	130093	152449	161726	170252
103	0	0	134	1246	5576	14191	34909	52281	62535	82583
104	1730	402	662	783	1060	3205	5083	7264	8141	8981
105	1109	428	577	701	3879	8509	11496	14181	15543	17140
106	0	0	0	0	0	0	0	578	780	1097
107	14659	1759	2321	2636	3241	3841	4342	4742	4942	5142
108	0	1411	2643	4559	8435	11541	14170	18600	20628	22782
109	4727	868	2434	3604	5759	8426	14523	18735	21386	23708
110	38266	2076	3699	4777	6707	11486	14440	16969	18161	19350
111	2985	346	458	563	827	1193	1412	1633	1746	1861
112	2529	468	573	676	882	1320	3304	21713	32993	41267
121	11630	397	497	598	18701	30015	39655	48634	52984	57266
122	1072	2403	10842	16210	25466	35881	45480	56046	60958	65821
125	725605	32601	42206	51797	70984	92652	118770	150759	162225	172086
126	18211	694	899	2030	4530	6619	9404	11856	12875	13838
127	28200	799	999	1199	1599	2132	2817	3777	4185	4592
128	0	0	0	0	828	1312	2243	3037	3569	6296
132	0	475	833	1855	31964	102099	151366	190655	209761	230003
133	16241	796	997	2216	5345	7551	10436	13093	14322	15440
134	0	254	393	519	2143	3300	4442	5954	6449	7427
135	12731	609	876	1136	1649	2157	3493	6074	7656	9949
137	402	636	854	1069	1501	2356	2888	3944	4620	5305
138	0	584	1076	1559	2114	2811	3384	3907	4280	4583
139	15051	2630	3455	4206	6394	8661	11400	16476	19707	22231
140	12925	1239	1672	2100	2981	6627	11626	15439	17495	19360
141	28473	679	847	1005	1316	1800	2238	3217	3780	4527
142	0	0	0	0	896	1498	1998	2791	3193	3565
143	0	0	0	0	175	971	4196	6343	7491	8306
144	0	0	0	0	940	1924	3072	5343	6471	7406
145	562788	29389	40973	61546	124636	179934	224623	262652	281879	299793
146	14122	1240	1716	2169	3200	4466	7559	11199	14027	16158

Appendix 14: Tree level data

Site	Tree	m to Road	DBH	Tree Species	Lichen Cover	Lichen Species Richness
1	1	4.1	19.63	Fraxinus americana	191	8
1	2	6.8	37.52	Acer platanoides	106	7
1	3	4.2	43.22	Quercus rubra	77	6
1	4	2.4	59.01	Fraxinus americana	13	2
1	5	2.1	31.62	Acer saccharum	0	0
2	1	NA	67.23	Other	18	4
2	2	NA	32.45	Other	179	7
2	3	NA	27.72	Other	165	5
2	4	NA	42.35	Other	49	5
2	5	NA	31	Other	47	6
3	1	10.1	25.56	Fraxinus americana	85	5
3	2	13.6	37.07	Acer platanoides	30	4
3	3	7.9	31.29	Acer platanoides	38	8
3	4	4.5	25.41	Acer saccharum	1	1
3	5	4.2	32.48	Tilia americana	64	7
12	1	8.7	35.62	Fraxinus americana	109	7
12	2	5.6	42.18	Tilia americana	14	6
12	3	5.9	48.34	Other	218	6
12	4	8.4	42.55	Tilia americana	41	6
12	5	5.4	42.62	Fraxinus pennsylvanica	70	6
20	1	6.9	63.45	Fraxinus americana	129	7
20	2	18.7	44.3	Fraxinus americana	159	7
20	3	13.7	33.65	Fraxinus americana	239	8
20	4	0.8	19.23	Acer saccharum	181	6
20	5	0.9	29.15	Acer saccharum	23	5
23	1	60.7	80.4	Acer rubrum	0	0
23	2	36.7	30.35	Acer saccharum	233	3
23	3	41.2	54.78	Fraxinus pennsylvanica	41	5
23	4	23.6	39.85	Acer rubrum	113	3
23	5	16.2	73	Acer rubrum	98	2
24	1	2.2	37.8	Acer saccharinum	9	2
24	5	2.1	42.55	Tilia americana	1	1
24	7	3.8	45.08	Acer saccharum	69	3
24	8	4	29.68	Acer saccharum	0	0
24	9	2.6	26.08	Acer saccharum	0	0
30	1	NA	25.1	Tilia americana	5	2
30	2	NA	35.7	Quercus rubra	1	1
30	3	NA	31.51	Fraxinus americana	26	7
30	4	NA	30	Acer rubrum	0	0
30	5	NA	26.5	Acer platanoides	2	2
33	2	5.4	32.3	Acer saccharum	45	7
33	4	5.3	89.51	Acer saccharinum	1	1
33	5	6.7	42.1	Tilia tomentosa	4	2
33	6	6.7	35.87	Other	46	7
33	7	6.8	32.05	Other	103	8
34	1	8.2	52.12	Fraxinus pennsylvanica	184	6
34	2	7.6	48.78	Fraxinus pennsylvanica	289	7
34	3	7.1	50.9	Fraxinus pennsylvanica	207	6
34	4	8.4	59.88	Fraxinus americana	200	8
34	5	8.4	45.8	Fraxinus americana	282	7
41	1	1.6	27.24	Acer saccharum	191	9
41	2	2.2	23.46	Acer saccharum	240	9
41	3	2.1	25.5	Acer saccharum	118	5
41	4	1.5	33.29	Acer saccharum	99	8

Site	Tree	m to Road	DBH	Tree Species	Lichen Cover	Lichen Species Richness
41	5	1.6	27.27	Acer saccharum	102	6
44	1	11.3	54.81	Acer saccharum	128	8
44	2	10.8	51.89	Acer saccharum	227	6
44	3	12.3	56.14	Acer saccharum	145	6
44	4	10.5	54.45	Fraxinus americana	84	6
44	5	9	52.3	Fraxinus americana	172	9
49	1	4.8	32.92	Fraxinus americana	152	7
49	2	4.8	25.94	Fraxinus americana	208	8
49	3	4.8	46.35	Fraxinus americana	100	6
49	4	5.1	32.31	Fraxinus americana	216	9
49	5	8.8	36.71	Fraxinus americana	130	5
50	1	8.4	31.56	Acer saccharum	129	7
50	2	8	36.59	Acer saccharum	124	8
50	3	8.2	27.08	Acer saccharum	250	11
50	4	8.2	37.35	Acer saccharum	118	7
50	5	8	38.2	Acer saccharum	193	7
51	1	4.8	38.7	Acer rubrum	115	7
51	2	9.7	18.37	Acer rubrum	142	7
51	3	5.6	42.8	Acer platanoides	146	6
51	4	6.5	57.96	Acer saccharum	66	3
51	5	2	64.57	Acer saccharinum	0	0
52	1	6.3	34.57	Fraxinus nigra	78	6
52	2	5.5	37.18	Fraxinus americana	64	4
52	3	6.4	25.42	Acer saccharum	7	4
52	4	6.2	42.52	Fraxinus americana	51	4
52	5	6.5	32.1	Acer platanoides	89	7
53	1	12.6	41.48	Other	153	5
53	2	13	69.18	Other	222	8
53	3	12.1	78.4	Other	163	6
53	4	10.7	41.82	Other	264	5
53	5	11.9	29.7	Other	255	5
55	1	6	19.75	Tilia tomentosa	0	0
55	2	7.5	21	Tilia tomentosa	98	5
55	3	10.7	26.69	Tilia tomentosa	90	7
55	4	13.2	16.22	Fraxinus nigra	154	7
55	5	20.7	36.45	Tilia tomentosa	176	2
57	1	2.7	35.94	Fraxinus americana	89	7
57	2	5.4	49.98	Fraxinus americana	35	5
57	3	5	60.67	Quercus rubra	3	2
57	4	6.1	44.12	Quercus rubra	66	5
57	5	6.3	43.64	Fraxinus americana	65	5
58	1	5.4	29.61	Fraxinus americana	91	9
58	2	5.6	30.1	Fraxinus americana	207	11
58	3	5.6	30.39	Fraxinus americana	234	7
58	4	5.6	31.79	Fraxinus americana	141	10
58	5	5	29.05	Fraxinus americana	62	10
59	1	4	32.85	Acer rubrum	84	6
59	2	9.7	40	Acer saccharinum	24	3
59	3	5.8	40.28	Fraxinus americana	165	7
59	4	2.3	53.72	Fraxinus americana	121	7
59	5	8.1	32.75	Tilia americana	3	2
60	1	10.1	66.55	Acer saccharum	183	11
60	2	2	58.7	Populus tremuloides	212	9
60	3	3.9	58	Acer saccharinum	58	6
60	4	3.1	54.46	Acer saccharinum	199	4
60	5	3.4	85.83	Acer saccharinum	83	2
61	1	7.9	38.01	Fraxinus nigra	98	6

Site	Tree	m to Road	DBH	Tree Species	Lichen Cover	Lichen Species Richness
61	2	7.9	31.09	Fraxinus americana	258	3
61	3	7.5	45	Fraxinus americana	11	4
61	4	7.9	37.95	Fraxinus americana	252	6
61	5	8.1	49.69	Fraxinus americana	93	4
62	1	2.5	73.05	Other	0	0
62	2	2.4	44.79	Acer platanoides	5	3
62	3	2.5	64.82	Tilia americana	0	0
62	4	3.3	57.1	Tilia americana	7	2
62	5	3.3	46.09	Other	0	0
63	1	1.3	56.63	Fraxinus nigra	131	4
63	2	1	81.5	Acer rubrum	61	4
63	3	6.8	52.42	Fraxinus nigra	69	7
63	4	0.7	24.87	Fraxinus americana	174	8
63	5	4.9	59.03	Acer platanoides	22	2
64	1	5.7	59.31	Acer rubrum	49	5
64	2	5.7	43.78	Acer rubrum	134	6
64	3	14	67.93	Acer rubrum	0	0
64	4	2.7	73.24	Quercus alba	0	0
64	5	2.9	54.03	Fraxinus americana	37	7
65	1	5.3	45.56	Fraxinus americana	46	4
65	2	5.6	34.2	Fraxinus americana	193	6
65	3	6.1	31.09	Fraxinus americana	113	5
65	4	5.8	43.31	Fraxinus americana	93	6
65	5	8.8	29.35	Acer rubrum	141	7
68	1	6.5	75.26	Fraxinus americana	207	4
68	2	6.4	46.49	Acer rubrum	319	7
68	3	6.3	72.02	Acer rubrum	122	2
68	4	11	27.7	Acer rubrum	219	8
68	5	7.2	53.25	Acer rubrum	268	5
69	1	2.5	28.45	Quercus macrocarpa	22	1
69	2	3.4	29.52	Quercus macrocarpa	5	2
69	3	1.1	31.58	Quercus macrocarpa	27	4
69	4	1.2	30.5	Quercus macrocarpa	5	2
69	5	3.8	27.45	Quercus macrocarpa	25	4
70	1	NA	52.25	Other	3	1
70	2	NA	65.57	Other	32	6
70	3	NA	24.15	Other	0	0
70	4	NA	38.65	Other	17	3
70	6	15.3	76.08	Acer saccharinum	131	2
71	3	3.5	72.3	Quercus rubra	43	4
71	4	1.3	68.9	Acer saccharum	1	1
71	5	1.9	28.95	Acer saccharum	0	0
71	6	4.7	32.15	Acer saccharum	137	6
71	7	3.7	47.42	Acer saccharum	75	8
73	1	2.5	42.98	Acer platanoides	203	10
73	2	0.7	30.82	Tilia americana	2	1
73	3	0.8	33.5	Acer saccharum	0	0
73	4	4.2	37.05	Acer saccharum	12	3
73	5	7.2	53.12	Acer saccharinum	0	0
74	1	2.1	56.62	Other	76	4
74	2	1.7	41.95	Acer platanoides	0	0
74	5	4.3	33.48	Other	10	1
74	6	3.9	29.53	Other	35	3
74	7	3.7	27.35	Other	17	4
75	1	NA	32.23	Fraxinus americana	229	7
75	2	NA	26.01	Fraxinus americana	217	5
75	3	NA	39	Fraxinus americana	204	6

Site	Tree	m to Road	DBH	Tree Species	Lichen Cover	Lichen Species Richness
75	4	NA	29.07	Fraxinus americana	312	9
75	5	NA	24.73	Fraxinus americana	216	8
76	1	NA	62.11	Quercus alba	45	4
76	2	NA	69.65	Quercus alba	78	3
76	3	NA	39.93	Quercus alba	96	5
76	4	NA	53.19	Quercus alba	112	5
76	5	NA	59.79	Quercus alba	147	5
77	1	4.2	56.92	Fraxinus americana	178	6
77	2	10.4	74.05	Acer saccharinum	212	5
77	3	10.2	57.82	Acer saccharinum	120	5
77	4	10	54.88	Fraxinus americana	38	6
77	5	4.3	41.45	Fraxinus americana	113	5
78	1	2.3	26.35	Acer platanoides	0	0
78	2	2.1	29.78	Acer platanoides	3	1
78	3	1.6	40.02	Quercus rubra	33	3
78	4	2.4	39.22	Acer platanoides	9	2
78	5	14.8	82.85	Acer platanoides	0	0
79	1	6.5	35.94	Acer saccharum	154	7
79	2	6.1	48.35	Acer saccharum	276	6
79	3	7.6	36.19	Acer saccharum	77	5
79	4	4	31.77	Acer saccharum	189	6
79	5	4.2	31.42	Acer saccharum	91	5
83	1	8.2	51.15	Populus tremuloides	203	3
83	2	11.7	24.7	Fraxinus americana	397	5
83	3	6.2	39.77	Other	145	2
83	4	11.2	36.62	Fraxinus americana	243	2
83	5	5.2	32.75	Fraxinus americana	243	4
85	1	5.6	60.29	Fraxinus americana	79	3
85	2	5.7	33.5	Acer saccharum	25	2
85	3	5.3	72.69	Fraxinus americana	64	4
85	4	11.6	25.95	Fraxinus americana	241	8
85	5	7.4	50.86	Acer saccharum	85	3
86	1	4.3	22.19	Acer saccharum	2	2
86	2	4.5	19.9	Acer saccharum	10	2
86	3	6.4	21.4	Acer saccharum	2	1
86	4	4.3	25.91	Acer platanoides	2	2
86	5	2.4	31.78	Fraxinus americana	1	1
89	1	6.9	21.52	Acer platanoides	6	2
89	2	3.9	28.75	Acer platanoides	19	3
89	3	4.5	40.5	Quercus rubra	12	4
89	4	3.8	28.35	Acer platanoides	22	4
89	5	6.8	25.85	Acer platanoides	2	1
90	1	21	27.35	Fraxinus americana	65	5
90	2	25.1	32.69	Fraxinus americana	121	6
90	3	13.1	33.3	Fraxinus americana	0	0
90	4	18.7	23.18	Fraxinus americana	13	4
90	5	15.7	35.57	Fraxinus americana	12	5
91	1	7.9	30	Acer rubrum	186	5
91	2	3.8	33.9	Acer saccharum	88	6
91	3	4.1	24.45	Acer saccharum	125	6
91	4	4.5	25.15	Acer saccharum	138	7
91	5	6.6	30.35	Acer rubrum	98	6
92	1	10.2	37.26	Fraxinus nigra	103	5
92	2	10.5	50.96	Fraxinus americana	130	5
92	3	9.7	22.2	Fraxinus americana	188	8
92	4	9	48.96	Fraxinus americana	65	5
92	5	9.1	34.9	Fraxinus americana	103	3

Site	Tree	m to Road	DBH	Tree Species	Lichen Cover	Lichen Species Richness
93	1	11.4	35.38	Fraxinus americana	213	7
93	2	12	32.43	Fraxinus americana	249	6
93	3	13.3	33.17	Fraxinus americana	96	6
93	4	16.9	36.26	Fraxinus americana	148	4
93	5	18.5	40.39	Fraxinus americana	160	6
95	1	5.4	25.6	Acer platanoides	45	5
95	2	5.1	26.27	Acer platanoides	247	6
95	3	5.4	24.97	Acer platanoides	197	8
95	4	8.4	35.82	Acer saccharum	12	3
95	5	6.4	44.4	Acer saccharum	0	0
96	1	6	34.32	Acer saccharum	81	3
96	2	5.8	44.35	Acer saccharum	154	5
96	3	4.9	40.92	Acer saccharum	125	7
96	4	3.4	36.48	Acer saccharum	231	10
96	5	5.8	43.75	Acer saccharum	106	7
97	1	6.3	38.1	Fraxinus americana	320	6
97	2	6.1	33.4	Fraxinus americana	280	7
97	3	5.2	32.88	Fraxinus americana	235	7
97	4	5.8	36.61	Fraxinus americana	239	6
97	5	5.7	28.51	Fraxinus americana	260	7
98	1	3.6	37.82	Tilia americana	240	9
98	2	3.3	15.7	Acer platanoides	159	7
98	3	3.6	16.25	Acer platanoides	155	7
98	4	3.2	15.72	Acer platanoides	90	6
98	5	3	33.43	Tilia americana	247	9
99	1	9.7	67.9	Acer rubrum	100	7
99	2	8.4	69.91	Acer saccharum	66	7
99	3	9.9	39.04	Acer rubrum	149	3
99	4	8.8	42.69	Acer saccharum	0	0
99	5	8.6	59.9	Acer saccharum	10	4
100	1	0.9	29.55	Other	78	6
100	2	1.4	44.02	Tilia americana	1	1
100	3	3.9	77.32	Acer saccharinum	3	2
100	4	4.8	80.5	Quercus alba	0	0
100	5	6.6	56.26	Fraxinus americana	189	5
101	1	7.2	56.45	Acer rubrum	230	8
101	2	7.2	71.78	Acer rubrum	96	5
101	3	7.2	41.18	Acer rubrum	184	7
101	4	7.4	52.31	Acer rubrum	79	3
101	5	7.2	51.35	Acer rubrum	145	6
102	1	30.5	26.35	Other	118	8
102	2	17	33.44	Fraxinus americana	144	7
102	3	21	36.25	Fraxinus americana	61	5
102	4	11.2	20.5	Acer saccharum	30	8
102	5	27.9	28.9	Fraxinus americana	161	8
103	1	3	64.6	Tilia americana	0	0
103	2	3.4	86.6	Tilia americana	0	0
103	3	4.4	50.81	Fraxinus americana	15	3
103	4	2.8	46.68	Acer saccharum	24	3
103	5	3.5	41.82	Tilia americana	15	3
104	1	5.8	55.56	Fraxinus americana	1	1
104	2	3.9	64.56	Fraxinus americana	7	3
104	3	4.7	42.65	Fraxinus americana	21	4
104	4	3.6	47.11	Acer rubrum	84	5
104	5	8.6	44.85	Tilia americana	21	3
105	1	7.4	63.2	Acer saccharum	218	6
105	2	3.1	54.75	Fraxinus americana	127	6

Site	Tree	m to Road	DBH	Tree Species	Lichen Cover	Lichen Species Richness
105	3	7.3	45.59	Acer rubrum	154	4
105	4	7.8	54.05	Quercus rubra	58	8
105	5	3.4	21.43	Fraxinus americana	40	5
106	1	5.8	17.64	Populus tremuloides	102	7
106	2	10	26.35	Populus tremuloides	5	2
106	3	5.6	21.39	Populus tremuloides	2	2
106	4	15.6	33.44	Tilia americana	328	8
106	5	11.8	34.34	Populus tremuloides	44	5
107	1	12.1	35.28	Fraxinus americana	176	7
107	2	14.7	16.38	Fraxinus americana	259	9
107	3	14.7	21.5	Fraxinus americana	258	9
107	4	31.1	55.35	Fraxinus americana	253	6
107	5	40.8	37.35	Fraxinus americana	262	6
108	1	9.5	24.14	Fraxinus americana	187	8
108	2	7.7	21.8	Fraxinus americana	243	11
108	3	6.8	21.54	Acer platanoides	178	9
108	4	6.8	21.54	Acer platanoides	46	5
108	5	6.5	33.29	Acer saccharum	39	4
109	1	3.7	38.85	Other	147	10
109	2	4.6	39.91	Other	84	8
109	3	5	53.89	Fraxinus americana	54	4
109	4	3.6	26.87	Acer platanoides	0	0
109	5	6.5	40.6	Acer saccharum	114	8
110	1	8.8	46.35	Quercus macrocarpa	155	8
110	2	11.6	47.02	Fraxinus americana	167	7
110	3	5.6	32.31	Acer saccharinum	237	9
110	4	11.6	24.69	Acer rubrum	295	12
110	5	7.6	36.48	Fraxinus americana	162	7
111	1	4.8	17.16	Other	168	5
111	2	7	28.93	Acer platanoides	17	3
111	3	6.5	24.02	Acer rubrum	71	3
111	4	6.5	13.12	Acer rubrum	172	8
111	5	6.7	34.3	Fraxinus americana	96	4
112	1	7.8	26.78	Acer rubrum	164	7
112	2	11.9	23.13	Acer rubrum	161	5
112	3	5.7	31.65	Quercus rubra	9	3
112	4	14.8	25.45	Fraxinus americana	210	6
112	5	14.8	25.45	Fraxinus americana	73	9
121	1	8.6	14.85	Acer saccharum	0	0
121	2	8.6	18.2	Acer saccharum	28	5
121	3	8.6	19.4	Acer saccharum	23	3
121	4	8.6	19.05	Acer saccharum	65	3
121	5	8.6	20.2	Acer saccharum	6	2
122	1	7.3	24.3	Fraxinus pennsylvanica	182	5
122	2	7.3	24.1	Fraxinus pennsylvanica	213	6
122	3	7.3	18.4	Fraxinus pennsylvanica	273	8
122	4	7.6	20.65	Fraxinus pennsylvanica	185	6
122	5	7.3	23.05	Fraxinus pennsylvanica	235	8
125	1	6.4	32	Fraxinus pennsylvanica	105	13
125	2	9.6	31.5	Fraxinus pennsylvanica	173	11
125	3	8.5	31.5	Fraxinus pennsylvanica	132	10
125	4	71.5	25.85	Fraxinus pennsylvanica	17	4
125	5	NA	54.9	Other	0	0
126	1	4.6	16.3	Fraxinus pennsylvanica	103	8
126	2	4.6	22.65	Fraxinus pennsylvanica	139	5
126	3	3.2	25.15	Fraxinus pennsylvanica	64	5
126	4	3.5	17.15	Fraxinus pennsylvanica	111	5

Site	Tree	m to Road	DBH	Tree Species	Lichen Cover	Lichen Species Richness
126	5	1.9	19.05	Fraxinus pennsylvanica	5	2
127	1	9.1	68.35	Populus deltoides	172	8
127	2	7.8	28.25	Acer platanoides	25	4
127	3	7.3	26.49	Acer platanoides	15	4
127	4	7.3	29.62	Acer platanoides	3	2
127	5	7.3	23.7	Acer platanoides	23	5
128	1	6.5	14.55	Fraxinus pennsylvanica	272	5
128	2	6.5	20	Fraxinus pennsylvanica	254	4
128	3	6.5	15.45	Fraxinus pennsylvanica	232	6
128	4	6.5	13.15	Fraxinus pennsylvanica	266	5
128	5	6.5	20.2	Fraxinus pennsylvanica	81	5
132	1	NA	61.65	Populus deltoides	112	9
132	2	NA	15.65	Acer platanoides	1	1
132	3	NA	12.45	Acer saccharinum	11	3
132	4	NA	11.62	Acer saccharinum	35	4
132	5	NA	14.15	Acer saccharinum	34	4
133	1	6.3	27.15	Acer platanoides	25	4
133	2	6.3	30.9	Acer platanoides	157	3
133	3	6.3	27.5	Acer platanoides	210	5
133	4	6.3	29.55	Acer platanoides	131	5
133	5	6.3	29.1	Acer platanoides	308	4
134	1	6.4	23.25	Acer platanoides	24	4
134	2	6.4	17.8	Acer platanoides	8	2
134	3	6.4	20	Acer platanoides	40	6
134	4	6.4	20.55	Acer platanoides	18	4
134	5	6.4	19.2	Acer platanoides	28	2
135	1	10.3	68.9	Acer saccharum	129	7
135	2	10.7	80.25	Acer saccharum	145	4
135	3	11.7	94.15	Populus deltoides	207	5
135	4	10.9	99	Populus deltoides	123	4
135	5	9.9	92.7	Populus deltoides	137	5
137	1	53.4	15.85	Fraxinus americana	233	9
137	2	60.5	21.3	Fraxinus americana	242	10
137	3	68.1	19.85	Fraxinus pennsylvanica	190	10
137	4	75.2	17.05	Fraxinus americana	205	7
137	5	82.9	14.05	Fraxinus americana	159	7
138	1	49.3	16.5	Fraxinus americana	235	7
138	2	61	15.35	Fraxinus americana	30	2
138	3	NA	18.2	Acer platanoides	50	2
138	4	NA	10.8	Acer platanoides	43	5
138	5	NA	11.9	Acer platanoides	51	2
139	1	NA	40.95	Acer platanoides	255	10
139	2	14	51.7	Other	269	7
139	3	18.7	45.7	Other	274	7
139	4	37	53.5	Other	168	6
139	5	49.6	68.2	Other	87	7
140	1	NA	47	Fraxinus pennsylvanica	176	8
140	2	NA	49.25	Fraxinus americana	24	5
140	3	NA	38.07	Fraxinus americana	132	8
140	4	NA	41.6	Fraxinus americana	41	5
140	5	NA	26.75	Fraxinus americana	142	7
141	1	10.8	78.65	Populus deltoides	204	6
141	2	8.4	84.2	Populus deltoides	288	7
141	3	22	40.85	Fraxinus pennsylvanica	245	5
141	4	27.1	51.8	Other	255	8
141	5	40.9	47.05	Other	191	4
142	1	17.3	20.85	Fraxinus pennsylvanica	158	6

Site	Tree	m to Road	DBH	Tree Species	Lichen Cover	Lichen Species Richness
142	2	17.3	37.5	<i>Fraxinus americana</i>	64	5
142	3	22.1	32.7	<i>Fraxinus americana</i>	160	7
142	4	26.9	27.25	<i>Fraxinus americana</i>	145	7
142	5	32.5	31.4	<i>Fraxinus pennsylvanica</i>	68	5
143	1	11.4	42.35	<i>Fraxinus pennsylvanica</i>	136	5
143	2	16.4	51.65	<i>Fraxinus pennsylvanica</i>	145	7
143	3	6.1	31.65	<i>Fraxinus pennsylvanica</i>	176	6
143	4	7.4	51.95	<i>Fraxinus pennsylvanica</i>	183	6
143	5	19.2	36.1	<i>Fraxinus americana</i>	228	5
144	1	4.5	33.4	<i>Fraxinus americana</i>	74	7
144	2	4.7	28.3	<i>Fraxinus americana</i>	190	6
144	3	4.5	37.9	<i>Fraxinus americana</i>	198	5
144	4	4.4	30.5	<i>Fraxinus americana</i>	80	8
144	5	4.3	37	<i>Fraxinus americana</i>	158	10
145	1	19.4	34.5	<i>Fraxinus pennsylvanica</i>	95	6
145	2	11.7	46.75	<i>Fraxinus americana</i>	38	4
145	3	11.7	37.85	<i>Fraxinus pennsylvanica</i>	120	5
145	4	11.7	37.7	<i>Fraxinus pennsylvanica</i>	83	4
145	5	22.6	40.25	<i>Populus deltoides</i>	62	5
146	1	3.3	24.9	<i>Acer saccharum</i>	207	7
146	2	3.3	19.9	<i>Acer platanoides</i>	169	6
146	3	3.3	21.7	<i>Acer platanoides</i>	118	8
146	4	3.3	19.9	<i>Acer platanoides</i>	116	9
146	5	3.3	21.05	<i>Acer saccharum</i>	229	8

Appendix 15: Data used in mixed models: fixed effects of standardized pollution index (300m landscapes), standardized natural logarithm of tree crown area (1000m), standardized water potential (in MPa, corrected for week sensors were installed); random effects of tree species and standardized natural logarithm of tree diameter at breast height; and response variables of lichen cover and lichen species richness.

Site	Tree	zPollutionIndex 300m	zlogTreeCrownArea 1000m	zCorrectedWater Potential	Tree Species	zlogDB H	Lichen Cover	Lichen Species Richness
1	1	-1.131	1.024	0.365	Fraxinus americana	-1.375	191	8
1	2	-1.131	1.024	0.365	Acer platanoides	0.134	106	7
1	3	-1.131	1.024	0.365	Quercus rubra	0.463	77	6
1	4	-1.131	1.024	0.365	Fraxinus americana	1.188	13	2
1	5	-1.131	1.024	0.365	Acer saccharum	-0.265	0	0
2	1	0.672	0.986	0.591	Other	1.492	18	4
2	2	0.672	0.986	0.591	Other	-0.204	179	7
2	3	0.672	0.986	0.591	Other	-0.571	165	5
2	4	0.672	0.986	0.591	Other	0.416	49	5
2	5	0.672	0.986	0.591	Other	-0.311	47	6
3	1	0.902	-1.097	-0.557	Fraxinus americana	-0.760	85	5
3	2	0.902	-1.097	-0.557	Acer platanoides	0.106	30	4
3	3	0.902	-1.097	-0.557	Acer platanoides	-0.289	38	8
3	4	0.902	-1.097	-0.557	Acer saccharum	-0.774	1	1
3	5	0.902	-1.097	-0.557	Tilia americana	-0.202	64	7
12	1	0.353	-2.225	-0.060	Fraxinus americana	0.013	109	7
12	2	0.353	-2.225	-0.060	Tilia americana	0.406	14	6
12	3	0.353	-2.225	-0.060	Other	0.724	218	6
12	4	0.353	-2.225	-0.060	Tilia americana	0.427	41	6
12	5	0.353	-2.225	-0.060	Fraxinus pennsylvanica	0.431	70	6
20	1	1.237	-0.078	0.736	Fraxinus americana	1.357	129	7
20	2	1.237	-0.078	0.736	Fraxinus americana	0.521	159	7
20	3	1.237	-0.078	0.736	Fraxinus americana	-0.120	239	8
20	4	1.237	-0.078	0.736	Acer saccharum	-1.423	181	6
20	5	1.237	-0.078	0.736	Acer saccharum	-0.454	23	5
23	1	0.758	0.101	0.113	Acer rubrum	1.908	0	0
23	2	0.758	0.101	0.113	Acer saccharum	-0.360	233	3
23	3	0.758	0.101	0.113	Fraxinus pennsylvanica	1.015	41	5
23	4	0.758	0.101	0.113	Acer rubrum	0.274	113	3
23	5	0.758	0.101	0.113	Acer rubrum	1.684	98	2
24	1	1.005	-1.638	-1.604	Acer saccharinum	0.151	9	2
24	5	1.005	-1.638	-1.604	Tilia americana	0.427	1	1
24	7	1.005	-1.638	-1.604	Acer saccharum	0.561	69	3
24	8	1.005	-1.638	-1.604	Acer saccharum	-0.412	0	0
24	9	1.005	-1.638	-1.604	Acer saccharum	-0.713	0	0
30	1	0.510	-0.899	-0.731	Tilia americana	-0.802	5	2
30	2	0.510	-0.899	-0.731	Quercus rubra	0.018	1	1
30	3	0.510	-0.899	-0.731	Fraxinus americana	-0.273	26	7
30	4	0.510	-0.899	-0.731	Acer rubrum	-0.387	0	0
30	5	0.510	-0.899	-0.731	Acer platanoides	-0.676	2	2
33	2	0.775	-1.186	-0.292	Acer saccharum	-0.215	45	7
33	4	0.775	-1.186	-0.292	Acer saccharinum	2.158	1	1
33	5	0.775	-1.186	-0.292	Tilia tomentosa	0.402	4	2
33	6	0.775	-1.186	-0.292	Other	0.029	46	7
33	7	0.775	-1.186	-0.292	Other	-0.233	103	8
34	1	0.778	-0.865	-0.025	Fraxinus pennsylvanica	0.899	184	6
34	2	0.778	-0.865	-0.025	Fraxinus pennsylvanica	0.745	289	7
34	3	0.778	-0.865	-0.025	Fraxinus pennsylvanica	0.844	207	6
34	4	0.778	-0.865	-0.025	Fraxinus americana	1.222	200	8

Site	Tree	zPollutionIndex 300m	zlogTreeCrownArea 1000m	zCorrectedWater Potential	Tree Species	zlogDB H	Lichen Cover	Lichen Species Richness
34	5	0.778	-0.865	-0.025	Fraxinus americana	0.598	282	7
41	1	1.197	-0.839	-0.611	Acer saccharum	-0.612	191	9
41	2	1.197	-0.839	-0.611	Acer saccharum	-0.960	240	9
41	3	1.197	-0.839	-0.611	Acer saccharum	-0.765	118	5
41	4	1.197	-0.839	-0.611	Acer saccharum	-0.145	99	8
41	5	1.197	-0.839	-0.611	Acer saccharum	-0.609	102	6
44	1	-0.408	1.330	2.105	Acer saccharum	1.016	128	8
44	2	-0.408	1.330	2.105	Acer saccharum	0.889	227	6
44	3	-0.408	1.330	2.105	Acer saccharum	1.072	145	6
44	4	-0.408	1.330	2.105	Fraxinus americana	1.001	84	6
44	5	-0.408	1.330	2.105	Fraxinus americana	0.907	172	9
49	1	0.152	1.590	-0.166	Fraxinus americana	-0.171	152	7
49	2	0.152	1.590	-0.166	Fraxinus americana	-0.726	208	8
49	3	0.152	1.590	-0.166	Fraxinus americana	0.626	100	6
49	4	0.152	1.590	-0.166	Fraxinus americana	-0.214	216	9
49	5	0.152	1.590	-0.166	Fraxinus americana	0.083	130	5
50	1	1.224	0.078	-1.605	Acer saccharum	-0.269	129	7
50	2	1.224	0.078	-1.605	Acer saccharum	0.075	124	8
50	3	1.224	0.078	-1.605	Acer saccharum	-0.625	250	11
50	4	1.224	0.078	-1.605	Acer saccharum	0.123	118	7
50	5	1.224	0.078	-1.605	Acer saccharum	0.176	193	7
51	1	0.686	0.050	-2.381	Acer rubrum	0.206	115	7
51	2	0.686	0.050	-2.381	Acer rubrum	-1.529	142	7
51	3	0.686	0.050	-2.381	Acer platanoides	0.440	146	6
51	4	0.686	0.050	-2.381	Acer saccharum	1.146	66	3
51	5	0.686	0.050	-2.381	Acer saccharinum	1.398	0	0
52	1	0.677	-0.466	-0.630	Fraxinus nigra	-0.057	78	6
52	2	0.677	-0.466	-0.630	Fraxinus americana	0.113	64	4
52	3	0.677	-0.466	-0.630	Acer saccharum	-0.773	7	4
52	4	0.677	-0.466	-0.630	Fraxinus americana	0.425	51	4
52	5	0.677	-0.466	-0.630	Acer platanoides	-0.230	89	7
53	1	-2.041	0.750	0.847	Other	0.367	153	5
53	2	-2.041	0.750	0.847	Other	1.558	222	8
53	3	-2.041	0.750	0.847	Other	1.850	163	6
53	4	-2.041	0.750	0.847	Other	0.386	264	5
53	5	-2.041	0.750	0.847	Other	-0.410	255	5
55	1	0.743	-0.490	-0.268	Tilia tomentosa	-1.360	0	0
55	2	0.743	-0.490	-0.268	Tilia tomentosa	-1.218	98	5
55	3	0.743	-0.490	-0.268	Tilia tomentosa	-0.659	90	7
55	4	0.743	-0.490	-0.268	Fraxinus nigra	-1.819	154	7
55	5	0.743	-0.490	-0.268	Tilia tomentosa	0.066	176	2
57	1	0.494	1.069	-0.506	Fraxinus americana	0.034	89	7
57	2	0.494	1.069	-0.506	Fraxinus americana	0.801	35	5
57	3	0.494	1.069	-0.506	Quercus rubra	1.253	3	2
57	4	0.494	1.069	-0.506	Quercus rubra	0.511	66	5
57	5	0.494	1.069	-0.506	Fraxinus americana	0.486	65	5
58	1	0.310	1.170	0.264	Fraxinus americana	-0.418	91	9
58	2	0.310	1.170	0.264	Fraxinus americana	-0.379	207	11
58	3	0.310	1.170	0.264	Fraxinus americana	-0.357	234	7
58	4	0.310	1.170	0.264	Fraxinus americana	-0.252	141	10
58	5	0.310	1.170	0.264	Fraxinus americana	-0.462	62	10
59	1	-0.255	1.260	-0.894	Acer rubrum	-0.176	84	6
59	2	-0.255	1.260	-0.894	Acer saccharinum	0.283	24	3
59	3	-0.255	1.260	-0.894	Fraxinus americana	0.299	165	7
59	4	-0.255	1.260	-0.894	Fraxinus americana	0.969	121	7
59	5	-0.255	1.260	-0.894	Tilia americana	-0.183	3	2
60	1	0.645	1.132	-0.192	Acer saccharum	1.468	183	11
60	2	0.645	1.132	-0.192	Populus tremuloides	1.176	212	9
60	3	0.645	1.132	-0.192	Acer saccharinum	1.148	58	6
60	4	0.645	1.132	-0.192	Acer saccharinum	1.001	199	4
60	5	0.645	1.132	-0.192	Acer saccharinum	2.061	83	2
61	1	0.486	0.472	-0.095	Fraxinus nigra	0.164	98	6
61	2	0.486	0.472	-0.095	Fraxinus americana	-0.304	258	3
61	3	0.486	0.472	-0.095	Fraxinus americana	0.557	11	4
61	4	0.486	0.472	-0.095	Fraxinus americana	0.160	252	6

Site	Tree	zPollutionIndex 300m	zlogTreeCrownArea 1000m	zCorrectedWater Potential	Tree Species	zlogDB H	Lichen Cover	Lichen Species Richness
61	5	0.486	0.472	-0.095	Fraxinus americana	0.788	93	4
62	1	0.681	0.064	-0.039	Other	1.685	0	0
62	2	0.681	0.064	-0.039	Acer platanoides	0.546	5	3
62	3	0.681	0.064	-0.039	Tilia americana	1.407	0	0
62	4	0.681	0.064	-0.039	Tilia americana	1.112	7	2
62	5	0.681	0.064	-0.039	Other	0.613	0	0
63	1	-1.029	-0.068	0.985	Fraxinus nigra	1.092	131	4
63	2	-1.029	-0.068	0.985	Acer rubrum	1.940	61	4
63	3	-1.029	-0.068	0.985	Fraxinus nigra	0.912	69	7
63	4	-1.029	-0.068	0.985	Fraxinus americana	-0.824	174	8
63	5	-1.029	-0.068	0.985	Acer platanoides	1.189	22	2
64	1	0.429	0.838	0.955	Acer rubrum	1.200	49	5
64	2	0.429	0.838	0.955	Acer rubrum	0.493	134	6
64	3	0.429	0.838	0.955	Acer rubrum	1.516	0	0
64	4	0.429	0.838	0.955	Quercus alba	1.691	0	0
64	5	0.429	0.838	0.955	Fraxinus americana	0.983	37	7
65	1	-1.437	-1.287	-2.456	Fraxinus americana	0.586	46	4
65	2	-1.437	-1.287	-2.456	Fraxinus americana	-0.082	193	6
65	3	-1.437	-1.287	-2.456	Fraxinus americana	-0.304	113	5
65	4	-1.437	-1.287	-2.456	Fraxinus americana	0.468	93	6
65	5	-1.437	-1.287	-2.456	Acer rubrum	-0.438	141	7
68	1	-1.824	1.655	3.003	Fraxinus americana	1.755	207	4
68	2	-1.824	1.655	3.003	Acer rubrum	0.633	319	7
68	3	-1.824	1.655	3.003	Acer rubrum	1.652	122	2
68	4	-1.824	1.655	3.003	Acer rubrum	-0.573	219	8
68	5	-1.824	1.655	3.003	Acer rubrum	0.949	268	5
69	1	1.090	0.567	-0.563	Quercus macrocarpa	-0.511	22	1
69	2	1.090	0.567	-0.563	Quercus macrocarpa	-0.425	5	2
69	3	1.090	0.567	-0.563	Quercus macrocarpa	-0.268	27	4
69	4	1.090	0.567	-0.563	Quercus macrocarpa	-0.349	5	2
69	5	1.090	0.567	-0.563	Quercus macrocarpa	-0.594	25	4
70	1	-1.015	0.808	-0.009	Other	0.905	3	1
70	2	-1.015	0.808	-0.009	Other	1.434	32	6
70	3	-1.015	0.808	-0.009	Other	-0.892	0	0
70	4	-1.015	0.808	-0.009	Other	0.203	17	3
70	6	-1.015	0.808	-0.009	Acer saccharinum	1.780	131	2
71	3	-0.708	1.125	1.789	Quercus rubra	1.661	43	4
71	4	-0.708	1.125	1.789	Acer saccharum	1.549	1	1
71	5	-0.708	1.125	1.789	Acer saccharum	-0.470	0	0
71	6	-0.708	1.125	1.789	Acer saccharum	-0.226	137	6
71	7	-0.708	1.125	1.789	Acer saccharum	0.679	75	8
73	1	0.905	0.316	0.224	Acer platanoides	0.450	203	10
73	2	0.905	0.316	0.224	Tilia americana	-0.324	2	1
73	3	0.905	0.316	0.224	Acer saccharum	-0.130	0	0
73	4	0.905	0.316	0.224	Acer saccharum	0.104	12	3
73	5	0.905	0.316	0.224	Acer saccharinum	0.943	0	0
74	1	1.131	-1.163	-1.816	Other	1.092	76	4
74	2	1.131	-1.163	-1.816	Acer platanoides	0.394	0	0
74	5	1.131	-1.163	-1.816	Other	-0.131	10	1
74	6	1.131	-1.163	-1.816	Other	-0.424	35	3
74	7	1.131	-1.163	-1.816	Other	-0.602	17	4
75	1	-0.927	-0.208	1.158	Fraxinus americana	-0.220	229	7
75	2	-0.927	-0.208	1.158	Fraxinus americana	-0.719	217	5
75	3	-0.927	-0.208	1.158	Fraxinus americana	0.224	204	6
75	4	-0.927	-0.208	1.158	Fraxinus americana	-0.460	312	9
75	5	-0.927	-0.208	1.158	Fraxinus americana	-0.837	216	8
76	1	-2.046	-0.112	-0.203	Quercus alba	1.307	45	4
76	2	-2.046	-0.112	-0.203	Quercus alba	1.574	78	3
76	3	-2.046	-0.112	-0.203	Quercus alba	0.279	96	5
76	4	-2.046	-0.112	-0.203	Quercus alba	0.946	112	5
76	5	-2.046	-0.112	-0.203	Quercus alba	1.219	147	5
77	1	-1.624	-0.345	-1.221	Fraxinus americana	1.104	178	6
77	2	-1.624	-0.345	-1.221	Acer saccharinum	1.717	212	5
77	3	-1.624	-0.345	-1.221	Acer saccharinum	1.141	120	5
77	4	-1.624	-0.345	-1.221	Fraxinus americana	1.019	38	6

Site	Tree	zPollutionIndex 300m	zlogTreeCrownArea 1000m	zCorrectedWater Potential	Tree Species	zlogDB H	Lichen Cover	Lichen Species Richness
77	5	-1.624	-0.345	-1.221	Fraxinus americana	0.366	113	5
78	1	1.056	-0.358	0.207	Acer platanoides	-0.689	0	0
78	2	1.056	-0.358	0.207	Acer platanoides	-0.404	3	1
78	3	1.056	-0.358	0.207	Quercus rubra	0.284	33	3
78	4	1.056	-0.358	0.207	Acer platanoides	0.237	9	2
78	5	1.056	-0.358	0.207	Acer platanoides	1.978	0	0
79	1	-0.547	0.020	-0.801	Acer saccharum	0.034	154	7
79	2	-0.547	0.020	-0.801	Acer saccharum	0.724	276	6
79	3	-0.547	0.020	-0.801	Acer saccharum	0.050	77	5
79	4	-0.547	0.020	-0.801	Acer saccharum	-0.254	189	6
79	5	-0.547	0.020	-0.801	Acer saccharum	-0.279	91	5
83	1	-2.041	-0.702	0.999	Populus tremuloides	0.855	203	3
83	2	-2.041	-0.702	0.999	Fraxinus americana	-0.840	397	5
83	3	-2.041	-0.702	0.999	Other	0.269	145	2
83	4	-2.041	-0.702	0.999	Fraxinus americana	0.077	243	2
83	5	-2.041	-0.702	0.999	Fraxinus americana	-0.183	243	4
85	1	-1.986	1.226	1.511	Fraxinus americana	1.238	79	3
85	2	-1.986	1.226	1.511	Acer saccharum	-0.130	25	2
85	3	-1.986	1.226	1.511	Fraxinus americana	1.674	64	4
85	4	-1.986	1.226	1.511	Fraxinus americana	-0.725	241	8
85	5	-1.986	1.226	1.511	Acer saccharum	0.842	85	3
86	1	0.532	0.337	1.499	Acer saccharum	-1.089	2	2
86	2	0.532	0.337	1.499	Acer saccharum	-1.343	10	2
86	3	0.532	0.337	1.499	Acer saccharum	-1.174	2	1
86	4	0.532	0.337	1.499	Acer platanoides	-0.728	2	2
86	5	0.532	0.337	1.499	Fraxinus americana	-0.253	1	1
89	1	1.007	-0.219	-1.028	Acer platanoides	-1.161	6	2
89	2	1.007	-0.219	-1.028	Acer platanoides	-0.486	19	3
89	3	1.007	-0.219	-1.028	Quercus rubra	0.312	12	4
89	4	1.007	-0.219	-1.028	Acer platanoides	-0.519	22	4
89	5	1.007	-0.219	-1.028	Acer platanoides	-0.734	2	1
90	1	-1.331	1.585	0.075	Fraxinus americana	-0.602	65	5
90	2	-1.331	1.585	0.075	Fraxinus americana	-0.187	121	6
90	3	-1.331	1.585	0.075	Fraxinus americana	-0.144	0	0
90	4	-1.331	1.585	0.075	Fraxinus americana	-0.988	13	4
90	5	-1.331	1.585	0.075	Fraxinus americana	0.010	12	5
91	1	-0.813	2.263	0.381	Acer rubrum	-0.387	186	5
91	2	-0.813	2.263	0.381	Acer saccharum	-0.102	88	6
91	3	-0.813	2.263	0.381	Acer saccharum	-0.863	125	6
91	4	-0.813	2.263	0.381	Acer saccharum	-0.798	138	7
91	5	-0.813	2.263	0.381	Acer rubrum	-0.360	98	6
92	1	-1.840	1.406	0.580	Fraxinus nigra	0.118	103	5
92	2	-1.840	1.406	0.580	Fraxinus americana	0.847	130	5
92	3	-1.840	1.406	0.580	Fraxinus americana	-1.088	188	8
92	4	-1.840	1.406	0.580	Fraxinus americana	0.753	65	5
92	5	-1.840	1.406	0.580	Fraxinus americana	-0.035	103	3
93	1	-1.581	1.334	1.454	Fraxinus americana	-0.003	213	7
93	2	-1.581	1.334	1.454	Fraxinus americana	-0.206	249	6
93	3	-1.581	1.334	1.454	Fraxinus americana	-0.153	96	6
93	4	-1.581	1.334	1.454	Fraxinus americana	0.054	148	4
93	5	-1.581	1.334	1.454	Fraxinus americana	0.305	160	6
95	1	0.331	0.694	-1.614	Acer platanoides	-0.756	45	5
95	2	0.331	0.694	-1.614	Acer platanoides	-0.696	247	6
95	3	0.331	0.694	-1.614	Acer platanoides	-0.814	197	8
95	4	0.331	0.694	-1.614	Acer saccharum	0.026	12	3
95	5	0.331	0.694	-1.614	Acer saccharum	0.526	0	0
96	1	0.584	0.739	0.734	Acer saccharum	-0.074	81	3
96	2	0.584	0.739	0.734	Acer saccharum	0.523	154	5
96	3	0.584	0.739	0.734	Acer saccharum	0.336	125	7
96	4	0.584	0.739	0.734	Acer saccharum	0.068	231	10
96	5	0.584	0.739	0.734	Acer saccharum	0.491	106	7
97	1	-1.673	0.356	1.776	Fraxinus americana	0.169	320	6
97	2	-1.673	0.356	1.776	Fraxinus americana	-0.137	280	7
97	3	-1.673	0.356	1.776	Fraxinus americana	-0.174	235	7
97	4	-1.673	0.356	1.776	Fraxinus americana	0.077	239	6

Site	Tree	zPollutionIndex 300m	zlogTreeCrownArea 1000m	zCorrectedWater Potential	Tree Species	zlogDB H	Lichen Cover	Lichen Species Richness
97	5	-1.673	0.356	1.776	Fraxinus americana	-0.506	260	7
98	1	0.695	-0.266	-0.661	Tilia americana	0.152	240	9
98	2	0.695	-0.266	-0.661	Acer platanoides	-1.895	159	7
98	3	0.695	-0.266	-0.661	Acer platanoides	-1.815	155	7
98	4	0.695	-0.266	-0.661	Acer platanoides	-1.892	90	6
98	5	0.695	-0.266	-0.661	Tilia americana	-0.135	247	9
99	1	0.392	0.816	-0.223	Acer rubrum	1.515	100	7
99	2	0.392	0.816	-0.223	Acer saccharum	1.583	66	7
99	3	0.392	0.816	-0.223	Acer rubrum	0.226	149	3
99	4	0.392	0.816	-0.223	Acer saccharum	0.434	0	0
99	5	0.392	0.816	-0.223	Acer saccharum	1.223	10	4
100	1	0.708	0.208	-1.844	Other	-0.422	78	6
100	2	0.708	0.208	-1.844	Tilia americana	0.506	1	1
100	3	0.708	0.208	-1.844	Acer saccharinum	1.817	3	2
100	4	0.708	0.208	-1.844	Quercus alba	1.911	0	0
100	5	0.708	0.208	-1.844	Fraxinus americana	1.077	189	5
101	1	0.568	-0.317	-0.225	Acer rubrum	1.085	230	8
101	2	0.568	-0.317	-0.225	Acer rubrum	1.644	96	5
101	3	0.568	-0.317	-0.225	Acer rubrum	0.351	184	7
101	4	0.568	-0.317	-0.225	Acer rubrum	0.908	79	3
101	5	0.568	-0.317	-0.225	Acer rubrum	0.864	145	6
102	1	1.417	0.253	0.908	Other	-0.689	118	8
102	2	1.417	0.253	0.908	Fraxinus americana	-0.134	144	7
102	3	1.417	0.253	0.908	Fraxinus americana	0.054	61	5
102	4	1.417	0.253	0.908	Acer saccharum	-1.274	30	8
102	5	1.417	0.253	0.908	Fraxinus americana	-0.474	161	8
103	1	0.722	0.034	1.296	Tilia americana	1.399	0	0
103	2	0.722	0.034	1.296	Tilia americana	2.081	0	0
103	3	0.722	0.034	1.296	Fraxinus americana	0.840	15	3
103	4	0.722	0.034	1.296	Acer saccharum	0.642	24	3
103	5	0.722	0.034	1.296	Tilia americana	0.386	15	3
104	1	0.392	-1.684	-1.960	Fraxinus americana	1.048	1	1
104	2	0.392	-1.684	-1.960	Fraxinus americana	1.397	7	3
104	3	0.392	-1.684	-1.960	Fraxinus americana	0.432	21	4
104	4	0.392	-1.684	-1.960	Acer rubrum	0.664	84	5
104	5	0.392	-1.684	-1.960	Tilia americana	0.549	21	3
105	1	0.020	-1.584	0.959	Acer saccharum	1.348	218	6
105	2	0.020	-1.584	0.959	Fraxinus americana	1.014	127	6
105	3	0.020	-1.584	0.959	Acer rubrum	0.587	154	4
105	4	0.020	-1.584	0.959	Quercus rubra	0.984	58	8
105	5	0.020	-1.584	0.959	Fraxinus americana	-1.170	40	5
106	1	-2.268	-2.656	0.530	Populus tremuloides	-1.624	102	7
106	2	-2.268	-2.656	0.530	Populus tremuloides	-0.689	5	2
106	3	-2.268	-2.656	0.530	Populus tremuloides	-1.175	2	2
106	4	-2.268	-2.656	0.530	Tilia americana	-0.134	328	8
106	5	-2.268	-2.656	0.530	Populus tremuloides	-0.072	44	5
107	1	0.308	1.008	0.776	Fraxinus americana	-0.010	176	7
107	2	0.308	1.008	0.776	Fraxinus americana	-1.796	259	9
107	3	0.308	1.008	0.776	Fraxinus americana	-1.163	258	9
107	4	0.308	1.008	0.776	Fraxinus americana	1.039	253	6
107	5	0.308	1.008	0.776	Fraxinus americana	0.123	262	6
108	1	0.728	-0.488	-1.208	Fraxinus americana	-0.893	187	8
108	2	0.728	-0.488	-1.208	Fraxinus americana	-1.130	243	11
108	3	0.728	-0.488	-1.208	Acer platanoides	-1.158	178	9
108	4	0.728	-0.488	-1.208	Acer platanoides	-1.158	46	5
108	5	0.728	-0.488	-1.208	Acer saccharum	-0.145	39	4
109	1	0.432	0.014	0.960	Other	0.215	147	10
109	2	0.432	0.014	0.960	Other	0.278	84	8
109	3	0.432	0.014	0.960	Fraxinus americana	0.977	54	4
109	4	0.432	0.014	0.960	Acer platanoides	-0.644	0	0
109	5	0.432	0.014	0.960	Acer saccharum	0.317	114	8
110	1	0.325	0.571	-0.746	Quercus macrocarpa	0.626	155	8
110	2	0.325	0.571	-0.746	Fraxinus americana	0.659	167	7
110	3	0.325	0.571	-0.746	Acer saccharinum	-0.214	237	9
110	4	0.325	0.571	-0.746	Acer rubrum	-0.841	295	12

Site	Tree	zPollutionIndex 300m	zlogTreeCrownArea 1000m	zCorrectedWater Potential	Tree Species	zlogDB H	Lichen Cover	Lichen Species Richness
110	5	0.325	0.571	-0.746	Fraxinus americana	0.068	162	7
111	1	0.484	0.491	-0.157	Other	-1.688	168	5
111	2	0.484	0.491	-0.157	Acer platanoides	-0.472	17	3
111	3	0.484	0.491	-0.157	Acer rubrum	-0.905	71	3
111	4	0.484	0.491	-0.157	Acer rubrum	-2.313	172	8
111	5	0.484	0.491	-0.157	Fraxinus americana	-0.075	96	4
112	1	-0.048	-1.159	-0.395	Acer rubrum	-0.651	164	7
112	2	-0.048	-1.159	-0.395	Acer rubrum	-0.993	161	5
112	3	-0.048	-1.159	-0.395	Quercus rubra	-0.262	9	3
112	4	-0.048	-1.159	-0.395	Fraxinus americana	-0.770	210	6
112	5	-0.048	-1.159	-0.395	Fraxinus americana	-0.770	73	9
121	1	-0.386	0.535	-0.033	Acer saccharum	-2.024	0	0
121	2	-0.386	0.535	-0.033	Acer saccharum	-1.551	28	5
121	3	-0.386	0.535	-0.033	Acer saccharum	-1.402	23	3
121	4	-0.386	0.535	-0.033	Acer saccharum	-1.444	65	3
121	5	-0.386	0.535	-0.033	Acer saccharum	-1.308	6	2
122	1	0.507	0.511	0.226	Fraxinus pennsylvanica	-0.878	182	5
122	2	0.507	0.511	0.226	Fraxinus pennsylvanica	-0.897	213	6
122	3	0.507	0.511	0.226	Fraxinus pennsylvanica	-1.525	273	8
122	4	0.507	0.511	0.226	Fraxinus pennsylvanica	-1.257	185	6
122	5	0.507	0.511	0.226	Fraxinus pennsylvanica	-1.001	235	8
125	1	0.857	-0.216	1.068	Fraxinus pennsylvanica	-0.237	105	13
125	2	0.857	-0.216	1.068	Fraxinus pennsylvanica	-0.273	173	11
125	3	0.857	-0.216	1.068	Fraxinus pennsylvanica	-0.273	132	10
125	4	0.857	-0.216	1.068	Fraxinus pennsylvanica	-0.734	17	4
125	5	0.857	-0.216	1.068	Other	1.020	0	0
126	1	0.288	0.073	-0.615	Fraxinus pennsylvanica	-1.807	103	8
126	2	0.288	0.073	-0.615	Fraxinus pennsylvanica	-1.041	139	5
126	3	0.288	0.073	-0.615	Fraxinus pennsylvanica	-0.798	64	5
126	4	0.288	0.073	-0.615	Fraxinus pennsylvanica	-1.689	111	5
126	5	0.288	0.073	-0.615	Fraxinus pennsylvanica	-1.444	5	2
127	1	-0.387	-1.393	0.285	Populus deltoides	1.530	172	8
127	2	-0.387	-1.393	0.285	Acer platanoides	-0.527	25	4
127	3	-0.387	-1.393	0.285	Acer platanoides	-0.677	15	4
127	4	-0.387	-1.393	0.285	Acer platanoides	-0.417	3	2
127	5	-0.387	-1.393	0.285	Acer platanoides	-0.936	23	5
128	1	-1.916	-1.226	0.201	Fraxinus pennsylvanica	-2.072	272	5
128	2	-1.916	-1.226	0.201	Fraxinus pennsylvanica	-1.331	254	4
128	3	-1.916	-1.226	0.201	Fraxinus pennsylvanica	-1.932	232	6
128	4	-1.916	-1.226	0.201	Fraxinus pennsylvanica	-2.308	266	5
128	5	-1.916	-1.226	0.201	Fraxinus pennsylvanica	-1.308	81	5
132	1	0.296	-1.064	-0.323	Populus deltoides	1.290	112	9
132	2	0.296	-1.064	-0.323	Acer platanoides	-1.902	1	1
132	3	0.296	-1.064	-0.323	Acer saccharinum	-2.435	11	3
132	4	0.296	-1.064	-0.323	Acer saccharinum	-2.596	35	4
132	5	0.296	-1.064	-0.323	Acer saccharinum	-2.137	34	4
133	1	0.586	-2.544	0.104	Acer platanoides	-0.619	25	4
133	2	0.586	-2.544	0.104	Acer platanoides	-0.318	157	3
133	3	0.586	-2.544	0.104	Acer platanoides	-0.590	210	5
133	4	0.586	-2.544	0.104	Acer platanoides	-0.422	131	5
133	5	0.586	-2.544	0.104	Acer platanoides	-0.458	308	4
134	1	-0.118	-1.515	-0.604	Acer platanoides	-0.981	24	4
134	2	-0.118	-1.515	-0.604	Acer platanoides	-1.602	8	2
134	3	-0.118	-1.515	-0.604	Acer platanoides	-1.331	40	6
134	4	-0.118	-1.515	-0.604	Acer platanoides	-1.268	18	4
134	5	-0.118	-1.515	-0.604	Acer platanoides	-1.426	28	2
135	1	-0.046	0.292	0.423	Acer saccharum	1.549	129	7
135	2	-0.046	0.292	0.423	Acer saccharum	1.904	145	4
135	3	-0.046	0.292	0.423	Populus deltoides	2.276	207	5
135	4	-0.046	0.292	0.423	Populus deltoides	2.393	123	4
135	5	-0.046	0.292	0.423	Populus deltoides	2.240	137	5
137	1	0.072	0.219	-0.706	Fraxinus americana	-1.873	233	9
137	2	0.072	0.219	-0.706	Fraxinus americana	-1.185	242	10
137	3	0.072	0.219	-0.706	Fraxinus pennsylvanica	-1.349	190	10
137	4	0.072	0.219	-0.706	Fraxinus americana	-1.703	205	7

Site	Tree	zPollutionIndex 300m	zlogTreeCrownArea 1000m	zCorrectedWater Potential	Tree Species	zlogDB H	Lichen Cover	Lichen Species Richness
137	5	0.072	0.219	-0.706	Fraxinus americana	-2.153	159	7
138	1	0.372	0.405	-0.724	Fraxinus americana	-1.779	235	7
138	2	0.372	0.405	-0.724	Fraxinus americana	-1.947	30	2
138	3	0.372	0.405	-0.724	Acer platanoides	-1.551	50	2
138	4	0.372	0.405	-0.724	Acer platanoides	-2.766	43	5
138	5	0.372	0.405	-0.724	Acer platanoides	-2.540	51	2
139	1	0.766	-0.218	-0.339	Acer platanoides	0.337	255	10
139	2	0.766	-0.218	-0.339	Other	0.880	269	7
139	3	0.766	-0.218	-0.339	Other	0.593	274	7
139	4	0.766	-0.218	-0.339	Other	0.960	168	6
139	5	0.766	-0.218	-0.339	Other	1.525	87	7
140	1	-0.195	-0.637	0.591	Fraxinus pennsylvanica	0.658	176	8
140	2	-0.195	-0.637	0.591	Fraxinus americana	0.767	24	5
140	3	-0.195	-0.637	0.591	Fraxinus americana	0.168	132	8
140	4	-0.195	-0.637	0.591	Fraxinus americana	0.374	41	5
140	5	-0.195	-0.637	0.591	Fraxinus americana	-0.654	142	7
141	1	-0.143	0.534	0.554	Populus deltoides	1.857	204	6
141	2	-0.143	0.534	0.554	Populus deltoides	2.016	288	7
141	3	-0.143	0.534	0.554	Fraxinus pennsylvanica	0.332	245	5
141	4	-0.143	0.534	0.554	Other	0.885	255	8
141	5	-0.143	0.534	0.554	Other	0.661	191	4
142	1	-1.381	1.146	-0.002	Fraxinus pennsylvanica	-1.234	158	6
142	2	-1.381	1.146	-0.002	Fraxinus americana	0.133	64	5
142	3	-1.381	1.146	-0.002	Fraxinus americana	-0.186	160	7
142	4	-1.381	1.146	-0.002	Fraxinus americana	-0.611	145	7
142	5	-1.381	1.146	-0.002	Fraxinus pennsylvanica	-0.281	68	5
143	1	-0.667	-0.328	-0.111	Fraxinus pennsylvanica	0.416	136	5
143	2	-0.667	-0.328	-0.111	Fraxinus pennsylvanica	0.878	145	7
143	3	-0.667	-0.328	-0.111	Fraxinus pennsylvanica	-0.262	176	6
143	4	-0.667	-0.328	-0.111	Fraxinus pennsylvanica	0.891	183	6
143	5	-0.667	-0.328	-0.111	Fraxinus americana	0.044	228	5
144	1	-1.121	-0.332	1.022	Fraxinus americana	-0.137	74	7
144	2	-1.121	-0.332	1.022	Fraxinus americana	-0.523	190	6
144	3	-1.121	-0.332	1.022	Fraxinus americana	0.157	198	5
144	4	-1.121	-0.332	1.022	Fraxinus americana	-0.349	80	8
144	5	-1.121	-0.332	1.022	Fraxinus americana	0.101	158	10
145	1	1.993	-1.144	-0.690	Fraxinus pennsylvanica	-0.062	95	6
145	2	1.993	-1.144	-0.690	Fraxinus americana	0.646	38	4
145	3	1.993	-1.144	-0.690	Fraxinus pennsylvanica	0.154	120	5
145	4	1.993	-1.144	-0.690	Fraxinus pennsylvanica	0.145	83	4
145	5	1.993	-1.144	-0.690	Populus deltoides	0.297	62	5
146	1	0.653	-0.444	-0.321	Acer saccharum	-0.821	207	7
146	2	0.653	-0.444	-0.321	Acer platanoides	-1.343	169	6
146	3	0.653	-0.444	-0.321	Acer platanoides	-1.141	118	8
146	4	0.653	-0.444	-0.321	Acer platanoides	-1.343	116	9
146	5	0.653	-0.444	-0.321	Acer saccharum	-1.212	229	8

Appendix 16: Lichen data collected in the field including: site number (of 84 total), tree number (five total per site), side of the tree (“r” for ladder placed parallel to the road on the part of the tree closest to the road, “s1” for 90 degrees clockwise, “a” for away from the road, and “s2” for 270 degrees clockwise), compass bearing of the ladder (in degrees), identity of the lichen, and the number of circles occupied by the lichen in each quadrat (Q1 being the top quadrat in a ladder and Q5 being the bottom quadrat).

Site	Tree	Side	Degrees	Lichen	Q1	Q2	Q3	Q4	Q5
1	1	a	13	Candelaria concolor	3	2	2	1	2
1	1	r	181	Candelaria concolor	6	1	0	5	4
1	1	s1	289	Candelaria concolor	5	4	5	4	4
1	1	s2	107	Candelaria concolor	6	5	2	3	6
1	1	a	13	Hyperphyscia adglutinata	2	1	2	2	2
1	1	s2	107	Hyperphyscia adglutinata	1	0	0	0	0
1	1	a	13	Phaeophyscia adiaetola	6	5	3	7	3
1	1	r	181	Phaeophyscia adiaetola	1	0	0	0	5
1	1	s1	289	Phaeophyscia adiaetola	0	2	2	3	0
1	1	s2	107	Phaeophyscia adiaetola	2	1	0	0	1
1	1	r	181	Phaeophyscia rubripulchra	2	0	2	0	0
1	1	s2	107	Phaeophyscia rubripulchra	1	2	0	1	0
1	1	a	13	Physcia aipolia	2	0	1	1	1
1	1	r	181	Physcia aipolia	0	1	3	2	1
1	1	s2	107	Physcia aipolia	1	1	3	2	2
1	1	a	13	Physcia millegrana	1	1	1	3	1
1	1	r	181	Physcia millegrana	1	0	0	0	0
1	1	s1	289	Physcia millegrana	1	0	0	0	0
1	1	s2	107	Physcia millegrana	0	2	2	0	0
1	1	r	181	Physciella chloantha	1	2	0	0	1
1	1	s1	289	Physciella chloantha	1	0	0	1	5
1	1	s2	107	Physciella chloantha	0	1	0	2	6
1	1	a	13	Xanthomendoza fallax	0	1	0	1	0
1	1	r	181	Xanthomendoza fallax	0	0	2	1	0
1	1	s1	289	Xanthomendoza fallax	0	0	0	0	1
1	1	s2	107	Xanthomendoza fallax	0	0	0	2	0
1	2	a	99	Candelaria concolor	1	1	0	1	1
1	2	r	298	Candelaria concolor	0	2	2	1	0
1	2	s1	5	Candelaria concolor	0	2	2	0	0
1	2	s2	189	Candelaria concolor	2	1	0	1	2
1	2	a	99	Hyperphyscia adglutinata	3	2	1	0	2
1	2	r	298	Hyperphyscia adglutinata	0	0	0	0	2
1	2	s1	5	Hyperphyscia adglutinata	1	1	1	1	0
1	2	s2	189	Hyperphyscia adglutinata	0	1	0	0	0
1	2	a	99	Phaeophyscia pussiloides	0	0	0	1	1
1	2	r	298	Phaeophyscia rubripulchra	1	0	0	0	0
1	2	s1	5	Physcia aipolia	0	0	0	1	0
1	2	a	99	Physcia millegrana	1	0	0	0	0
1	2	s2	189	Physcia millegrana	0	0	2	0	0

Site	Tree	Side	Degrees	Lichen	Q1	Q2	Q3	Q4	Q5
1	2	a	99	Physciella chloantha	4	8	9	7	11
1	2	r	298	Physciella chloantha	1	5	1	2	2
1	2	s1	5	Physciella chloantha	0	1	1	2	1
1	2	s2	189	Physciella chloantha	3	4	1	0	2
1	3	a	153	Candelaria concolor	0	0	1	1	0
1	3	r	345	Candelaria concolor	0	0	0	0	2
1	3	a	153	Hyperphyscia adglutinata	0	0	7	1	0
1	3	r	345	Hyperphyscia adglutinata	0	1	0	2	2
1	3	s1	79	Hyperphyscia adglutinata	0	0	0	2	0
1	3	s2	249	Hyperphyscia adglutinata	1	0	0	0	0
1	3	a	153	Phaeophyscia adiastrata	1	4	6	5	6
1	3	r	345	Phaeophyscia adiastrata	0	1	2	2	2
1	3	s2	249	Phaeophyscia adiastrata	1	0	4	0	1
1	3	a	153	Phaeophyscia pussiloides	1	0	0	0	0
1	3	r	345	Phaeophyscia pussiloides	1	2	1	3	0
1	3	a	153	Phaeophyscia rubripulchra	1	0	0	0	0
1	3	r	345	Phaeophyscia rubripulchra	0	0	2	0	0
1	3	s1	79	Phaeophyscia rubripulchra	0	1	0	0	0
1	3	a	153	Physciella chloantha	1	2	0	0	0
1	3	r	345	Physciella chloantha	5	0	1	0	0
1	3	s2	249	Physciella chloantha	0	1	0	0	0
1	4	s2	188	Candelaria concolor	4	1	1	1	1
1	4	s2	188	Xanthomendoza fallax	1	1	1	1	1
2	1	a	59	Candelaria concolor	1	1	0	0	0
2	1	s2	150	Candelaria concolor	1	0	0	0	0
2	1	a	59	Physcia adscendens	3	1	0	0	1
2	1	a	59	Physciella chloantha	3	1	1	0	0
2	1	a	59	Xanthomendoza fallax	0	1	1	1	0
2	1	s2	150	Xanthomendoza fallax	2	0	0	0	0
2	2	a	105	Candelaria concolor	1	0	1	2	2
2	2	r	320	Candelaria concolor	2	0	1	0	0
2	2	s1	8	Candelaria concolor	2	4	0	0	0
2	2	s2	190	Candelaria concolor	3	2	3	10	6
2	2	a	105	Flavoparmelia caperata	1	0	0	0	0
2	2	r	320	Parmelia sulcata	0	1	2	1	1
2	2	a	105	Phaeophyscia rubripulchra	0	0	2	0	0
2	2	r	320	Phaeophyscia rubripulchra	1	1	1	0	0
2	2	s1	8	Phaeophyscia rubripulchra	5	5	1	3	4
2	2	s2	190	Phaeophyscia rubripulchra	1	0	0	0	0
2	2	a	105	Physcia millegrana	5	5	0	1	2
2	2	r	320	Physcia millegrana	10	10	1	3	7
2	2	s1	8	Physcia millegrana	8	5	12	6	7
2	2	s2	190	Physcia millegrana	5	3	0	0	0
2	2	a	105	Physciella chloantha	5	0	2	6	3
2	2	s2	190	Physciella chloantha	1	1	1	0	0
2	2	s2	190	Xanthomendoza fallax	0	0	1	0	0
2	3	a	93	Candelaria concolor	3	0	1	0	0
2	3	r	275	Candelaria concolor	5	6	4	3	4
2	3	s1	8	Candelaria concolor	0	2	2	2	2
2	3	s2	186	Candelaria concolor	6	7	5	1	0
2	3	s2	186	Flavoparmelia caperata	3	0	0	0	0
2	3	s1	8	Parmelia sulcata	1	1	0	0	0
2	3	s1	8	Phaeophyscia rubripulchra	1	2	1	0	1
2	3	a	93	Physcia millegrana	15	9	8	9	5
2	3	s1	8	Physcia millegrana	9	5	7	3	7

Site	Tree	Side	Degrees	Lichen	Q1	Q2	Q3	Q4	Q5
2	3	s2	186	Phycia millegrana	3	5	12	4	1
2	4	r	149	Candelaria concolor	1	1	0	0	1
2	4	s1	241	Hyperphycia adglutinata	1	0	0	0	0
2	4	r	149	Phaeophycia pussiloides	1	0	0	1	1
2	4	s1	241	Phaeophycia pussiloides	0	0	1	0	0
2	4	r	149	Phycia millegrana	0	0	0	0	1
2	4	a	331	Physciella chloantha	0	1	0	1	1
2	4	r	149	Physciella chloantha	1	3	7	2	3
2	4	s1	241	Physciella chloantha	1	2	2	3	8
2	4	s2	63	Physciella chloantha	2	2	0	1	0
2	5	r	151	Candelaria concolor	2	3	1	1	2
2	5	s1	242	Candelaria concolor	0	1	0	0	0
2	5	s2	70	Candelaria concolor	2	1	1	2	1
2	5	a	336	Hyperphycia adglutinata	0	0	1	0	0
2	5	r	151	Hyperphycia adglutinata	0	0	2	0	1
2	5	s2	70	Hyperphycia adglutinata	0	1	1	3	0
2	5	s2	70	Phaeophycia pussiloides	2	0	0	0	0
2	5	s1	242	Phycia millegrana	0	1	0	0	0
2	5	r	151	Physciella chloantha	1	1	0	3	1
2	5	s2	70	Physciella chloantha	1	1	3	0	5
2	5	r	151	Xanthomendoza fallax	0	0	1	0	1
3	1	a	343	Candelaria concolor	1	1	2	1	2
3	1	r	165	Candelaria concolor	1	1	0	1	3
3	1	s1	257	Candelaria concolor	3	1	6	2	5
3	1	s2	73	Candelaria concolor	2	1	3	5	12
3	1	a	343	Phaeophycia pussiloides	1	0	0	0	0
3	1	s1	257	Phycia stellaris	0	0	1	1	0
3	1	s2	73	Phycia stellaris	1	0	0	0	0
3	1	a	343	Physciella chloantha	2	1	0	3	2
3	1	r	165	Physciella chloantha	0	0	0	0	1
3	1	s1	257	Physciella chloantha	6	2	0	2	0
3	1	s2	73	Physciella chloantha	1	2	0	1	1
3	1	r	165	Xanthomendoza fallax	2	0	0	0	0
3	1	s1	257	Xanthomendoza fallax	0	1	0	0	0
3	1	s2	73	Xanthomendoza fallax	0	0	0	0	1
3	2	r	339	Candelaria concolor	0	1	1	1	0
3	2	r2	73	Candelaria concolor	3	2	2	3	1
3	2	s1	163	Candelaria concolor	0	0	1	0	0
3	2	s2	255	Candelaria concolor	0	0	1	0	0
3	2	r2	73	Hyperphycia adglutinata	0	1	0	1	1
3	2	r2	73	Physciella chloantha	5	0	3	0	0
3	2	s2	255	Physciella chloantha	1	0	0	0	0
3	2	r2	73	Xanthomendoza fallax	1	0	0	0	1
3	3	a	154	Candelaria concolor	0	1	1	0	0
3	3	s1	81	Candelaria concolor	8	1	0	0	1
3	3	s2	251	Candelaria concolor	1	2	2	3	0
3	3	a	154	Hyperphycia adglutinata	0	0	0	0	1
3	3	s1	81	Phycia adscendens	0	0	0	1	0
3	3	s1	81	Phycia aipolia	0	0	0	0	1
3	3	s2	251	Phycia aipolia	0	0	1	0	0
3	3	a	154	Phycia millegrana	0	1	0	0	0
3	3	a	154	Phycia stellaris	0	0	0	1	1
3	3	s1	81	Phycia stellaris	0	0	0	1	0
3	3	a	154	Physciella chloantha	0	1	0	0	1
3	3	r	351	Physciella chloantha	0	0	1	1	0

Site	Tree	Side	Degrees	Lichen	Q1	Q2	Q3	Q4	Q5
3	3	s2	251	Physciella chloantha	0	0	0	1	0
3	3	a	154	Xanthomendoza fallax	1	0	0	1	0
3	3	s1	81	Xanthomendoza fallax	0	1	0	0	0
3	3	s2	251	Xanthomendoza fallax	0	1	0	1	0
3	4	r1	337	Physciella chloantha	1	0	0	0	0
3	5	a	347	Candelaria concolor	0	0	1	1	0
3	5	r	169	Candelaria concolor	0	0	1	0	0
3	5	s1	254	Candelaria concolor	0	0	0	1	0
3	5	s2	84	Candelaria concolor	1	1	2	1	3
3	5	a	347	Phaeophyscia pussiloides	0	0	0	0	1
3	5	r	169	Phaeophyscia pussiloides	0	0	1	0	1
3	5	s2	84	Phaeophyscia pussiloides	1	0	0	2	0
3	5	s1	254	Physcia adscendens	0	0	0	0	1
3	5	s2	84	Physcia adscendens	0	0	0	0	1
3	5	r	169	Physcia aipolia	0	0	0	0	1
3	5	r	169	Physcia stellaris	1	0	0	1	1
3	5	s2	84	Physcia stellaris	4	3	2	0	0
3	5	a	347	Physciella chloantha	0	4	4	1	0
3	5	r	169	Physciella chloantha	2	1	0	5	0
3	5	s1	254	Physciella chloantha	0	0	0	0	1
3	5	s2	84	Physciella chloantha	0	0	2	2	0
3	5	r	169	Xanthomendoza fallax	1	0	0	0	0
3	5	s1	254	Xanthomendoza fallax	0	0	0	1	0
3	5	s2	84	Xanthomendoza fallax	1	1	2	1	2
12	1	a	78	Candelaria concolor	1	1	2	0	0
12	1	r	252	Candelaria concolor	0	3	3	0	0
12	1	s1	345	Candelaria concolor	1	1	0	2	1
12	1	s2	158	Candelaria concolor	0	1	2	1	0
12	1	s2	158	Hyperphyscia adglutinata	0	0	0	0	1
12	1	r	252	Phaeophyscia adiaetola	10	7	4	1	2
12	1	s1	345	Phaeophyscia adiaetola	6	4	4	3	4
12	1	s2	158	Phaeophyscia adiaetola	1	1	2	0	0
12	1	s2	158	Physcia adscendens	0	0	0	1	0
12	1	s2	158	Physcia aipolia	0	2	1	1	0
12	1	a	78	Physciella chloantha	2	2	6	5	3
12	1	s2	158	Physciella chloantha	4	1	3	4	1
12	1	s1	345	Xanthomendoza fallax	0	0	0	0	3
12	1	s2	158	Xanthomendoza fallax	0	0	0	0	1
12	2	a	152	Candelaria concolor	1	0	0	0	0
12	2	r	79	Candelaria concolor	2	0	0	0	1
12	2	r	79	Physcia adscendens	0	0	0	1	1
12	2	r	79	Physcia aipolia	0	0	0	0	1
12	2	r	79	Physcia stellaris	1	1	0	0	0
12	2	a	152	Physciella chloantha	0	0	1	0	0
12	2	r	79	Physciella chloantha	0	1	1	0	0
12	2	a	152	Xanthomendoza fallax	0	0	0	0	1
12	2	r	79	Xanthomendoza fallax	0	0	1	0	0
12	3	a	278	Candelaria concolor	9	12	11	11	11
12	3	r	80	Candelaria concolor	11	12	10	8	6
12	3	s1	168	Candelaria concolor	0	14	10	12	11
12	3	s2	304	Candelaria concolor	4	11	10	10	7
12	3	s2	304	Physcia adscendens	1	0	0	0	0
12	3	r	80	Physcia aipolia	1	0	0	1	1
12	3	s2	304	Physcia aipolia	1	0	0	0	1
12	3	s1	168	Physcia stellaris	0	0	0	1	0

Site	Tree	Side	Degrees	Lichen	Q1	Q2	Q3	Q4	Q5
12	3	a	278	Physciella chloantha	0	0	1	0	0
12	3	r	80	Xanthomendoza fallax	0	0	2	2	2
12	3	s1	168	Xanthomendoza fallax	13	0	0	0	0
12	3	s2	304	Xanthomendoza fallax	0	1	0	0	0
12	4	a	259	Candelaria concolor	0	1	0	0	0
12	4	r	71	Candelaria concolor	1	0	0	0	1
12	4	s1	166	Candelaria concolor	0	1	0	1	0
12	4	a	259	Hyperphyscia adglutinata	0	0	0	2	0
12	4	r	71	Hyperphyscia adglutinata	2	3	2	2	5
12	4	s1	166	Hyperphyscia adglutinata	1	1	2	0	3
12	4	r	71	Phaeophyscia adiastrata	0	0	1	0	0
12	4	a	259	Physcia aipolia	0	0	1	0	1
12	4	r	71	Physcia aipolia	0	1	1	0	0
12	4	r	71	Physciella chloantha	0	0	0	1	1
12	4	s1	166	Physciella chloantha	0	0	0	2	1
12	4	s2	341	Physciella chloantha	0	0	0	1	0
12	4	s2	341	Xanthomendoza fallax	1	1	0	0	0
12	5	a	76	Candelaria concolor	0	0	0	1	1
12	5	r	258	Candelaria concolor	2	4	1	2	0
12	5	s1	343	Candelaria concolor	0	1	1	0	1
12	5	s2	164	Candelaria concolor	3	1	0	1	0
12	5	r	258	Phaeophyscia adiastrata	2	1	2	2	0
12	5	s1	343	Phaeophyscia adiastrata	0	0	1	1	0
12	5	r	258	Physcia aipolia	0	0	1	0	0
12	5	s1	343	Physcia aipolia	0	1	0	0	0
12	5	r	258	Physcia stellaris	0	0	2	0	0
12	5	a	76	Physciella chloantha	1	1	1	1	3
12	5	r	258	Physciella chloantha	0	0	0	0	3
12	5	s1	343	Physciella chloantha	0	1	0	2	1
12	5	s2	164	Physciella chloantha	1	0	1	0	1
12	5	r	258	Xanthomendoza fallax	2	1	1	2	2
12	5	s1	343	Xanthomendoza fallax	1	0	1	1	0
12	5	s2	164	Xanthomendoza fallax	1	1	2	2	4
20	1	a	336	Candelaria concolor	2	4	3	11	5
20	1	s1	242	Candelaria concolor	0	2	1	3	2
20	1	s2	69	Candelaria concolor	2	1	2	0	0
20	1	a	336	Physcia adscendens	0	0	1	0	0
20	1	s1	242	Physcia adscendens	1	0	0	0	0
20	1	s2	69	Physcia adscendens	7	3	7	5	6
20	1	r	161 [148]	Physcia aipolia	0	2	5	5	5
20	1	s1	242	Physcia millegrana	0	0	0	1	0
20	1	a	336	Physcia stellaris	0	0	1	0	0
20	1	s1	242	Physcia stellaris	0	0	1	1	1
20	1	a	336	Physciella chloantha	0	0	1	0	1
20	1	a	336	Xanthomendoza fallax	6	4	6	2	4
20	1	s1	242	Xanthomendoza fallax	1	0	5	1	1
20	1	s2	69	Xanthomendoza fallax	4	1	1	0	1
20	2	a	321	Candelaria concolor	0	1	0	0	0
20	2	r	151	Candelaria concolor	2	1	0	1	4
20	2	s2	57	Candelaria concolor	4	4	9	6	6
20	2	a	321	Physcia adscendens	5	7	5	7	4
20	2	r	151	Physcia adscendens	1	2	0	1	0
20	2	s1	235	Physcia adscendens	4	0	0	0	0
20	2	s2	57	Physcia adscendens	3	6	4	4	3
20	2	s1	235	Physcia aipolia	0	0	1	0	0

Site	Tree	Side	Degrees	Lichen	Q1	Q2	Q3	Q4	Q5
20	2	a	321	Physcia millegrana	1	0	1	1	1
20	2	r	151	Physcia millegrana	0	0	1	0	0
20	2	a	321	Physcia stellaris	0	0	0	1	1
20	2	a	321	Physciella chloantha	2	4	3	3	2
20	2	r	151	Physciella chloantha	0	1	2	2	2
20	2	s1	235	Physciella chloantha	2	2	5	6	4
20	2	s2	57	Physciella chloantha	1	1	2	1	0
20	2	a	321	Xanthomendoza fallax	1	0	0	0	0
20	2	r	151	Xanthomendoza fallax	1	1	0	1	0
20	2	s2	57	Xanthomendoza fallax	2	2	0	1	3
20	3	a	318	Candelaria concolor	0	1	2	5	3
20	3	r	152	Candelaria concolor	6	4	3	1	1
20	3	s1	228	Candelaria concolor	3	0	0	0	0
20	3	s2	51	Candelaria concolor	16	8	11	9	6
20	3	a	318	Hyperphyscia adglutinata	1	0	0	0	0
20	3	r	152	Hyperphyscia adglutinata	0	0	0	1	0
20	3	s1	228	Hyperphyscia adglutinata	1	1	0	0	0
20	3	r	152	Phacophyscia adiastrata	5	5	5	2	5
20	3	s1	228	Phacophyscia adiastrata	1	0	0	0	0
20	3	s1	228	Phacophyscia ciliata	0	0	1	0	0
20	3	s2	51	Phacophyscia ciliata	0	1	0	0	0
20	3	r	152	Physcia aipolia	2	1	0	0	1
20	3	s1	228	Physcia aipolia	1	2	0	1	0
20	3	s2	51	Physcia aipolia	0	0	0	0	1
20	3	s1	228	Physcia stellaris	0	1	0	0	0
20	3	a	318	Physciella chloantha	6	9	5	6	7
20	3	s2	51	Physciella chloantha	3	3	0	2	2
20	3	a	318	Xanthomendoza fallax	5	3	4	3	3
20	3	r	152	Xanthomendoza fallax	3	2	2	4	3
20	3	s1	228	Xanthomendoza fallax	3	5	4	5	9
20	3	s2	51	Xanthomendoza fallax	1	1	4	5	9
20	4	a	143	Candelaria concolor	0	1	1	0	0
20	4	r	319	Candelaria concolor	2	0	3	5	2
20	4	s1	55	Candelaria concolor	4	2	2	6	6
20	4	r	319	Phacophyscia pussiloides	1	0	0	0	0
20	4	a	143	Physcia aipolia	0	1	0	0	1
20	4	r	319	Physcia aipolia	0	0	2	2	1
20	4	s2	222	Physcia stellaris	0	0	0	0	2
20	4	a	143	Physciella chloantha	0	0	1	0	0
20	4	r	319	Physciella chloantha	2	4	2	2	4
20	4	s1	55	Physciella chloantha	0	0	0	0	1
20	4	a	143	Xanthomendoza fallax	12	8	9	10	8
20	4	r	319	Xanthomendoza fallax	7	9	9	5	4
20	4	s1	55	Xanthomendoza fallax	8	11	9	7	3
20	4	s2	222	Xanthomendoza fallax	0	0	0	2	0
20	5	a	137	Candelaria concolor	0	0	0	4	0
20	5	s1	49	Candelaria concolor	0	0	0	0	1
20	5	s2	227	Candelaria concolor	1	0	0	1	0
20	5	a	137	Hyperphyscia adglutinata	0	0	0	1	1
20	5	r	316	Hyperphyscia adglutinata	0	0	0	1	0
20	5	r	316	Physcia adscendens	0	1	0	0	0
20	5	r	316	Physcia stellaris	0	0	0	1	0
20	5	a	137	Physciella chloantha	0	1	1	1	0
20	5	r	316	Physciella chloantha	0	2	0	1	1
20	5	s1	49	Physciella chloantha	1	0	1	1	1

Site	Tree	Side	Degrees	Lichen	Q1	Q2	Q3	Q4	Q5
23	2	a	22	Candelaria concolor	2	5	1	1	2
23	2	r	208	Candelaria concolor	7	1	2	1	1
23	2	s1	293	Candelaria concolor	1	5	2	9	5
23	2	s2	111	Candelaria concolor	1	2	2	1	5
23	2	a	22	Physciella chloantha	7	6	9	8	3
23	2	r	208	Physciella chloantha	5	6	8	9	13
23	2	s1	293	Physciella chloantha	6	3	7	2	7
23	2	s2	111	Physciella chloantha	9	11	12	15	8
23	2	a	22	Xanthomendoza fallax	1	0	0	0	1
23	2	r	208	Xanthomendoza fallax	1	2	2	3	0
23	2	s1	293	Xanthomendoza fallax	1	1	1	0	0
23	2	s2	111	Xanthomendoza fallax	3	1	1	3	2
23	3	a	21	Candelaria concolor	0	0	0	0	1
23	3	a	21	Physcia adscendens	0	3	1	1	1
23	3	a	21	Physcia millegrana	1	1	1	1	1
23	3	s2	120	Physcia millegrana	0	0	0	2	0
23	3	a	21	Physciella chloantha	0	0	0	2	0
23	3	s1	302	Physciella chloantha	0	1	0	2	1
23	3	s2	120	Physciella chloantha	2	3	2	1	2
23	3	a	21	Xanthomendoza fallax	1	1	0	1	0
23	3	s2	120	Xanthomendoza fallax	2	2	2	1	1
23	4	s2	116	Physcia adscendens	1	0	0	0	0
23	4	a	21	Physcia millegrana	7	3	10	5	4
23	4	s1	297	Physcia millegrana	14	15	11	12	11
23	4	s2	116	Physcia millegrana	3	5	7	3	1
23	4	s2	116	Xanthomendoza fallax	0	0	0	0	1
23	5	a	29	Physcia millegrana	2	1	1	3	5
23	5	r	203	Physcia millegrana	10	4	4	6	7
23	5	s2	126	Physcia millegrana	15	11	12	7	9
23	5	r	203	Xanthomendoza fallax	0	0	0	1	0
24	1	r	342	Candelaria concolor	1	0	0	0	0
24	1	r	342	Physciella chloantha	0	1	0	0	1
24	1	s2	251	Physciella chloantha	0	2	2	1	1
24	5	r	341	Physciella chloantha	0	0	0	0	1
24	7	r	343	Candelaria concolor	2	0	3	3	1
24	7	s1	79	Candelaria concolor	0	0	0	1	2
24	7	s2	249	Candelaria concolor	0	0	0	0	1
24	7	r	343	Hyperphyscia adglutinata	0	0	0	1	0
24	7	s1	79	Hyperphyscia adglutinata	0	1	0	0	0
24	7	a	162	Physciella chloantha	0	0	0	1	1
24	7	r	343	Physciella chloantha	4	7	5	10	11
24	7	s1	79	Physciella chloantha	1	2	5	3	3
24	7	s2	249	Physciella chloantha	0	0	0	0	1
30	1	s1	315	Physcia stellaris	1	0	0	1	0
30	1	s2	120	Physcia stellaris	0	0	1	0	0
30	1	a	43	Xanthomendoza fallax	2	0	0	0	0
30	2	a	35	Physciella chloantha	1	0	0	0	0
30	3	r	132	Candelaria concolor	1	0	0	0	0
30	3	s2	45	Candelaria concolor	1	0	1	1	1
30	3	a	313	Hyperphyscia adglutinata	2	0	0	0	0
30	3	r	132	Hyperphyscia adglutinata	0	0	1	0	0
30	3	s2	45	Hyperphyscia adglutinata	0	0	0	0	2
30	3	s2	45	Phaeophyscia adiastrata	1	0	0	0	0
30	3	s2	45	Phaeophyscia pusilloides	0	0	0	1	0
30	3	r	132	Physcia stellaris	0	0	0	0	1

Site	Tree	Side	Degrees	Lichen	Q1	Q2	Q3	Q4	Q5
30	3	s2	45	Phycia stellaris	1	1	2	1	4
30	3	a	313	Physciella chloantha	0	0	0	1	0
30	3	a	313	Xanthomendoza fallax	0	0	1	0	0
30	3	s1	229	Xanthomendoza fallax	0	0	0	0	1
30	3	s2	45	Xanthomendoza fallax	0	0	0	0	1
30	5	s1	230	Phycia stellaris	0	0	0	0	1
30	5	s1	230	Physciella chloantha	0	1	0	0	0
33	2	r	168	Candelaria concolor	1	0	0	0	0
33	2	s1	256	Candelaria concolor	1	0	0	0	0
33	2	s1	256	Hyperphyscia adglutinata	0	0	1	0	0
33	2	s2	78	Hyperphyscia adglutinata	0	0	2	0	0
33	2	a	339	Phaeophyscia pussiloides	0	0	1	1	0
33	2	s1	256	Phaeophyscia pussiloides	1	0	1	0	0
33	2	a	339	Phycia aipolia	0	0	1	1	1
33	2	s1	256	Phycia aipolia	2	4	3	2	5
33	2	a	339	Phycia millegrana	0	0	1	0	0
33	2	s1	256	Phycia millegrana	2	1	1	0	0
33	2	s2	78	Phycia millegrana	0	0	0	1	0
33	2	s1	256	Physciella chloantha	0	1	1	1	0
33	2	s2	78	Physciella chloantha	0	0	1	0	0
33	2	r	168	Xanthomendoza fallax	0	2	1	1	1
33	2	s1	256	Xanthomendoza fallax	0	0	1	0	1
33	4	r	345	Phaeophyscia pussiloides	0	1	0	0	0
33	5	r	346	Phaeophyscia adiaetola	0	0	0	0	1
33	5	r	346	Phaeophyscia pussiloides	0	1	0	2	0
33	6	a	165	Candelaria concolor	2	2	3	3	0
33	6	s1	79	Candelaria concolor	0	0	1	0	0
33	6	s2	259	Candelaria concolor	3	4	4	1	0
33	6	s2	259	Hyperphyscia adglutinata	1	0	0	0	0
33	6	s1	79	Phycia aipolia	0	0	0	0	1
33	6	a	165	Phycia millegrana	0	1	1	0	0
33	6	r	349	Phycia millegrana	1	0	0	0	0
33	6	s1	79	Phycia millegrana	2	0	0	0	0
33	6	s2	259	Phycia millegrana	0	1	0	0	0
33	6	r	349	Physciella chloantha	0	1	1	0	0
33	6	r	349	Physconia detersa	2	2	0	0	1
33	6	a	165	Xanthomendoza fallax	1	0	0	0	0
33	6	r	349	Xanthomendoza fallax	1	0	0	0	1
33	6	s1	79	Xanthomendoza fallax	2	1	0	0	0
33	6	s2	259	Xanthomendoza fallax	1	0	0	1	0
33	7	a	171	Candelaria concolor	0	1	0	1	1
33	7	r	355	Candelaria concolor	2	2	2	0	2
33	7	s1	84	Candelaria concolor	1	2	1	2	0
33	7	s2	263	Candelaria concolor	0	0	2	3	1
33	7	r	355	Phaeophyscia adiaetola	0	0	0	3	1
33	7	r	355	Phaeophyscia rubripulchra	1	5	1	0	3
33	7	r	355	Phycia adscendens	1	0	0	1	2
33	7	s1	84	Phycia adscendens	0	0	0	0	1
33	7	a	171	Phycia millegrana	1	1	0	2	1
33	7	r	355	Phycia millegrana	1	0	0	0	0
33	7	s1	84	Phycia millegrana	1	1	3	1	0
33	7	r	355	Physciella chloantha	2	0	0	0	0
33	7	s2	263	Physciella chloantha	1	1	0	0	0
33	7	s1	84	Physconia detersa	0	0	0	0	2
33	7	a	171	Xanthomendoza fallax	0	1	0	0	1

Site	Tree	Side	Degrees	Lichen	Q1	Q2	Q3	Q4	Q5
33	7	r	355	Xanthomendoza fallax	6	4	4	5	6
33	7	s1	84	Xanthomendoza fallax	0	1	0	1	3
33	7	s2	263	Xanthomendoza fallax	1	1	5	3	1
34	1	a	163	Candelaria concolor	0	5	2	1	2
34	1	r	347	Candelaria concolor	0	2	0	0	3
34	1	s1	83	Candelaria concolor	4	3	0	0	1
34	1	s2	245	Candelaria concolor	12	6	10	0	4
34	1	a	163	Phaeophyscia adiastrata	1	0	0	0	0
34	1	r	347	Phaeophyscia adiastrata	2	0	0	0	0
34	1	s1	83	Phaeophyscia adiastrata	0	1	3	3	1
34	1	s2	245	Phaeophyscia adiastrata	0	0	0	3	0
34	1	r	347	Physcia adscendens	9	8	8	12	6
34	1	s1	83	Physcia adscendens	5	3	3	4	3
34	1	s2	245	Physcia adscendens	1	0	1	1	0
34	1	a	163	Physciella chloantha	0	0	0	0	1
34	1	a	163	Physconia detorsa	0	0	0	0	1
34	1	a	163	Xanthomendoza fallax	2	2	0	2	2
34	1	s1	83	Xanthomendoza fallax	8	1	6	4	5
34	1	s2	245	Xanthomendoza fallax	0	2	4	7	4
34	2	a	165	Candelaria concolor	1	3	4	3	4
34	2	r	343	Candelaria concolor	0	2	0	3	1
34	2	s1	78	Candelaria concolor	4	2	1	3	2
34	2	s2	247	Candelaria concolor	6	7	5	6	4
34	2	r	343	Phaeophyscia adiastrata	4	8	13	11	2
34	2	s1	78	Phaeophyscia adiastrata	1	1	0	0	0
34	2	s2	247	Phaeophyscia adiastrata	4	3	2	6	5
34	2	r	343	Physcia adscendens	3	4	4	2	4
34	2	s1	78	Physcia adscendens	7	5	5	2	1
34	2	a	165	Physcia aipolia	1	0	0	0	0
34	2	r	343	Physcia aipolia	0	0	0	0	1
34	2	s1	78	Physcia aipolia	0	1	0	1	0
34	2	a	165	Physciella chloantha	0	1	0	0	0
34	2	r	343	Physconia detorsa	0	2	0	2	0
34	2	s1	78	Physconia detorsa	0	0	1	0	0
34	2	s2	247	Physconia detorsa	2	0	0	0	0
34	2	a	165	Xanthomendoza fallax	10	9	6	6	1
34	2	r	343	Xanthomendoza fallax	11	3	3	1	4
34	2	s1	78	Xanthomendoza fallax	4	9	10	12	13
34	2	s2	247	Xanthomendoza fallax	1	3	5	5	3
34	3	a	165	Candelaria concolor	0	3	5	8	6
34	3	s1	80	Candelaria concolor	10	6	5	3	5
34	3	s2	254	Candelaria concolor	2	2	0	0	0
34	3	a	165	Phaeophyscia adiastrata	5	0	2	0	4
34	3	r	341	Phaeophyscia adiastrata	0	0	0	1	2
34	3	s1	80	Phaeophyscia adiastrata	4	7	4	6	5
34	3	s2	254	Phaeophyscia adiastrata	1	0	0	3	3
34	3	r	341	Physcia adscendens	0	3	4	0	2
34	3	a	165	Physciella chloantha	0	0	1	0	0
34	3	s1	80	Physciella chloantha	0	0	0	1	0
34	3	r	341	Physconia detorsa	0	0	1	0	1
34	3	a	165	Xanthomendoza fallax	2	3	2	2	2
34	3	r	341	Xanthomendoza fallax	7	4	6	13	8
34	3	s1	80	Xanthomendoza fallax	4	1	3	3	1
34	3	s2	254	Xanthomendoza fallax	4	6	7	5	9
34	4	a	162	Candelaria concolor	0	1	2	1	2

Site	Tree	Side	Degrees	Lichen	Q1	Q2	Q3	Q4	Q5
34	4	r	345	Candelaria concolor	4	6	4	5	5
34	4	s1	75	Candelaria concolor	1	1	1	0	0
34	4	s2	248	Candelaria concolor	2	1	2	3	1
34	4	s2	248	Hyperphyscia adglutinata	0	0	0	1	0
34	4	a	162	Phaeophyscia adiaetola	0	0	0	1	0
34	4	r	345	Phaeophyscia adiaetola	1	0	0	1	1
34	4	s1	75	Phaeophyscia adiaetola	1	0	0	0	4
34	4	s2	248	Phaeophyscia adiaetola	2	0	0	0	3
34	4	r	345	Physcia adscendens	10	8	10	9	9
34	4	s1	75	Physcia adscendens	7	5	2	4	7
34	4	s2	248	Physcia adscendens	0	0	0	0	1
34	4	s2	248	Physcia aipolia	1	0	0	0	0
34	4	s2	248	Physcia stellaris	0	1	0	0	0
34	4	r	345	Physconia detera	1	0	0	0	0
34	4	s1	75	Physconia detera	0	0	0	1	0
34	4	a	162	Xanthomendoza fallax	14	10	3	12	8
34	4	r	345	Xanthomendoza fallax	3	1	0	2	0
34	4	s1	75	Xanthomendoza fallax	0	0	1	0	0
34	4	s2	248	Xanthomendoza fallax	2	4	1	2	4
34	5	r	343	Candelaria concolor	0	0	0	4	3
34	5	s1	82	Candelaria concolor	0	0	0	0	1
34	5	s2	257	Candelaria concolor	1	0	2	2	1
34	5	a	166	Phaeophyscia adiaetola	3	3	2	4	1
34	5	r	343	Phaeophyscia adiaetola	0	3	8	5	0
34	5	s1	82	Phaeophyscia adiaetola	5	5	6	6	9
34	5	s2	257	Phaeophyscia adiaetola	2	6	7	5	7
34	5	r	343	Physcia adscendens	2	14	8	6	2
34	5	s1	82	Physcia adscendens	5	9	9	5	3
34	5	r	343	Physcia aipolia	0	0	0	0	1
34	5	s1	82	Physcia aipolia	0	0	1	0	0
34	5	s1	82	Physcia stellaris	1	0	0	0	0
34	5	s1	82	Physciella chloantha	0	0	0	0	1
34	5	a	166	Xanthomendoza fallax	15	15	17	10	16
34	5	r	343	Xanthomendoza fallax	1	0	2	0	3
34	5	s1	82	Xanthomendoza fallax	2	4	1	1	3
34	5	s2	257	Xanthomendoza fallax	2	5	6	3	8
41	1	a	227	Candelaria concolor	0	1	0	1	4
41	1	r	59	Candelaria concolor	4	7	10	8	6
41	1	s1	135	Candelaria concolor	2	0	1	3	2
41	1	s2	331	Candelaria concolor	7	5	6	6	5
41	1	s2	331	Hyperphyscia adglutinata	0	0	0	0	3
41	1	r	59	Phaeophyscia adiaetola	0	0	1	0	3
41	1	s1	135	Phaeophyscia adiaetola	0	1	1	1	2
41	1	r	59	Phaeophyscia pussiloides	1	0	0	1	0
41	1	a	227	Physcia adscendens	0	0	0	0	1
41	1	a	227	Physcia aipolia	0	1	1	3	5
41	1	r	59	Physcia aipolia	2	1	0	2	3
41	1	s1	135	Physcia aipolia	5	3	4	2	3
41	1	s2	331	Physcia aipolia	2	0	2	0	0
41	1	s1	135	Physcia millegrana	0	1	0	0	0
41	1	a	227	Physciella chloantha	0	0	0	1	0
41	1	s1	135	Physciella chloantha	0	0	0	0	2
41	1	a	227	Xanthomendoza fallax	2	1	0	2	3
41	1	r	59	Xanthomendoza fallax	1	1	4	0	2
41	1	s1	135	Xanthomendoza fallax	8	9	5	3	6

Site	Tree	Side	Degrees	Lichen	Q1	Q2	Q3	Q4	Q5
41	1	s2	331	Xanthomendoza fallax	2	2	1	2	1
41	2	a	224	Candelaria concolor	3	0	0	0	0
41	2	r	51	Candelaria concolor	0	2	1	0	4
41	2	s2	317	Candelaria concolor	1	0	1	2	3
41	2	r	51	Hyperphyscia adglutinata	0	2	1	4	0
41	2	s2	317	Hyperphyscia adglutinata	2	2	4	2	0
41	2	a	224	Phaeophyscia adiaetola	2	0	2	0	1
41	2	s2	317	Phaeophyscia adiaetola	1	0	0	1	1
41	2	r	51	Phaeophyscia pussiloides	0	0	0	1	0
41	2	s1	142	Physcia adscendens	1	0	0	0	0
41	2	a	224	Physcia aipolia	0	2	1	2	0
41	2	r	51	Physcia aipolia	3	6	1	1	0
41	2	s1	142	Physcia aipolia	1	0	1	0	1
41	2	s2	317	Physcia aipolia	1	1	2	0	1
41	2	a	224	Physcia millegrana	0	1	0	0	0
41	2	r	51	Physciella chloantha	0	0	0	0	1
41	2	a	224	Xanthomendoza fallax	12	14	17	15	17
41	2	s1	142	Xanthomendoza fallax	13	18	19	20	19
41	2	s2	317	Xanthomendoza fallax	0	2	1	3	0
41	3	a	224	Candelaria concolor	0	1	0	0	1
41	3	r	55	Candelaria concolor	0	0	0	1	0
41	3	s2	325	Candelaria concolor	1	7	8	6	4
41	3	a	224	Phaeophyscia pussiloides	2	0	0	0	0
41	3	r	55	Phaeophyscia pussiloides	0	10	13	11	12
41	3	s2	325	Phaeophyscia pussiloides	0	0	0	1	1
41	3	a	224	Physcia aipolia	0	1	0	0	1
41	3	r	55	Physcia aipolia	0	0	0	1	0
41	3	s2	325	Physcia aipolia	1	0	0	0	0
41	3	r	55	Physciella chloantha	2	0	0	0	0
41	3	a	224	Xanthomendoza fallax	1	0	1	2	5
41	3	r	55	Xanthomendoza fallax	2	0	1	0	0
41	3	s2	325	Xanthomendoza fallax	6	2	4	5	4
41	4	r	47	Candelaria concolor	2	2	1	0	0
41	4	s1	136	Candelaria concolor	1	1	1	1	2
41	4	s2	316	Candelaria concolor	0	0	0	2	4
41	4	s2	316	Hyperphyscia adglutinata	0	0	0	2	0
41	4	r	47	Phaeophyscia adiaetola	0	1	0	0	0
41	4	s1	136	Phaeophyscia adiaetola	0	3	2	3	0
41	4	a	221	Phaeophyscia pussiloides	0	0	1	0	0
41	4	r	47	Phaeophyscia pussiloides	0	0	0	0	2
41	4	s1	136	Phaeophyscia pussiloides	0	1	1	0	1
41	4	s2	316	Phaeophyscia pussiloides	1	0	1	0	0
41	4	s2	316	Physcia adscendens	4	6	4	0	1
41	4	a	221	Physcia aipolia	0	1	0	1	0
41	4	r	47	Physcia aipolia	1	2	0	0	0
41	4	s1	136	Physcia aipolia	2	2	0	0	0
41	4	s2	316	Physcia aipolia	2	0	2	1	0
41	4	s2	316	Physcia millegrana	0	0	0	1	0
41	4	a	221	Xanthomendoza fallax	3	1	2	4	4
41	4	r	47	Xanthomendoza fallax	1	0	0	0	0
41	4	s1	136	Xanthomendoza fallax	1	1	1	2	2
41	4	s2	316	Xanthomendoza fallax	4	4	0	1	2
41	5	a	222	Candelaria concolor	3	2	4	3	4
41	5	s1	139	Candelaria concolor	3	0	3	1	1
41	5	s2	317	Candelaria concolor	8	2	2	2	1

Site	Tree	Side	Degrees	Lichen	Q1	Q2	Q3	Q4	Q5
41	5	s1	139	Hyperphyscia adglutinata	0	0	1	0	0
41	5	a	222	Phaeophyscia adiaetola	0	0	1	0	2
41	5	s1	139	Phaeophyscia adiaetola	0	1	0	0	0
41	5	s1	139	Physcia adscendens	0	0	1	0	0
41	5	s2	317	Physcia adscendens	0	0	0	2	1
41	5	a	222	Physcia aipolia	3	2	4	2	2
41	5	r	51	Physcia aipolia	0	1	1	1	4
41	5	s1	139	Physcia aipolia	2	0	2	2	2
41	5	s2	317	Physcia aipolia	2	0	1	1	0
41	5	a	222	Xanthomendoza fallax	5	1	0	3	1
41	5	r	51	Xanthomendoza fallax	0	0	0	1	0
41	5	s1	139	Xanthomendoza fallax	1	1	0	0	1
41	5	s2	317	Xanthomendoza fallax	2	3	2	0	1
44	1	a	203	Candelaria concolor	0	0	0	0	3
44	1	r	15	Candelaria concolor	0	0	0	0	1
44	1	s2	283	Candelaria concolor	0	0	0	1	0
44	1	s1	122	Hyperphyscia adglutinata	0	0	1	0	0
44	1	r	15	Phaeophyscia rubripulchra	0	7	5	11	7
44	1	s1	122	Phaeophyscia rubripulchra	0	0	0	4	2
44	1	s2	283	Phaeophyscia rubripulchra	4	2	3	6	7
44	1	r	15	Physcia aipolia	0	1	0	0	0
44	1	r	15	Physcia millegrana	13	1	6	3	1
44	1	s1	122	Physcia millegrana	0	0	0	1	1
44	1	a	203	Physciella chloantha	7	8	3	3	2
44	1	s1	122	Physciella chloantha	1	4	3	1	0
44	1	r	15	Physconia detersa	0	1	0	0	1
44	1	a	203	Xanthomendoza fallax	0	1	0	0	0
44	1	s1	122	Xanthomendoza fallax	0	1	0	0	1
44	2	a	210	Candelaria concolor	3	1	1	2	1
44	2	r	25	Candelaria concolor	0	2	0	0	5
44	2	s1	120	Candelaria concolor	1	0	0	0	0
44	2	s2	291	Candelaria concolor	0	0	1	0	1
44	2	a	210	Phaeophyscia rubripulchra	9	9	10	9	12
44	2	r	25	Phaeophyscia rubripulchra	10	11	7	11	8
44	2	s1	120	Phaeophyscia rubripulchra	8	11	8	5	10
44	2	s2	291	Phaeophyscia rubripulchra	1	1	1	2	6
44	2	s1	120	Physcia aipolia	0	1	0	0	0
44	2	a	210	Physcia millegrana	1	2	1	0	0
44	2	r	25	Physcia millegrana	4	1	4	4	3
44	2	s1	120	Physcia millegrana	4	5	6	5	2
44	2	a	210	Physconia detersa	0	1	0	0	0
44	2	r	25	Physconia detersa	0	0	0	0	3
44	2	s1	120	Physconia detersa	1	0	0	0	0
44	2	a	210	Xanthomendoza fallax	1	0	0	0	0
44	2	r	25	Xanthomendoza fallax	0	0	1	0	1
44	2	s1	120	Xanthomendoza fallax	0	1	0	6	1
44	2	s2	291	Xanthomendoza fallax	1	0	0	0	0
44	3	r	207[199]	Candelaria concolor	1	2	0	0	1
44	3	a	21	Phaeophyscia rubripulchra	4	8	7	3	5
44	3	r	207[199]	Phaeophyscia rubripulchra	2	3	5	5	3
44	3	s1	297	Phaeophyscia rubripulchra	9	8	9	2	8
44	3	s2	118	Phaeophyscia rubripulchra	12	14	5	4	4
44	3	s2	118	Physcia aipolia	1	0	0	2	0
44	3	r	207[199]	Physcia millegrana	3	1	1	1	0
44	3	s2	118	Physcia millegrana	3	1	0	0	2

Site	Tree	Side	Degrees	Lichen	Q1	Q2	Q3	Q4	Q5
44	3	sl	297	Physciella chloantha	0	1	0	0	0
44	3	r	207[199]	Xanthomendoza fallax	0	1	1	1	0
44	3	sl	297	Xanthomendoza fallax	0	1	0	0	1
44	4	r	185	Candelaria concolor	1	0	2	2	0
44	4	sl	272	Candelaria concolor	0	1	0	1	0
44	4	a	3	Phaeophyscia rubripulchra	1	0	0	0	0
44	4	s2	195	Physcia adscendens	1	0	0	0	0
44	4	a	3	Physcia millegrana	1	0	0	0	0
44	4	r	185	Physcia millegrana	5	6	1	3	3
44	4	sl	272	Physcia millegrana	3	1	1	2	1
44	4	s2	195	Physcia millegrana	1	0	0	4	0
44	4	sl	272	Physconia detera	0	2	1	1	0
44	4	s2	195	Physconia detera	6	9	2	5	2
44	4	r	185	Xanthomendoza fallax	0	0	0	1	2
44	4	sl	272	Xanthomendoza fallax	1	0	2	4	3
44	4	s2	195	Xanthomendoza fallax	0	0	0	0	2
44	5	r	197	Candelaria concolor	11	8	5	6	7
44	5	sl	282	Candelaria concolor	0	2	0	1	1
44	5	s2	104	Candelaria concolor	1	3	2	1	1
44	5	s2	104	Parmelia sulcata	2	1	2	0	0
44	5	a	14	Phaeophyscia rubripulchra	0	2	2	3	1
44	5	sl	282	Phaeophyscia rubripulchra	0	1	2	0	0
44	5	s2	104	Phaeophyscia rubripulchra	0	0	2	0	0
44	5	a	14	Physcia adscendens	3	0	2	0	1
44	5	sl	282	Physcia adscendens	9	7	10	8	4
44	5	s2	104	Physcia adscendens	1	0	3	1	3
44	5	a	14	Physcia aipolia	1	1	1	1	0
44	5	sl	282	Physcia aipolia	1	1	0	1	1
44	5	s2	104	Physcia aipolia	1	1	0	1	2
44	5	a	14	Physcia millegrana	0	0	0	1	0
44	5	s2	104	Physcia millegrana	0	0	2	0	1
44	5	r	197	Physcia stellaris	1	6	0	1	0
44	5	sl	282	Physcia stellaris	1	0	0	0	0
44	5	a	14	Physconia detera	0	1	3	1	4
44	5	sl	282	Physconia detera	0	0	0	1	0
44	5	s2	104	Physconia detera	6	2	2	1	1
44	5	sl	282	Xanthomendoza fallax	1	2	1	0	0
44	5	s2	104	Xanthomendoza fallax	1	0	0	0	0
49	1	a	10	Candelaria concolor	1	1	0	1	0
49	1	r	197	Candelaria concolor	2	3	2	0	0
49	1	sl	282	Candelaria concolor	1	0	1	1	1
49	1	s2	103	Candelaria concolor	1	0	2	1	1
49	1	a	10	Phaeophyscia adiaetola	0	0	1	4	2
49	1	r	197	Phaeophyscia adiaetola	6	5	7	2	4
49	1	sl	282	Phaeophyscia adiaetola	3	2	1	0	2
49	1	s2	103	Phaeophyscia adiaetola	4	4	3	4	5
49	1	s2	103	Physcia adscendens	0	2	0	0	0
49	1	a	10	Physcia aipolia	0	0	1	0	0
49	1	sl	282	Physcia aipolia	2	2	0	1	1
49	1	s2	103	Physcia aipolia	1	0	0	1	1
49	1	a	10	Physciella chloantha	0	0	1	0	1
49	1	r	197	Physciella chloantha	0	1	0	0	0
49	1	sl	282	Physciella chloantha	5	5	5	6	0
49	1	s2	103	Physciella chloantha	0	1	0	0	0
49	1	r	197	Physconia detera	1	0	0	0	0

Site	Tree	Side	Degrees	Lichen	Q1	Q2	Q3	Q4	Q5
49	1	r	197	Xanthomendoza fallax	3	1	2	2	2
49	1	s1	282	Xanthomendoza fallax	0	1	1	0	2
49	1	s2	103	Xanthomendoza fallax	6	3	6	5	2
49	2	a	9	Candelaria concolor	3	0	4	2	2
49	2	s1	279	Candelaria concolor	6	10	6	5	6
49	2	s2	99	Candelaria concolor	3	1	1	4	8
49	2	a	9	Phaeophyscia adiastrata	0	1	1	0	0
49	2	r	189	Phaeophyscia adiastrata	1	0	6	9	5
49	2	s1	279	Phaeophyscia adiastrata	2	1	2	0	9
49	2	s2	99	Phaeophyscia adiastrata	1	2	1	3	1
49	2	a	9	Phaeophyscia ciliata	1	0	0	0	0
49	2	s2	99	Phaeophyscia orbicularis	1	0	0	0	0
49	2	a	9	Physcia adscendens	1	6	2	6	9
49	2	s1	279	Physcia adscendens	0	1	0	0	0
49	2	s2	99	Physcia adscendens	1	1	5	0	2
49	2	a	9	Physcia aipolia	1	1	1	1	0
49	2	s2	99	Physcia aipolia	0	0	2	0	0
49	2	a	9	Physciella chloantha	2	0	0	0	0
49	2	r	189	Physciella chloantha	1	1	0	0	0
49	2	s1	279	Physciella chloantha	0	0	1	2	0
49	2	r	189	Xanthomendoza fallax	4	4	2	2	2
49	2	s1	279	Xanthomendoza fallax	3	6	3	7	0
49	2	s2	99	Xanthomendoza fallax	4	4	7	3	2
49	3	a	9	Candelaria concolor	1	3	3	3	5
49	3	r	191	Candelaria concolor	0	0	0	4	3
49	3	s1	288	Candelaria concolor	12	7	10	6	7
49	3	s2	107	Candelaria concolor	2	5	3	2	2
49	3	s2	107	Phaeophyscia adiastrata	0	0	1	2	0
49	3	s1	288	Physcia adscendens	1	0	0	0	2
49	3	a	9	Physcia aipolia	0	1	0	0	1
49	3	s1	288	Physcia aipolia	0	1	0	0	1
49	3	a	9	Physciella chloantha	3	0	0	1	2
49	3	s1	288	Physciella chloantha	0	1	0	0	0
49	3	s1	288	Xanthomendoza fallax	1	0	1	1	1
49	3	s2	107	Xanthomendoza fallax	0	0	0	1	0
49	4	a	209	Candelaria concolor	4	6	6	6	7
49	4	r	21	Candelaria concolor	7	6	5	0	1
49	4	s1	112	Candelaria concolor	4	4	10	9	0
49	4	s2	291	Candelaria concolor	5	4	8	5	9
49	4	a	209	Phaeophyscia adiastrata	0	3	2	4	3
49	4	r	21	Phaeophyscia adiastrata	0	2	0	0	2
49	4	s1	112	Phaeophyscia adiastrata	2	1	1	1	1
49	4	s2	291	Phaeophyscia adiastrata	9	6	7	2	7
49	4	r	21	Phaeophyscia orbicularis	0	1	0	0	0
49	4	s2	291	Phaeophyscia orbicularis	0	0	0	1	0
49	4	r	21	Physcia adscendens	0	0	0	1	0
49	4	s2	291	Physcia adscendens	0	0	0	3	0
49	4	a	209	Physcia aipolia	4	0	0	0	0
49	4	r	21	Physcia aipolia	2	1	2	0	5
49	4	s1	112	Physcia aipolia	1	1	0	0	1
49	4	s2	291	Physcia aipolia	1	0	1	0	2
49	4	s1	112	Physcia millegrana	0	1	2	0	0
49	4	r	21	Physcia stellaris	1	0	0	0	0
49	4	a	209	Physciella chloantha	1	0	0	0	1
49	4	r	21	Physciella chloantha	2	0	0	2	1

Site	Tree	Side	Degrees	Lichen	Q1	Q2	Q3	Q4	Q5
49	4	sl	112	Physciella chloantha	1	1	1	0	0
49	4	a	209	Xanthomendoza fallax	2	0	0	0	1
49	4	r	21	Xanthomendoza fallax	0	1	2	0	0
49	4	sl	112	Xanthomendoza fallax	1	0	1	0	7
49	4	s2	291	Xanthomendoza fallax	0	0	0	1	0
49	5	a	109	Candelaria concolor	0	2	6	2	2
49	5	r	290	Candelaria concolor	0	0	1	0	1
49	5	sl	19	Candelaria concolor	1	0	0	1	1
49	5	s2	150	Candelaria concolor	2	1	3	1	0
49	5	r	290	Phaeophyscia adiaetola	0	1	2	0	0
49	5	sl	19	Phaeophyscia adiaetola	0	0	0	1	0
49	5	a	109	Physcia aipolia	0	0	0	1	1
49	5	a	109	Physciella chloantha	0	0	0	1	0
49	5	r	290	Physciella chloantha	2	1	0	0	0
49	5	sl	19	Physciella chloantha	1	0	6	1	5
49	5	s2	150	Physciella chloantha	2	1	1	5	3
49	5	a	109	Xanthomendoza fallax	2	1	0	1	2
49	5	r	290	Xanthomendoza fallax	4	7	9	6	7
49	5	sl	19	Xanthomendoza fallax	4	5	5	4	0
49	5	s2	150	Xanthomendoza fallax	2	3	3	2	4
50	1	a	175	Candelaria concolor	0	0	0	1	2
50	1	r	356	Candelaria concolor	0	0	0	1	0
50	1	s2	261	Candelaria concolor	0	1	1	1	1
50	1	r	356	Hyperphyscia adglutinata	1	0	0	0	0
50	1	r	356	Phaeophyscia pussiloides	0	1	0	0	0
50	1	r	356	Physcia adscendens	0	0	0	0	1
50	1	s2	261	Physcia adscendens	1	1	0	2	0
50	1	a	175	Physcia stellaris	2	2	3	3	6
50	1	r	356	Physcia stellaris	4	2	10	9	13
50	1	sl	92	Physcia stellaris	0	1	0	0	0
50	1	s2	261	Physcia stellaris	6	6	9	7	1
50	1	a	175	Physciella chloantha	1	2	0	0	2
50	1	sl	92	Physciella chloantha	0	0	0	1	0
50	1	s2	261	Physciella chloantha	0	2	6	2	5
50	1	a	175	Xanthomendoza fallax	1	0	1	3	0
50	1	r	356	Xanthomendoza fallax	0	1	0	0	0
50	1	sl	92	Xanthomendoza fallax	1	0	0	0	0
50	1	s2	261	Xanthomendoza fallax	0	0	1	0	1
50	2	a	163	Candelaria concolor	1	5	1	1	0
50	2	r	349	Candelaria concolor	0	0	1	0	0
50	2	sl	98	Candelaria concolor	1	1	1	0	1
50	2	s2	261	Candelaria concolor	1	0	3	4	2
50	2	r	349	Hyperphyscia adglutinata	1	0	0	0	0
50	2	sl	98	Hyperphyscia adglutinata	0	0	0	1	0
50	2	sl	98	Phaeophyscia pussiloides	1	0	0	0	0
50	2	s2	261	Phaeophyscia pussiloides	2	2	2	1	0
50	2	r	349	Physcia adscendens	0	0	1	0	1
50	2	sl	98	Physcia adscendens	1	0	0	0	0
50	2	s2	261	Physcia adscendens	0	1	0	1	0
50	2	r	349	Physcia millegrana	0	0	0	1	0
50	2	s2	261	Physcia millegrana	0	0	1	0	1
50	2	r	349	Physcia stellaris	9	7	4	9	4
50	2	sl	98	Physcia stellaris	3	1	5	3	3
50	2	s2	261	Physcia stellaris	7	5	7	5	2
50	2	a	163	Physciella chloantha	1	0	1	0	0

Site	Tree	Side	Degrees	Lichen	Q1	Q2	Q3	Q4	Q5
50	2	s1	98	Physciella chloantha	0	0	0	1	0
50	2	s2	261	Physciella chloantha	0	0	0	0	2
50	2	a	163	Xanthomendoza fallax	0	0	1	0	1
50	2	s2	261	Xanthomendoza fallax	1	0	0	1	0
50	3	a	173	Candelaria concolor	1	1	2	3	1
50	3	r	353	Candelaria concolor	0	2	0	0	0
50	3	s1	91	Candelaria concolor	1	0	2	0	2
50	3	s2	267	Candelaria concolor	2	1	1	5	1
50	3	a	173	Hyperphyscia adglutinata	1	0	0	0	0
50	3	s1	91	Hyperphyscia adglutinata	0	1	0	0	0
50	3	r	353	Parmelia sulcata	1	3	2	3	3
50	3	s1	91	Parmelia sulcata	0	0	0	1	0
50	3	s2	267	Parmelia sulcata	0	0	0	1	1
50	3	r	353	Phaeophyscia adiastrata	0	0	0	0	3
50	3	a	173	Phaeophyscia pussiloides	0	0	0	0	1
50	3	s1	91	Phaeophyscia pussiloides	2	0	0	0	0
50	3	s2	267	Phaeophyscia pussiloides	0	2	0	1	0
50	3	a	173	Phaeophyscia rubripulchra	2	0	0	0	0
50	3	s1	91	Phaeophyscia rubripulchra	0	0	0	0	1
50	3	a	173	Physcia adscendens	1	2	5	4	1
50	3	r	353	Physcia adscendens	4	1	0	1	0
50	3	s1	91	Physcia adscendens	7	4	6	7	6
50	3	s2	267	Physcia adscendens	1	0	2	2	6
50	3	r	353	Physcia millegrana	3	4	2	3	1
50	3	s1	91	Physcia millegrana	4	1	3	2	1
50	3	s2	267	Physcia millegrana	1	0	0	1	2
50	3	a	173	Physcia stellaris	4	1	4	7	8
50	3	r	353	Physcia stellaris	1	2	0	4	3
50	3	s1	91	Physcia stellaris	3	4	4	0	3
50	3	s2	267	Physcia stellaris	1	3	4	0	2
50	3	s2	267	Physciella chloantha	1	2	2	4	1
50	3	a	173	Xanthomendoza fallax	1	2	2	0	2
50	3	r	353	Xanthomendoza fallax	0	0	2	2	0
50	3	s1	91	Xanthomendoza fallax	1	0	1	0	1
50	3	s2	267	Xanthomendoza fallax	10	6	7	3	0
50	4	a	170	Candelaria concolor	3	3	2	4	4
50	4	r	353	Candelaria concolor	0	0	2	1	0
50	4	s1	87	Candelaria concolor	2	0	1	2	4
50	4	s2	263	Candelaria concolor	2	0	1	0	0
50	4	s2	263	Phaeophyscia pussiloides	0	0	0	0	1
50	4	s1	87	Physcia adscendens	0	0	0	0	1
50	4	s2	263	Physcia adscendens	0	1	0	1	0
50	4	s2	263	Physcia millegrana	0	0	0	0	2
50	4	a	170	Physcia stellaris	0	0	1	1	2
50	4	r	353	Physcia stellaris	12	10	10	1	7
50	4	s1	87	Physcia stellaris	3	1	0	4	3
50	4	s2	263	Physcia stellaris	6	3	3	2	2
50	4	a	170	Physciella chloantha	1	1	0	0	0
50	4	r	353	Physciella chloantha	0	1	0	0	0
50	4	s2	263	Physciella chloantha	0	1	1	2	1
50	4	a	170	Xanthomendoza fallax	0	1	0	0	0
50	4	s2	263	Xanthomendoza fallax	0	0	1	0	0
50	5	a	171	Candelaria concolor	1	3	3	3	8
50	5	r	351	Candelaria concolor	3	3	2	1	2
50	5	s1	82	Candelaria concolor	3	8	7	10	7

Site	Tree	Side	Degrees	Lichen	Q1	Q2	Q3	Q4	Q5
50	5	s2	268	Candelaria concolor	4	3	6	9	6
50	5	s1	82	Phaeophyscia pussiloides	1	0	0	0	0
50	5	s2	268	Phaeophyscia pussiloides	2	1	0	0	1
50	5	a	171	Physcia adscendens	0	0	0	1	0
50	5	r	351	Physcia adscendens	0	1	0	0	2
50	5	s2	268	Physcia adscendens	0	0	1	0	0
50	5	r	351	Physcia millegrana	0	0	0	1	0
50	5	a	171	Physcia stellaris	2	0	2	0	1
50	5	r	351	Physcia stellaris	11	6	7	8	3
50	5	s1	82	Physcia stellaris	1	0	1	0	0
50	5	s2	268	Physcia stellaris	3	4	4	2	2
50	5	a	171	Physciella chloantha	1	0	1	0	3
50	5	r	351	Physciella chloantha	0	0	0	0	1
50	5	s1	82	Physciella chloantha	0	0	2	1	1
50	5	s2	268	Physciella chloantha	0	1	5	1	0
50	5	a	171	Xanthomendoza fallax	0	1	0	0	1
50	5	r	351	Xanthomendoza fallax	0	1	1	2	6
50	5	s1	82	Xanthomendoza fallax	0	0	2	2	0
51	1	a	91	Candelaria concolor	0	0	1	1	0
51	1	r	259	Candelaria concolor	0	2	2	0	0
51	1	a	91	Hyperphyscia adglutinata	6	7	5	7	2
51	1	r	259	Hyperphyscia adglutinata	4	2	0	0	0
51	1	s1	355	Hyperphyscia adglutinata	3	2	2	4	6
51	1	s2	210	Hyperphyscia adglutinata	2	1	1	1	1
51	1	a	91	Phaeophyscia ciliata	0	0	0	0	4
51	1	s2	210	Phaeophyscia pussiloides	4	4	6	4	5
51	1	a	91	Physcia millegrana	0	0	1	1	2
51	1	r	259	Physcia millegrana	1	0	0	2	1
51	1	s2	210	Physcia millegrana	0	1	1	1	1
51	1	r	259	Physciella chloantha	2	1	5	3	1
51	1	r	259	Xanthomendoza fallax	1	0	0	0	0
51	1	s2	210	Xanthomendoza fallax	0	0	0	0	1
51	2	r	256	Candelaria concolor	0	0	1	0	1
51	2	a	81	Hyperphyscia adglutinata	2	0	0	0	0
51	2	s2	169	Hyperphyscia adglutinata	3	2	0	2	1
51	2	s1	357	Parmelia sulcata	4	1	0	0	0
51	2	r	256	Physcia adscendens	0	1	0	0	0
51	2	r	256	Physcia aipolia	0	1	2	0	1
51	2	s1	357	Physcia aipolia	2	1	3	1	0
51	2	a	81	Physcia millegrana	1	0	1	3	1
51	2	r	256	Physcia millegrana	9	11	8	6	9
51	2	s1	357	Physcia millegrana	7	10	11	8	9
51	2	s2	169	Physcia millegrana	2	4	5	4	2
51	2	r	256	Xanthomendoza fallax	0	0	0	0	1
51	2	s2	169	Xanthomendoza fallax	0	0	1	0	0
51	3	a	174	Candelaria concolor	5	5	4	3	2
51	3	r	245[355]	Candelaria concolor	3	3	2	5	3
51	3	s1	90	Candelaria concolor	7	7	8	5	4
51	3	s2	262	Candelaria concolor	2	1	0	3	2
51	3	s2	262	Hyperphyscia adglutinata	0	0	2	1	0
51	3	s1	90	Phaeophyscia rubripulchra	0	0	2	3	3
51	3	s1	90	Physcia aipolia	0	1	0	0	0
51	3	s1	90	Physcia millegrana	1	0	0	0	0
51	3	a	174	Physciella chloantha	1	0	2	2	3
51	3	r	245[355]	Physciella chloantha	2	2	3	3	3

Site	Tree	Side	Degrees	Lichen	Q1	Q2	Q3	Q4	Q5
51	3	s1	90	Physciella chloantha	6	1	0	0	0
51	3	s2	262	Physciella chloantha	7	7	5	8	4
51	4	r	327[347]	Candelaria concolor	2	1	4	0	2
51	4	s1	83	Candelaria concolor	1	2	1	4	2
51	4	s2	253	Candelaria concolor	0	1	1	3	5
51	4	r	327[347]	Hyperphyscia adglutinata	0	0	0	1	0
51	4	r	327[347]	Physciella chloantha	6	2	1	1	3
51	4	s1	83	Physciella chloantha	1	1	5	0	0
51	4	s2	253	Physciella chloantha	0	4	6	4	2
52	1	a	183	Candelaria concolor	0	0	0	1	2
52	1	r	3	Candelaria concolor	1	0	0	0	0
52	1	s1	113	Candelaria concolor	2	3	1	5	10
52	1	s2	269	Candelaria concolor	1	5	3	2	2
52	1	s1	113	Phaeophyscia adiastrata	1	0	0	0	0
52	1	s1	113	Phaeophyscia pusilloides	0	0	0	1	0
52	1	a	183	Physcia stellaris	0	1	1	0	2
52	1	r	3	Physcia stellaris	1	3	1	2	0
52	1	s1	113	Physcia stellaris	0	1	0	0	0
52	1	s2	269	Physcia stellaris	1	0	2	0	1
52	1	a	183	Physciella chloantha	0	0	0	4	1
52	1	r	3	Physciella chloantha	1	0	0	1	0
52	1	s1	113	Physciella chloantha	0	2	2	1	1
52	1	s2	269	Physciella chloantha	1	0	1	4	0
52	1	r	3	Xanthomendoza fallax	0	0	1	0	1
52	1	s1	113	Xanthomendoza fallax	0	0	1	0	0
52	2	a	351	Candelaria concolor	0	1	1	1	1
52	2	s1	266	Candelaria concolor	1	2	4	2	0
52	2	s2	82	Candelaria concolor	0	0	1	1	2
52	2	r	166	Physcia stellaris	0	1	1	0	0
52	2	s1	266	Physcia stellaris	1	0	0	0	0
52	2	s2	82	Physcia stellaris	0	1	0	0	0
52	2	a	351	Physciella chloantha	0	2	1	1	1
52	2	r	166	Physciella chloantha	0	1	1	1	2
52	2	s1	266	Physciella chloantha	0	1	0	0	4
52	2	s2	82	Physciella chloantha	2	1	0	1	1
52	2	r	166	Xanthomendoza fallax	1	1	0	1	3
52	2	s1	266	Xanthomendoza fallax	3	2	0	2	0
52	2	s2	82	Xanthomendoza fallax	1	2	3	2	2
52	3	s1	169	Candelaria concolor	0	0	0	1	0
52	3	r	83	Hyperphyscia adglutinata	0	0	0	2	1
52	3	r	83	Physciella chloantha	0	1	0	0	0
52	3	a	261	Xanthomendoza fallax	0	0	0	0	1
52	3	s2	350	Xanthomendoza fallax	0	1	0	0	0
52	4	a	261	Candelaria concolor	0	2	1	1	1
52	4	r	81	Candelaria concolor	2	1	4	4	2
52	4	s1	175	Candelaria concolor	3	2	0	1	1
52	4	s2	349	Candelaria concolor	1	0	0	0	1
52	4	a	261	Physcia stellaris	0	0	1	0	0
52	4	s1	175	Physcia stellaris	0	0	0	0	1
52	4	s2	349	Physcia stellaris	1	0	0	0	0
52	4	a	261	Physciella chloantha	1	1	1	2	1
52	4	r	81	Physciella chloantha	1	1	0	0	0
52	4	s1	175	Physciella chloantha	0	1	0	0	0
52	4	r	81	Xanthomendoza fallax	1	0	0	0	0
52	4	s1	175	Xanthomendoza fallax	1	2	1	3	1

Site	Tree	Side	Degrees	Lichen	Q1	Q2	Q3	Q4	Q5
52	4	s2	349	Xanthomendoza fallax	1	1	0	0	1
52	5	r	82	Candelaria concolor	0	1	0	1	1
52	5	s2	351	Candelaria concolor	0	0	2	2	1
52	5	a	265	Hyperphyscia adglutinata	2	2	0	0	0
52	5	r	82	Phaeophyscia adiastrata	0	0	0	1	9
52	5	s2	351	Phaeophyscia pussiloides	1	0	0	0	0
52	5	a	265	Physcia stellaris	1	1	1	1	1
52	5	r	82	Physcia stellaris	0	0	0	5	0
52	5	s2	351	Physcia stellaris	0	0	1	0	0
52	5	a	265	Physciella chloantha	0	0	0	2	1
52	5	r	82	Physciella chloantha	2	3	2	2	0
52	5	s2	351	Physciella chloantha	5	11	6	10	2
52	5	a	265	Xanthomendoza fallax	1	0	1	1	2
52	5	r	82	Xanthomendoza fallax	1	0	1	1	0
52	5	s1	172	Xanthomendoza fallax	0	1	0	0	0
53	1	r	159	Candelaria concolor	0	0	0	0	3
53	1	s1	255	Candelaria concolor	1	1	0	0	0
53	1	s2	72	Candelaria concolor	3	0	0	1	0
53	1	a	342	Physcia adscendens	9	6	7	6	8
53	1	r	159	Physcia adscendens	0	0	0	0	1
53	1	s1	255	Physcia adscendens	7	6	8	10	8
53	1	s2	72	Physcia adscendens	4	5	5	2	3
53	1	r	159	Physcia aipolia	0	1	0	0	1
53	1	s1	255	Physcia aipolia	2	0	2	0	0
53	1	s2	72	Physcia aipolia	0	0	2	0	0
53	1	a	342	Physconia detorsa	0	0	0	0	1
53	1	r	159	Xanthomendoza fallax	9	10	9	6	6
53	2	a	339	Candelaria concolor	0	0	0	1	1
53	2	r	156	Candelaria concolor	0	0	1	1	1
53	2	s1	248	Candelaria concolor	3	1	6	2	2
53	2	s2	75	Candelaria concolor	2	3	7	9	6
53	2	s1	248	Hyperphyscia adglutinata	0	0	0	1	3
53	2	r	156	Phaeophyscia adiastrata	14	8	8	10	5
53	2	s1	248	Phaeophyscia rubripulchra	1	0	0	0	0
53	2	a	339	Physcia adscendens	10	11	13	17	13
53	2	r	156	Physcia adscendens	1	6	5	7	5
53	2	s1	248	Physcia adscendens	0	1	0	0	0
53	2	s2	75	Physcia adscendens	1	3	3	4	0
53	2	a	339	Physcia aipolia	0	0	0	1	0
53	2	r	156	Physcia aipolia	0	0	0	0	1
53	2	s1	248	Physcia aipolia	0	2	0	0	0
53	2	s2	75	Physcia aipolia	0	0	0	0	1
53	2	s1	248	Physciella chloantha	2	2	1	4	3
53	2	a	339	Xanthomendoza fallax	0	1	2	0	0
53	2	r	156	Xanthomendoza fallax	0	2	1	0	1
53	2	s1	248	Xanthomendoza fallax	0	1	0	1	0
53	3	r	166	Candelaria concolor	3	6	4	0	8
53	3	s1	249	Candelaria concolor	1	2	4	1	0
53	3	s2	83	Candelaria concolor	6	3	2	4	4
53	3	r	166	Phaeophyscia adiastrata	3	2	4	3	3
53	3	s2	83	Phaeophyscia adiastrata	1	0	0	0	7
53	3	a	341	Physcia adscendens	6	7	5	3	0
53	3	r	166	Physcia adscendens	9	4	2	1	1
53	3	s2	83	Physcia adscendens	3	5	9	5	6
53	3	s1	249	Physcia aipolia	0	0	0	1	0

Site	Tree	Side	Degrees	Lichen	Q1	Q2	Q3	Q4	Q5
53	3	r	166	Physcia stellaris	0	0	1	1	0
53	3	r	166	Xanthomendoza fallax	0	0	2	3	1
53	3	s1	249	Xanthomendoza fallax	1	4	1	6	5
53	4	s1	257	Candelaria concolor	1	3	2	0	1
53	4	s2	83	Candelaria concolor	0	1	1	1	0
53	4	a	337	Phaeophyscia adiaetola	0	1	3	0	0
53	4	r	161	Phaeophyscia adiaetola	17	16	14	14	5
53	4	s1	257	Phaeophyscia adiaetola	9	7	5	10	8
53	4	s2	83	Phaeophyscia adiaetola	16	12	10	9	4
53	4	a	337	Physcia adscendens	10	11	13	10	9
53	4	r	161	Physcia adscendens	0	1	2	0	2
53	4	s1	257	Physcia adscendens	0	0	0	1	0
53	4	s2	83	Physcia adscendens	2	2	3	5	6
53	4	a	337	Physcia aipolia	0	0	0	1	0
53	4	r	161	Physcia aipolia	0	1	0	0	0
53	4	s1	257	Physcia aipolia	0	0	0	2	0
53	4	s2	83	Physcia aipolia	1	0	1	0	0
53	4	r	161	Xanthomendoza fallax	0	0	1	2	8
53	5	a	343	Candelaria concolor	0	1	0	0	2
53	5	s1	261	Candelaria concolor	0	0	0	1	0
53	5	s2	74	Candelaria concolor	0	1	1	0	1
53	5	a	343	Phaeophyscia adiaetola	8	11	13	16	11
53	5	r	156	Phaeophyscia adiaetola	9	9	8	11	13
53	5	s1	261	Phaeophyscia adiaetola	10	15	12	12	8
53	5	s2	74	Phaeophyscia adiaetola	9	7	9	8	0
53	5	a	343	Physcia adscendens	5	1	1	0	2
53	5	r	156	Physcia adscendens	0	0	0	1	0
53	5	s1	261	Physcia adscendens	0	0	1	1	1
53	5	s2	74	Physcia adscendens	3	2	2	1	7
53	5	a	343	Physcia aipolia	0	0	0	0	1
53	5	r	156	Physcia aipolia	3	1	1	2	0
53	5	s1	261	Physcia aipolia	2	0	0	0	0
53	5	s2	74	Physcia aipolia	0	0	1	0	0
53	5	r	156	Xanthomendoza fallax	1	0	0	0	0
53	5	s2	74	Xanthomendoza fallax	2	4	2	1	0
55	2	r	250	Candelaria concolor	1	0	2	3	3
55	2	s1	344	Candelaria concolor	1	0	0	0	0
55	2	s2	153	Candelaria concolor	0	3	1	3	1
55	2	a	69	Hyperphyscia adglutinata	0	0	1	1	4
55	2	r	250	Hyperphyscia adglutinata	1	0	1	0	0
55	2	s1	344	Hyperphyscia adglutinata	2	2	3	3	1
55	2	s2	153	Hyperphyscia adglutinata	0	0	0	1	0
55	2	a	69	Phaeophyscia adiaetola	4	2	2	0	0
55	2	r	250	Phaeophyscia adiaetola	7	4	1	1	0
55	2	s1	344	Phaeophyscia adiaetola	1	1	0	0	0
55	2	s2	153	Phaeophyscia adiaetola	10	7	9	0	1
55	2	s2	153	Physciella chloantha	0	0	0	1	0
55	2	a	69	Xanthomendoza fallax	1	0	0	0	0
55	2	r	250	Xanthomendoza fallax	1	0	2	0	0
55	2	s1	344	Xanthomendoza fallax	2	1	0	0	0
55	2	s2	153	Xanthomendoza fallax	0	1	1	0	0
55	3	a	77	Candelaria concolor	0	2	0	0	2
55	3	a	77	Hyperphyscia adglutinata	4	0	2	1	0
55	3	s2	160	Hyperphyscia adglutinata	0	0	1	1	0
55	3	a	77	Phaeophyscia adiaetola	0	0	1	0	0

Site	Tree	Side	Degrees	Lichen	Q1	Q2	Q3	Q4	Q5
55	3	r	252	Phaeophyscia adiastrata	0	0	0	1	6
55	3	s1	341	Phaeophyscia adiastrata	0	1	0	0	2
55	3	a	77	Phaeophyscia pussiloides	5	3	0	1	3
55	3	s2	160	Phaeophyscia pussiloides	4	0	3	1	1
55	3	a	77	Physcia aipolia	2	3	4	5	3
55	3	s2	160	Physcia aipolia	1	0	0	0	0
55	3	a	77	Physciella chloantha	2	1	3	0	0
55	3	s1	341	Physciella chloantha	0	0	0	1	0
55	3	s2	160	Physciella chloantha	3	1	3	4	7
55	3	a	77	Xanthomendoza fallax	0	1	0	0	0
55	3	r	252	Xanthomendoza fallax	0	0	1	0	0
55	4	a	77	Candelaria concolor	7	10	9	7	11
55	4	s2	159	Candelaria concolor	10	5	11	7	13
55	4	a	77	Hyperphyscia adglutinata	0	0	3	5	5
55	4	s1	344	Hyperphyscia adglutinata	1	0	0	0	0
55	4	s2	159	Hyperphyscia adglutinata	1	3	2	3	0
55	4	a	77	Phaeophyscia adiastrata	3	3	0	0	0
55	4	s2	159	Phaeophyscia adiastrata	1	0	2	0	0
55	4	a	77	Physcia adscendens	6	3	5	2	2
55	4	s2	159	Physcia adscendens	0	1	0	0	0
55	4	a	77	Physcia aipolia	1	2	0	0	0
55	4	s2	159	Physcia aipolia	0	0	0	2	0
55	4	s1	344	Physciella chloantha	1	0	0	0	0
55	4	a	77	Xanthomendoza fallax	1	0	0	0	0
55	4	s1	344	Xanthomendoza fallax	1	0	0	0	0
55	4	s2	159	Xanthomendoza fallax	5	0	0	0	0
55	5	a	71	Candelaria concolor	2	5	5	8	4
55	5	r	251	Candelaria concolor	8	15	12	16	11
55	5	s1	342	Candelaria concolor	1	2	3	4	9
55	5	s2	161	Candelaria concolor	9	10	12	9	11
55	5	a	71	Physciella chloantha	2	1	4	2	1
55	5	s1	342	Physciella chloantha	4	1	3	2	0
57	1	a	264	Candelaria concolor	2	2	4	3	2
57	1	r	87	Candelaria concolor	13	15	13	9	7
57	1	s1	171	Candelaria concolor	0	0	0	0	2
57	1	s2	354	Candelaria concolor	2	4	0	2	0
57	1	r	87	Phaeophyscia adiastrata	1	0	0	0	0
57	1	s2	354	Phaeophyscia rubripulchra	0	1	1	0	0
57	1	r	87	Physcia adscendens	0	0	0	1	0
57	1	s2	354	Physcia millegrana	1	0	0	0	0
57	1	s1	171	Physciella chloantha	0	0	0	1	0
57	1	a	264	Physconia detorsa	0	0	0	1	1
57	1	r	87	Physconia detorsa	0	1	0	0	0
57	2	a	257	Candelaria concolor	1	0	1	0	0
57	2	r	81	Candelaria concolor	2	1	0	0	0
57	2	s1	168	Candelaria concolor	7	4	1	3	1
57	2	s2	355	Candelaria concolor	0	0	1	0	1
57	2	s2	355	Phaeophyscia rubripulchra	1	0	0	0	0
57	2	s2	355	Physcia adscendens	0	0	0	1	0
57	2	r	81	Physcia millegrana	0	1	0	0	1
57	2	s2	355	Physcia millegrana	1	0	0	2	1
57	2	a	257	Xanthomendoza fallax	1	0	1	0	0
57	2	r	81	Xanthomendoza fallax	0	1	0	0	0
57	2	s1	168	Xanthomendoza fallax	1	0	0	0	0
57	3	r	81	Candelaria concolor	0	0	0	1	0

Site	Tree	Side	Degrees	Lichen	Q1	Q2	Q3	Q4	Q5
57	3	s2	347	Candelaria concolor	0	0	0	0	1
57	3	s1	167	Physcia millegrana	0	0	0	1	0
57	4	a	260	Candelaria concolor	1	1	0	0	1
57	4	r	81	Candelaria concolor	7	4	1	2	0
57	4	s1	169	Candelaria concolor	5	4	1	1	0
57	4	s2	348	Candelaria concolor	0	0	0	0	1
57	4	r	81	Phaeophyscia rubripulchra	1	0	0	0	0
57	4	s1	169	Phaeophyscia rubripulchra	0	0	1	1	0
57	4	a	260	Physcia millegrana	2	3	1	4	0
57	4	r	81	Physcia millegrana	0	0	0	2	0
57	4	s1	169	Physcia millegrana	5	1	2	2	1
57	4	s2	348	Physcia millegrana	0	0	1	0	0
57	4	r	81	Physciella chloantha	0	1	0	0	0
57	4	a	260	Xanthomendoza fallax	1	3	2	1	2
57	5	a	81	Candelaria concolor	2	4	3	5	5
57	5	r	263	Candelaria concolor	0	3	1	3	5
57	5	s1	354	Candelaria concolor	1	1	2	1	1
57	5	s2	169	Candelaria concolor	0	4	2	2	3
57	5	a	81	Phaeophyscia rubripulchra	2	0	0	2	0
57	5	r	263	Physcia adscendens	1	0	0	0	0
57	5	r	263	Physciella chloantha	1	1	0	0	0
57	5	s1	354	Physciella chloantha	0	1	1	0	0
57	5	s2	169	Physciella chloantha	3	0	2	1	1
57	5	s2	169	Xanthomendoza fallax	0	1	0	0	0
58	1	a	191	Candelaria concolor	3	4	7	2	1
58	1	s1	96	Candelaria concolor	0	1	0	2	1
58	1	s2	279	Candelaria concolor	5	0	1	1	0
58	1	s1	96	Parmelia sulcata	0	0	1	0	0
58	1	s2	279	Parmelia sulcata	0	0	0	1	1
58	1	a	191	Phaeophyscia adiaetola	3	1	2	0	1
58	1	s2	279	Phaeophyscia adiaetola	0	1	1	0	0
58	1	a	191	Phaeophyscia rubripulchra	0	0	0	2	0
58	1	r	5	Phaeophyscia rubripulchra	6	1	2	6	4
58	1	s1	96	Phaeophyscia rubripulchra	2	1	1	0	1
58	1	s2	279	Phaeophyscia rubripulchra	0	0	0	3	3
58	1	s1	96	Physcia adscendens	1	0	0	0	0
58	1	s2	279	Physcia adscendens	3	0	0	0	0
58	1	a	191	Physcia aipolia	1	0	0	0	0
58	1	r	5	Physcia aipolia	0	0	0	1	0
58	1	s1	96	Physcia aipolia	1	0	0	0	0
58	1	s2	279	Physcia aipolia	1	0	1	0	0
58	1	r	5	Physcia millegrana	0	0	0	1	0
58	1	a	191	Physciella chloantha	1	0	0	0	0
58	1	a	191	Physconia detersa	0	2	0	0	0
58	1	s1	96	Physconia detersa	0	0	0	0	2
58	1	s2	279	Physconia detersa	0	2	0	0	2
58	2	a	187	Candelaria concolor	1	3	1	2	2
58	2	s1	95	Candelaria concolor	0	1	5	2	3
58	2	s2	276	Candelaria concolor	6	8	0	3	1
58	2	r	3	Parmelia sulcata	1	5	0	0	0
58	2	s1	95	Parmelia sulcata	0	0	1	1	2
58	2	s2	276	Parmelia sulcata	1	0	0	0	0
58	2	a	187	Phaeophyscia adiaetola	2	2	3	0	5
58	2	s1	95	Phaeophyscia adiaetola	4	4	3	3	1
58	2	s1	95	Phaeophyscia pussiloides	0	1	0	0	0

Site	Tree	Side	Degrees	Lichen	Q1	Q2	Q3	Q4	Q5
58	2	s1	95	Phaeophyscia rubripulchra	0	0	0	0	1
58	2	s2	276	Phaeophyscia rubripulchra	0	0	1	0	0
58	2	a	187	Physcia adscendens	0	1	0	0	0
58	2	r	3	Physcia adscendens	1	4	4	3	4
58	2	s1	95	Physcia adscendens	2	0	0	0	2
58	2	s2	276	Physcia adscendens	1	1	1	4	0
58	2	a	187	Physcia millegrana	0	0	1	1	0
58	2	r	3	Physcia millegrana	0	0	1	1	0
58	2	s1	95	Physcia millegrana	4	2	0	2	0
58	2	s2	276	Physcia millegrana	0	0	1	0	0
58	2	a	187	Physcia stellaris	1	0	0	1	0
58	2	r	3	Physcia stellaris	1	0	0	0	0
58	2	s1	95	Physcia stellaris	0	1	0	0	0
58	2	s2	276	Physcia stellaris	1	0	0	0	0
58	2	a	187	Physciella chloantha	1	0	0	0	0
58	2	s2	276	Physciella chloantha	0	0	0	1	0
58	2	s1	95	Physconia detera	0	0	0	0	2
58	2	s2	276	Physconia detera	0	0	0	1	0
58	2	a	187	Xanthomendoza fallax	3	0	3	2	0
58	2	s2	276	Xanthomendoza fallax	12	10	17	11	19
58	3	a	189	Candelaria concolor	0	0	1	0	2
58	3	s1	97	Candelaria concolor	0	2	0	0	0
58	3	s2	284	Candelaria concolor	0	2	1	0	0
58	3	r	5	Parmelia sulcata	12	14	9	11	2
58	3	s1	97	Parmelia sulcata	4	0	1	0	0
58	3	s2	284	Parmelia sulcata	0	0	2	0	2
58	3	a	189	Phaeophyscia adiaetola	15	12	15	14	13
58	3	r	5	Phaeophyscia adiaetola	0	1	0	1	0
58	3	s1	97	Phaeophyscia adiaetola	9	18	15	17	19
58	3	s2	284	Phaeophyscia adiaetola	1	1	5	1	0
58	3	r	5	Physcia adscendens	2	0	1	0	1
58	3	s1	97	Physcia adscendens	1	0	0	0	0
58	3	s2	284	Physcia adscendens	1	1	0	0	0
58	3	a	189	Physcia aipolia	0	0	1	0	0
58	3	s1	97	Physcia aipolia	1	0	1	0	0
58	3	s1	97	Physcia stellaris	1	0	0	0	0
58	3	s2	284	Physconia detera	1	0	0	0	0
58	4	a	181	Candelaria concolor	1	0	0	0	1
58	4	r	11	Candelaria concolor	1	0	0	0	0
58	4	s2	285	Candelaria concolor	4	5	4	3	7
58	4	r	11	Evernia mesomorpha	0	0	0	1	0
58	4	s2	285	Flavoparmelia caperata	0	1	0	0	0
58	4	r	11	Parmelia sulcata	9	10	4	8	7
58	4	s1	98	Parmelia sulcata	2	0	3	1	2
58	4	s2	285	Parmelia sulcata	2	0	0	0	0
58	4	a	181	Phaeophyscia adiaetola	5	3	2	3	1
58	4	s2	285	Phaeophyscia adiaetola	3	0	0	0	0
58	4	a	181	Physcia adscendens	0	1	0	0	1
58	4	r	11	Physcia adscendens	0	3	5	5	3
58	4	s1	98	Physcia adscendens	2	4	4	3	1
58	4	s2	285	Physcia adscendens	3	2	1	0	3
58	4	a	181	Physcia aipolia	0	0	0	0	1
58	4	s2	285	Physcia millegrana	1	0	0	1	0
58	4	s2	285	Physconia detera	2	0	0	0	0
58	4	a	181	Xanthomendoza fallax	0	0	1	1	0

Site	Tree	Side	Degrees	Lichen	Q1	Q2	Q3	Q4	Q5
58	5	a	183	Candelaria concolor	1	0	0	0	0
58	5	r	10	Candelaria concolor	0	0	1	2	0
58	5	s2	283	Candelaria concolor	4	7	5	2	0
58	5	a	183	Flavoparmelia caperata	0	0	2	0	0
58	5	r	10	Parmelia sulcata	0	1	0	0	0
58	5	a	183	Phaeophyscia adiaetola	0	0	3	0	0
58	5	s2	283	Phaeophyscia adiaetola	1	0	0	0	0
58	5	s1	99	Phaeophyscia rubripulchra	0	0	0	0	1
58	5	a	183	Physcia adscendens	1	0	0	0	0
58	5	r	10	Physcia adscendens	4	1	0	0	1
58	5	s1	99	Physcia adscendens	0	0	1	0	0
58	5	s2	283	Physcia adscendens	0	0	0	0	1
58	5	r	10	Physcia aipolia	0	0	0	0	2
58	5	s2	283	Physcia aipolia	0	0	0	1	1
58	5	a	183	Physcia stellaris	1	0	1	1	0
58	5	r	10	Physcia stellaris	0	3	0	0	0
58	5	s1	99	Physcia stellaris	3	1	0	0	0
58	5	r	10	Physconia detorsa	0	0	1	0	0
58	5	s1	99	Physconia detorsa	0	0	0	0	4
58	5	a	183	Xanthomendoza fallax	1	0	1	0	1
58	5	s1	99	Xanthomendoza fallax	0	0	0	0	1
59	1	r	201	Candelaria concolor	0	3	1	2	3
59	1	s1	291	Candelaria concolor	0	0	0	0	2
59	1	s2	107	Candelaria concolor	0	2	1	2	2
59	1	a	28	Phaeophyscia adiaetola	2	1	0	4	2
59	1	r	201	Phaeophyscia adiaetola	0	0	1	0	1
59	1	s1	291	Phaeophyscia adiaetola	0	2	1	2	0
59	1	s2	107	Phaeophyscia adiaetola	0	0	0	2	0
59	1	s2	107	Phaeophyscia pussiloides	1	0	0	0	0
59	1	r	201	Physcia millegrana	1	0	0	1	1
59	1	a	28	Physciella chloantha	0	0	1	0	0
59	1	r	201	Physciella chloantha	0	0	0	2	4
59	1	s1	291	Physciella chloantha	1	0	0	0	3
59	1	s2	107	Physciella chloantha	7	6	5	4	10
59	1	r	201	Xanthomendoza fallax	1	0	0	0	0
59	2	r	17	Hyperphyscia adglutinata	1	0	2	4	0
59	2	s2	297	Hyperphyscia adglutinata	0	1	1	5	1
59	2	r	17	Phaeophyscia adiaetola	0	0	0	1	0
59	2	s1	109	Phaeophyscia adiaetola	0	1	0	0	0
59	2	s2	297	Phaeophyscia adiaetola	0	2	4	0	0
59	2	r	17	Phaeophyscia pussiloides	0	1	0	0	0
59	3	a	208	Candelaria concolor	3	2	1	2	1
59	3	r	25	Candelaria concolor	2	4	5	2	2
59	3	s1	113	Candelaria concolor	6	10	11	9	12
59	3	s2	295	Candelaria concolor	6	4	1	2	5
59	3	a	208	Phaeophyscia adiaetola	2	1	1	0	0
59	3	r	25	Phaeophyscia adiaetola	4	0	1	0	2
59	3	s1	113	Phaeophyscia adiaetola	1	0	1	1	3
59	3	s2	295	Phaeophyscia adiaetola	2	2	0	2	1
59	3	s1	113	Phaeophyscia rubripulchra	0	0	0	0	2
59	3	r	25	Physcia aipolia	0	0	0	0	2
59	3	s1	113	Physcia aipolia	0	0	0	1	0
59	3	a	208	Physcia stellaris	2	0	0	0	0
59	3	a	208	Physciella chloantha	3	2	1	2	3
59	3	r	25	Physciella chloantha	3	8	1	4	0

Site	Tree	Side	Degrees	Lichen	Q1	Q2	Q3	Q4	Q5
59	3	s1	113	Physciella chloantha	3	1	1	0	0
59	3	s2	295	Physciella chloantha	2	3	2	2	2
59	3	s1	113	Xanthomendoza fallax	0	1	0	0	0
59	4	a	65	Candelaria concolor	13	5	4	1	2
59	4	r	237	Candelaria concolor	0	1	0	0	0
59	4	s1	337	Candelaria concolor	1	2	0	0	0
59	4	s1	337	Phaeophyscia rubripulchra	0	1	1	0	0
59	4	a	65	Physcia adscendens	2	5	3	2	9
59	4	s1	337	Physcia adscendens	1	1	4	2	2
59	4	a	65	Physcia millegrana	0	0	1	0	0
59	4	r	237	Physciella chloantha	4	2	1	1	7
59	4	s1	337	Physciella chloantha	2	2	0	0	0
59	4	a	65	Physconia deterosa	0	1	0	0	0
59	4	s1	337	Physconia deterosa	0	0	1	0	0
59	4	a	65	Xanthomendoza fallax	0	1	2	3	0
59	4	r	237	Xanthomendoza fallax	1	1	3	4	4
59	4	s1	337	Xanthomendoza fallax	0	0	2	2	2
59	4	s2	156	Xanthomendoza fallax	1	1	3	4	3
59	5	s1	305	Hyperphyscia adglutinata	0	0	1	0	0
59	5	a	21	Physciella chloantha	1	0	0	0	0
59	5	s2	117	Physciella chloantha	0	0	0	0	1
60	1	a	215 [300]	Candelaria concolor	2	2	6	1	2
60	1	r	75	Candelaria concolor	3	2	1	1	2
60	1	s1	172	Candelaria concolor	3	2	2	6	5
60	1	s2	337	Candelaria concolor	2	2	1	2	1
60	1	a	215 [300]	Phaeophyscia adiaetola	0	2	0	0	0
60	1	r	75	Phaeophyscia adiaetola	0	4	0	1	1
60	1	s1	172	Phaeophyscia adiaetola	0	3	0	0	2
60	1	a	215 [300]	Phaeophyscia pussiloides	0	0	0	1	0
60	1	s1	172	Phaeophyscia pussiloides	0	1	0	0	0
60	1	r	75	Phaeophyscia rubripulchra	0	0	0	0	1
60	1	a	215 [300]	Physcia adscendens	1	0	4	1	1
60	1	r	75	Physcia adscendens	0	0	1	0	0
60	1	a	215 [300]	Physcia aipolia	0	0	0	0	2
60	1	r	75	Physcia aipolia	3	1	1	0	1
60	1	s1	172	Physcia aipolia	2	0	3	5	1
60	1	s2	337	Physcia aipolia	0	1	0	0	0
60	1	a	215 [300]	Physcia millegrana	0	1	1	0	0
60	1	r	75	Physcia millegrana	0	0	1	0	0
60	1	a	215 [300]	Physcia stellaris	0	0	2	0	0
60	1	r	75	Physcia stellaris	1	0	0	1	0
60	1	a	215 [300]	Physciella chloantha	6	1	1	4	5
60	1	r	75	Physciella chloantha	3	2	3	1	0
60	1	s1	172	Physciella chloantha	9	3	1	5	3
60	1	s2	337	Physciella chloantha	4	4	7	7	11
60	1	s1	172	Physconia deterosa	0	0	0	0	1
60	1	a	215 [300]	Xanthomendoza fallax	0	0	0	1	0
60	1	s1	172	Xanthomendoza fallax	0	1	0	0	1
60	2	a	258	Candelaria concolor	3	0	2	1	2
60	2	s1	169	Candelaria concolor	3	1	1	2	1
60	2	a	258	Hyperphyscia adglutinata	0	5	1	0	0
60	2	a	258	Physcia adscendens	2	1	5	6	9
60	2	r	83	Physcia adscendens	6	6	12	8	11
60	2	s1	169	Physcia adscendens	7	6	8	4	7
60	2	s2	348	Physcia adscendens	10	11	9	12	4

Site	Tree	Side	Degrees	Lichen	Q1	Q2	Q3	Q4	Q5
60	2	a	258	Physcia aipolia	4	2	0	1	1
60	2	r	83	Physcia aipolia	3	0	0	0	0
60	2	s1	169	Physcia aipolia	1	1	0	0	0
60	2	s2	348	Physcia aipolia	0	0	3	0	1
60	2	s2	348	Physcia millegrana	0	0	1	0	0
60	2	s1	169	Physcia stellaris	0	0	1	0	0
60	2	s2	348	Physcia stellaris	1	0	1	0	0
60	2	s2	348	Physciella chloantha	1	0	0	0	0
60	2	a	258	Physconia detera	0	0	0	0	1
60	2	s2	348	Physconia detera	0	0	0	1	2
60	2	a	258	Xanthomendoza fallax	0	1	2	1	2
60	2	s1	169	Xanthomendoza fallax	3	2	1	1	2
60	2	s2	348	Xanthomendoza fallax	2	1	0	1	1
60	3	s2	262	Candelaria concolor	0	0	0	0	1
60	3	r	348	Hyperphyscia adglutinata	0	2	0	0	0
60	3	s2	262	Hyperphyscia adglutinata	6	3	3	2	7
60	3	s2	262	Phaeophyscia adiaetola	5	4	1	0	3
60	3	s2	262	Phaeophyscia ciliata	0	0	0	0	1
60	3	a	164	Physcia millegrana	0	0	0	0	2
60	3	r	348	Physcia millegrana	5	4	2	0	2
60	3	s2	262	Physcia millegrana	0	3	0	0	1
60	3	r	348	Physciella chloantha	0	1	0	0	0
60	4	a	353	Candelaria concolor	0	0	0	1	0
60	4	s1	263	Candelaria concolor	0	0	4	0	0
60	4	a	353	Hyperphyscia adglutinata	6	7	4	3	4
60	4	r	169	Hyperphyscia adglutinata	0	1	1	2	0
60	4	s1	263	Hyperphyscia adglutinata	0	6	1	2	1
60	4	s2	82	Hyperphyscia adglutinata	2	2	1	0	0
60	4	a	353	Physcia millegrana	7	4	9	5	8
60	4	r	169	Physcia millegrana	1	0	3	3	3
60	4	s1	263	Physcia millegrana	10	5	7	0	0
60	4	s2	82	Physcia millegrana	9	13	9	11	15
60	4	s1	263	Physconia detera	0	0	3	14	12
60	5	a	0*	Physcia millegrana	2	7	13	6	5
60	5	r	171	Physcia millegrana	8	7	3	0	0
60	5	s1	269	Physcia millegrana	6	4	6	6	1
60	5	s4	87	Physcia millegrana	0	1	2	1	4
60	5	s1	269	Xanthomendoza fallax	0	0	0	1	0
61	1	a	254	Candelaria concolor	0	0	0	0	2
61	1	r	85	Candelaria concolor	1	0	2	6	7
61	1	s2	351	Candelaria concolor	1	2	3	1	1
61	1	r	85	Physcia adscendens	8	10	6	5	3
61	1	s2	351	Physcia adscendens	1	2	3	5	7
61	1	r	85	Physcia millegrana	1	0	0	0	0
61	1	s2	351	Physcia millegrana	2	5	3	3	3
61	1	r	85	Physcia stellaris	1	0	0	0	0
61	1	r	85	Physconia detera	1	0	0	0	0
61	1	r	85	Xanthomendoza fallax	1	2	0	0	0
61	2	a	255	Candelaria concolor	11	13	13	11	10
61	2	r	79	Candelaria concolor	5	8	10	11	11
61	2	s1	68	Candelaria concolor	14	12	9	11	10
61	2	s2	349	Candelaria concolor	6	1	7	6	4
61	2	r	79	Physcia adscendens	8	4	3	3	6
61	2	s2	349	Physcia adscendens	10	10	8	11	10
61	2	r	79	Physcia millegrana	0	0	1	0	0

Site	Tree	Side	Degrees	Lichen	Q1	Q2	Q3	Q4	Q5
61	2	s2	349	Physcia millegrana	1	0	0	0	0
61	3	s2	247	Candelaria concolor	1	0	0	1	2
61	3	r	81	Physcia adscendens	1	0	0	0	1
61	3	s2	247	Physcia millegrana	0	0	0	1	0
61	3	r	81	Xanthomendoza fallax	2	1	0	0	0
61	3	s2	247	Xanthomendoza fallax	0	0	1	0	0
61	4	a	264	Candelaria concolor	10	11	9	9	11
61	4	r	81	Candelaria concolor	1	0	2	1	1
61	4	s1	163	Candelaria concolor	2	9	9	9	10
61	4	s2	349	Candelaria concolor	0	3	5	2	5
61	4	a	264	Physcia adscendens	0	0	0	0	1
61	4	r	81	Physcia adscendens	15	19	15	13	9
61	4	s1	163	Physcia adscendens	0	2	1	1	1
61	4	s2	349	Physcia adscendens	13	9	11	9	7
61	4	a	264	Physcia millegrana	0	0	0	1	1
61	4	s1	163	Physciella chloantha	3	1	0	0	0
61	4	r	81	Physconia detersa	0	0	0	0	5
61	4	a	264	Xanthomendoza fallax	2	0	1	0	0
61	4	s1	163	Xanthomendoza fallax	1	0	2	0	0
61	5	s1	82	Candelaria concolor	2	1	0	3	10
61	5	r	352	Physcia adscendens	0	0	0	1	0
61	5	s1	82	Physcia adscendens	5	2	2	2	0
61	5	r	352	Physcia millegrana	9	5	7	3	5
61	5	s1	82	Physcia millegrana	0	0	1	0	1
61	5	s1	82	Xanthomendoza fallax	6	11	6	8	3
62	2	r	215	Candelaria concolor	1	0	0	0	0
62	2	s1	305	Candelaria concolor	0	0	0	0	1
62	2	a	43	Hyperphyscia adglutinata	0	0	2	0	0
62	2	a	43	Physcia millegrana	0	0	0	1	0
62	4	r	166	Hyperphyscia adglutinata	0	1	2	1	1
62	4	r	166	Xanthomendoza fallax	0	1	0	0	0
62	4	s2	86	Xanthomendoza fallax	0	0	1	0	0
63	1	a	263	Candelaria concolor	12	8	10	9	10
63	1	r	91	Candelaria concolor	0	0	2	0	0
63	1	s1	178	Candelaria concolor	0	0	1	0	0
63	1	s2	355	Candelaria concolor	6	2	4	2	2
63	1	s2	355	Hyperphyscia adglutinata	0	0	2	0	1
63	1	a	263	Physciella chloantha	1	0	0	0	0
63	1	r	91	Physciella chloantha	4	6	5	4	5
63	1	a	263	Xanthomendoza fallax	1	2	1	0	0
63	1	r	91	Xanthomendoza fallax	5	9	5	3	4
63	1	s1	178	Xanthomendoza fallax	1	0	0	0	0
63	1	s2	355	Xanthomendoza fallax	0	1	0	1	2
63	2	a	260	Candelaria concolor	1	0	0	0	0
63	2	a	260	Hyperphyscia adglutinata	14	12	12	1	4
63	2	r	83	Hyperphyscia adglutinata	0	0	1	0	0
63	2	s1	171	Hyperphyscia adglutinata	0	1	2	0	0
63	2	a	260	Physcia millegrana	1	3	0	0	1
63	2	a	260	Physciella chloantha	2	3	2	0	0
63	2	s2	351	Physciella chloantha	0	0	1	0	0
63	3	a	353	Candelaria concolor	0	0	0	1	0
63	3	s1	269	Candelaria concolor	0	1	0	0	0
63	3	s1	269	Hyperphyscia adglutinata	0	1	0	0	0
63	3	a	353	Phaeophyscia rubripulchra	0	0	0	1	2
63	3	a	353	Physcia adscendens	10	7	12	5	1

Site	Tree	Side	Degrees	Lichen	Q1	Q2	Q3	Q4	Q5
63	3	s1	269	Physcia adscendens	0	1	4	5	1
63	3	s2	81	Physcia adscendens	2	0	0	0	0
63	3	s1	269	Physciella chloantha	1	0	0	0	0
63	3	a	353	Physconia detera	0	0	0	3	0
63	3	a	353	Xanthomendoza fallax	0	0	0	0	1
63	3	r	169	Xanthomendoza fallax	0	1	2	0	0
63	3	s1	269	Xanthomendoza fallax	3	0	0	1	1
63	3	s2	81	Xanthomendoza fallax	0	1	0	1	0
63	4	a	50	Candelaria concolor	0	1	0	0	0
63	4	r	242	Candelaria concolor	1	0	0	0	1
63	4	s1	331	Candelaria concolor	1	1	3	0	1
63	4	s2	137	Candelaria concolor	0	1	0	0	0
63	4	s1	331	Hyperphyscia adglutinata	1	1	0	0	0
63	4	s2	137	Hyperphyscia adglutinata	2	6	4	4	8
63	4	a	50	Physcia adscendens	14	10	7	9	7
63	4	s1	331	Physcia adscendens	4	4	5	3	2
63	4	s2	137	Physcia adscendens	1	1	1	0	0
63	4	r	242	Physcia aipolia	1	0	0	0	0
63	4	s1	331	Physcia aipolia	1	0	2	1	0
63	4	s2	137	Physcia aipolia	0	0	0	1	0
63	4	a	50	Physcia millegrana	0	1	0	1	0
63	4	r	242	Physcia millegrana	0	1	0	0	0
63	4	s1	331	Physcia millegrana	2	2	2	0	0
63	4	s2	137	Physcia millegrana	0	1	0	0	0
63	4	r	242	Physciella chloantha	0	0	0	1	1
63	4	s1	331	Physciella chloantha	0	0	2	1	1
63	4	a	50	Physconia detera	0	0	0	0	1
63	4	a	50	Xanthomendoza fallax	0	0	1	2	3
63	4	r	242	Xanthomendoza fallax	7	3	13	4	5
63	4	s1	331	Xanthomendoza fallax	2	1	0	1	0
63	4	s2	137	Xanthomendoza fallax	1	1	2	0	1
63	5	r	258	Physciella chloantha	1	2	1	1	1
63	5	r	258	Xanthomendoza fallax	8	4	2	1	1
64	1	r	189	Candelaria concolor	2	1	0	0	0
64	1	r	189	Phaeophyscia adiaetola	2	3	0	0	0
64	1	r	189	Phaeophyscia pussiloides	0	1	0	0	0
64	1	s2	102	Phaeophyscia pussiloides	1	0	0	0	0
64	1	s1	279	Phaeophyscia rubripulchra	7	2	1	3	5
64	1	s2	102	Phaeophyscia rubripulchra	0	1	3	2	3
64	1	r	189	Physciella chloantha	3	0	3	5	1
64	2	s1	278	Candelaria concolor	6	11	7	5	4
64	2	s1	278	Parmelia sulcata	0	0	0	1	0
64	2	s1	278	Phaeophyscia adiaetola	4	1	0	0	0
64	2	a	17	Phaeophyscia rubripulchra	6	9	13	2	7
64	2	a	17	Physcia millegrana	10	1	2	5	0
64	2	r	197	Physcia millegrana	3	4	3	2	2
64	2	s1	278	Physcia millegrana	0	0	1	1	0
64	2	s2	104	Physcia millegrana	5	1	3	6	7
64	2	s1	278	Xanthomendoza fallax	0	0	1	0	0
64	2	s2	104	Xanthomendoza fallax	1	0	0	0	0
64	5	r	283	Candelaria concolor	2	1	1	0	0
64	5	r	283	Phaeophyscia adiaetola	2	3	1	2	0
64	5	r	283	Phaeophyscia rubripulchra	0	0	2	1	2
64	5	s1	10	Phaeophyscia rubripulchra	2	4	3	2	2
64	5	r	283	Physcia millegrana	1	0	0	0	0

Site	Tree	Side	Degrees	Lichen	Q1	Q2	Q3	Q4	Q5
64	5	r	283	Physciella chloantha	0	1	0	0	0
64	5	sl	10	Physconia detera	0	0	0	1	0
64	5	r	283	Xanthomendoza fallax	0	1	1	2	0
65	1	a	85	Candelaria concolor	1	0	0	1	0
65	1	sl	353	Candelaria concolor	3	1	1	0	1
65	1	sl	353	Hyperphyscia adglutinata	2	2	6	8	7
65	1	r	263	Physciella chloantha	0	0	0	1	0
65	1	a	85	Xanthomendoza fallax	1	1	0	0	1
65	1	r	263	Xanthomendoza fallax	0	1	0	1	0
65	1	sl	353	Xanthomendoza fallax	2	3	1	0	0
65	1	s2	177	Xanthomendoza fallax	0	1	0	0	0
65	2	a	53	Candelaria concolor	3	5	4	3	3
65	2	r	259	Candelaria concolor	0	0	0	1	0
65	2	s2	168	Candelaria concolor	4	4	4	0	1
65	2	s2	168	Phaeophyscia adiantola	0	0	0	0	2
65	2	sl	343	Phaeophyscia rubripulchra	5	4	4	7	4
65	2	sl	343	Phaeophyscia rubripulchra	1	0	0	0	1
65	2	r	259	Physcia aipolia	0	0	2	0	0
65	2	r	259	Physciella chloantha	1	2	2	2	2
65	2	s2	168	Physciella chloantha	2	2	1	0	2
65	2	a	53	Xanthomendoza fallax	2	2	3	4	1
65	2	r	259	Xanthomendoza fallax	12	13	8	9	10
65	2	sl	343	Xanthomendoza fallax	6	8	6	8	7
65	2	s2	168	Xanthomendoza fallax	4	4	4	2	2
65	3	a	49	Candelaria concolor	0	0	0	1	0
65	3	r	260	Candelaria concolor	1	1	0	1	1
65	3	sl	349	Candelaria concolor	1	1	2	0	0
65	3	s2	156	Candelaria concolor	1	0	0	0	2
65	3	a	49	Phaeophyscia adiantola	1	0	1	0	0
65	3	r	260	Phaeophyscia adiantola	4	0	0	4	1
65	3	sl	349	Phaeophyscia adiantola	3	0	2	1	0
65	3	s2	156	Phaeophyscia adiantola	2	2	1	1	1
65	3	sl	349	Physcia aipolia	0	0	0	1	0
65	3	sl	349	Physciella chloantha	0	0	1	0	0
65	3	a	49	Xanthomendoza fallax	3	1	3	0	0
65	3	r	260	Xanthomendoza fallax	4	4	6	2	8
65	3	sl	349	Xanthomendoza fallax	4	0	2	1	2
65	3	s2	156	Xanthomendoza fallax	7	12	7	4	5
65	4	r	270	Candelaria concolor	5	10	7	6	6
65	4	sl	352	Candelaria concolor	0	0	0	0	1
65	4	s2	165	Candelaria concolor	3	2	2	1	2
65	4	a	85	Hyperphyscia adglutinata	0	0	0	0	1
65	4	sl	352	Phaeophyscia adiantola	0	0	0	1	0
65	4	r	270	Physcia millegrana	1	0	0	0	0
65	4	r	270	Physciella chloantha	0	0	1	0	0
65	4	r	270	Xanthomendoza fallax	5	3	1	1	1
65	4	sl	352	Xanthomendoza fallax	1	1	0	0	1
65	4	s2	165	Xanthomendoza fallax	4	6	10	5	5
65	5	a	81	Candelaria concolor	1	2	5	1	2
65	5	r	265	Candelaria concolor	3	0	1	1	1
65	5	sl	348	Candelaria concolor	0	3	1	2	0
65	5	s2	165	Candelaria concolor	0	0	0	1	0
65	5	s2	165	Hyperphyscia adglutinata	2	0	0	0	0
65	5	s2	165	Phaeophyscia adiantola	1	0	0	1	0
65	5	s2	165	Phaeophyscia pussiloides	0	1	0	0	0

Site	Tree	Side	Degrees	Lichen	Q1	Q2	Q3	Q4	Q5
65	5	s2	165	Physcia millegrana	0	0	0	1	0
65	5	a	81	Physciella chloantha	3	2	0	5	3
65	5	r	265	Physciella chloantha	5	3	0	1	0
65	5	s1	348	Physciella chloantha	1	5	5	3	1
65	5	s2	165	Physciella chloantha	7	10	8	7	3
65	5	a	81	Xanthomendoza fallax	1	0	0	0	0
65	5	r	265	Xanthomendoza fallax	8	1	0	4	5
65	5	s1	348	Xanthomendoza fallax	1	2	4	6	5
65	5	s2	165	Xanthomendoza fallax	0	0	0	0	2
68	1	s2	78	Candelaria concolor	13	10	4	7	9
68	1	a	346	Phaeophyscia rubripulchra	0	0	0	0	4
68	1	a	346	Physconia deterosa	0	3	0	4	2
68	1	a	346	Xanthomendoza fallax	10	4	5	9	5
68	1	r	163	Xanthomendoza fallax	10	10	11	13	12
68	1	s1	253	Xanthomendoza fallax	11	14	11	12	14
68	2	s1	252	Hyperphyscia adglutinata	3	1	1	3	0
68	2	a	342	Parmelia sulcata	6	7	7	6	6
68	2	s1	252	Parmelia sulcata	0	1	0	0	0
68	2	s2	69	Parmelia sulcata	1	0	0	1	0
68	2	s2	69	Phaeophyscia adiastrata	0	0	1	0	0
68	2	s1	252	Phaeophyscia pussiloides	2	1	6	2	0
68	2	s2	69	Phaeophyscia pussiloides	2	0	0	0	0
68	2	s2	69	Phaeophyscia rubripulchra	0	0	0	0	4
68	2	a	342	Physcia millegrana	13	9	6	8	10
68	2	r	164	Physcia millegrana	18	18	20	17	18
68	2	s1	252	Physcia millegrana	13	9	7	11	17
68	2	s2	69	Physcia millegrana	11	19	9	14	10
68	2	s1	252	Xanthomendoza fallax	0	1	0	0	0
68	3	a	13	Physcia adscendens	0	0	1	0	0
68	3	a	13	Physcia millegrana	2	3	1	1	9
68	3	r	160	Physcia millegrana	10	17	11	13	10
68	3	s2	75	Physcia millegrana	8	14	9	7	6
68	4	r	171	Candelaria concolor	5	1	0	2	0
68	4	s1	255	Candelaria concolor	1	0	0	0	1
68	4	s2	74	Candelaria concolor	3	1	1	0	0
68	4	r	171	Hyperphyscia adglutinata	0	0	0	1	0
68	4	a	337	Parmelia sulcata	0	1	2	3	0
68	4	r	171	Phaeophyscia adiastrata	1	0	0	0	0
68	4	a	337	Phaeophyscia rubripulchra	2	0	0	0	0
68	4	r	171	Phaeophyscia rubripulchra	4	3	2	2	7
68	4	s2	74	Phaeophyscia rubripulchra	0	2	0	0	1
68	4	a	337	Physcia millegrana	4	7	7	6	12
68	4	r	171	Physcia millegrana	2	2	3	1	5
68	4	s1	255	Physcia millegrana	9	3	8	9	9
68	4	s2	74	Physcia millegrana	5	8	10	4	3
68	4	a	337	Physconia deterosa	8	4	5	4	3
68	4	r	171	Physconia deterosa	1	1	1	3	1
68	4	s1	255	Physconia deterosa	4	6	1	1	1
68	4	s2	74	Physconia deterosa	0	1	1	5	4
68	4	r	171	Xanthomendoza fallax	0	0	1	0	0
68	5	a	345	Flavoparmelia caperata	0	2	0	0	0
68	5	s1	251	Flavoparmelia caperata	0	0	2	0	0
68	5	s2	76	Flavoparmelia caperata	0	4	17	9	7
68	5	a	345	Parmelia sulcata	2	7	5	5	12
68	5	r	167	Parmelia sulcata	2	0	0	0	5

Site	Tree	Side	Degrees	Lichen	Q1	Q2	Q3	Q4	Q5
68	5	s2	76	Parmelia sulcata	2	4	0	1	0
68	5	s2	76	Phaeophyscia rubripulchra	0	0	0	2	1
68	5	a	345	Physcia millegrana	3	4	5	10	2
68	5	r	167	Physcia millegrana	4	3	4	3	2
68	5	s1	251	Physcia millegrana	16	16	9	14	17
68	5	s2	76	Physcia millegrana	9	8	0	1	0
68	5	a	345	Physconia deterosa	2	0	0	1	1
68	5	r	167	Physconia deterosa	4	7	7	4	4
68	5	s1	251	Physconia deterosa	1	4	5	1	3
68	5	s2	76	Physconia deterosa	1	1	0	3	0
69	1	s1	281	Xanthomendoza fallax	6	6	2	4	4
69	2	s1	278	Candelaria concolor	0	1	0	0	0
69	2	s1	278	Xanthomendoza fallax	0	2	2	0	0
69	3	a	2	Candelaria concolor	0	0	1	0	0
69	3	s1	277	Candelaria concolor	0	0	2	1	0
69	3	a	2	Hyperphyscia adglutinata	0	0	1	0	0
69	3	a	2	Physciella chloantha	1	0	0	0	0
69	3	s1	277	Physciella chloantha	2	1	0	0	0
69	3	a	2	Xanthomendoza fallax	3	1	3	3	2
69	3	s1	277	Xanthomendoza fallax	0	5	1	0	0
69	4	a	17	Candelaria concolor	0	2	0	0	0
69	4	a	17	Xanthomendoza fallax	0	1	0	0	0
69	4	s1	282	Xanthomendoza fallax	0	0	1	1	0
69	5	r	188	Candelaria concolor	0	2	0	3	0
69	5	s2	105	Candelaria concolor	1	0	0	1	0
69	5	s2	105	Physcia millegrana	1	0	0	0	0
69	5	s2	105	Physciella chloantha	0	1	0	0	0
69	5	r	188	Xanthomendoza fallax	0	2	2	1	0
69	5	s2	105	Xanthomendoza fallax	3	2	0	4	2
70	1	s2	81	Candelaria concolor	0	0	1	2	0
70	2	r	6	Candelaria concolor	0	0	1	1	2
70	2	s1	102	Candelaria concolor	0	1	0	0	1
70	2	s2	278	Candelaria concolor	2	1	1	0	1
70	2	r	6	Phaeophyscia rubripulchra	0	0	2	1	0
70	2	r	6	Physcia adscendens	0	0	0	0	1
70	2	s1	102	Physcia adscendens	0	0	1	0	0
70	2	s1	102	Physcia aipolia	0	0	0	1	0
70	2	s2	278	Physcia aipolia	0	0	0	2	0
70	2	r	6	Physciella chloantha	1	0	0	0	0
70	2	r	6	Xanthomendoza fallax	1	0	0	0	0
70	2	s1	102	Xanthomendoza fallax	4	4	3	0	0
70	4	r	189	Candelaria concolor	1	0	0	0	0
70	4	s2	92	Candelaria concolor	0	0	0	0	1
70	4	r	189	Physciella chloantha	0	0	0	1	0
70	4	r	189	Xanthomendoza fallax	0	0	1	0	0
70	4	s2	92	Xanthomendoza fallax	0	0	1	11	1
70	6	s2	280	Candelaria concolor	0	0	1	0	0
70	6	a	198	Physcia millegrana	14	7	3	6	8
70	6	r	11	Physcia millegrana	5	4	6	4	4
70	6	s1	98	Physcia millegrana	3	2	5	4	6
70	6	s2	280	Physcia millegrana	13	13	6	7	10
71	3	a	188	Candelaria concolor	3	2	1	0	3
71	3	s1	98	Candelaria concolor	3	5	8	2	5
71	3	s2	275	Candelaria concolor	0	0	1	1	0
71	3	r	5	Parmelia sulcata	0	0	0	0	1

Site	Tree	Side	Degrees	Lichen	Q1	Q2	Q3	Q4	Q5
71	3	s2	275	Phaeophyscia adiastrata	0	2	0	1	1
71	3	a	188	Physcia millegrana	0	1	0	0	0
71	3	s2	275	Physcia millegrana	1	1	0	1	0
71	4	s2	359	Phaeophyscia adiastrata	0	0	1	0	0
71	6	r	247	Candelaria concolor	3	1	1	2	7
71	6	sl	341	Candelaria concolor	0	2	1	3	3
71	6	s2	163	Candelaria concolor	1	3	4	4	3
71	6	r	247	Phaeophyscia adiastrata	1	0	0	2	2
71	6	sl	341	Phaeophyscia adiastrata	0	2	1	0	1
71	6	s2	163	Phaeophyscia adiastrata	1	0	0	0	2
71	6	r	247	Phaeophyscia pussiloides	0	0	0	2	0
71	6	sl	341	Phaeophyscia pussiloides	1	0	0	1	0
71	6	r	247	Phaeophyscia rubripulchra	1	1	4	0	0
71	6	sl	341	Phaeophyscia rubripulchra	0	0	0	1	1
71	6	s2	163	Phaeophyscia rubripulchra	1	2	0	1	1
71	6	a	71	Physcia millegrana	4	4	6	4	6
71	6	r	247	Physcia millegrana	3	2	0	0	0
71	6	sl	341	Physcia millegrana	4	3	1	0	1
71	6	s2	163	Physcia millegrana	5	5	5	6	4
71	6	r	247	Physciella chloantha	2	1	0	3	0
71	6	sl	341	Physciella chloantha	0	0	1	0	0
71	7	a	19	Candelaria concolor	0	1	1	0	0
71	7	r	201[192]	Candelaria concolor	0	0	1	1	1
71	7	sl	291	Candelaria concolor	0	1	1	0	1
71	7	s2	103	Candelaria concolor	1	0	0	0	0
71	7	r	201[192]	Hyperphyscia adglutinata	2	3	2	0	0
71	7	s2	103	Hyperphyscia adglutinata	2	3	5	3	4
71	7	r	201[192]	Phaeophyscia pussiloides	0	0	1	3	2
71	7	sl	291	Phaeophyscia pussiloides	1	0	0	0	0
71	7	sl	291	Phaeophyscia rubripulchra	1	0	0	1	2
71	7	sl	291	Physcia aipolia	0	0	0	1	0
71	7	r	201[192]	Physcia millegrana	7	5	4	3	3
71	7	sl	291	Physcia millegrana	0	0	1	3	0
71	7	sl	291	Physciella chloantha	0	1	0	0	0
71	7	a	19	Xanthomendoza fallax	1	0	0	0	0
71	7	sl	291	Xanthomendoza fallax	0	0	0	1	1
73	1	a	125	Candelaria concolor	0	0	0	0	1
73	1	r	308	Candelaria concolor	8	6	4	7	9
73	1	sl	39	Candelaria concolor	1	1	3	4	0
73	1	s2	225	Candelaria concolor	11	7	4	7	7
73	1	r	308	Hyperphyscia adglutinata	0	0	0	1	1
73	1	sl	39	Hyperphyscia adglutinata	9	3	0	0	0
73	1	r	308	Phaeophyscia adiastrata	2	2	3	5	3
73	1	sl	39	Phaeophyscia adiastrata	0	0	1	0	3
73	1	s2	225	Phaeophyscia adiastrata	3	4	6	8	6
73	1	r	308	Phaeophyscia rubripulchra	3	2	1	0	0
73	1	r	308	Physcia aipolia	1	0	0	0	0
73	1	s2	225	Physcia millegrana	0	0	0	1	0
73	1	r	308	Physcia stellaris	1	3	0	1	0
73	1	s2	225	Physcia stellaris	0	0	0	1	0
73	1	a	125	Physciella chloantha	0	0	1	1	0
73	1	r	308	Physciella chloantha	1	1	2	2	3
73	1	sl	39	Physciella chloantha	2	6	2	11	4
73	1	s2	225	Physciella chloantha	1	2	2	1	0
73	1	sl	39	Physciella melanchra	0	0	0	0	1

Site	Tree	Side	Degrees	Lichen	Q1	Q2	Q3	Q4	Q5
73	1	a	125	Xanthomendoza fallax	0	0	0	0	1
73	1	r	308	Xanthomendoza fallax	0	0	0	0	1
73	1	s1	39	Xanthomendoza fallax	0	0	0	0	0
73	1	s2	225	Xanthomendoza fallax	0	1	2	1	0
73	2	r	251	Xanthomendoza fallax	0	0	0	2	0
73	4	r2	208	Candelaria concolor	5	0	0	0	0
73	4	r2	208	Phaeophyscia adglutinata	3	0	0	0	0
73	4	r	138	Physciella chloantha	0	0	2	0	0
73	4	r2	208	Physciella chloantha	2	0	0	0	0
74	1	r	345	Candelaria concolor	2	5	4	3	6
74	1	s1	91	Candelaria concolor	0	1	1	2	0
74	1	s2	253	Candelaria concolor	1	0	2	1	2
74	1	s1	91	Hyperphyscia adglutinata	0	2	8	14	9
74	1	s1	91	Physciella chloantha	1	0	0	0	0
74	1	s2	253	Physciella chloantha	0	0	0	1	0
74	1	r	345	Xanthomendoza fallax	2	0	1	0	0
74	1	s1	91	Xanthomendoza fallax	0	1	0	1	2
74	1	s2	253	Xanthomendoza fallax	1	1	0	2	0
74	5	r	252	Physciella chloantha	1	0	1	2	0
74	5	s1	350	Physciella chloantha	0	4	0	0	2
74	6	r	254	Candelaria concolor	0	0	0	2	0
74	6	r	254	Physciella chloantha	0	0	0	1	1
74	6	s2	158	Physciella chloantha	0	0	1	1	2
74	6	r	254	Xanthomendoza fallax	0	0	0	0	1
74	6	s1	336	Xanthomendoza fallax	4	10	2	2	8
74	7	s1	343	Candelaria concolor	0	4	4	0	0
74	7	s1	343	Hyperphyscia adglutinata	0	0	0	0	1
74	7	r	256	Physcia stellaris	0	0	0	0	1
74	7	s1	343	Physcia stellaris	1	3	0	0	0
74	7	r	256	Xanthomendoza fallax	0	2	0	0	0
74	7	s1	343	Xanthomendoza fallax	0	0	0	1	0
75	1	E	90	Candelaria concolor	3	6	6	3	6
75	1	N	0	Candelaria concolor	1	1	0	0	1
75	1	S	180	Candelaria concolor	2	1	8	8	5
75	1	W	270	Candelaria concolor	5	5	1	8	6
75	1	E	90	Parmelia sulcata	1	1	3	0	0
75	1	N	0	Parmelia sulcata	3	3	3	2	6
75	1	E	90	Physcia adscendens	3	4	4	4	9
75	1	N	0	Physcia adscendens	4	6	11	12	7
75	1	S	180	Physcia adscendens	0	1	1	0	4
75	1	W	270	Physcia adscendens	2	3	4	2	5
75	1	N	0	Physcia aipolia	0	2	0	0	0
75	1	E	90	Physcia millegrana	6	4	4	0	0
75	1	S	180	Physcia millegrana	1	0	2	0	0
75	1	S	180	Physcia stellaris	0	0	1	1	1
75	1	E	90	Xanthomendoza fallax	0	0	0	0	1
75	1	S	180	Xanthomendoza fallax	8	7	3	2	2
75	2	E	90	Candelaria concolor	7	7	2	4	7
75	2	N	0	Candelaria concolor	9	10	10	7	7
75	2	S	180	Candelaria concolor	9	4	5	6	7
75	2	W	270	Candelaria concolor	7	8	11	14	12
75	2	E	90	Physcia adscendens	1	0	1	1	1
75	2	N	0	Physcia adscendens	0	3	2	0	1
75	2	W	270	Physcia adscendens	0	0	0	1	0
75	2	E	90	Physcia aipolia	0	0	0	0	1

Site	Tree	Side	Degrees	Lichen	Q1	Q2	Q3	Q4	Q5
75	2	E	90	Physcia millegrana	3	6	4	3	4
75	2	N	0	Physcia millegrana	5	4	5	8	3
75	2	S	180	Physcia millegrana	0	0	1	0	1
75	2	W	270	Physcia millegrana	0	1	1	2	0
75	2	E	90	Xanthomendoza fallax	1	0	0	0	0
75	3	E	90	Candelaria concolor	6	7	5	5	5
75	3	N	0	Candelaria concolor	0	3	6	7	7
75	3	S	180	Candelaria concolor	5	4	5	6	7
75	3	W	270	Candelaria concolor	4	6	10	8	8
75	3	S	180	Phaeophyscia pussiloides	1	1	1	1	0
75	3	E	90	Physcia adscendens	5	4	6	2	4
75	3	N	0	Physcia adscendens	12	7	7	6	6
75	3	W	270	Physcia adscendens	0	0	1	2	0
75	3	N	0	Physcia aipolia	0	1	1	0	0
75	3	W	270	Physcia aipolia	0	1	0	0	0
75	3	E	90	Physcia millegrana	5	4	4	2	3
75	3	N	0	Physcia millegrana	0	1	1	0	0
75	3	N	0	Physconia detera	0	0	0	1	0
75	4	N	0	Candelaria concolor	0	0	0	1	4
75	4	S	180	Candelaria concolor	12	10	6	6	10
75	4	W	270	Candelaria concolor	10	10	11	13	8
75	4	N	0	Parmelia sulcata	6	2	4	0	1
75	4	W	270	Phaeophyscia pussiloides	0	0	0	1	0
75	4	E	90	Physcia adscendens	8	6	4	6	6
75	4	N	0	Physcia adscendens	6	10	15	7	12
75	4	W	270	Physcia adscendens	3	6	7	1	4
75	4	E	90	Physcia aipolia	4	4	1	3	3
75	4	N	0	Physcia aipolia	0	1	0	0	0
75	4	S	180	Physcia aipolia	0	0	1	0	0
75	4	W	270	Physcia aipolia	1	2	0	1	1
75	4	E	90	Physcia millegrana	6	4	6	7	6
75	4	N	0	Physcia millegrana	5	5	0	7	0
75	4	S	180	Physcia millegrana	0	5	7	1	4
75	4	W	270	Physcia millegrana	0	0	1	0	1
75	4	S	180	Physcia stellaris	0	2	0	1	0
75	4	W	270	Physconia detera	0	0	0	1	4
75	4	W	270	Xanthomendoza fallax	1	0	0	0	0
75	5	E	90	Candelaria concolor	8	3	7	9	10
75	5	N	0	Candelaria concolor	6	7	8	5	8
75	5	S	180	Candelaria concolor	6	6	3	7	11
75	5	W	270	Candelaria concolor	11	4	10	9	12
75	5	E	90	Phaeophyscia adiaetola	0	0	1	0	0
75	5	S	180	Phaeophyscia adiaetola	0	0	1	0	0
75	5	E	90	Phaeophyscia rubripulchra	0	0	0	0	1
75	5	N	0	Phaeophyscia rubripulchra	2	6	4	12	0
75	5	W	270	Phaeophyscia rubripulchra	0	0	3	0	0
75	5	E	90	Physcia adscendens	0	0	3	0	2
75	5	N	0	Physcia adscendens	3	1	4	0	6
75	5	N	0	Physcia aipolia	0	1	0	0	0
75	5	S	180	Physcia aipolia	0	0	4	3	0
75	5	W	270	Physcia aipolia	0	0	1	0	0
75	5	N	0	Physcia millegrana	0	0	2	0	0
75	5	W	270	Physcia millegrana	0	0	0	1	0
75	5	E	90	Physcia stellaris	0	0	1	0	0
75	5	N	0	Physcia stellaris	1	0	0	0	0

Site	Tree	Side	Degrees	Lichen	Q1	Q2	Q3	Q4	Q5
75	5	N	0	Xanthomendoza fallax	0	0	0	0	2
75	5	S	180	Xanthomendoza fallax	0	0	0	0	1
76	1	E	90	Candelaria concolor	4	3	7	6	4
76	1	N	0	Candelaria concolor	2	1	0	0	0
76	1	E	90	Phaeophyscia adiastrata	0	0	2	1	1
76	1	N	0	Phaeophyscia rubripulchra	0	0	0	0	1
76	1	E	90	Physciella chloantha	1	0	0	0	0
76	1	N	0	Physciella chloantha	3	0	2	3	2
76	1	S	180	Physciella chloantha	2	0	0	0	0
76	2	W	270	Candelaria concolor	0	0	3	0	2
76	2	W	270	Phaeophyscia rubripulchra	0	0	0	0	1
76	2	E	90	Physcia millegrana	0	5	10	10	7
76	2	N	0	Physcia millegrana	7	3	5	4	10
76	2	S	180	Physcia millegrana	0	0	4	1	3
76	2	W	270	Physcia millegrana	2	0	0	0	1
76	3	E	90	Candelaria concolor	4	0	0	0	0
76	3	S	180	Candelaria concolor	0	0	1	0	1
76	3	W	270	Candelaria concolor	1	2	0	0	0
76	3	E	90	Phaeophyscia pussiloides	0	1	0	0	0
76	3	E	90	Physcia adscendens	1	0	0	2	1
76	3	E	90	Physcia millegrana	3	11	16	10	15
76	3	N	0	Physcia millegrana	2	4	2	2	0
76	3	S	180	Physcia millegrana	1	3	7	2	1
76	3	W	270	Physcia millegrana	1	0	0	1	0
76	3	S	180	Physciella chloantha	0	0	1	0	0
76	4	E	90	Candelaria concolor	1	0	0	0	0
76	4	N	0	Candelaria concolor	1	2	0	0	2
76	4	W	270	Candelaria concolor	2	3	0	0	0
76	4	W	270	Phaeophyscia rubripulchra	0	1	0	0	0
76	4	E	90	Physcia adscendens	5	5	6	8	12
76	4	N	0	Physcia adscendens	0	0	3	0	1
76	4	E	90	Physcia millegrana	2	3	4	3	2
76	4	N	0	Physcia millegrana	10	9	10	8	5
76	4	N	0	Physconia detera	0	1	2	1	0
76	5	E	90	Candelaria concolor	5	1	4	4	0
76	5	W	270	Candelaria concolor	1	1	0	0	2
76	5	W	270	Phaeophyscia adiastrata	0	0	0	1	0
76	5	W	270	Phaeophyscia rubripulchra	1	2	3	2	3
76	5	E	90	Physcia adscendens	0	1	0	0	2
76	5	E	90	Physcia millegrana	2	10	5	3	8
76	5	N	0	Physcia millegrana	11	7	6	15	12
76	5	S	180	Physcia millegrana	0	0	1	0	7
76	5	W	270	Physcia millegrana	7	4	6	6	4
77	1	r2	147	Candelaria concolor	3	8	3	7	3
77	1	s1	57	Candelaria concolor	2	1	1	5	2
77	1	s2	241	Candelaria concolor	15	17	11	9	7
77	1	r1	327	Phaeophyscia adiastrata	6	5	6	4	5
77	1	r2	147	Phaeophyscia adiastrata	0	0	1	0	0
77	1	s1	57	Phaeophyscia adiastrata	4	1	3	6	4
77	1	s2	241	Phaeophyscia adiastrata	1	2	0	4	0
77	1	s1	57	Physcia millegrana	0	0	0	1	0
77	1	s2	241	Physcia millegrana	0	0	1	0	2
77	1	r1	327	Physciella chloantha	0	0	4	4	3
77	1	s2	241	Physciella chloantha	0	0	0	0	1
77	1	s1	57	Physconia detera	1	0	0	0	0

Site	Tree	Side	Degrees	Lichen	Q1	Q2	Q3	Q4	Q5
77	1	s2	241	Physconia deterosa	0	0	1	4	4
77	1	r1	327	Xanthomendoza fallax	1	0	0	0	0
77	1	r2	147	Xanthomendoza fallax	3	1	1	0	0
77	2	s2	64	Candelaria concolor	3	0	0	0	0
77	2	s2	64	Phaeophyscia pussiloides	1	0	0	0	0
77	2	r1	103[146]	Physcia aipolia	0	0	0	0	2
77	2	s1	225	Physcia aipolia	0	3	0	0	0
77	2	s2	64	Physcia aipolia	0	0	0	0	3
77	2	r1	103[146]	Physcia millegrana	10	17	12	13	13
77	2	r2	318	Physcia millegrana	5	10	9	9	6
77	2	s1	225	Physcia millegrana	17	10	8	9	6
77	2	s2	64	Physcia millegrana	9	9	11	9	6
77	2	r1	103[146]	Physcia stellaris	0	0	0	0	1
77	2	s1	225	Physcia stellaris	0	1	0	0	0
77	3	r1	314	Parmelia sulcata	2	0	0	0	0
77	3	r1	314	Physcia adscendens	1	0	2	0	0
77	3	s1	53	Physcia adscendens	1	0	0	0	0
77	3	s2	232	Physcia aipolia	0	1	2	1	1
77	3	r1	314	Physcia millegrana	5	10	4	5	5
77	3	r2	141	Physcia millegrana	0	0	0	1	2
77	3	s1	53	Physcia millegrana	13	11	13	10	15
77	3	s2	232	Physcia millegrana	1	2	4	2	5
77	3	s1	53	Physcia stellaris	0	0	0	1	0
77	4	r1	335	Candelaria concolor	5	1	0	0	1
77	4	s1	58	Candelaria concolor	0	2	4	2	2
77	4	s2	243	Candelaria concolor	0	0	1	0	0
77	4	r1	335	Physcia adscendens	0	0	1	2	1
77	4	r1	335	Physcia aipolia	2	0	0	0	1
77	4	r2	153	Physcia millegrana	0	0	0	0	1
77	4	s1	58	Physcia millegrana	1	0	0	2	2
77	4	r1	335	Physcia stellaris	0	1	0	1	0
77	4	r2	153	Physcia stellaris	0	0	1	0	0
77	4	s1	58	Physcia stellaris	0	1	0	2	0
77	4	r1	335	Physciella chloantha	0	0	0	1	0
77	5	r2	158	Candelaria concolor	0	1	3	4	7
77	5	s1	65	Candelaria concolor	4	2	1	6	5
77	5	s2	251	Candelaria concolor	6	12	9	11	10
77	5	r1	331	Physcia adscendens	0	2	0	0	0
77	5	s1	65	Physcia adscendens	4	3	2	4	4
77	5	s1	65	Physcia millegrana	0	1	1	2	0
77	5	s2	251	Physcia stellaris	1	0	0	0	0
77	5	r1	331	Physciella chloantha	0	3	3	1	1
78	2	r	32	Physciella chloantha	0	0	1	1	0
78	2	s2	301	Physciella chloantha	1	0	0	0	0
78	3	r	27	Candelaria concolor	5	2	4	1	0
78	3	s1	120	Candelaria concolor	1	1	0	0	0
78	3	s2	305	Candelaria concolor	1	4	0	0	0
78	3	r	27	Physciella chloantha	2	1	2	0	0
78	3	s1	120	Physciella chloantha	0	0	0	1	0
78	3	s2	305	Physciella chloantha	2	1	2	1	0
78	3	s1	120	Xanthomendoza fallax	0	0	0	1	0
78	3	s2	305	Xanthomendoza fallax	0	0	1	0	0
78	4	r	199	Candelaria concolor	0	0	0	1	0
78	4	a	19	Physciella chloantha	0	0	0	0	1
78	4	r	199	Physciella chloantha	0	1	2	0	1

Site	Tree	Side	Degrees	Lichen	Q1	Q2	Q3	Q4	Q5
78	4	s1	287	Physciella chloantha	0	0	1	0	0
78	4	s2	111	Physciella chloantha	0	0	1	0	1
79	1	a	187	Candelaria concolor	3	2	4	1	2
79	1	r	358	Candelaria concolor	2	0	1	0	0
79	1	s1	95	Candelaria concolor	4	1	4	2	6
79	1	s2	274	Candelaria concolor	4	2	0	0	0
79	1	s1	95	Hyperphyscia adglutinata	1	1	0	0	0
79	1	r	358	Phaeophyscia adiaetola	0	0	0	0	4
79	1	s2	274	Phaeophyscia adiaetola	4	0	0	0	0
79	1	r	358	Phaeophyscia pussiloides	2	0	0	0	0
79	1	a	187	Physcia aipolia	0	3	1	1	0
79	1	s2	274	Physcia aipolia	1	0	0	0	0
79	1	a	187	Physciella chloantha	4	4	4	0	0
79	1	r	358	Physciella chloantha	2	7	5	9	5
79	1	s1	95	Physciella chloantha	6	3	3	6	2
79	1	s2	274	Physciella chloantha	3	3	0	0	0
79	1	a	187	Xanthomendoza fallax	1	1	0	0	0
79	1	r	358	Xanthomendoza fallax	0	1	3	1	5
79	1	s1	95	Xanthomendoza fallax	1	1	4	3	4
79	1	s2	274	Xanthomendoza fallax	5	2	0	0	0
79	2	a	182	Candelaria concolor	0	0	1	4	8
79	2	r	356	Candelaria concolor	1	1	1	9	8
79	2	s1	95	Candelaria concolor	1	1	0	1	0
79	2	s2	266	Candelaria concolor	1	1	3	4	0
79	2	a	182	Phaeophyscia adiaetola	2	0	2	4	1
79	2	r	356	Phaeophyscia adiaetola	9	12	4	7	4
79	2	s1	95	Phaeophyscia adiaetola	6	2	1	0	0
79	2	s2	266	Phaeophyscia adiaetola	3	0	2	0	1
79	2	a	182	Physcia aipolia	0	0	2	0	0
79	2	s1	95	Physcia stellaris	1	0	0	0	0
79	2	a	182	Physciella chloantha	7	6	2	5	4
79	2	s2	266	Physciella chloantha	5	2	4	2	5
79	2	a	182	Xanthomendoza fallax	10	12	9	4	5
79	2	r	356	Xanthomendoza fallax	7	4	4	2	3
79	2	s1	95	Xanthomendoza fallax	9	11	6	0	0
79	2	s2	266	Xanthomendoza fallax	4	6	8	13	9
79	3	a	5	Candelaria concolor	2	3	0	1	1
79	3	r	175	Candelaria concolor	8	2	3	5	7
79	3	s1	274	Candelaria concolor	1	1	1	4	5
79	3	s2	90	Candelaria concolor	1	1	2	1	2
79	3	r	175	Hyperphyscia adglutinata	0	0	0	0	2
79	3	s1	274	Physcia aipolia	0	2	2	2	1
79	3	s2	90	Physcia aipolia	0	1	0	0	0
79	3	r	175	Physciella chloantha	0	3	3	2	1
79	3	s1	274	Physciella chloantha	3	0	2	0	0
79	3	s2	90	Physciella chloantha	0	1	0	0	0
79	3	r	175	Xanthomendoza fallax	0	0	1	0	0
79	4	a	353	Candelaria concolor	0	0	1	2	0
79	4	s2	84	Candelaria concolor	2	6	3	3	2
79	4	a	353	Phaeophyscia adiaetola	0	0	0	0	1
79	4	s2	84	Phaeophyscia adiaetola	3	1	3	1	0
79	4	a	353	Physcia aipolia	1	0	0	0	0
79	4	r	170	Physcia aipolia	1	0	0	0	0
79	4	s1	257	Physcia aipolia	1	0	0	0	0
79	4	s2	84	Physcia aipolia	0	0	0	0	2

Site	Tree	Side	Degrees	Lichen	Q1	Q2	Q3	Q4	Q5
79	4	s2	84	Physcia stellaris	1	1	0	0	0
79	4	r	170	Physciella chloantha	0	0	1	3	1
79	4	s1	257	Physciella chloantha	3	7	14	11	18
79	4	s2	84	Physciella chloantha	0	0	0	2	0
79	4	a	353	Xanthomendoza fallax	8	9	12	6	12
79	4	r	170	Xanthomendoza fallax	4	7	6	3	0
79	4	s1	257	Xanthomendoza fallax	3	6	3	7	7
79	4	s2	84	Xanthomendoza fallax	0	0	0	1	0
79	5	a	359	Candelaria concolor	0	0	1	0	0
79	5	s1	264	Physcia adscendens	0	0	0	1	0
79	5	a	359	Physcia aipolia	1	0	1	0	0
79	5	s1	264	Physcia aipolia	0	0	0	1	0
79	5	r	171	Physciella chloantha	0	0	1	3	1
79	5	s1	264	Physciella chloantha	0	0	2	1	0
79	5	s2	82	Physciella chloantha	0	0	0	1	0
79	5	a	359	Xanthomendoza fallax	0	0	1	0	0
79	5	r	171	Xanthomendoza fallax	0	1	3	1	3
79	5	s1	264	Xanthomendoza fallax	14	11	15	14	13
79	5	s2	82	Xanthomendoza fallax	0	0	0	0	1
83	1	a	283	Candelaria concolor	0	2	1	1	0
83	1	r	85	Candelaria concolor	0	0	3	1	6
83	1	s1	143	Candelaria concolor	0	0	0	0	1
83	1	a	283	Physciella chloantha	12	14	17	9	13
83	1	r	85	Physciella chloantha	13	11	8	17	7
83	1	s1	143	Physciella chloantha	13	13	10	10	10
83	1	s2	357	Physciella chloantha	0	0	0	0	1
83	1	a	283	Xanthomendoza fallax	0	0	0	1	0
83	1	r	85	Xanthomendoza fallax	2	0	0	0	0
83	1	s1	143	Xanthomendoza fallax	0	1	1	0	5
83	2	a	89	Candelaria concolor	1	0	0	12	4
83	2	s1	7	Candelaria concolor	4	2	0	0	0
83	2	s1	7	Flavoparmelia caperata	0	1	0	0	0
83	2	a	89	Physcia stellaris	0	1	0	0	1
83	2	r	269	Physcia stellaris	0	2	0	2	2
83	2	s1	7	Physcia stellaris	1	0	1	0	1
83	2	s2	179	Physcia stellaris	0	2	1	2	4
83	2	a	89	Physciella chloantha	11	12	11	7	12
83	2	r	269	Physciella chloantha	19	14	15	17	13
83	2	s1	7	Physciella chloantha	10	10	12	12	15
83	2	s2	179	Physciella chloantha	13	13	15	9	10
83	2	a	89	Xanthomendoza fallax	8	6	9	1	3
83	2	r	269	Xanthomendoza fallax	1	3	4	1	5
83	2	s1	7	Xanthomendoza fallax	5	7	7	8	4
83	2	s2	179	Xanthomendoza fallax	7	5	4	9	6
83	3	a	87	Physciella chloantha	8	8	11	9	9
83	3	r	271	Physciella chloantha	10	10	7	5	10
83	3	s1	349	Physciella chloantha	8	15	13	6	11
83	3	s2	175	Physciella chloantha	1	0	0	0	0
83	3	a	87	Xanthomendoza fallax	0	1	0	0	1
83	3	r	271	Xanthomendoza fallax	1	1	0	0	0
83	4	r	263	Candelaria concolor	1	0	0	0	0
83	4	s2	169	Candelaria concolor	1	0	0	0	0
83	4	a	83	Physciella chloantha	10	9	15	11	8
83	4	r	263	Physciella chloantha	14	14	12	16	16
83	4	s1	355	Physciella chloantha	18	18	18	16	17

Site	Tree	Side	Degrees	Lichen	Q1	Q2	Q3	Q4	Q5
83	4	s2	169	Physciella chloantha	6	8	4	7	4
83	5	a	270	Candelaria concolor	10	3	6	4	9
83	5	r	87	Candelaria concolor	0	0	0	1	2
83	5	s1	169	Candelaria concolor	4	1	1	0	4
83	5	r	87	Phaeophyscia adiastrata	2	0	0	0	0
83	5	a	270	Physciella chloantha	0	3	2	2	1
83	5	r	87	Physciella chloantha	3	2	4	5	7
83	5	s1	169	Physciella chloantha	0	3	4	5	4
83	5	s2	355	Physciella chloantha	7	6	6	8	4
83	5	a	270	Xanthomendoza fallax	7	7	6	2	5
83	5	r	87	Xanthomendoza fallax	10	14	8	11	7
83	5	s1	169	Xanthomendoza fallax	6	11	10	11	5
85	1	a	171	Candelaria concolor	6	0	1	3	2
85	1	r	356	Candelaria concolor	4	2	0	0	0
85	1	s1	85	Candelaria concolor	1	3	2	4	4
85	1	s2	256	Candelaria concolor	0	1	1	0	0
85	1	a	171	Physcia stellaris	0	0	1	0	0
85	1	a	171	Physciella chloantha	2	2	1	0	1
85	1	r	356	Physciella chloantha	4	0	3	2	0
85	1	s1	85	Physciella chloantha	1	0	0	1	0
85	1	s2	256	Physciella chloantha	6	3	3	6	9
85	2	a	349	Candelaria concolor	1	0	0	1	0
85	2	s1	252	Candelaria concolor	0	0	2	1	0
85	2	s2	82	Candelaria concolor	1	0	5	6	5
85	2	r	168	Physciella chloantha	0	0	0	0	1
85	2	s1	252	Physciella chloantha	0	0	1	1	0
85	3	r	165	Candelaria concolor	5	1	2	4	3
85	3	s2	85	Candelaria concolor	4	2	2	2	1
85	3	a	356	Physciella chloantha	0	4	2	1	1
85	3	s1	269	Physciella chloantha	2	3	6	6	5
85	3	s2	85	Physciella chloantha	0	0	0	1	2
85	3	s2	85	Physconia detersa	1	1	0	0	0
85	3	a	356	Xanthomendoza fallax	0	0	0	0	1
85	3	s2	85	Xanthomendoza fallax	0	0	1	0	1
85	4	a	347	Candelaria concolor	13	15	14	10	15
85	4	r	168	Candelaria concolor	4	5	4	3	4
85	4	s1	259	Candelaria concolor	1	0	0	1	1
85	4	s2	77	Candelaria concolor	10	10	11	5	9
85	4	s2	77	Phaeophyscia adiastrata	0	0	0	1	0
85	4	a	347	Physcia adscendens	0	2	0	0	1
85	4	r	168	Physcia adscendens	0	0	0	1	1
85	4	s2	77	Physcia adscendens	3	0	3	1	2
85	4	a	347	Physcia millegrana	3	0	0	0	0
85	4	s2	77	Physcia stellaris	0	3	3	0	0
85	4	r	168	Physciella chloantha	6	5	4	6	3
85	4	s1	259	Physciella chloantha	9	11	7	7	5
85	4	r	168	Physconia detersa	1	2	1	1	1
85	4	s1	259	Physconia detersa	0	0	1	0	0
85	4	s2	77	Physconia detersa	1	1	1	1	0
85	4	a	347	Xanthomendoza fallax	0	0	0	0	1
85	4	r	168	Xanthomendoza fallax	2	0	1	1	2
85	4	s2	77	Xanthomendoza fallax	0	0	0	1	0
85	5	a	351	Candelaria concolor	3	6	2	4	6
85	5	r	161	Candelaria concolor	2	2	2	5	0
85	5	s1	279	Candelaria concolor	2	2	3	2	4

Site	Tree	Side	Degrees	Lichen	Q1	Q2	Q3	Q4	Q5
85	5	s2	81	Candelaria concolor	4	2	2	5	2
85	5	r	161	Physciella chloantha	0	1	2	1	0
85	5	s1	279	Physciella chloantha	2	3	2	0	3
85	5	s2	81	Physciella chloantha	2	0	0	1	1
85	5	a	351	Xanthomendoza fallax	1	0	0	0	0
85	5	r	161	Xanthomendoza fallax	0	1	1	0	0
85	5	s1	279	Xanthomendoza fallax	1	0	0	0	1
85	5	s2	81	Xanthomendoza fallax	0	1	0	0	1
86	1	s2	93	Physcia aipolia	0	0	0	1	0
86	1	r	186	Xanthomendoza fallax	0	1	0	0	0
86	2	r	183	Physcia aipolia	0	0	1	0	0
86	2	a	3	Physciella chloantha	0	0	0	2	1
86	2	r	183	Physciella chloantha	0	0	1	1	1
86	2	s2	84	Physciella chloantha	2	0	0	1	0
86	3	a	2	Physciella chloantha	1	0	0	0	0
86	3	s1	271	Physciella chloantha	1	0	0	0	0
86	4	r	3	Candelaria concolor	0	1	0	0	0
86	4	s2	273	Xanthomendoza fallax	0	1	0	0	0
86	5	s2	28	Physcia stellaris	0	0	1	0	0
89	1	r	340	Candelaria concolor	0	0	0	0	1
89	1	r	340	Physciella chloantha	2	0	2	1	0
89	2	s1	77	Candelaria concolor	0	1	1	0	3
89	2	s2	263	Candelaria concolor	0	0	0	0	1
89	2	a	158	Physciella chloantha	0	0	0	0	1
89	2	r	346	Physciella chloantha	1	1	1	2	0
89	2	s1	77	Physciella chloantha	0	0	3	0	2
89	2	s2	263	Physciella chloantha	0	0	0	0	1
89	2	s1	77	Xanthomendoza fallax	0	0	0	0	1
89	3	s1	251	Candelaria concolor	1	1	1	1	0
89	3	s2	76	Candelaria concolor	0	0	1	0	0
89	3	s1	251	Hyperphyscia adglutinata	0	1	0	0	0
89	3	s1	251	Phaeophyscia adiaetola	1	0	0	0	0
89	3	s1	251	Physciella chloantha	2	1	1	1	0
89	4	r	345	Candelaria concolor	0	0	2	0	0
89	4	s2	249	Candelaria concolor	0	0	1	0	0
89	4	r	345	Physcia aipolia	0	0	0	1	1
89	4	s2	249	Physcia aipolia	0	0	0	1	0
89	4	r	345	Physciella chloantha	0	0	2	3	1
89	4	s1	77	Physciella chloantha	0	0	0	1	0
89	4	s2	249	Physciella chloantha	2	1	1	2	1
89	4	s2	249	Xanthomendoza fallax	0	1	1	0	0
89	5	r	343	Physciella chloantha	1	0	0	0	0
89	5	s2	256	Physciella chloantha	0	1	0	0	0
90	1	r	336	Candelaria concolor	0	0	4	0	0
90	1	s2	254	Candelaria concolor	0	1	1	1	0
90	1	r	336	Phaeophyscia adiaetola	0	0	0	6	2
90	1	r	336	Physcia adscendens	3	1	0	0	0
90	1	s1	73	Physcia adscendens	2	1	1	1	1
90	1	s2	254	Physcia adscendens	0	0	1	0	1
90	1	a	162	Physcia millegrana	1	4	0	0	0
90	1	s1	73	Physcia millegrana	7	7	4	4	6
90	1	s2	254	Physcia millegrana	3	0	0	0	0
90	1	r	336	Physconia detera	1	0	0	0	1
90	2	a	158	Candelaria concolor	8	10	10	8	9
90	2	r	337	Candelaria concolor	1	1	0	0	0

Site	Tree	Side	Degrees	Lichen	Q1	Q2	Q3	Q4	Q5
90	2	s1	71	Candelaria concolor	1	0	0	0	0
90	2	s2	252	Candelaria concolor	4	6	2	5	7
90	2	r	337	Phaeophyscia rubripulchra	3	4	2	0	1
90	2	s2	252	Phaeophyscia rubripulchra	2	0	0	0	0
90	2	s1	71	Physcia adscendens	1	0	0	1	1
90	2	s1	71	Physcia aipolia	0	1	0	0	0
90	2	s1	71	Physcia millegrana	11	6	5	2	3
90	2	s2	252	Physcia millegrana	0	0	0	0	1
90	2	r	337	Physconia detera	0	3	1	0	1
90	4	a	351	Phaeophyscia rubripulchra	1	1	1	0	0
90	4	a	351	Physcia aipolia	0	0	1	0	0
90	4	a	351	Physcia millegrana	1	2	0	0	0
90	4	r	163	Physciella chloantha	1	1	0	0	0
90	4	s2	73	Physciella chloantha	1	0	0	0	3
90	5	a	261	Candelaria concolor	0	0	0	0	1
90	5	s2	343	Candelaria concolor	0	0	1	0	0
90	5	s2	343	Phaeophyscia rubripulchra	0	0	1	1	0
90	5	a	261	Physcia millegrana	0	0	0	0	1
90	5	r	74	Physcia millegrana	0	1	0	0	0
90	5	s2	343	Physcia millegrana	0	0	1	0	0
90	5	a	261	Physconia detera	0	0	2	0	1
90	5	a	261	Xanthomendoza fallax	0	0	0	0	1
90	5	s2	343	Xanthomendoza fallax	0	0	0	1	0
91	1	a	42	Candelaria concolor	0	2	0	0	1
91	1	r	226	Candelaria concolor	9	10	2	4	4
91	1	s1	315	Candelaria concolor	10	10	10	14	9
91	1	s2	135	Candelaria concolor	0	8	6	3	5
91	1	s1	315	Phaeophyscia rubripulchra	0	4	2	1	1
91	1	a	42	Physcia aipolia	1	0	0	0	0
91	1	r	226	Physcia aipolia	1	0	0	0	0
91	1	s2	135	Physcia aipolia	0	0	0	1	0
91	1	a	42	Physcia millegrana	6	6	7	11	7
91	1	r	226	Physcia millegrana	0	1	3	0	1
91	1	s1	315	Physcia millegrana	2	1	1	0	0
91	1	s2	135	Physcia millegrana	5	5	3	4	2
91	1	r	226	Physcia stellaris	0	2	0	1	0
91	2	s1	226	Candelaria concolor	5	6	5	4	6
91	2	r	113[136]	Hyperphyscia adglutinata	1	0	0	0	0
91	2	a	325	Parmelia sulcata	1	1	0	0	0
91	2	s2	49	Parmelia sulcata	4	1	0	0	1
91	2	a	325	Physcia adscendens	0	0	3	2	3
91	2	a	325	Physcia aipolia	0	0	1	2	2
91	2	s1	226	Physcia aipolia	2	5	1	2	8
91	2	a	325	Physcia millegrana	0	1	2	1	0
91	2	r	113[136]	Physcia millegrana	1	0	2	2	3
91	2	s1	226	Physcia millegrana	3	0	2	2	0
91	2	s2	49	Physcia millegrana	0	3	0	0	0
91	3	s1	229	Candelaria concolor	3	2	0	0	0
91	3	a	319	Parmelia sulcata	0	4	0	0	1
91	3	r	142	Parmelia sulcata	0	3	0	0	0
91	3	s2	49	Parmelia sulcata	3	1	3	3	0
91	3	a	319	Physcia adscendens	1	1	1	0	1
91	3	r	142	Physcia adscendens	1	1	4	0	1
91	3	s2	49	Physcia adscendens	8	3	2	3	10
91	3	a	319	Physcia aipolia	2	0	0	0	0

Site	Tree	Side	Degrees	Lichen	Q1	Q2	Q3	Q4	Q5
91	3	r	142	Physcia aipolia	2	6	0	7	6
91	3	s1	229	Physcia aipolia	12	9	5	3	5
91	3	r	142	Physcia millegrana	2	1	1	0	0
91	3	s1	229	Physcia millegrana	2	0	0	0	0
91	3	a	319	Xanthomendoza fallax	1	0	0	0	0
91	3	r	142	Xanthomendoza fallax	1	0	0	0	0
91	4	a	322	Candelaria concolor	3	6	4	6	1
91	4	s1	231	Parmelia sulcata	0	0	0	2	0
91	4	s2	42	Parmelia sulcata	2	2	1	0	3
91	4	a	322	Physcia adscendens	1	1	0	0	0
91	4	r	140	Physcia adscendens	1	1	1	0	1
91	4	s1	231	Physcia adscendens	3	3	6	3	2
91	4	s2	42	Physcia adscendens	4	0	0	0	0
91	4	a	322	Physcia aipolia	6	5	5	6	5
91	4	r	140	Physcia aipolia	0	1	0	3	2
91	4	s1	231	Physcia aipolia	2	1	2	2	3
91	4	s2	42	Physcia aipolia	1	5	2	4	1
91	4	r	140	Physcia millegrana	2	2	2	3	0
91	4	s1	231	Physcia millegrana	1	1	1	0	0
91	4	s2	42	Physcia millegrana	0	1	0	0	0
91	4	a	322	Physciella chloantha	0	2	0	0	0
91	4	a	322	Xanthomendoza fallax	6	1	2	0	0
91	4	s2	42	Xanthomendoza fallax	0	1	0	0	0
91	5	s2	238	Candelaria concolor	2	2	2	0	1
91	5	s1	56	Flavoparmelia caperata	0	0	0	4	0
91	5	a	140	Parmelia sulcata	1	1	0	0	0
91	5	s1	56	Parmelia sulcata	15	14	20	11	15
91	5	r	325	Phaeophyscia rubripulchra	0	1	1	0	1
91	5	s2	238	Phaeophyscia rubripulchra	0	0	0	2	0
91	5	a	140	Physcia millegrana	2	0	0	0	0
91	5	s1	56	Physcia millegrana	0	0	0	1	0
91	5	s2	238	Physcia millegrana	0	0	0	1	0
91	5	s2	238	Physciella chloantha	1	0	0	0	0
92	1	a	266	Candelaria concolor	0	0	0	0	1
92	1	s2	354	Phaeophyscia rubripulchra	0	0	0	1	0
92	1	s2	354	Physcia adscendens	1	0	0	0	0
92	1	a	266	Physcia millegrana	7	2	4	4	1
92	1	r	79	Physcia millegrana	2	2	5	5	1
92	1	s1	173	Physcia millegrana	5	9	5	7	11
92	1	s2	354	Physcia millegrana	3	5	4	6	6
92	1	a	266	Physconia detersa	1	1	3	1	0
92	2	s2	345	Flavoparmelia caperata	0	1	0	0	0
92	2	r	75	Parmelia sulcata	1	0	0	0	0
92	2	s2	345	Parmelia sulcata	0	0	0	1	0
92	2	s2	345	Physcia adscendens	2	0	0	0	0
92	2	a	260	Physcia millegrana	13	12	11	13	8
92	2	r	75	Physcia millegrana	10	9	8	3	4
92	2	s1	173	Physcia millegrana	5	2	2	3	3
92	2	s2	345	Physcia millegrana	1	2	5	4	2
92	2	s1	173	Physconia detersa	0	0	1	0	0
92	2	s2	345	Physconia detersa	1	2	1	0	0
92	3	r	255	Candelaria concolor	1	1	3	1	2
92	3	s2	166	Candelaria concolor	1	2	1	1	1
92	3	a	83	Parmelia sulcata	6	7	0	1	4
92	3	s1	351	Parmelia sulcata	9	3	1	3	5

Site	Tree	Side	Degrees	Lichen	Q1	Q2	Q3	Q4	Q5
92	3	a	83	Phaeophyscia rubripulchra	0	2	1	0	1
92	3	r	255	Phaeophyscia rubripulchra	1	2	2	1	1
92	3	s1	351	Phaeophyscia rubripulchra	0	0	0	0	2
92	3	s2	166	Phaeophyscia rubripulchra	0	0	1	1	0
92	3	a	83	Physcia adscendens	3	3	12	10	1
92	3	r	255	Physcia adscendens	1	0	1	1	1
92	3	s1	351	Physcia adscendens	3	6	3	4	1
92	3	s2	166	Physcia adscendens	1	1	0	0	0
92	3	s2	166	Physcia aipolia	1	2	0	0	0
92	3	a	83	Physcia millegrana	3	1	2	4	1
92	3	r	255	Physcia millegrana	1	0	1	0	0
92	3	s1	351	Physcia millegrana	0	0	1	0	0
92	3	s2	166	Physcia millegrana	6	6	8	6	1
92	3	s2	166	Physcia stellaris	0	0	0	2	3
92	3	a	83	Physconia detera	0	2	0	0	1
92	3	r	255	Physconia detera	1	3	0	2	1
92	3	s1	351	Physconia detera	0	1	2	1	0
92	3	s2	166	Physconia detera	0	0	0	2	3
92	4	s2	351	Flavoparmelia caperata	0	0	0	9	4
92	4	s2	351	Parmelia sulcata	2	1	1	0	0
92	4	r	85	Physcia adscendens	0	0	0	1	1
92	4	s1	173	Physcia adscendens	0	0	1	0	0
92	4	a	257	Physcia millegrana	1	0	0	0	0
92	4	r	85	Physcia millegrana	0	0	0	1	8
92	4	s1	173	Physcia millegrana	1	1	0	0	0
92	4	s2	351	Physcia millegrana	6	13	9	3	0
92	4	s1	173	Physconia detera	0	1	1	0	0
92	5	a	285	Candelaria concolor	5	2	0	2	1
92	5	s1	176	Candelaria concolor	4	2	1	0	0
92	5	a	285	Physcia adscendens	0	1	0	0	3
92	5	r	83	Physcia adscendens	8	6	2	5	3
92	5	s1	176	Physcia adscendens	0	3	1	0	2
92	5	s2	344	Physcia adscendens	12	11	3	5	10
92	5	a	285	Physconia detera	1	0	0	0	0
92	5	r	83	Physconia detera	0	5	0	0	0
92	5	s1	176	Physconia detera	3	0	1	0	0
92	5	s2	344	Physconia detera	0	1	0	0	0
93	1	a	348	Candelaria concolor	3	3	2	5	2
93	1	r	160[149]	Candelaria concolor	1	1	1	2	0
93	1	s1	265	Candelaria concolor	3	5	6	6	4
93	1	s2	79	Candelaria concolor	1	0	3	2	6
93	1	r	160[149]	Phaeophyscia adiastrata	7	5	3	5	9
93	1	s1	265	Phaeophyscia adiastrata	0	0	0	1	1
93	1	s2	79	Phaeophyscia adiastrata	2	3	1	5	2
93	1	a	348	Physcia adscendens	9	9	10	10	13
93	1	s1	265	Physcia adscendens	3	2	6	2	3
93	1	s2	79	Physcia adscendens	5	4	4	2	1
93	1	a	348	Physcia aipolia	2	0	0	0	0
93	1	s1	265	Physcia aipolia	2	2	0	2	4
93	1	s2	79	Physcia aipolia	1	0	0	0	0
93	1	a	348	Physcia millegrana	0	0	0	1	0
93	1	r	160[149]	Physconia detera	2	0	0	0	0
93	1	s1	265	Physconia detera	1	0	0	2	0
93	1	s2	79	Physconia detera	1	0	0	0	0
93	1	s1	265	Xanthomendoza fallax	4	4	0	0	0

Site	Tree	Side	Degrees	Lichen	Q1	Q2	Q3	Q4	Q5
93	1	s2	79	Xanthomendoza fallax	1	1	0	0	0
93	2	a	349	Candelaria concolor	4	4	3	9	9
93	2	r	162	Candelaria concolor	4	0	2	0	4
93	2	s1	253	Candelaria concolor	3	3	1	2	3
93	2	s2	77	Candelaria concolor	11	15	7	11	10
93	2	r	162	Phaeophyscia adiantola	4	2	2	2	1
93	2	s1	253	Phaeophyscia adiantola	1	5	0	1	2
93	2	s2	77	Phaeophyscia adiantola	0	1	1	1	2
93	2	a	349	Physcia adscendens	10	11	13	11	2
93	2	r	162	Physcia adscendens	5	2	2	2	2
93	2	s1	253	Physcia adscendens	4	4	1	0	0
93	2	s2	77	Physcia adscendens	2	2	1	1	2
93	2	r	162	Physcia aipolia	0	1	0	0	0
93	2	s2	77	Physcia aipolia	0	0	1	0	0
93	2	s1	253	Physconia deterosa	1	1	10	15	9
93	2	s2	77	Physconia deterosa	1	0	0	0	2
93	2	r	162	Xanthomendoza fallax	1	0	0	0	0
93	3	a	343	Candelaria concolor	0	2	2	4	1
93	3	r	180	Candelaria concolor	0	0	0	1	1
93	3	s1	254	Candelaria concolor	3	3	1	4	1
93	3	s2	71	Candelaria concolor	0	2	1	2	2
93	3	r	180	Phaeophyscia adiantola	6	8	4	5	7
93	3	s1	254	Phaeophyscia adiantola	0	3	1	1	3
93	3	s2	71	Phaeophyscia adiantola	0	1	1	1	2
93	3	a	343	Phaeophyscia rubripulchra	0	2	1	0	0
93	3	a	343	Physcia adscendens	0	1	0	0	0
93	3	s1	254	Physcia adscendens	0	0	0	0	1
93	3	s2	71	Physcia adscendens	0	0	1	0	0
93	3	a	343	Physcia aipolia	0	0	1	0	0
93	3	a	343	Physconia deterosa	1	1	0	2	5
93	3	r	180	Physconia deterosa	1	1	1	0	0
93	3	s1	254	Physconia deterosa	2	1	0	0	0
93	3	s2	71	Physconia deterosa	1	0	0	0	0
93	4	a	338	Candelaria concolor	2	2	0	1	3
93	4	r	168	Candelaria concolor	1	1	4	1	5
93	4	s1	268	Candelaria concolor	2	2	6	5	10
93	4	s2	79	Candelaria concolor	3	4	5	3	5
93	4	a	338	Phaeophyscia adiantola	1	3	5	1	0
93	4	s1	268	Phaeophyscia adiantola	1	0	0	0	0
93	4	s2	79	Phaeophyscia adiantola	1	0	1	0	0
93	4	a	338	Physcia adscendens	3	5	5	4	8
93	4	s1	268	Physcia adscendens	2	10	4	7	5
93	4	s2	79	Physcia adscendens	0	0	0	0	1
93	4	a	338	Xanthomendoza fallax	0	1	1	0	0
93	4	r	168	Xanthomendoza fallax	5	2	2	0	1
93	4	s1	268	Xanthomendoza fallax	0	0	0	0	1
93	4	s2	79	Xanthomendoza fallax	0	0	2	0	1
93	5	a	342	Candelaria concolor	0	1	0	0	2
93	5	r	168	Candelaria concolor	2	0	1	2	5
93	5	s1	273	Candelaria concolor	3	1	3	1	0
93	5	s2	81	Candelaria concolor	0	1	0	0	0
93	5	r	168	Phaeophyscia adiantola	6	5	2	2	2
93	5	s1	273	Phaeophyscia adiantola	1	0	0	0	0
93	5	a	342	Physcia adscendens	4	6	1	6	3
93	5	s1	273	Physcia adscendens	1	1	1	1	3

Site	Tree	Side	Degrees	Lichen	Q1	Q2	Q3	Q4	Q5
93	5	s2	81	Physcia adscendens	0	1	2	1	0
93	5	s1	273	Physcia aipolia	0	0	0	0	1
93	5	a	342	Physconia detera	0	0	1	2	0
93	5	r	168	Physconia detera	0	0	0	1	0
93	5	s2	81	Physconia detera	18	12	15	9	13
93	5	a	342	Xanthomendoza fallax	0	0	0	0	1
93	5	r	168	Xanthomendoza fallax	1	1	2	2	0
93	5	s1	273	Xanthomendoza fallax	3	2	3	1	1
95	1	r	173	Candelaria concolor	1	1	1	1	1
95	1	r	173	Physcia aipolia	0	0	2	0	0
95	1	r	173	Physcia millegrana	0	0	0	0	1
95	1	r	173	Physciella chloantha	0	2	1	2	4
95	1	s1	270	Physciella chloantha	0	0	0	0	1
95	1	r	173	Xanthomendoza fallax	2	4	2	6	7
95	1	s1	270	Xanthomendoza fallax	0	1	0	0	1
95	1	s2	83	Xanthomendoza fallax	0	2	0	0	2
95	2	a	357	Candelaria concolor	3	2	1	0	3
95	2	r	178	Candelaria concolor	0	0	0	1	0
95	2	s1	268	Candelaria concolor	4	1	0	0	0
95	2	r	178	Phaeophyscia pussiloides	3	4	5	4	0
95	2	a	357	Physcia aipolia	0	0	1	0	0
95	2	s1	268	Physcia aipolia	0	1	0	0	0
95	2	s2	81	Physcia aipolia	0	1	0	0	1
95	2	r	178	Physcia stellaris	6	7	5	8	6
95	2	a	357	Physciella chloantha	3	4	4	3	3
95	2	r	178	Physciella chloantha	1	2	0	1	4
95	2	s1	268	Physciella chloantha	4	2	2	3	2
95	2	s2	81	Physciella chloantha	2	2	2	3	0
95	2	a	357	Xanthomendoza fallax	4	1	4	3	3
95	2	r	178	Xanthomendoza fallax	8	4	9	5	4
95	2	s1	268	Xanthomendoza fallax	1	4	6	6	4
95	2	s2	81	Xanthomendoza fallax	11	12	18	13	13
95	3	a	345	Candelaria concolor	0	0	0	2	7
95	3	r	168	Candelaria concolor	1	2	1	0	0
95	3	s1	261	Candelaria concolor	1	0	2	0	3
95	3	s2	85	Candelaria concolor	0	1	1	3	3
95	3	a	345	Hyperphyscia adglutinata	0	1	0	0	0
95	3	s2	85	Hyperphyscia adglutinata	0	0	0	1	0
95	3	s2	85	Phaeophyscia pussiloides	1	0	0	0	0
95	3	a	345	Physcia aipolia	0	0	0	1	1
95	3	r	168	Physcia aipolia	2	3	0	7	2
95	3	s1	261	Physcia aipolia	2	3	2	2	4
95	3	s2	85	Physcia aipolia	3	2	0	1	0
95	3	r	168	Physcia millegrana	1	0	0	0	0
95	3	s2	85	Physcia millegrana	0	0	1	0	0
95	3	s1	261	Physcia stellaris	2	0	0	1	0
95	3	r	168	Physciella chloantha	5	3	4	3	1
95	3	s1	261	Physciella chloantha	0	0	0	2	2
95	3	s2	85	Physciella chloantha	4	1	0	0	1
95	3	a	345	Xanthomendoza fallax	0	0	0	0	1
95	3	r	168	Xanthomendoza fallax	8	9	15	10	14
95	3	s1	261	Xanthomendoza fallax	5	6	3	5	5
95	3	s2	85	Xanthomendoza fallax	6	2	3	6	3
95	4	s1	155	Candelaria concolor	1	1	0	0	0
95	4	s2	313	Candelaria concolor	1	1	1	0	0

Site	Tree	Side	Degrees	Lichen	Q1	Q2	Q3	Q4	Q5
95	4	s1	155	Physciella chloantha	2	0	0	0	0
95	4	s2	313	Physciella chloantha	1	0	0	0	0
95	4	s1	155	Xanthomendoza fallax	3	0	0	0	0
95	4	s2	313	Xanthomendoza fallax	0	1	0	0	0
96	1	a	255	Hyperphyscia adglutinata	1	1	0	2	0
96	1	r	76	Hyperphyscia adglutinata	1	2	3	4	7
96	1	s1	160	Hyperphyscia adglutinata	0	0	0	0	3
96	1	s2	341	Hyperphyscia adglutinata	6	8	9	13	18
96	1	a	255	Phaeophyscia adiastrata	1	0	0	0	0
96	1	s2	341	Physciella chloantha	1	0	1	0	0
96	2	a	105	Candelaria concolor	0	0	2	0	2
96	2	r	286	Candelaria concolor	4	6	6	6	3
96	2	s1	16	Candelaria concolor	1	1	3	3	2
96	2	s2	199	Candelaria concolor	6	6	10	7	2
96	2	a	105	Hyperphyscia adglutinata	1	1	0	0	1
96	2	s1	16	Hyperphyscia adglutinata	0	0	0	1	0
96	2	s2	199	Hyperphyscia adglutinata	0	1	0	0	0
96	2	a	105	Physcia stellaris	2	0	2	2	1
96	2	r	286	Physcia stellaris	4	9	5	10	4
96	2	s1	16	Physcia stellaris	0	1	4	1	1
96	2	s2	199	Physcia stellaris	1	4	3	4	2
96	2	s2	199	Physciella chloantha	4	0	1	2	7
96	2	r	286	Xanthomendoza fallax	1	0	0	0	2
96	2	s2	199	Xanthomendoza fallax	1	0	0	0	1
96	3	r	296	Candelaria concolor	3	6	5	10	8
96	3	s1	27	Candelaria concolor	0	0	0	2	2
96	3	s2	202	Candelaria concolor	1	1	2	0	2
96	3	a	115	Hyperphyscia adglutinata	0	0	0	0	1
96	3	s1	27	Hyperphyscia adglutinata	0	0	1	3	0
96	3	s1	27	Phaeophyscia adiastrata	0	0	0	0	4
96	3	a	115	Physcia stellaris	0	1	0	2	0
96	3	r	296	Physcia stellaris	0	0	1	0	0
96	3	s1	27	Physcia stellaris	0	0	0	1	0
96	3	a	115	Physciella chloantha	0	0	0	1	1
96	3	r	296	Physciella chloantha	3	6	4	2	1
96	3	s1	27	Physciella chloantha	5	1	4	1	1
96	3	s2	202	Physciella chloantha	0	1	6	5	3
96	3	a	115	Xanthomendoza fallax	0	0	1	1	0
96	3	r	296	Xanthomendoza fallax	1	2	1	0	1
96	3	s1	27	Xanthomendoza fallax	0	3	1	0	0
96	3	s2	202	Xanthomendoza fallax	2	0	0	4	7
96	4	a	124	Candelaria concolor	1	0	6	6	4
96	4	r	352[329]	Candelaria concolor	1	1	1	2	3
96	4	s1	60	Candelaria concolor	2	3	4	8	3
96	4	s2	245	Candelaria concolor	5	9	5	5	7
96	4	s1	60	Hyperphyscia adglutinata	0	0	1	1	0
96	4	s2	245	Hyperphyscia adglutinata	0	1	0	0	0
96	4	r	352[329]	Phaeophyscia adiastrata	4	0	0	1	0
96	4	s1	60	Phaeophyscia adiastrata	0	0	1	0	1
96	4	s2	245	Phaeophyscia adiastrata	2	1	3	0	0
96	4	s1	60	Phaeophyscia pussiloides	0	0	0	0	1
96	4	r	352[329]	Phaeophyscia rubripulchra	1	0	0	0	0
96	4	s1	60	Phaeophyscia rubripulchra	1	0	2	0	0
96	4	s1	60	Physcia adscendens	1	0	0	0	0
96	4	s2	245	Physcia adscendens	1	0	0	0	0

Site	Tree	Side	Degrees	Lichen	Q1	Q2	Q3	Q4	Q5
96	4	a	124	<i>Physcia stellaris</i>	0	4	2	3	2
96	4	r	352[329]	<i>Physcia stellaris</i>	4	5	5	1	1
96	4	s1	60	<i>Physcia stellaris</i>	2	5	0	3	2
96	4	s2	245	<i>Physcia stellaris</i>	3	3	5	1	4
96	4	a	124	<i>Physciella chloantha</i>	4	3	1	0	2
96	4	r	352[329]	<i>Physciella chloantha</i>	1	5	1	2	5
96	4	s1	60	<i>Physciella chloantha</i>	4	1	3	1	3
96	4	s2	245	<i>Physciella chloantha</i>	3	1	1	8	7
96	4	r	352[329]	<i>Physconia detersa</i>	0	0	0	1	0
96	4	a	124	<i>Xanthomendoza fallax</i>	1	0	1	0	0
96	4	r	352[329]	<i>Xanthomendoza fallax</i>	4	0	0	0	0
96	4	s1	60	<i>Xanthomendoza fallax</i>	1	1	0	0	0
96	4	s2	245	<i>Xanthomendoza fallax</i>	2	1	5	3	1
96	5	r	341	<i>Candelaria concolor</i>	0	1	4	2	5
96	5	s1	69	<i>Candelaria concolor</i>	0	0	2	2	3
96	5	s2	252	<i>Candelaria concolor</i>	7	2	2	2	5
96	5	a	159	<i>Hyperphyscia adglutinata</i>	0	0	2	2	0
96	5	r	341	<i>Hyperphyscia adglutinata</i>	0	0	0	2	3
96	5	s1	69	<i>Hyperphyscia adglutinata</i>	0	1	1	4	3
96	5	s2	252	<i>Hyperphyscia adglutinata</i>	0	0	1	1	0
96	5	r	341	<i>Phaeophyscia adiaetola</i>	0	0	0	1	1
96	5	r	341	<i>Physcia adscendens</i>	1	0	0	0	0
96	5	a	159	<i>Physcia stellaris</i>	0	0	0	1	0
96	5	s1	69	<i>Physcia stellaris</i>	0	1	1	0	1
96	5	s2	252	<i>Physcia stellaris</i>	0	0	0	1	1
96	5	a	159	<i>Physciella chloantha</i>	1	0	0	2	2
96	5	r	341	<i>Physciella chloantha</i>	1	0	1	1	1
96	5	s1	69	<i>Physciella chloantha</i>	2	6	6	0	2
96	5	s2	252	<i>Physciella chloantha</i>	0	0	1	1	0
96	5	a	159	<i>Xanthomendoza fallax</i>	1	0	2	1	1
96	5	r	341	<i>Xanthomendoza fallax</i>	1	1	1	1	0
96	5	s1	69	<i>Xanthomendoza fallax</i>	0	0	1	1	0
96	5	s2	252	<i>Xanthomendoza fallax</i>	1	0	0	0	1
97	1	a	165	<i>Candelaria concolor</i>	3	3	6	4	4
97	1	r	351	<i>Candelaria concolor</i>	0	0	1	0	0
97	1	s1	82	<i>Candelaria concolor</i>	1	1	1	1	1
97	1	s2	254	<i>Candelaria concolor</i>	7	4	7	9	2
97	1	a	165	<i>Physcia adscendens</i>	0	0	1	0	1
97	1	r	351	<i>Physcia adscendens</i>	0	0	0	3	7
97	1	s1	82	<i>Physcia adscendens</i>	12	7	11	9	8
97	1	s2	254	<i>Physcia adscendens</i>	3	5	2	6	1
97	1	a	165	<i>Physcia aipolia</i>	0	0	1	0	0
97	1	r	351	<i>Physcia aipolia</i>	0	0	0	3	1
97	1	s1	82	<i>Physcia aipolia</i>	0	0	7	0	1
97	1	s2	254	<i>Physcia aipolia</i>	0	5	4	1	6
97	1	a	165	<i>Physcia millegrana</i>	1	0	1	0	3
97	1	a	165	<i>Physconia detersa</i>	4	8	5	12	7
97	1	r	351	<i>Physconia detersa</i>	9	13	12	9	8
97	1	s1	82	<i>Physconia detersa</i>	3	2	1	3	3
97	1	s2	254	<i>Physconia detersa</i>	2	3	4	0	0
97	1	a	165	<i>Xanthomendoza fallax</i>	12	8	1	4	4
97	1	r	351	<i>Xanthomendoza fallax</i>	0	1	2	1	1
97	1	s1	82	<i>Xanthomendoza fallax</i>	1	2	0	0	1
97	1	s2	254	<i>Xanthomendoza fallax</i>	3	1	1	2	2
97	2	a	162	<i>Candelaria concolor</i>	1	3	6	8	5

Site	Tree	Side	Degrees	Lichen	Q1	Q2	Q3	Q4	Q5
97	2	r	339	Candelaria concolor	5	5	2	1	0
97	2	s1	74	Candelaria concolor	6	0	2	0	0
97	2	s2	252	Candelaria concolor	8	5	2	3	4
97	2	a	162	Physcia adscendens	1	1	0	3	0
97	2	r	339	Physcia adscendens	4	5	5	4	4
97	2	s1	74	Physcia adscendens	6	6	6	1	3
97	2	a	162	Physcia aipolia	0	0	3	2	4
97	2	r	339	Physcia aipolia	1	0	0	0	0
97	2	s1	74	Physcia aipolia	0	2	1	0	0
97	2	s2	252	Physcia aipolia	1	0	1	0	1
97	2	a	162	Physcia stellaris	2	3	1	1	0
97	2	s2	252	Physcia stellaris	0	5	1	0	0
97	2	s2	252	Physciella chloantha	5	0	0	0	0
97	2	a	162	Physconia deterosa	1	0	0	0	0
97	2	r	339	Physconia deterosa	0	0	2	0	1
97	2	s1	74	Physconia deterosa	1	5	6	10	8
97	2	s2	252	Physconia deterosa	3	5	4	0	1
97	2	a	162	Xanthomendoza fallax	7	9	4	5	2
97	2	r	339	Xanthomendoza fallax	5	3	3	3	8
97	2	s1	74	Xanthomendoza fallax	1	2	2	2	2
97	2	s2	252	Xanthomendoza fallax	1	1	4	9	11
97	3	a	158	Candelaria concolor	4	11	6	6	6
97	3	r	342	Candelaria concolor	1	1	1	0	3
97	3	s1	64	Candelaria concolor	2	1	2	3	3
97	3	s2	254	Candelaria concolor	1	1	1	0	4
97	3	s1	64	Phaeophyscia adiaetola	0	0	0	3	4
97	3	a	158	Physcia adscendens	5	3	7	2	0
97	3	r	342	Physcia adscendens	7	5	4	2	3
97	3	s1	64	Physcia adscendens	5	9	3	2	2
97	3	s2	254	Physcia adscendens	0	0	0	0	1
97	3	a	158	Physcia aipolia	0	2	0	1	0
97	3	r	342	Physcia aipolia	0	0	1	1	1
97	3	s1	64	Physcia aipolia	2	3	3	2	3
97	3	s2	254	Physcia aipolia	1	0	0	6	0
97	3	a	158	Physcia millegrana	3	1	1	0	0
97	3	s2	254	Physcia millegrana	0	0	0	1	0
97	3	a	158	Physconia deterosa	1	0	0	2	6
97	3	r	342	Physconia deterosa	3	1	3	6	1
97	3	s1	64	Physconia deterosa	1	3	0	2	2
97	3	s2	254	Physconia deterosa	2	13	12	6	7
97	3	s2	254	Xanthomendoza fallax	4	4	0	0	0
97	4	a	169	Candelaria concolor	5	6	7	8	7
97	4	s1	72	Candelaria concolor	1	2	4	1	2
97	4	s2	260	Candelaria concolor	0	1	0	0	1
97	4	a	169	Physcia adscendens	0	0	1	1	3
97	4	r	351	Physcia adscendens	0	1	1	0	0
97	4	s1	72	Physcia adscendens	15	10	6	8	8
97	4	s2	260	Physcia adscendens	0	0	0	0	2
97	4	a	169	Physcia aipolia	2	1	2	0	0
97	4	r	351	Physcia aipolia	1	0	3	1	0
97	4	s2	260	Physcia aipolia	0	0	0	0	2
97	4	s2	260	Physciella chloantha	0	0	0	1	1
97	4	a	169	Physconia deterosa	0	0	0	3	1
97	4	r	351	Physconia deterosa	9	4	6	9	10
97	4	s1	72	Physconia deterosa	2	3	5	10	7

Site	Tree	Side	Degrees	Lichen	Q1	Q2	Q3	Q4	Q5
97	4	s2	260	Physconia detera	7	8	8	7	2
97	4	a	169	Xanthomendoza fallax	5	2	5	0	0
97	4	s2	260	Xanthomendoza fallax	2	3	2	3	1
97	5	a	160	Candelaria concolor	1	2	1	0	0
97	5	r	339	Candelaria concolor	4	3	4	3	7
97	5	s1	69	Candelaria concolor	3	7	3	2	4
97	5	s2	255	Candelaria concolor	3	1	6	2	2
97	5	s1	69	Phaeophyscia adiastrata	2	0	0	2	1
97	5	s2	255	Phaeophyscia adiastrata	0	0	0	0	1
97	5	a	160	Physcia adscendens	0	0	7	4	5
97	5	r	339	Physcia adscendens	5	7	4	2	1
97	5	s1	69	Physcia adscendens	6	8	7	5	5
97	5	a	160	Physcia aipolia	0	1	0	0	0
97	5	r	339	Physcia aipolia	0	1	3	0	2
97	5	s1	69	Physcia aipolia	0	0	2	1	0
97	5	s2	255	Physcia aipolia	0	0	4	0	1
97	5	a	160	Physciella chloantha	0	1	0	0	0
97	5	a	160	Physconia detera	0	0	0	1	1
97	5	s1	69	Physconia detera	1	0	0	0	0
97	5	s2	255	Physconia detera	12	13	5	7	6
97	5	a	160	Xanthomendoza fallax	10	10	10	9	5
97	5	r	339	Xanthomendoza fallax	4	2	0	2	0
97	5	s1	69	Xanthomendoza fallax	1	0	1	1	1
97	5	s2	255	Xanthomendoza fallax	2	2	1	4	3
98	1	a	107	Candelaria concolor	4	5	6	2	4
98	1	r	300 [287]	Candelaria concolor	8	10	7	7	8
98	1	s1	13	Candelaria concolor	5	5	8	5	5
98	1	s2	199	Candelaria concolor	6	2	3	1	1
98	1	s1	13	Hyperphyscia adglutinata	0	0	5	5	2
98	1	r	300 [287]	Phaeophyscia adiastrata	1	0	0	0	0
98	1	s1	13	Phaeophyscia adiastrata	0	0	1	0	0
98	1	s1	13	Phaeophyscia pussiloides	1	2	0	0	0
98	1	r	300 [287]	Physcia adscendens	0	1	0	1	5
98	1	a	107	Physcia aipolia	2	0	1	0	0
98	1	r	300 [287]	Physcia aipolia	3	2	1	2	1
98	1	s1	13	Physcia aipolia	0	0	0	0	1
98	1	s2	199	Physcia aipolia	0	0	1	0	0
98	1	a	107	Physcia stellaris	0	1	0	0	0
98	1	r	300 [287]	Physcia stellaris	3	2	1	0	0
98	1	a	107	Physciella chloantha	2	0	1	0	1
98	1	r	300 [287]	Physciella chloantha	1	0	0	1	0
98	1	s1	13	Physciella chloantha	4	1	1	1	2
98	1	s2	199	Physciella chloantha	0	0	0	0	1
98	1	a	107	Xanthomendoza fallax	10	8	6	9	7
98	1	r	300 [287]	Xanthomendoza fallax	0	1	2	1	1
98	1	s1	13	Xanthomendoza fallax	3	1	1	1	2
98	1	s2	199	Xanthomendoza fallax	6	7	1	7	3
98	2	a	104	Candelaria concolor	0	0	0	0	0
98	2	r	298	Candelaria concolor	1	1	0	0	1
98	2	s1	19	Candelaria concolor	1	0	0	2	0
98	2	s2	199	Candelaria concolor	0	0	0	0	2
98	2	r	298	Physcia adscendens	0	0	0	2	1
98	2	r	298	Physcia aipolia	0	8	3	8	1
98	2	s1	19	Physcia aipolia	0	3	1	2	0
98	2	s1	19	Physcia millegrana	0	0	0	0	2

Site	Tree	Side	Degrees	Lichen	Q1	Q2	Q3	Q4	Q5
98	2	a	104	Physcia stellaris	2	7	7	0	0
98	2	r	298	Physcia stellaris	1	0	2	0	7
98	2	s1	19	Physcia stellaris	3	3	3	0	5
98	2	s2	199	Physcia stellaris	6	10	7	8	5
98	2	a	104	Physciella chloantha	0	1	0	0	0
98	2	r	298	Physciella chloantha	1	0	2	0	3
98	2	s1	19	Physciella chloantha	0	1	0	0	0
98	2	s2	199	Physciella chloantha	0	0	0	0	0
98	2	a	104	Xanthomendoza fallax	1	0	4	0	0
98	2	r	298	Xanthomendoza fallax	3	2	5	2	3
98	2	s1	19	Xanthomendoza fallax	0	1	0	3	2
98	2	s2	199	Xanthomendoza fallax	1	0	4	1	4
98	3	r	281	Candelaria concolor	0	0	2	1	0
98	3	s2	188	Candelaria concolor	0	0	1	1	1
98	3	a	88	Hyperphyscia adglutinata	0	0	0	1	0
98	3	s1	14	Hyperphyscia adglutinata	0	0	0	0	2
98	3	s2	188	Hyperphyscia adglutinata	0	0	1	0	0
98	3	s1	14	Parmelia sulcata	0	0	0	2	3
98	3	r	281	Physcia adscendens	0	0	0	1	0
98	3	a	88	Physcia stellaris	3	2	7	2	4
98	3	r	281	Physcia stellaris	1	1	4	0	3
98	3	s1	14	Physcia stellaris	4	4	2	3	2
98	3	s2	188	Physcia stellaris	4	7	8	8	5
98	3	a	88	Physciella chloantha	2	0	2	0	8
98	3	r	281	Physciella chloantha	1	1	1	1	1
98	3	s1	14	Physciella chloantha	0	0	1	0	1
98	3	s2	188	Physciella chloantha	0	0	1	1	2
98	3	a	88	Xanthomendoza fallax	0	0	2	1	0
98	3	r	281	Xanthomendoza fallax	6	3	3	4	2
98	3	s1	14	Xanthomendoza fallax	0	2	2	5	1
98	3	s2	188	Xanthomendoza fallax	2	3	1	3	2
98	4	r	250	Candelaria concolor	0	0	1	0	0
98	4	s2	169	Candelaria concolor	0	0	0	1	0
98	4	s2	169	Hyperphyscia adglutinata	0	0	0	2	1
98	4	r	250	Physcia aipolia	0	1	0	0	0
98	4	s1	352	Physcia aipolia	3	0	0	0	0
98	4	a	79	Physcia stellaris	1	2	3	3	6
98	4	r	250	Physcia stellaris	1	0	0	0	0
98	4	s1	352	Physcia stellaris	0	4	5	6	4
98	4	s2	169	Physcia stellaris	1	2	1	3	2
98	4	r	250	Physciella chloantha	0	3	0	0	2
98	4	s1	352	Physciella chloantha	0	0	0	0	2
98	4	s2	169	Physciella chloantha	0	0	3	2	2
98	4	a	79	Xanthomendoza fallax	1	0	1	0	1
98	4	r	250	Xanthomendoza fallax	0	2	1	0	6
98	4	s1	352	Xanthomendoza fallax	1	1	0	2	2
98	4	s2	169	Xanthomendoza fallax	2	0	1	0	2
98	5	a	122	Candelaria concolor	6	4	1	2	6
98	5	r	301	Candelaria concolor	2	0	8	8	9
98	5	s1	29	Candelaria concolor	6	6	5	6	4
98	5	s2	219	Candelaria concolor	4	2	3	5	1
98	5	a	122	Hyperphyscia adglutinata	2	4	6	0	2
98	5	r	301	Hyperphyscia adglutinata	1	0	0	0	0
98	5	s1	29	Hyperphyscia adglutinata	1	0	0	0	0
98	5	r	301	Parmelia sulcata	0	0	0	1	0

Site	Tree	Side	Degrees	Lichen	Q1	Q2	Q3	Q4	Q5
98	5	s1	29	<i>Parmelia sulcata</i>	1	0	0	0	0
98	5	a	122	<i>Physcia adscendens</i>	1	0	0	0	0
98	5	r	301	<i>Physcia adscendens</i>	0	1	1	1	2
98	5	s1	29	<i>Physcia adscendens</i>	0	0	3	2	1
98	5	s2	219	<i>Physcia adscendens</i>	0	0	1	3	1
98	5	r	301	<i>Physcia aipolia</i>	1	1	0	0	0
98	5	a	122	<i>Physcia millegrana</i>	0	1	0	1	2
98	5	r	301	<i>Physcia millegrana</i>	1	2	1	0	1
98	5	s1	29	<i>Physcia millegrana</i>	1	0	1	1	0
98	5	s2	219	<i>Physcia millegrana</i>	1	0	0	0	0
98	5	a	122	<i>Physcia stellaris</i>	0	0	0	0	1
98	5	s1	29	<i>Physcia stellaris</i>	0	2	0	0	0
98	5	s2	219	<i>Physcia stellaris</i>	0	0	1	0	0
98	5	r	301	<i>Physciella chloantha</i>	0	0	1	0	0
98	5	s1	29	<i>Physciella chloantha</i>	2	0	0	0	1
98	5	s2	219	<i>Physciella chloantha</i>	0	1	0	0	0
98	5	a	122	<i>Xanthomendoza fallax</i>	2	1	4	2	1
98	5	r	301	<i>Xanthomendoza fallax</i>	12	8	2	1	2
98	5	s1	29	<i>Xanthomendoza fallax</i>	3	5	5	3	4
98	5	s2	219	<i>Xanthomendoza fallax</i>	9	12	7	9	8
99	1	a	345	<i>Candelaria concolor</i>	3	1	0	1	1
99	1	r	162	<i>Candelaria concolor</i>	5	3	1	1	2
99	1	s1	253	<i>Candelaria concolor</i>	7	3	1	6	1
99	1	s2	73	<i>Candelaria concolor</i>	2	2	2	3	4
99	1	s2	73	<i>Hyperphyscia adglutinata</i>	1	0	0	0	0
99	1	a	345	<i>Parmelia sulcata</i>	0	0	0	0	1
99	1	r	162	<i>Phaeophyscia pussiloides</i>	1	2	0	3	2
99	1	a	345	<i>Physcia aipolia</i>	0	0	1	0	0
99	1	a	345	<i>Physcia millegrana</i>	4	6	4	6	2
99	1	r	162	<i>Physcia millegrana</i>	5	1	1	1	1
99	1	s1	253	<i>Physcia millegrana</i>	1	1	0	0	0
99	1	s2	73	<i>Physcia millegrana</i>	1	3	1	0	0
99	1	r	162	<i>Xanthomendoza fallax</i>	0	0	1	0	0
99	1	s2	73	<i>Xanthomendoza fallax</i>	0	0	0	1	0
99	2	r	340	<i>Candelaria concolor</i>	1	0	2	0	0
99	2	s2	251	<i>Candelaria concolor</i>	2	9	4	2	0
99	2	a	159	<i>Hyperphyscia adglutinata</i>	0	0	1	0	0
99	2	s1	75	<i>Hyperphyscia adglutinata</i>	2	1	1	0	0
99	2	s2	251	<i>Hyperphyscia adglutinata</i>	1	0	0	0	0
99	2	s1	75	<i>Phaeophyscia adiaetola</i>	2	1	1	0	0
99	2	r	340	<i>Phaeophyscia rubripulchra</i>	3	7	5	5	1
99	2	r	340	<i>Physcia millegrana</i>	0	0	1	0	0
99	2	r	340	<i>Physciella chloantha</i>	5	3	0	0	0
99	2	s2	251	<i>Physciella chloantha</i>	0	0	0	1	0
99	2	r	340	<i>Xanthomendoza fallax</i>	1	0	2	1	1
99	3	a	82	<i>Candelaria concolor</i>	2	0	1	0	0
99	3	r	261	<i>Candelaria concolor</i>	2	4	3	6	2
99	3	s1	351	<i>Candelaria concolor</i>	3	2	0	1	4
99	3	s2	169	<i>Candelaria concolor</i>	1	3	8	4	0
99	3	a	82	<i>Hyperphyscia adglutinata</i>	0	1	0	0	1
99	3	a	82	<i>Physciella chloantha</i>	2	0	0	1	0
99	3	r	261	<i>Physciella chloantha</i>	14	13	8	5	9
99	3	s1	351	<i>Physciella chloantha</i>	5	3	6	12	8
99	3	s2	169	<i>Physciella chloantha</i>	0	3	4	2	6
99	5	r	267	<i>Candelaria concolor</i>	1	0	0	0	0

Site	Tree	Side	Degrees	Lichen	Q1	Q2	Q3	Q4	Q5
99	5	s1	358	Hyperphyscia adglutinata	2	0	1	1	0
99	5	r	267	Physciella chloantha	1	0	0	0	0
99	5	r	267	Xanthomendoza fallax	0	0	0	0	1
99	5	s2	170	Xanthomendoza fallax	0	0	0	0	3
100	1	a	263	Candelaria concolor	1	0	0	0	0
100	1	r	80	Candelaria concolor	2	1	1	4	2
100	1	s1	173	Candelaria concolor	0	0	1	0	0
100	1	a	263	Hyperphyscia adglutinata	1	0	2	1	3
100	1	r	80	Hyperphyscia adglutinata	4	0	2	4	0
100	1	s2	350	Hyperphyscia adglutinata	0	1	0	1	1
100	1	a	263	Phaeophyscia pussiloides	5	1	0	0	0
100	1	r	80	Phaeophyscia pussiloides	4	2	2	0	1
100	1	s1	173	Phaeophyscia pussiloides	0	2	0	0	3
100	1	a	263	Physcia millegrana	0	0	0	0	1
100	1	r	80	Physcia millegrana	0	2	3	1	2
100	1	s1	173	Physcia millegrana	0	0	0	0	1
100	1	a	263	Physciella chloantha	0	1	0	0	0
100	1	r	80	Physciella chloantha	0	0	0	0	2
100	1	s1	173	Physciella chloantha	0	1	0	0	0
100	1	s2	350	Physciella chloantha	1	0	0	1	1
100	1	a	263	Xanthomendoza fallax	0	1	0	0	0
100	1	r	80	Xanthomendoza fallax	1	3	0	0	0
100	1	s1	173	Xanthomendoza fallax	1	1	0	0	1
100	1	s2	350	Xanthomendoza fallax	0	0	0	0	1
100	2	s1	92	Phaeophyscia pussiloides	0	0	0	1	0
100	3	a	17	Candelaria concolor	2	0	0	0	0
100	3	a	17	Hyperphyscia adglutinata	0	1	0	0	0
100	5	a	358	Candelaria concolor	1	0	0	0	0
100	5	s1	286	Candelaria concolor	4	1	5	1	0
100	5	s2	91	Candelaria concolor	0	2	1	0	0
100	5	a	358	Hyperphyscia adglutinata	7	3	7	5	0
100	5	s2	91	Phaeophyscia pussiloides	0	0	0	1	0
100	5	r	173	Physcia millegrana	0	1	0	0	0
100	5	a	358	Xanthomendoza fallax	0	4	4	3	5
100	5	r	173	Xanthomendoza fallax	6	8	5	4	4
100	5	s1	286	Xanthomendoza fallax	11	11	9	16	11
100	5	s2	91	Xanthomendoza fallax	14	11	11	6	7
101	1	a	195	Candelaria concolor	3	0	2	3	1
101	1	r	353	Candelaria concolor	9	7	5	1	3
101	1	s1	93	Candelaria concolor	2	6	1	0	0
101	1	s2	291	Candelaria concolor	7	4	5	6	1
101	1	a	195	Hyperphyscia adglutinata	2	0	0	0	0
101	1	r	353	Hyperphyscia adglutinata	1	1	1	2	4
101	1	s1	93	Hyperphyscia adglutinata	3	0	0	1	0
101	1	s2	291	Hyperphyscia adglutinata	0	0	1	0	0
101	1	r	353	Phaeophyscia adiaetola	0	1	0	0	0
101	1	a	195	Phaeophyscia pussiloides	2	3	3	2	0
101	1	r	353	Phaeophyscia pussiloides	3	2	2	1	2
101	1	s2	291	Phaeophyscia pussiloides	1	0	3	1	2
101	1	r	353	Phaeophyscia rubripulchra	0	0	0	0	1
101	1	r	353	Physcia aipolia	1	1	0	0	0
101	1	s2	291	Physcia aipolia	0	0	0	1	0
101	1	a	195	Physcia millegrana	4	7	3	4	0
101	1	r	353	Physcia millegrana	4	4	4	6	2
101	1	s1	93	Physcia millegrana	1	0	1	0	0

Site	Tree	Side	Degrees	Lichen	Q1	Q2	Q3	Q4	Q5
101	1	s2	291	Physcia millegrana	0	0	1	1	6
101	1	a	195	Physciella chloantha	5	2	6	6	3
101	1	r	353	Physciella chloantha	1	0	0	0	2
101	1	s1	93	Physciella chloantha	4	5	4	3	5
101	1	s2	291	Physciella chloantha	4	6	1	5	6
101	2	a	193	Hyperphyscia adglutinata	1	0	0	0	0
101	2	r	18	Hyperphyscia adglutinata	0	4	0	0	1
101	2	s1	115	Hyperphyscia adglutinata	2	0	0	0	0
101	2	s2	285	Hyperphyscia adglutinata	1	2	2	0	2
101	2	r	18	Phaeophyscia pussiloides	0	1	1	1	2
101	2	s1	115	Phaeophyscia pussiloides	4	4	3	3	1
101	2	s2	285	Phaeophyscia pussiloides	1	1	1	0	0
101	2	r	18	Phaeophyscia rubripulchra	0	0	0	0	2
101	2	r	18	Physcia millegrana	0	0	1	6	6
101	2	s1	115	Physcia millegrana	0	0	0	1	3
101	2	s2	285	Physcia millegrana	0	0	0	2	3
101	2	a	193	Physciella chloantha	1	1	0	0	0
101	2	r	18	Physciella chloantha	1	1	3	4	2
101	2	s1	115	Physciella chloantha	2	5	3	3	4
101	2	s2	285	Physciella chloantha	1	1	2	0	0
101	3	a	45	Candelaria concolor	0	0	1	0	1
101	3	r	219	Candelaria concolor	5	3	1	2	3
101	3	s1	319	Candelaria concolor	5	5	2	5	2
101	3	s2	131	Candelaria concolor	0	0	0	0	2
101	3	a	45	Hyperphyscia adglutinata	8	9	7	9	5
101	3	r	219	Hyperphyscia adglutinata	0	1	1	1	0
101	3	s1	319	Hyperphyscia adglutinata	0	0	1	0	0
101	3	s2	131	Hyperphyscia adglutinata	3	2	5	0	2
101	3	r	219	Phaeophyscia adiaetola	8	3	4	1	0
101	3	a	45	Physcia millegrana	0	1	1	0	0
101	3	r	219	Physcia millegrana	0	1	0	2	4
101	3	s1	319	Physcia millegrana	1	0	0	0	2
101	3	s2	131	Physcia millegrana	3	5	3	0	1
101	3	a	45	Physciella chloantha	0	0	0	5	3
101	3	s1	319	Physciella chloantha	3	5	3	4	6
101	3	s2	131	Physciella chloantha	2	2	0	1	1
101	3	r	219	Physconia detersa	0	1	0	0	0
101	3	a	45	Xanthomendoza fallax	0	0	1	0	0
101	3	r	219	Xanthomendoza fallax	1	1	1	4	2
101	3	s1	319	Xanthomendoza fallax	0	0	2	0	0
101	3	s2	131	Xanthomendoza fallax	0	0	0	2	3
101	4	a	38	Hyperphyscia adglutinata	5	3	0	3	4
101	4	s1	299	Hyperphyscia adglutinata	0	0	0	1	0
101	4	s2	127	Hyperphyscia adglutinata	6	9	12	15	14
101	4	s1	299	Physcia millegrana	0	0	1	0	0
101	4	s1	299	Physciella chloantha	1	0	2	1	2
101	5	r	221	Candelaria concolor	0	0	0	0	1
101	5	s1	326	Candelaria concolor	1	1	3	0	3
101	5	a	46	Hyperphyscia adglutinata	2	6	2	2	4
101	5	r	221	Hyperphyscia adglutinata	1	8	0	0	0
101	5	s1	326	Hyperphyscia adglutinata	1	0	0	0	0
101	5	s2	131	Hyperphyscia adglutinata	1	0	0	0	0
101	5	r	221	Phaeophyscia pussiloides	2	5	4	5	7
101	5	s1	326	Phaeophyscia pussiloides	0	0	1	0	0
101	5	a	46	Physcia millegrana	3	4	0	1	2

Site	Tree	Side	Degrees	Lichen	Q1	Q2	Q3	Q4	Q5
101	5	r	221	Physcia millegrana	3	1	7	1	2
101	5	s1	326	Physcia millegrana	3	0	0	3	0
101	5	s2	131	Physcia millegrana	2	1	2	2	2
101	5	r	221	Physciella chloantha	3	3	0	1	0
101	5	s1	326	Physciella chloantha	7	7	2	0	1
101	5	s2	131	Physciella chloantha	5	2	3	2	0
101	5	r	221	Xanthomendoza fallax	0	1	0	0	0
101	5	s1	326	Xanthomendoza fallax	0	0	0	1	0
101	5	s2	131	Xanthomendoza fallax	2	0	1	1	4
102	1	a	99	Candelaria concolor	2	2	0	0	0
102	1	r	286	Candelaria concolor	8	8	5	6	8
102	1	s1	5	Candelaria concolor	0	0	0	1	0
102	1	s2	190	Candelaria concolor	3	0	2	0	2
102	1	a	99	Hyperphyscia adglutinata	0	0	1	1	0
102	1	s2	190	Phaeophyscia pussiloides	1	2	4	0	0
102	1	a	99	Phaeophyscia rubripulchra	0	0	0	0	1
102	1	s1	5	Physcia adscendens	0	0	0	3	1
102	1	r	286	Physcia aipolia	0	0	0	0	1
102	1	s1	5	Physcia aipolia	2	0	0	0	0
102	1	a	99	Physcia millegrana	0	0	2	0	0
102	1	r	286	Physcia millegrana	0	1	0	1	0
102	1	s1	5	Physcia millegrana	0	0	1	0	1
102	1	a	99	Physciella chloantha	0	3	0	1	0
102	1	r	286	Physciella chloantha	2	0	1	0	0
102	1	s1	5	Physciella chloantha	1	0	1	1	1
102	1	s2	190	Physciella chloantha	6	6	4	11	10
102	2	a	292	Candelaria concolor	3	4	8	10	6
102	2	r	105	Candelaria concolor	2	2	2	3	4
102	2	s1	203	Candelaria concolor	1	0	1	1	0
102	2	s2	23	Candelaria concolor	8	16	16	15	11
102	2	a	292	Hyperphyscia adglutinata	0	0	1	0	0
102	2	s2	23	Phaeophyscia pussiloides	1	0	0	0	0
102	2	a	292	Physcia adscendens	2	1	1	0	0
102	2	r	105	Physcia adscendens	0	0	4	4	3
102	2	s2	23	Physcia adscendens	0	2	1	0	0
102	2	r	105	Physcia aipolia	1	1	1	1	1
102	2	s2	23	Physcia aipolia	1	0	1	0	0
102	2	s1	203	Physciella chloantha	0	0	1	0	0
102	2	s2	23	Physciella chloantha	2	0	0	0	0
102	2	s1	203	Xanthomendoza fallax	0	0	0	0	1
102	3	a	294	Candelaria concolor	1	1	0	2	0
102	3	s2	32	Candelaria concolor	0	1	0	0	0
102	3	a	294	Physcia adscendens	0	0	1	0	1
102	3	s2	32	Physcia adscendens	3	9	10	8	7
102	3	a	294	Physcia aipolia	1	0	1	0	0
102	3	s2	32	Physcia aipolia	0	0	1	0	0
102	3	a	294	Physcia millegrana	0	1	0	0	0
102	3	s2	32	Physcia millegrana	2	4	2	0	0
102	3	s2	32	Physciella chloantha	0	0	0	3	2
102	4	a	289	Candelaria concolor	0	0	1	0	0
102	4	r	109	Candelaria concolor	1	1	0	0	0
102	4	s1	202	Candelaria concolor	0	0	0	0	1
102	4	r	109	Hyperphyscia adglutinata	0	0	1	0	0
102	4	r	109	Phaeophyscia pussiloides	1	0	0	0	0
102	4	r	109	Physcia aipolia	1	0	0	0	0

Site	Tree	Side	Degrees	Lichen	Q1	Q2	Q3	Q4	Q5
102	4	r	109	Physcia millegrana	1	1	0	0	1
102	4	s2	19	Physcia millegrana	1	0	0	0	0
102	4	r	109	Physcia stellaris	1	2	3	1	2
102	4	a	289	Physciella chloantha	0	0	0	2	0
102	4	r	109	Physciella chloantha	0	0	2	0	0
102	4	s2	19	Physciella chloantha	1	0	0	0	0
102	4	a	289	Xanthomendoza fallax	0	0	1	0	2
102	4	r	109	Xanthomendoza fallax	0	0	1	1	0
102	5	a	253	Candelaria concolor	0	4	2	1	3
102	5	r	75	Candelaria concolor	4	11	3	10	4
102	5	s1	171	Candelaria concolor	7	7	10	8	13
102	5	s2	337	Candelaria concolor	5	7	3	3	2
102	5	s1	171	Hyperphyscia adglutinata	0	0	1	1	0
102	5	a	253	Phaeophyscia ciliata	0	0	0	0	1
102	5	a	253	Physcia adscendens	0	0	0	0	1
102	5	r	75	Physcia adscendens	1	0	1	2	1
102	5	s1	171	Physcia adscendens	3	0	0	1	0
102	5	s2	337	Physcia adscendens	2	1	4	0	3
102	5	a	253	Physcia aipolia	2	3	2	3	1
102	5	r	75	Physcia aipolia	0	2	3	1	0
102	5	s1	171	Physcia aipolia	1	1	0	0	0
102	5	s2	337	Physcia aipolia	0	0	1	0	2
102	5	a	253	Physcia stellaris	0	0	4	0	0
102	5	a	253	Physciella chloantha	4	0	0	0	0
102	5	r	75	Physconia detersa	0	1	0	0	0
103	3	s1	172	Candelaria concolor	0	0	0	1	0
103	3	r	81	Hyperphyscia adglutinata	0	0	0	1	1
103	3	s1	172	Hyperphyscia adglutinata	3	3	0	0	4
103	3	s1	172	Xanthomendoza fallax	0	0	0	1	1
103	4	r	81	Hyperphyscia adglutinata	2	3	1	2	0
103	4	s1	167	Hyperphyscia adglutinata	1	0	0	0	0
103	4	s2	349	Hyperphyscia adglutinata	3	0	0	0	0
103	4	s1	167	Physciella chloantha	0	0	0	1	0
103	4	r	81	Xanthomendoza fallax	1	0	0	0	0
103	4	s1	167	Xanthomendoza fallax	2	1	2	2	2
103	4	s2	349	Xanthomendoza fallax	0	0	1	0	0
103	5	s1	175	Candelaria concolor	0	0	0	0	1
103	5	s1	175	Physciella chloantha	0	1	1	0	0
103	5	a	165	Xanthomendoza fallax	2	1	1	1	1
103	5	r	81	Xanthomendoza fallax	1	0	0	0	0
103	5	s1	175	Xanthomendoza fallax	0	0	1	1	1
103	5	s2	355	Xanthomendoza fallax	1	0	0	1	0
104	1	s2	60	Xanthomendoza fallax	1	0	0	0	0
104	2	a	337	Candelaria concolor	1	0	0	0	1
104	2	r	158	Candelaria concolor	0	1	0	0	0
104	2	s1	243	Candelaria concolor	0	0	0	1	0
104	2	s2	63	Candelaria concolor	0	0	1	0	0
104	2	a	337	Physcia aipolia	0	0	0	1	0
104	2	a	337	Xanthomendoza fallax	0	1	0	0	0
104	3	r	157	Candelaria concolor	0	1	0	0	0
104	3	s1	254	Candelaria concolor	0	0	0	3	2
104	3	s2	70	Candelaria concolor	1	0	1	1	6
104	3	s2	70	Hyperphyscia adglutinata	1	0	0	0	0
104	3	s2	70	Physcia aipolia	1	0	0	1	1
104	3	s2	70	Xanthomendoza fallax	0	1	1	0	0

Site	Tree	Side	Degrees	Lichen	Q1	Q2	Q3	Q4	Q5
104	4	r	316 [328]	Candelaria concolor	0	1	0	0	1
104	4	s1	73	Candelaria concolor	0	0	0	0	2
104	4	s2	211	Candelaria concolor	0	2	0	0	1
104	4	a	126	Hyperphyscia adglutinata	0	0	0	2	3
104	4	r	316 [328]	Hyperphyscia adglutinata	1	5	3	1	0
104	4	s1	73	Hyperphyscia adglutinata	3	8	9	8	2
104	4	s2	211	Hyperphyscia adglutinata	0	0	3	3	7
104	4	s2	211	Phaeophyscia pussiloides	0	0	1	0	0
104	4	r	316 [328]	Physcia millegrana	1	1	2	1	3
104	4	s1	73	Physcia millegrana	2	0	0	2	3
104	4	s2	211	Physcia millegrana	0	0	0	1	0
104	4	r	316 [328]	Physciella chloantha	1	0	0	0	0
104	4	s1	73	Physciella chloantha	1	0	0	0	0
104	5	a	158	Candelaria concolor	0	0	0	0	1
104	5	r	246	Candelaria concolor	1	1	2	2	5
104	5	s1	340	Candelaria concolor	1	0	0	0	0
104	5	s2	62	Hyperphyscia adglutinata	0	0	3	2	0
104	5	r	246	Physciella chloantha	1	0	0	1	1
105	1	a	273	Candelaria concolor	2	0	0	0	0
105	1	r	90 [78]	Candelaria concolor	3	3	7	7	7
105	1	s1	203	Candelaria concolor	2	0	2	0	0
105	1	s2	357	Candelaria concolor	1	3	1	5	9
105	1	a	273	Hyperphyscia adglutinata	7	3	1	2	0
105	1	r	90 [78]	Hyperphyscia adglutinata	2	0	0	0	0
105	1	s1	203	Hyperphyscia adglutinata	1	0	0	0	0
105	1	s2	357	Hyperphyscia adglutinata	4	4	4	0	0
105	1	a	273	Phaeophyscia adiaetola	0	0	0	0	1
105	1	r	90 [78]	Phaeophyscia adiaetola	0	0	0	1	0
105	1	s2	357	Phaeophyscia adiaetola	2	2	0	0	0
105	1	a	273	Physcia millegrana	2	0	1	0	1
105	1	r	90 [78]	Physcia millegrana	1	3	1	0	1
105	1	s1	203	Physcia millegrana	0	0	1	3	1
105	1	s2	357	Physcia millegrana	1	1	1	2	0
105	1	a	273	Physciella chloantha	1	3	4	5	6
105	1	r	90 [78]	Physciella chloantha	2	0	1	1	0
105	1	s2	357	Physciella chloantha	0	0	1	0	0
105	1	a	273	Xanthomendoza fallax	5	3	8	11	5
105	1	r	90 [78]	Xanthomendoza fallax	5	1	6	1	2
105	1	s1	203	Xanthomendoza fallax	7	4	10	8	8
105	1	s2	357	Xanthomendoza fallax	1	0	2	1	0
105	2	a	281	Candelaria concolor	3	1	2	2	2
105	2	r	95	Candelaria concolor	1	0	0	0	0
105	2	s1	186	Candelaria concolor	3	1	7	3	3
105	2	s2	10	Candelaria concolor	1	0	0	1	0
105	2	a	281	Phaeophyscia adiaetola	4	2	1	0	0
105	2	s1	186	Phaeophyscia adiaetola	2	0	1	1	2
105	2	s2	10	Phaeophyscia adiaetola	0	0	0	1	0
105	2	s2	10	Physcia aipolia	0	0	0	0	1
105	2	r	95	Physciella chloantha	1	0	0	0	0
105	2	s2	10	Physconia detersa	0	0	0	3	0
105	2	a	281	Xanthomendoza fallax	0	2	2	2	2
105	2	r	95	Xanthomendoza fallax	4	4	7	7	4
105	2	s1	186	Xanthomendoza fallax	3	6	2	1	4
105	2	s2	10	Xanthomendoza fallax	5	6	5	7	5
105	3	a	272	Candelaria concolor	2	9	10	5	11

Site	Tree	Side	Degrees	Lichen	Q1	Q2	Q3	Q4	Q5
105	3	r	91	Candelaria concolor	3	3	3	4	1
105	3	s1	190	Candelaria concolor	5	5	0	5	8
105	3	s2	365	Candelaria concolor	2	0	0	0	0
105	3	a	272	Hyperphyscia adglutinata	1	1	0	3	0
105	3	s1	190	Hyperphyscia adglutinata	0	0	1	0	0
105	3	a	272	Physcia millegrana	9	0	0	1	3
105	3	r	91	Physcia millegrana	5	6	6	7	8
105	3	s1	190	Physcia millegrana	4	5	4	3	1
105	3	s2	365	Physcia millegrana	3	2	0	0	0
105	3	a	272	Xanthomendoza fallax	0	0	1	1	1
105	3	s1	190	Xanthomendoza fallax	1	0	1	0	0
105	4	a	185	Candelaria concolor	0	0	0	4	8
105	4	r	15	Candelaria concolor	0	0	3	0	0
105	4	s1	103	Candelaria concolor	2	0	0	0	0
105	4	s2	282	Candelaria concolor	1	0	0	0	1
105	4	a	185	Hyperphyscia adglutinata	0	0	2	1	0
105	4	r	15	Hyperphyscia adglutinata	0	1	0	0	0
105	4	s1	103	Hyperphyscia adglutinata	0	0	0	1	0
105	4	s2	282	Hyperphyscia adglutinata	3	2	3	4	2
105	4	s1	103	Parmelia sulcata	1	0	0	0	0
105	4	a	185	Phaeophyscia adiaetola	0	0	0	0	1
105	4	a	185	Phaeophyscia rubripulchra	0	0	1	1	0
105	4	s1	103	Phaeophyscia rubripulchra	1	0	0	1	0
105	4	a	185	Physcia aipolia	0	0	0	2	0
105	4	s1	103	Physcia aipolia	1	0	1	0	0
105	4	s2	282	Physcia millegrana	2	2	1	1	3
105	4	s2	282	Physciella chloantha	1	0	0	0	0
105	5	r	196	Candelaria concolor	0	1	0	1	1
105	5	s1	285	Candelaria concolor	4	3	0	2	3
105	5	s2	109	Candelaria concolor	0	1	0	3	2
105	5	s1	285	Phaeophyscia pussiloides	2	0	0	0	0
105	5	s1	285	Physcia stellaris	0	0	0	1	0
105	5	s2	109	Physcia stellaris	0	0	1	0	1
105	5	a	16	Physciella chloantha	0	1	0	0	0
105	5	s2	109	Physciella chloantha	0	1	0	0	0
105	5	r	196	Xanthomendoza fallax	1	0	1	1	0
105	5	s1	285	Xanthomendoza fallax	0	1	0	1	1
105	5	s2	109	Xanthomendoza fallax	2	0	3	1	0
106	1	r	155	Candelaria concolor	0	0	0	1	1
106	1	a	328	Phaeophyscia adiaetola	0	0	1	0	0
106	1	r	155	Phaeophyscia adiaetola	6	5	5	4	2
106	1	s1	239	Phaeophyscia adiaetola	2	5	1	2	0
106	1	a	328	Physcia adscendens	3	4	1	1	1
106	1	r	155	Physcia adscendens	2	1	3	1	3
106	1	s1	239	Physcia adscendens	6	3	1	2	3
106	1	s2	60	Physcia adscendens	0	0	0	0	2
106	1	a	328	Physcia aipolia	1	0	0	0	0
106	1	r	155	Physcia aipolia	1	1	0	1	0
106	1	s1	239	Physcia aipolia	2	1	0	1	0
106	1	r	155	Physcia stellaris	1	1	0	0	1
106	1	a	328	Physciella chloantha	1	1	0	1	0
106	1	r	155	Physciella chloantha	0	0	0	0	1
106	1	a	328	Xanthomendoza fallax	1	0	0	0	0
106	1	r	155	Xanthomendoza fallax	2	2	2	1	1
106	1	s1	239	Xanthomendoza fallax	3	1	1	1	0

Site	Tree	Side	Degrees	Lichen	Q1	Q2	Q3	Q4	Q5
106	2	s2	62	Physcia adscendens	1	2	1	0	0
106	2	s2	62	Xanthomendoza fallax	1	0	0	0	0
106	3	a	335	Physcia adscendens	1	0	0	0	0
106	3	a	335	Xanthomendoza fallax	1	0	0	0	0
106	4	r	153	Candelaria concolor	7	6	4	4	3
106	4	s1	248	Candelaria concolor	2	7	6	5	5
106	4	s2	71	Candelaria concolor	11	5	1	1	3
106	4	a	340	Parmelia sulcata	3	2	1	1	1
106	4	a	340	Phaeophyscia adiaetola	10	10	11	6	9
106	4	r	153	Phaeophyscia adiaetola	1	6	7	5	8
106	4	s1	248	Phaeophyscia adiaetola	0	4	4	7	3
106	4	s2	71	Phaeophyscia adiaetola	4	6	4	0	2
106	4	a	340	Physcia adscendens	3	4	2	8	6
106	4	s1	248	Physcia adscendens	2	3	1	1	2
106	4	s2	71	Physcia adscendens	2	0	2	8	8
106	4	a	340	Physcia aipolia	2	1	3	2	2
106	4	r	153	Physcia aipolia	6	7	3	5	2
106	4	s1	248	Physcia aipolia	4	0	4	3	5
106	4	s2	71	Physcia aipolia	2	2	4	1	6
106	4	s1	248	Physciella chloantha	6	0	0	0	0
106	4	s2	71	Physconia detorsa	0	1	1	0	0
106	4	a	340	Xanthomendoza fallax	2	2	2	1	1
106	4	r	153	Xanthomendoza fallax	2	1	1	1	2
106	4	s1	248	Xanthomendoza fallax	1	0	2	0	0
106	4	s2	71	Xanthomendoza fallax	0	0	0	0	1
106	5	s1	237	Phaeophyscia adiaetola	1	0	0	0	0
106	5	a	331	Physcia adscendens	5	0	0	0	3
106	5	r	153	Physcia adscendens	0	0	2	0	5
106	5	s1	237	Physcia adscendens	0	0	4	1	1
106	5	s2	63	Physcia adscendens	0	1	4	1	1
106	5	a	331	Physcia aipolia	1	0	0	0	0
106	5	s1	237	Physcia aipolia	0	0	1	0	0
106	5	s2	63	Physcia aipolia	0	0	1	0	0
106	5	r	153	Physciella chloantha	2	0	1	1	0
106	5	s2	63	Physciella chloantha	0	1	1	2	1
106	5	r	153	Xanthomendoza fallax	1	0	1	0	0
106	5	s1	237	Xanthomendoza fallax	0	0	1	0	0
107	1	a	335	Candelaria concolor	5	5	10	4	7
107	1	r	149	Candelaria concolor	4	5	7	5	2
107	1	s1	239	Candelaria concolor	4	6	2	0	1
107	1	s2	70	Candelaria concolor	6	5	9	8	4
107	1	r	149	Phaeophyscia adiaetola	2	0	0	0	0
107	1	s1	239	Phaeophyscia adiaetola	0	0	0	1	0
107	1	s2	70	Phaeophyscia adiaetola	1	0	0	2	1
107	1	r	149	Physcia adscendens	1	0	2	0	1
107	1	s2	70	Physcia adscendens	3	5	4	5	3
107	1	r	149	Physcia aipolia	0	0	0	0	2
107	1	s1	239	Physcia aipolia	0	0	0	0	1
107	1	s2	70	Physcia aipolia	0	0	2	0	0
107	1	a	335	Physcia millegrana	0	0	1	0	0
107	1	r	149	Physcia millegrana	0	0	1	0	0
107	1	s2	70	Physcia millegrana	0	2	0	0	1
107	1	a	335	Physciella chloantha	1	1	2	2	0
107	1	r	149	Physciella chloantha	0	1	0	0	0
107	1	s1	239	Physciella chloantha	2	0	0	0	0

Site	Tree	Side	Degrees	Lichen	Q1	Q2	Q3	Q4	Q5
107	1	a	335	Xanthomendoza fallax	0	0	0	1	0
107	1	r	149	Xanthomendoza fallax	0	2	1	3	3
107	1	s1	239	Xanthomendoza fallax	1	2	6	3	4
107	1	s2	70	Xanthomendoza fallax	0	0	1	0	0
107	2	a	318	Candelaria concolor	0	1	2	2	1
107	2	r	141	Candelaria concolor	10	7	2	7	4
107	2	s1	250	Candelaria concolor	8	9	5	2	5
107	2	s2	46	Candelaria concolor	0	0	0	1	0
107	2	r	141	Hyperphyscia adglutinata	2	0	0	0	0
107	2	r	141	Parmelia sulcata	2	1	2	1	1
107	2	s1	250	Parmelia sulcata	2	0	5	0	1
107	2	s2	46	Parmelia sulcata	2	2	0	0	0
107	2	a	318	Phaeophyscia adiaetola	0	0	1	0	0
107	2	r	141	Phaeophyscia adiaetola	0	1	2	3	1
107	2	s1	250	Phaeophyscia adiaetola	0	0	0	7	2
107	2	s2	46	Phaeophyscia adiaetola	0	0	1	0	0
107	2	a	318	Physcia adscendens	14	7	6	7	5
107	2	r	141	Physcia adscendens	0	1	0	0	0
107	2	s1	250	Physcia adscendens	3	0	1	3	8
107	2	s2	46	Physcia adscendens	8	6	12	11	9
107	2	a	318	Physcia aipolia	1	0	2	1	1
107	2	r	141	Physcia aipolia	1	1	3	2	3
107	2	s1	250	Physcia aipolia	1	5	3	3	1
107	2	s2	46	Physcia aipolia	1	1	1	0	0
107	2	a	318	Physcia millegrana	1	1	0	0	1
107	2	s1	250	Physcia millegrana	0	0	0	1	0
107	2	s2	46	Physcia millegrana	0	1	1	2	2
107	2	a	318	Physciella chloantha	0	1	0	0	0
107	2	r	141	Xanthomendoza fallax	0	2	3	0	1
107	2	s1	250	Xanthomendoza fallax	1	1	2	1	0
107	3	a	338	Candelaria concolor	0	0	1	1	0
107	3	r	143	Candelaria concolor	5	2	2	3	2
107	3	s1	247	Candelaria concolor	3	2	4	2	3
107	3	s2	69	Candelaria concolor	2	2	6	5	2
107	3	s2	69	Hyperphyscia adglutinata	1	0	0	0	1
107	3	r	143	Parmelia sulcata	4	2	1	1	0
107	3	s1	247	Parmelia sulcata	0	3	0	0	1
107	3	s2	69	Parmelia sulcata	2	1	1	2	4
107	3	a	338	Phaeophyscia adiaetola	0	0	0	1	0
107	3	r	143	Phaeophyscia adiaetola	0	1	0	1	2
107	3	s1	247	Phaeophyscia adiaetola	1	1	1	1	0
107	3	s2	69	Phaeophyscia adiaetola	0	0	0	0	1
107	3	a	338	Physcia adscendens	12	5	5	7	14
107	3	r	143	Physcia adscendens	1	0	0	1	0
107	3	s1	247	Physcia adscendens	0	0	1	0	0
107	3	s2	69	Physcia adscendens	5	5	4	6	5
107	3	r	143	Physcia aipolia	3	4	1	1	0
107	3	s1	247	Physcia aipolia	0	4	2	2	0
107	3	s2	69	Physcia aipolia	4	2	2	3	2
107	3	a	338	Physcia millegrana	2	2	2	3	3
107	3	r	143	Physcia millegrana	0	3	0	0	2
107	3	s1	247	Physcia millegrana	1	1	0	0	0
107	3	s2	69	Physcia millegrana	2	2	2	1	1
107	3	s2	69	Physconia detorsa	0	0	1	0	0
107	3	a	338	Xanthomendoza fallax	0	0	1	0	0

Site	Tree	Side	Degrees	Lichen	Q1	Q2	Q3	Q4	Q5
107	3	r	143	Xanthomendoza fallax	3	4	10	9	8
107	3	s1	247	Xanthomendoza fallax	4	0	2	4	2
107	3	s2	69	Xanthomendoza fallax	0	1	0	0	0
107	4	a	343	Candelaria concolor	15	11	13	15	15
107	4	r	152	Candelaria concolor	6	6	9	7	11
107	4	s1	260	Candelaria concolor	7	10	8	10	12
107	4	s2	70	Candelaria concolor	6	6	10	3	11
107	4	a	343	Physcia adscendens	3	3	2	1	1
107	4	r	152	Physcia adscendens	4	1	1	0	0
107	4	s2	70	Physcia adscendens	5	10	10	10	5
107	4	r	152	Physcia aipolia	0	0	0	1	0
107	4	r	152	Physcia millegrana	1	0	1	0	0
107	4	r	152	Physciella chloantha	0	2	0	0	0
107	4	a	343	Physconia detera	0	1	0	0	0
107	5	a	351	Candelaria concolor	5	6	3	5	4
107	5	r	160	Candelaria concolor	3	2	1	2	4
107	5	s1	246	Candelaria concolor	5	3	5	7	4
107	5	s2	82	Candelaria concolor	0	0	0	0	2
107	5	a	351	Physcia adscendens	8	5	8	7	9
107	5	r	160	Physcia adscendens	1	3	1	2	5
107	5	s1	246	Physcia adscendens	1	1	1	2	2
107	5	s2	82	Physcia adscendens	13	10	11	10	5
107	5	a	351	Physcia aipolia	0	1	0	0	0
107	5	s1	246	Physcia aipolia	1	0	0	0	0
107	5	s2	82	Physcia aipolia	0	1	0	0	0
107	5	r	160	Physcia millegrana	1	1	0	0	0
107	5	s2	82	Physcia millegrana	2	0	0	0	0
107	5	a	351	Physconia detera	0	0	0	0	1
107	5	a	351	Xanthomendoza fallax	5	1	1	4	1
107	5	r	160	Xanthomendoza fallax	9	8	8	6	6
107	5	s1	246	Xanthomendoza fallax	7	5	6	5	6
107	5	s2	82	Xanthomendoza fallax	1	2	2	1	4
108	1	a	356	Candelaria concolor	2	4	2	1	5
108	1	r	173	Candelaria concolor	1	1	0	0	0
108	1	s1	265	Candelaria concolor	2	5	1	2	1
108	1	s2	90	Candelaria concolor	0	0	0	5	5
108	1	a	356	Phaeophyscia adiastrata	0	0	1	0	0
108	1	a	356	Phaeophyscia ciliata	0	0	0	2	2
108	1	s1	265	Phaeophyscia ciliata	0	0	1	0	0
108	1	a	356	Physcia adscendens	0	0	0	0	2
108	1	s2	90	Physcia aipolia	0	1	0	0	0
108	1	a	356	Physcia stellaris	0	0	0	0	1
108	1	a	356	Physciella chloantha	1	2	2	6	1
108	1	r	173	Physciella chloantha	6	9	12	11	10
108	1	s1	265	Physciella chloantha	4	0	1	0	1
108	1	s2	90	Physciella chloantha	0	0	0	2	0
108	1	a	356	Xanthomendoza fallax	6	7	5	4	4
108	1	r	173	Xanthomendoza fallax	3	1	1	0	0
108	1	s1	265	Xanthomendoza fallax	5	0	1	2	2
108	1	s2	90	Xanthomendoza fallax	5	12	5	6	3
108	2	a	357	Candelaria concolor	0	3	0	1	4
108	2	r	186	Candelaria concolor	6	4	2	3	6
108	2	s1	272	Candelaria concolor	7	7	8	7	7
108	2	s2	97	Candelaria concolor	2	1	4	10	6
108	2	r	186	Flavoparmelia caperata	0	0	1	0	0

Site	Tree	Side	Degrees	Lichen	Q1	Q2	Q3	Q4	Q5
108	2	a	357	Parmelia sulcata	1	2	1	1	5
108	2	s1	272	Parmelia sulcata	0	0	1	0	2
108	2	s2	97	Parmelia sulcata	0	0	1	0	3
108	2	a	357	Phaeophyscia adiaetola	1	1	1	1	0
108	2	r	186	Phaeophyscia adiaetola	1	0	0	0	0
108	2	s1	272	Phaeophyscia adiaetola	0	1	0	0	0
108	2	s2	97	Phaeophyscia adiaetola	0	0	1	1	0
108	2	a	357	Phaeophyscia rubripulchra	0	0	0	1	0
108	2	a	357	Physcia adscendens	1	3	2	5	0
108	2	s1	272	Physcia adscendens	7	3	4	2	0
108	2	s2	97	Physcia adscendens	6	7	1	3	4
108	2	a	357	Physcia aipolia	2	1	1	0	0
108	2	s1	272	Physcia aipolia	0	0	1	0	1
108	2	s2	97	Physcia aipolia	1	0	1	0	0
108	2	a	357	Physcia millegrana	0	1	0	0	0
108	2	s2	97	Physcia millegrana	1	0	0	0	1
108	2	r	186	Physcia stellaris	2	1	2	1	1
108	2	a	357	Physciella chloantha	0	0	1	0	0
108	2	r	186	Physciella chloantha	1	1	0	0	0
108	2	s1	272	Physciella chloantha	1	0	0	0	0
108	2	s2	97	Physciella chloantha	0	3	1	0	0
108	2	a	357	Xanthomendoza fallax	0	0	1	0	0
108	2	r	186	Xanthomendoza fallax	6	6	10	5	8
108	2	s1	272	Xanthomendoza fallax	1	2	1	2	6
108	2	s2	97	Xanthomendoza fallax	0	2	0	0	4
108	3	r	313	Candelaria concolor	6	3	2	3	2
108	3	s1	43	Candelaria concolor	0	1	0	1	0
108	3	s2	238	Candelaria concolor	7	5	3	5	9
108	3	r	313	Hyperphyscia adglutinata	0	0	0	1	0
108	3	s2	238	Hyperphyscia adglutinata	0	1	0	0	0
108	3	r	313	Parmelia sulcata	0	0	0	0	1
108	3	s1	43	Parmelia sulcata	0	0	0	1	0
108	3	s2	238	Phaeophyscia adiaetola	0	1	0	0	0
108	3	r	313	Physcia adscendens	0	0	0	0	1
108	3	a	149	Physcia aipolia	2	0	0	0	1
108	3	r	313	Physcia aipolia	2	1	5	6	2
108	3	s1	43	Physcia aipolia	3	13	4	7	9
108	3	s2	238	Physcia aipolia	7	0	2	1	0
108	3	r	313	Physciella chloantha	3	0	0	0	0
108	3	s2	238	Physconia detorsa	0	0	0	1	0
108	3	r	313	Xanthomendoza fallax	5	12	11	6	7
108	3	s1	43	Xanthomendoza fallax	0	0	1	0	1
108	3	s2	238	Xanthomendoza fallax	0	4	3	4	2
108	4	r	278	Candelaria concolor	0	1	0	1	0
108	4	s1	25	Hyperphyscia adglutinata	0	1	0	0	0
108	4	r	278	Physcia aipolia	0	1	0	0	1
108	4	s1	25	Physcia aipolia	1	0	0	0	0
108	4	r	278	Physciella chloantha	0	1	0	0	0
108	4	s1	25	Physciella chloantha	0	0	0	1	0
108	4	r	278	Xanthomendoza fallax	0	3	4	7	4
108	4	s1	25	Xanthomendoza fallax	4	2	5	1	0
108	4	s2	202	Xanthomendoza fallax	0	2	1	3	2
108	5	r	272	Candelaria concolor	0	0	4	1	3
108	5	s1	5	Candelaria concolor	0	0	1	0	0
108	5	r	272	Hyperphyscia adglutinata	2	2	0	8	5

Site	Tree	Side	Degrees	Lichen	Q1	Q2	Q3	Q4	Q5
108	5	s1	5	Hyperphyscia adglutinata	0	0	1	0	0
108	5	s2	189	Hyperphyscia adglutinata	0	0	0	0	2
108	5	r	272	Physcia aipolia	0	0	2	0	1
108	5	s1	5	Physcia aipolia	0	1	1	0	0
108	5	r	272	Physciella chloantha	0	0	2	2	1
109	1	a	149	Candelaria concolor	7	5	2	5	2
109	1	r	315	Candelaria concolor	6	4	6	4	4
109	1	s1	65	Candelaria concolor	9	4	4	6	2
109	1	s2	238	Candelaria concolor	4	4	7	7	5
109	1	a	149	Hyperphyscia adglutinata	0	0	1	0	2
109	1	r	315	Hyperphyscia adglutinata	0	0	2	2	3
109	1	s1	65	Hyperphyscia adglutinata	0	3	3	2	0
109	1	r	315	Parmelia sulcata	0	0	0	0	1
109	1	s1	65	Phaeophyscia adiaetola	0	0	1	0	0
109	1	a	149	Phaeophyscia pussiloides	0	0	0	0	1
109	1	s1	65	Phaeophyscia pussiloides	1	0	0	1	0
109	1	a	149	Physcia adscendens	1	0	0	0	0
109	1	r	315	Physcia adscendens	0	0	0	0	1
109	1	a	149	Physcia aipolia	0	0	1	0	1
109	1	s1	65	Physcia aipolia	0	0	3	0	0
109	1	s2	238	Physcia aipolia	1	0	0	0	0
109	1	a	149	Physcia millegrana	2	0	2	1	0
109	1	r	315	Physcia millegrana	0	0	0	0	1
109	1	s1	65	Physcia millegrana	1	0	1	0	0
109	1	a	149	Physciella chloantha	0	1	1	1	0
109	1	r	315	Physciella chloantha	0	1	0	0	0
109	1	s2	238	Physciella chloantha	0	2	0	0	1
109	1	a	149	Xanthomendoza fallax	0	0	0	0	1
109	1	r	315	Xanthomendoza fallax	0	0	0	0	1
109	1	s1	65	Xanthomendoza fallax	0	0	1	0	0
109	1	s2	238	Xanthomendoza fallax	0	0	0	1	0
109	2	r	318	Candelaria concolor	3	4	2	3	4
109	2	s1	61	Candelaria concolor	6	5	6	1	2
109	2	s2	238	Candelaria concolor	2	2	2	1	0
109	2	s1	61	Parmelia sulcata	2	1	0	0	0
109	2	r	318	Phaeophyscia adiaetola	1	0	0	1	1
109	2	r	318	Phaeophyscia rubripulchra	1	2	0	0	0
109	2	r	318	Physcia adscendens	0	1	0	2	0
109	2	s1	61	Physcia adscendens	0	0	1	2	4
109	2	s1	61	Physcia millegrana	3	0	0	1	1
109	2	a	145	Physciella chloantha	0	1	0	0	0
109	2	r	318	Physciella chloantha	0	0	0	1	0
109	2	r	318	Xanthomendoza fallax	3	1	2	0	4
109	2	s1	61	Xanthomendoza fallax	0	1	0	1	1
109	2	s2	238	Xanthomendoza fallax	2	0	0	0	0
109	3	s2	114	Candelaria concolor	0	1	0	0	0
109	3	a	25	Phaeophyscia adiaetola	1	0	0	0	0
109	3	s2	114	Physciella chloantha	0	1	2	2	0
109	3	a	25	Xanthomendoza fallax	1	1	1	2	1
109	3	r	183	Xanthomendoza fallax	11	3	3	2	2
109	3	s1	292	Xanthomendoza fallax	0	2	1	0	0
109	3	s2	114	Xanthomendoza fallax	2	2	2	4	7
109	5	a	25	Candelaria concolor	2	1	1	4	4
109	5	r	287	Candelaria concolor	3	4	1	3	5
109	5	s1	188	Candelaria concolor	0	0	4	0	2

Site	Tree	Side	Degrees	Lichen	Q1	Q2	Q3	Q4	Q5
109	5	s2	103	Candelaria concolor	0	1	0	1	0
109	5	a	25	Hyperphyscia adglutinata	3	3	5	3	5
109	5	r	287	Hyperphyscia adglutinata	2	0	2	2	1
109	5	s1	188	Hyperphyscia adglutinata	0	0	0	1	0
109	5	r	287	Phaeophyscia adlastola	0	0	0	0	2
109	5	a	25	Phaeophyscia pussiloides	0	0	1	0	0
109	5	a	25	Physcia aipolia	1	2	0	0	1
109	5	r	287	Physcia aipolia	2	1	2	2	2
109	5	s1	188	Physcia aipolia	0	0	1	0	0
109	5	a	25	Physcia millegrana	0	0	1	0	1
109	5	a	25	Physciella chloantha	0	0	0	0	1
109	5	r	287	Physciella chloantha	0	1	3	0	1
109	5	s1	188	Physciella chloantha	0	0	0	0	1
109	5	s2	103	Physciella chloantha	0	0	0	1	1
109	5	a	25	Xanthomendoza fallax	1	0	0	1	0
109	5	r	287	Xanthomendoza fallax	3	1	3	2	1
109	5	s1	188	Xanthomendoza fallax	0	3	4	3	1
110	1	a	155	Candelaria concolor	1	1	2	1	1
110	1	r	330	Candelaria concolor	2	0	3	3	2
110	1	s1	70	Candelaria concolor	4	6	4	5	7
110	1	s2	249	Candelaria concolor	1	1	1	4	6
110	1	s1	70	Parmelia sulcata	0	0	1	0	0
110	1	r	330	Phaeophyscia adlastola	0	2	0	0	0
110	1	s1	70	Phaeophyscia adlastola	0	0	1	0	0
110	1	r	330	Physcia adscendens	3	0	1	0	2
110	1	r	330	Physcia aipolia	0	1	0	0	0
110	1	s2	249	Physciella chloantha	0	1	1	0	0
110	1	r	330	Physconia detersa	1	0	0	0	1
110	1	s1	70	Physconia detersa	0	0	0	0	1
110	1	a	155	Xanthomendoza fallax	9	3	6	4	4
110	1	r	330	Xanthomendoza fallax	3	13	9	6	3
110	1	s1	70	Xanthomendoza fallax	2	6	4	4	2
110	1	s2	249	Xanthomendoza fallax	1	1	1	2	1
110	2	a	159	Candelaria concolor	1	1	7	6	5
110	2	r	329	Candelaria concolor	1	2	2	2	1
110	2	s1	61	Candelaria concolor	6	8	7	4	3
110	2	s2	248	Candelaria concolor	4	2	1	2	12
110	2	s1	61	Parmelia sulcata	0	0	1	0	0
110	2	r	329	Phaeophyscia adlastola	0	0	2	0	0
110	2	r	329	Physcia adscendens	0	0	1	1	0
110	2	s1	61	Physcia adscendens	0	0	2	2	2
110	2	s1	61	Physcia aipolia	0	2	1	0	0
110	2	s2	248	Physcia stellaris	1	0	0	0	0
110	2	a	159	Xanthomendoza fallax	7	4	5	7	6
110	2	r	329	Xanthomendoza fallax	3	4	4	2	3
110	2	s1	61	Xanthomendoza fallax	6	3	1	4	1
110	2	s2	248	Xanthomendoza fallax	1	6	5	3	0
110	3	a	153	Candelaria concolor	2	3	0	6	8
110	3	r	329	Candelaria concolor	0	2	1	0	2
110	3	s1	63	Candelaria concolor	0	2	1	0	1
110	3	s2	244	Candelaria concolor	7	4	2	5	4
110	3	a	153	Hyperphyscia adglutinata	3	4	2	3	1
110	3	s1	63	Hyperphyscia adglutinata	1	0	0	0	0
110	3	r	329	Parmelia sulcata	2	2	2	6	2
110	3	s1	63	Parmelia sulcata	3	4	5	9	8

Site	Tree	Side	Degrees	Lichen	Q1	Q2	Q3	Q4	Q5
110	3	a	153	<i>Physcia adscendens</i>	0	0	2	3	0
110	3	r	329	<i>Physcia adscendens</i>	2	5	9	6	7
110	3	s1	63	<i>Physcia adscendens</i>	11	3	2	0	2
110	3	s2	244	<i>Physcia adscendens</i>	0	0	1	3	3
110	3	a	153	<i>Physcia aipolia</i>	6	1	0	0	0
110	3	r	329	<i>Physcia aipolia</i>	2	1	0	0	1
110	3	s2	244	<i>Physcia aipolia</i>	0	1	0	0	0
110	3	a	153	<i>Physcia millegrana</i>	0	0	0	0	1
110	3	r	329	<i>Physcia millegrana</i>	0	1	0	0	0
110	3	s1	63	<i>Physcia millegrana</i>	1	0	0	0	0
110	3	s2	244	<i>Physcia millegrana</i>	1	1	0	5	3
110	3	a	153	<i>Physcia stellaris</i>	0	2	4	2	4
110	3	s2	244	<i>Physcia stellaris</i>	3	1	1	0	1
110	3	a	153	<i>Physciella chloantha</i>	0	0	0	1	0
110	3	s1	63	<i>Physciella chloantha</i>	0	0	1	0	0
110	3	s2	244	<i>Physciella chloantha</i>	0	0	0	0	1
110	3	a	153	<i>Xanthomendoza fallax</i>	2	1	1	0	0
110	3	r	329	<i>Xanthomendoza fallax</i>	1	0	0	0	0
110	3	s1	63	<i>Xanthomendoza fallax</i>	0	0	0	1	1
110	3	s2	244	<i>Xanthomendoza fallax</i>	3	6	6	2	1
110	4	a	152	<i>Candelaria concolor</i>	0	0	0	0	4
110	4	r	330	<i>Candelaria concolor</i>	2	3	1	1	0
110	4	s1	64	<i>Candelaria concolor</i>	4	1	1	1	2
110	4	s2	245	<i>Candelaria concolor</i>	2	1	0	1	1
110	4	s2	245	<i>Flavoparmelia caperata</i>	0	0	0	1	0
110	4	a	152	<i>Hyperphyscia adglutinata</i>	1	1	0	0	0
110	4	r	330	<i>Hyperphyscia adglutinata</i>	3	4	1	0	0
110	4	s1	64	<i>Hyperphyscia adglutinata</i>	0	2	1	3	2
110	4	a	152	<i>Parmelia sulcata</i>	0	1	0	0	0
110	4	a	152	<i>Phaeophyscia adiaetola</i>	0	0	0	1	0
110	4	r	330	<i>Phaeophyscia adiaetola</i>	2	3	7	6	5
110	4	s1	64	<i>Phaeophyscia adiaetola</i>	2	0	1	0	0
110	4	s2	245	<i>Phaeophyscia adiaetola</i>	2	0	0	0	1
110	4	a	152	<i>Physcia adscendens</i>	0	0	0	0	1
110	4	s1	64	<i>Physcia adscendens</i>	0	0	1	0	2
110	4	s2	245	<i>Physcia adscendens</i>	1	1	1	0	0
110	4	a	152	<i>Physcia aipolia</i>	0	0	1	0	0
110	4	r	330	<i>Physcia aipolia</i>	0	0	1	0	2
110	4	s1	64	<i>Physcia aipolia</i>	0	2	0	0	0
110	4	a	152	<i>Physcia millegrana</i>	5	8	4	8	4
110	4	s1	64	<i>Physcia millegrana</i>	0	0	2	1	1
110	4	s2	245	<i>Physcia millegrana</i>	0	1	1	0	1
110	4	a	152	<i>Physcia stellaris</i>	4	2	3	0	1
110	4	r	330	<i>Physcia stellaris</i>	7	4	3	6	7
110	4	s1	64	<i>Physcia stellaris</i>	4	6	3	6	3
110	4	s2	245	<i>Physcia stellaris</i>	1	1	0	0	0
110	4	a	152	<i>Physciella chloantha</i>	0	1	0	0	0
110	4	r	330	<i>Physciella chloantha</i>	1	2	2	1	0
110	4	s2	245	<i>Physciella chloantha</i>	3	1	0	0	0
110	4	a	152	<i>Physconia detersa</i>	0	0	0	0	2
110	4	r	330	<i>Physconia detersa</i>	2	2	0	0	3
110	4	s1	64	<i>Physconia detersa</i>	0	0	1	0	0
110	4	a	152	<i>Xanthomendoza fallax</i>	2	5	5	2	4
110	4	r	330	<i>Xanthomendoza fallax</i>	1	0	0	2	1
110	4	s1	64	<i>Xanthomendoza fallax</i>	1	6	8	8	4

Site	Tree	Side	Degrees	Lichen	Q1	Q2	Q3	Q4	Q5
110	4	s2	245	Xanthomendoza fallax	7	7	9	9	8
110	5	a	153	Candelaria concolor	1	3	1	4	2
110	5	r	329	Candelaria concolor	4	1	0	0	0
110	5	s1	65	Candelaria concolor	2	0	1	0	0
110	5	s2	244	Candelaria concolor	3	5	2	7	3
110	5	r	329	Physcia adscendens	1	10	7	8	6
110	5	s1	65	Physcia adscendens	6	8	8	5	4
110	5	s2	244	Physcia adscendens	2	3	5	1	2
110	5	a	153	Physcia millegrana	1	0	0	0	0
110	5	r	329	Physcia stellaris	2	0	5	1	0
110	5	s1	65	Physcia stellaris	0	1	0	0	1
110	5	a	153	Physciella chloantha	0	1	0	0	0
110	5	s1	65	Physconia detera	0	0	0	8	8
110	5	a	153	Xanthomendoza fallax	0	2	2	3	1
110	5	s1	65	Xanthomendoza fallax	1	1	1	0	0
110	5	s2	244	Xanthomendoza fallax	1	1	0	1	5
111	1	a	272	Candelaria concolor	5	2	2	1	2
111	1	r	92	Candelaria concolor	0	1	8	2	8
111	1	s2	9	Candelaria concolor	0	0	1	0	0
111	1	a	272	Hyperphyscia adglutinata	1	1	1	0	0
111	1	r	92	Hyperphyscia adglutinata	5	1	0	0	0
111	1	s1	176	Hyperphyscia adglutinata	0	0	0	1	1
111	1	a	272	Physcia adscendens	1	0	2	0	0
111	1	r	92	Physcia adscendens	0	0	0	0	1
111	1	a	272	Physcia aipolia	1	2	1	1	0
111	1	r	92	Physcia aipolia	8	6	3	2	2
111	1	s1	176	Physcia aipolia	1	3	1	3	3
111	1	s2	9	Physcia aipolia	4	5	6	5	2
111	1	a	272	Xanthomendoza fallax	3	6	4	9	8
111	1	r	92	Xanthomendoza fallax	2	3	6	1	1
111	1	s1	176	Xanthomendoza fallax	0	0	0	0	1
111	1	s2	9	Xanthomendoza fallax	5	3	2	4	4
111	2	r	355	Candelaria concolor	0	0	0	0	3
111	2	s2	249	Candelaria concolor	0	0	0	1	0
111	2	a	163	Hyperphyscia adglutinata	0	0	0	0	1
111	2	r	355	Hyperphyscia adglutinata	0	0	0	4	2
111	2	s2	249	Hyperphyscia adglutinata	0	1	0	1	3
111	2	r	355	Physcia aipolia	0	1	0	0	0
111	3	a	169	Candelaria concolor	1	3	0	0	0
111	3	r	353	Candelaria concolor	2	0	1	2	1
111	3	s1	79	Candelaria concolor	0	1	0	0	0
111	3	s2	256	Candelaria concolor	4	3	4	1	1
111	3	r	353	Physciella chloantha	0	0	0	1	0
111	3	s1	79	Physciella chloantha	0	0	1	1	0
111	3	s2	256	Physciella chloantha	0	0	1	2	6
111	3	a	169	Xanthomendoza fallax	0	0	0	1	3
111	3	r	353	Xanthomendoza fallax	1	1	1	3	0
111	3	s1	79	Xanthomendoza fallax	1	1	2	3	2
111	3	s2	256	Xanthomendoza fallax	3	5	3	4	1
111	4	a	250	Candelaria concolor	1	2	6	2	8
111	4	r	163	Candelaria concolor	0	0	1	0	1
111	4	s1	261	Candelaria concolor	2	1	3	8	5
111	4	s2	75	Candelaria concolor	0	0	1	2	1
111	4	s2	75	Hyperphyscia adglutinata	0	0	0	0	1
111	4	a	250	Parmelia sulcata	1	0	0	0	0

Site	Tree	Side	Degrees	Lichen	Q1	Q2	Q3	Q4	Q5
111	4	s2	75	Parmelia sulcata	0	0	0	0	1
111	4	a	250	Phaeophyscia adiastrata	1	0	0	0	0
111	4	r	163	Phaeophyscia adiastrata	0	1	0	1	0
111	4	r	163	Phaeophyscia pusilloides	0	0	0	0	1
111	4	a	250	Physcia aipolia	1	2	5	2	2
111	4	r	163	Physcia aipolia	8	6	7	6	8
111	4	s1	261	Physcia aipolia	3	1	3	2	2
111	4	s2	75	Physcia aipolia	11	4	9	7	4
111	4	r	163	Physcia stellaris	0	1	1	1	0
111	4	s1	261	Physcia stellaris	1	1	0	0	0
111	4	s2	75	Physcia stellaris	0	3	0	0	0
111	4	r	163	Xanthomendoza fallax	0	1	2	2	3
111	4	s1	261	Xanthomendoza fallax	4	4	2	0	1
111	4	s2	75	Xanthomendoza fallax	0	1	0	0	0
111	5	a	341	Candelaria concolor	0	0	1	0	4
111	5	r	173	Candelaria concolor	2	2	8	8	9
111	5	s1	257	Candelaria concolor	7	8	6	2	1
111	5	s2	79	Candelaria concolor	2	1	2	3	4
111	5	r	173	Phaeophyscia adiastrata	0	2	0	1	0
111	5	s1	257	Phaeophyscia adiastrata	1	0	0	0	0
111	5	a	341	Physciella chloantha	0	0	1	0	1
111	5	s1	257	Physciella chloantha	1	1	2	1	3
111	5	s2	79	Physciella chloantha	1	1	1	1	2
111	5	a	341	Xanthomendoza fallax	0	0	1	1	0
111	5	r	173	Xanthomendoza fallax	1	0	0	1	0
111	5	s1	257	Xanthomendoza fallax	0	0	0	2	0
112	1	a	25	Candelaria concolor	0	0	1	0	0
112	1	r	204	Candelaria concolor	0	3	1	0	2
112	1	s1	292	Candelaria concolor	0	0	3	3	2
112	1	s2	113	Candelaria concolor	1	0	3	3	5
112	1	s2	113	Flavoparmelia caperata	0	0	0	0	1
112	1	a	25	Hyperphyscia adglutinata	0	0	1	0	0
112	1	s1	292	Hyperphyscia adglutinata	1	6	2	0	0
112	1	s2	113	Hyperphyscia adglutinata	2	1	1	0	0
112	1	a	25	Parmelia sulcata	0	0	2	1	2
112	1	a	25	Physcia millegrana	4	4	8	5	2
112	1	r	204	Physcia millegrana	3	1	3	2	5
112	1	s1	292	Physcia millegrana	0	0	0	1	0
112	1	s2	113	Physcia millegrana	3	7	6	4	2
112	1	r	204	Physciella chloantha	7	9	6	8	5
112	1	s1	292	Physciella chloantha	1	0	0	1	2
112	1	s2	113	Physciella chloantha	6	2	2	3	4
112	1	r	204	Xanthomendoza fallax	1	0	0	0	0
112	2	a	297	Candelaria concolor	1	1	2	6	4
112	2	r	113	Candelaria concolor	2	2	7	14	11
112	2	s1	210	Candelaria concolor	2	1	4	8	1
112	2	s2	31	Candelaria concolor	3	7	4	6	12
112	2	s2	31	Hyperphyscia adglutinata	1	0	0	0	0
112	2	s2	31	Phaeophyscia rubripulchra	0	1	0	0	1
112	2	a	297	Physcia millegrana	0	1	0	0	0
112	2	s1	210	Physcia millegrana	0	0	1	1	0
112	2	s2	31	Physcia millegrana	2	2	0	1	0
112	2	a	297	Physciella chloantha	2	0	1	0	0
112	2	r	113	Physciella chloantha	6	3	1	1	0
112	2	s1	210	Physciella chloantha	4	6	2	3	5

Site	Tree	Side	Degrees	Lichen	Q1	Q2	Q3	Q4	Q5
112	2	s2	31	Physciella chloantha	8	4	1	3	2
112	3	s2	48	Candelaria concolor	1	0	0	0	0
112	3	s2	48	Physcia millegrana	0	1	0	0	0
112	3	a	292	Physciella chloantha	0	0	0	1	0
112	3	s1	208	Physciella chloantha	0	0	0	0	1
112	3	s2	48	Physciella chloantha	1	0	0	1	3
112	4	a	118	Candelaria concolor	5	8	2	3	3
112	4	r	288	Candelaria concolor	9	5	9	8	4
112	4	s1	30	Candelaria concolor	0	1	0	0	0
112	4	s2	212	Candelaria concolor	0	2	1	0	0
112	4	r	288	Hyperphyscia adglutinata	0	0	1	0	0
112	4	a	118	Phaeophyscia adiastrata	0	1	1	1	0
112	4	r	288	Phaeophyscia adiastrata	0	1	0	0	2
112	4	s1	30	Phaeophyscia adiastrata	4	3	3	3	3
112	4	s2	212	Phaeophyscia adiastrata	0	1	0	0	0
112	4	a	118	Physcia stellaris	2	1	1	0	1
112	4	r	288	Physcia stellaris	2	1	0	1	1
112	4	s1	30	Physcia stellaris	5	1	3	5	1
112	4	s2	212	Physcia stellaris	1	2	0	1	1
112	4	a	118	Physciella chloantha	1	0	2	1	1
112	4	r	288	Physciella chloantha	1	6	3	1	1
112	4	s1	30	Physciella chloantha	10	3	1	2	0
112	4	s2	212	Physciella chloantha	9	3	3	3	4
112	4	a	118	Xanthomendoza fallax	1	0	1	6	9
112	4	r	288	Xanthomendoza fallax	1	1	0	1	0
112	4	s1	30	Xanthomendoza fallax	1	3	3	1	2
112	4	s2	212	Xanthomendoza fallax	1	0	1	5	4
112	5	a	299	Candelaria concolor	5	1	1	0	2
112	5	r	118	Candelaria concolor	1	1	1	3	0
112	5	s1	209	Candelaria concolor	0	1	0	1	0
112	5	s2	31	Candelaria concolor	0	1	2	0	0
112	5	a	299	Phaeophyscia adiastrata	0	0	0	0	1
112	5	r	118	Phaeophyscia adiastrata	0	0	4	1	1
112	5	s2	31	Phaeophyscia adiastrata	0	0	0	1	0
112	5	r	118	Phaeophyscia pussiloides	1	0	1	0	5
112	5	r	118	Physcia adscendens	1	0	0	0	0
112	5	s2	31	Physcia adscendens	1	2	3	0	1
112	5	r	118	Physcia aipolia	0	0	0	0	1
112	5	s1	209	Physcia aipolia	0	1	0	0	0
112	5	r	118	Physcia millegrana	0	1	0	0	1
112	5	s2	31	Physcia millegrana	1	1	0	0	0
112	5	a	299	Physcia stellaris	0	0	2	0	0
112	5	r	118	Physcia stellaris	5	1	0	2	2
112	5	s1	209	Physcia stellaris	0	0	0	1	0
112	5	a	299	Physciella chloantha	2	0	0	4	0
112	5	r	118	Physciella chloantha	1	0	0	0	0
112	5	a	299	Xanthomendoza fallax	1	1	0	0	0
112	5	r	118	Xanthomendoza fallax	0	0	0	1	0
112	5	s2	31	Xanthomendoza fallax	0	0	0	1	0
121	2	s1	260	Candelaria concolor	0	0	1	0	0
121	2	a	342	Physcia adscendens	1	1	1	0	0
121	2	a	342	Physcia millegrana	1	0	0	0	0
121	2	r	168	Physciella chloantha	0	1	2	0	0
121	2	a	342	Physciella chloantha	2	4	3	3	2
121	2	s2	82	Physciella chloantha	0	2	1	0	0

Site	Tree	Side	Degrees	Lichen	Q1	Q2	Q3	Q4	Q5
121	2	r	168	Xanthomendoza fallax	0	0	1	0	0
121	2	a	342	Xanthomendoza fallax	0	0	1	0	1
121	3	sl	262	Physcia stellaris	0	0	2	0	1
121	3	a	352	Physcia stellaris	2	4	2	1	2
121	3	sl	262	Physciella chloantha	0	1	0	0	0
121	3	a	352	Physciella chloantha	2	1	0	0	0
121	3	sl	262	Xanthomendoza fallax	0	0	0	0	1
121	3	a	352	Xanthomendoza fallax	0	1	1	1	1
121	4	a	350	Physcia stellaris	0	1	0	0	2
121	4	s2	284	Physciella chloantha	2	1	1	0	0
121	4	a	350	Physciella chloantha	12	6	9	10	6
121	4	s2	284	Xanthomendoza fallax	1	0	0	0	0
121	4	a	350	Xanthomendoza fallax	4	3	2	3	2
121	5	sl	268	Physciella chloantha	0	0	0	0	3
121	5	a	254	Physciella chloantha	0	0	0	0	1
121	5	sl	268	Xanthomendoza fallax	0	0	0	0	1
121	5	a	254	Xanthomendoza fallax	0	0	0	1	0
122	1	r	170	Candelaria concolor	0	0	0	1	0
122	1	a	312	Candelaria concolor	0	0	3	5	6
122	1	s2	50	Candelaria concolor	7	0	8	9	8
122	1	r	170	Phaeophyscia adiaetola	13	6	8	8	5
122	1	sl	226	Phaeophyscia adiaetola	0	6	1	0	0
122	1	s2	50	Phaeophyscia adiaetola	1	1	0	0	3
122	1	a	312	Physcia stellaris	0	0	0	0	1
122	1	sl	226	Physciella chloantha	8	3	1	5	3
122	1	a	312	Physciella chloantha	1	0	0	0	0
122	1	s2	50	Physciella chloantha	0	0	1	2	1
122	1	r	170	Xanthomendoza fallax	6	5	0	4	4
122	1	sl	226	Xanthomendoza fallax	1	1	4	2	3
122	1	a	312	Xanthomendoza fallax	2	2	1	0	0
122	1	s2	50	Xanthomendoza fallax	5	6	4	5	2
122	2	r	140	Candelaria concolor	0	0	1	0	0
122	2	a	314	Candelaria concolor	1	1	0	0	0
122	2	s2	50	Candelaria concolor	4	3	1	2	1
122	2	r	140	Hyperphyscia adglutinata	0	0	0	2	3
122	2	sl	242	Hyperphyscia adglutinata	0	0	1	0	0
122	2	a	314	Hyperphyscia adglutinata	0	0	0	0	1
122	2	r	140	Phaeophyscia adiaetola	3	1	0	2	1
122	2	a	314	Phaeophyscia adiaetola	1	2	5	5	2
122	2	s2	50	Phaeophyscia adiaetola	5	12	10	5	7
122	2	r	140	Physcia stellaris	0	0	0	0	1
122	2	sl	242	Physcia stellaris	0	2	0	0	0
122	2	sl	242	Physciella chloantha	7	6	9	7	10
122	2	a	314	Physciella chloantha	5	2	8	2	4
122	2	s2	50	Physciella chloantha	0	0	0	2	0
122	2	r	140	Xanthomendoza fallax	8	7	13	12	8
122	2	sl	242	Xanthomendoza fallax	1	1	0	2	2
122	2	a	314	Xanthomendoza fallax	0	3	0	0	0
122	2	s2	50	Xanthomendoza fallax	3	0	0	3	3
122	3	r	144	Candelaria concolor	7	2	0	3	3
122	3	sl	242	Candelaria concolor	1	0	2	3	2
122	3	a	328	Candelaria concolor	2	0	9	13	7
122	3	s2	52	Candelaria concolor	5	7	10	9	10
122	3	s2	52	Hyperphyscia adglutinata	0	1	1	0	0
122	3	r	144	Phaeophyscia adiaetola	3	7	3	3	0

Site	Tree	Side	Degrees	Lichen	Q1	Q2	Q3	Q4	Q5
122	3	s1	242	Phaeophyscia adiastrata	4	6	6	6	7
122	3	a	328	Phaeophyscia adiastrata	6	2	0	0	6
122	3	s2	52	Phaeophyscia adiastrata	3	1	0	3	2
122	3	a	328	Physcia adscendens	1	0	0	0	0
122	3	a	328	Physcia aipolia	1	1	2	0	2
122	3	s2	52	Physcia aipolia	0	1	0	1	1
122	3	r	144	Physcia stellaris	0	0	1	0	0
122	3	s1	242	Physcia stellaris	0	0	0	0	1
122	3	a	328	Physcia stellaris	3	2	0	3	0
122	3	s2	52	Physciella chloantha	2	0	2	0	1
122	3	r	144	Xanthomendoza fallax	5	6	11	5	8
122	3	s1	242	Xanthomendoza fallax	5	7	6	7	4
122	3	a	328	Xanthomendoza fallax	0	1	0	0	0
122	3	s2	52	Xanthomendoza fallax	4	3	5	1	5
122	4	r	142	Candelaria concolor	0	0	1	1	0
122	4	s1	238	Candelaria concolor	1	0	0	3	0
122	4	a	354	Candelaria concolor	4	6	5	6	6
122	4	s2	52	Candelaria concolor	1	2	5	2	0
122	4	s1	238	Hyperphyscia adglutinata	0	3	0	0	1
122	4	s2	52	Hyperphyscia adglutinata	0	0	0	0	7
122	4	r	142	Phaeophyscia adiastrata	9	4	6	7	4
122	4	s1	238	Phaeophyscia adiastrata	1	2	0	3	6
122	4	a	354	Phaeophyscia adiastrata	5	7	7	8	6
122	4	s2	52	Phaeophyscia adiastrata	3	3	5	6	1
122	4	s2	52	Physcia adscendens	0	0	0	1	0
122	4	a	354	Physciella chloantha	4	0	0	0	0
122	4	r	142	Xanthomendoza fallax	4	2	1	3	2
122	4	s1	238	Xanthomendoza fallax	0	0	1	7	2
122	4	a	354	Xanthomendoza fallax	1	0	0	1	2
122	4	s2	52	Xanthomendoza fallax	4	0	3	0	0
122	5	r	146	Candelaria concolor	0	1	4	6	5
122	5	s1	230	Candelaria concolor	4	9	7	7	1
122	5	s2	52	Candelaria concolor	0	2	5	0	2
122	5	r	146	Hyperphyscia adglutinata	7	8	8	8	11
122	5	s1	230	Hyperphyscia adglutinata	3	1	2	6	3
122	5	a	332	Hyperphyscia adglutinata	6	3	0	0	1
122	5	r	146	Phaeophyscia adiastrata	0	0	1	0	0
122	5	a	332	Phaeophyscia adiastrata	0	0	0	2	0
122	5	s2	52	Phaeophyscia adiastrata	5	10	9	16	14
122	5	s2	52	Physcia adscendens	0	0	0	1	0
122	5	s2	52	Physcia aipolia	0	1	0	0	0
122	5	r	146	Physcia stellaris	0	0	1	0	0
122	5	a	332	Physcia stellaris	0	1	0	0	0
122	5	s2	52	Physcia stellaris	0	1	0	0	0
122	5	a	332	Physciella chloantha	5	1	8	1	3
122	5	s2	52	Physciella chloantha	10	1	0	0	0
122	5	r	146	Xanthomendoza fallax	2	2	2	2	1
122	5	s1	230	Xanthomendoza fallax	0	0	1	0	0
122	5	a	332	Xanthomendoza fallax	2	5	0	0	0
122	5	s2	52	Xanthomendoza fallax	0	3	2	1	1
125	1	s1	66	Candelaria concolor	3	4	2	2	2
125	1	a	164	Candelaria concolor	0	0	1	2	0
125	1	r	346	Hyperphyscia adglutinata	2	0	1	0	0
125	1	a	164	Hyperphyscia adglutinata	0	1	3	2	2
125	1	s1	66	Parmelia sulcata	0	0	1	0	0

Site	Tree	Side	Degrees	Lichen	Q1	Q2	Q3	Q4	Q5
125	1	sl	66	Phaeophyscia adiaetola	8	10	7	6	8
125	1	a	164	Phaeophyscia adiaetola	1	1	1	0	0
125	1	sl	66	Phaeophyscia rubripulchra	0	0	0	1	0
125	1	sl	66	Physcia adscendens	2	1	1	1	2
125	1	a	164	Physcia adscendens	0	0	0	1	1
125	1	sl	66	Physcia aipolia	1	1	2	0	0
125	1	a	164	Physcia aipolia	1	0	0	0	0
125	1	sl	66	Physcia millegrana	0	1	0	1	0
125	1	a	164	Physcia millegrana	0	0	0	0	1
125	1	a	164	Physcia stellaris	1	0	0	0	0
125	1	sl	66	Physciella chloantha	0	0	1	1	1
125	1	a	164	Physciella chloantha	0	1	2	1	0
125	1	sl	66	Physciella melanchra	0	1	0	0	0
125	1	a	164	Physciella melanchra	0	0	0	0	1
125	1	sl	66	Physconia detera	0	0	0	0	1
125	1	sl	66	Xanthomendoza fallax	1	0	1	0	0
125	1	a	164	Xanthomendoza fallax	2	1	0	0	1
125	2	sl	74	Candelaria concolor	2	0	1	2	1
125	2	a	158	Candelaria concolor	0	2	1	2	2
125	2	a	158	Hyperphyscia adglutinata	2	8	11	5	5
125	2	sl	74	Parmelia sulcata	0	2	2	0	0
125	2	r	334	Phaeophyscia adiaetola	1	0	0	0	0
125	2	sl	74	Phaeophyscia adiaetola	5	12	1	4	1
125	2	a	158	Phaeophyscia adiaetola	3	2	11	1	1
125	2	sl	74	Phaeophyscia rubripulchra	0	0	0	0	3
125	2	r	334	Physcia adscendens	1	1	2	2	0
125	2	sl	74	Physcia adscendens	10	2	9	10	14
125	2	a	158	Physcia adscendens	2	3	0	1	1
125	2	sl	74	Physcia aipolia	2	0	0	0	0
125	2	a	158	Physcia aipolia	0	0	0	1	0
125	2	sl	74	Physcia millegrana	0	2	1	1	0
125	2	a	158	Physcia millegrana	0	0	1	0	3
125	2	r	334	Physcia stellaris	0	0	0	0	2
125	2	r	334	Physciella chloantha	0	1	0	1	0
125	2	a	158	Physciella chloantha	0	0	0	1	0
125	2	sl	74	Xanthomendoza fallax	0	0	1	0	0
125	2	a	158	Xanthomendoza fallax	1	1	1	1	1
125	3	sl	80	Candelaria concolor	2	1	9	4	8
125	3	a	168	Candelaria concolor	6	3	4	7	1
125	3	a	168	Hyperphyscia adglutinata	0	2	0	1	3
125	3	sl	80	Parmelia sulcata	0	1	0	0	0
125	3	sl	80	Phaeophyscia rubripulchra	0	0	0	1	0
125	3	r	356	Physcia adscendens	8	6	6	5	4
125	3	sl	80	Physcia adscendens	5	7	4	5	5
125	3	a	168	Physcia adscendens	2	4	2	0	1
125	3	sl	80	Physcia millegrana	3	2	1	2	0
125	3	a	168	Physciella chloantha	1	0	0	0	0
125	3	r	356	Physciella melanchra	0	0	1	0	0
125	3	a	168	Physciella melanchra	0	0	0	1	0
125	3	sl	80	Physconia detera	3	0	0	0	0
125	3	r	356	Xanthomendoza fallax	0	0	0	1	0
125	4	a	172	Candelaria concolor	0	0	1	0	0
125	4	a	172	Phaeophyscia adiaetola	2	2	2	0	0
125	4	s2	252	Phaeophyscia adiaetola	2	2	2	1	0
125	4	sl	106	Phaeophyscia rubripulchra	1	0	0	0	0

Site	Tree	Side	Degrees	Lichen	Q1	Q2	Q3	Q4	Q5
125	4	a	172	Phaeophyscia rubripulchra	0	1	0	0	0
125	4	r	352	Physciella melanchra	0	1	0	0	0
126	1	r	156	Candelaria concolor	1	2	1	3	2
126	1	s1	246	Candelaria concolor	1	2	1	1	1
126	1	a	324	Candelaria concolor	1	0	2	1	1
126	1	s2	70	Candelaria concolor	0	0	0	1	0
126	1	r	156	Hyperphyscia adglutinata	4	1	0	4	1
126	1	s1	246	Hyperphyscia adglutinata	0	2	1	0	0
126	1	r	156	Phaeophyscia adiaetola	0	2	1	0	3
126	1	s1	246	Phaeophyscia adiaetola	1	0	1	1	1
126	1	a	324	Phaeophyscia adiaetola	1	0	1	2	1
126	1	s2	70	Phaeophyscia adiaetola	2	1	4	2	2
126	1	a	324	Physcia adscendens	1	0	1	0	0
126	1	s2	70	Physcia adscendens	0	0	0	0	1
126	1	r	156	Physcia aipolia	0	1	0	1	1
126	1	s1	246	Physcia aipolia	0	1	0	0	0
126	1	a	324	Physcia aipolia	0	2	0	4	1
126	1	s2	70	Physcia aipolia	0	0	0	0	1
126	1	r	156	Physcia stellaris	0	1	0	0	0
126	1	s1	246	Physciella chloantha	0	0	1	0	0
126	1	a	324	Physciella chloantha	2	0	0	0	0
126	1	r	156	Xanthomendoza fallax	3	4	4	1	1
126	1	s1	246	Xanthomendoza fallax	1	0	0	2	0
126	1	a	324	Xanthomendoza fallax	1	1	1	0	1
126	1	s2	70	Xanthomendoza fallax	1	1	1	0	1
126	2	r	154	Candelaria concolor	1	0	1	2	3
126	2	s1	240	Candelaria concolor	2	2	1	0	1
126	2	a	344	Candelaria concolor	0	2	1	4	1
126	2	s2	60	Candelaria concolor	2	2	0	3	3
126	2	r	154	Phaeophyscia adiaetola	3	3	5	4	3
126	2	s1	240	Phaeophyscia adiaetola	0	1	2	3	3
126	2	a	344	Phaeophyscia adiaetola	0	1	0	0	2
126	2	s2	60	Phaeophyscia adiaetola	0	4	5	7	6
126	2	a	344	Physcia aipolia	0	2	1	0	0
126	2	a	344	Physciella chloantha	5	1	1	2	1
126	2	s2	60	Physciella chloantha	1	1	0	0	0
126	2	r	154	Xanthomendoza fallax	6	4	4	7	6
126	2	s1	240	Xanthomendoza fallax	0	2	1	1	1
126	2	a	344	Xanthomendoza fallax	2	1	0	0	0
126	2	s2	60	Xanthomendoza fallax	1	0	2	1	2
126	3	r	306	Candelaria concolor	3	1	0	4	2
126	3	s1	50	Candelaria concolor	3	2	3	2	3
126	3	a	146	Candelaria concolor	0	0	1	0	0
126	3	s2	226	Candelaria concolor	0	1	0	1	0
126	3	r	306	Phaeophyscia adiaetola	1	0	4	1	0
126	3	s1	50	Phaeophyscia adiaetola	2	4	2	2	2
126	3	s2	226	Phaeophyscia adiaetola	0	1	2	0	2
126	3	s1	50	Phaeophyscia ciliata	0	0	0	1	0
126	3	s1	50	Physcia aipolia	0	0	0	0	1
126	3	r	306	Xanthomendoza fallax	2	1	0	1	1
126	3	s1	50	Xanthomendoza fallax	0	0	0	1	2
126	3	s2	226	Xanthomendoza fallax	2	1	0	2	0
126	4	r	332	Candelaria concolor	2	5	4	5	0
126	4	s1	60	Candelaria concolor	3	1	1	3	0
126	4	a	150	Candelaria concolor	0	0	1	0	2

Site	Tree	Side	Degrees	Lichen	Q1	Q2	Q3	Q4	Q5
126	4	s2	236	Candelaria concolor	0	2	2	0	2
126	4	r	332	Phaeophyscia adiastrata	8	1	1	5	5
126	4	s1	60	Phaeophyscia adiastrata	4	2	3	1	6
126	4	a	150	Phaeophyscia adiastrata	2	0	0	2	1
126	4	s2	236	Phaeophyscia adiastrata	0	0	0	2	1
126	4	r	332	Phaeophyscia ciliata	1	1	0	0	0
126	4	s1	60	Phaeophyscia ciliata	1	0	1	0	0
126	4	r	332	Physcia aipolia	0	1	0	0	0
126	4	r	332	Xanthomendoza fallax	0	4	5	3	4
126	4	s1	60	Xanthomendoza fallax	0	2	2	1	1
126	4	a	150	Xanthomendoza fallax	1	0	0	0	0
126	4	s2	236	Xanthomendoza fallax	2	2	0	0	2
126	5	r	38	Candelaria concolor	1	1	0	0	2
126	5	r	38	Hyperphyscia adglutinata	0	1	0	0	0
127	1	r	86	Candelaria concolor	0	0	0	1	0
127	1	s1	168	Candelaria concolor	14	14	16	16	10
127	1	a	266	Candelaria concolor	5	7	2	5	2
127	1	s2	340	Candelaria concolor	6	6	4	6	2
127	1	r	86	Phaeophyscia adiastrata	0	1	0	1	0
127	1	s1	168	Phaeophyscia adiastrata	0	0	0	0	1
127	1	r	86	Physcia adscendens	0	0	0	2	2
127	1	s1	168	Physcia adscendens	0	0	2	0	0
127	1	s2	340	Physcia adscendens	1	1	0	1	1
127	1	r	86	Physcia aipolia	1	0	0	0	0
127	1	s1	168	Physcia aipolia	0	0	1	0	0
127	1	s2	340	Physcia millegrana	1	0	0	0	0
127	1	s2	340	Physcia stellaris	0	1	0	0	0
127	1	r	86	Physciella chloantha	2	0	1	1	0
127	1	r	86	Xanthomendoza fallax	5	5	5	5	2
127	1	s1	168	Xanthomendoza fallax	0	1	0	0	0
127	1	s2	340	Xanthomendoza fallax	1	5	4	1	1
127	2	a	262	Candelaria concolor	0	1	0	0	1
127	2	s1	180	Phaeophyscia adiastrata	0	0	1	0	1
127	2	r	84	Physcia stellaris	0	0	0	0	1
127	2	s1	180	Physcia stellaris	1	0	0	5	4
127	2	a	262	Physcia stellaris	0	3	0	0	2
127	2	s2	350	Physcia stellaris	0	1	0	0	1
127	2	a	262	Xanthomendoza fallax	0	1	0	0	1
127	2	s2	350	Xanthomendoza fallax	0	1	0	0	0
127	3	s1	164	Candelaria concolor	0	0	0	0	1
127	3	a	262	Candelaria concolor	0	0	0	0	1
127	3	s1	164	Physcia stellaris	0	1	0	0	0
127	3	a	262	Physcia stellaris	0	0	3	3	2
127	3	s2	346	Physcia stellaris	0	1	0	0	1
127	3	a	262	Physciella chloantha	0	0	0	0	1
127	3	s1	164	Xanthomendoza fallax	0	0	0	0	1
127	4	s2	170	Candelaria concolor	0	0	0	0	2
127	4	s2	170	Physcia stellaris	0	1	0	0	0
127	5	a	260	Candelaria concolor	0	0	0	1	0
127	5	s1	170	Phaeophyscia adiastrata	0	0	0	1	0
127	5	s1	170	Physcia stellaris	0	0	0	2	0
127	5	s1	170	Physciella chloantha	1	1	1	5	8
127	5	a	260	Physciella chloantha	0	0	0	0	2
127	5	s1	170	Xanthomendoza fallax	1	0	0	0	0
128	1	r	86	Candelaria concolor	0	0	4	0	2

Site	Tree	Side	Degrees	Lichen	Q1	Q2	Q3	Q4	Q5
128	1	s1	178	Candelaria concolor	3	1	0	0	0
128	1	a	252	Candelaria concolor	0	2	1	2	2
128	1	s2	345	Candelaria concolor	1	2	11	5	6
128	1	r	86	Phaeophyscia adiaetola	0	0	0	3	1
128	1	s1	178	Phaeophyscia adiaetola	7	7	2	3	3
128	1	a	252	Phaeophyscia adiaetola	0	3	5	3	5
128	1	s2	345	Phaeophyscia adiaetola	7	5	1	0	1
128	1	a	252	Physcia adscendens	0	0	0	1	0
128	1	s2	345	Physcia adscendens	0	1	0	0	0
128	1	r	86	Physcia stellaris	0	1	0	0	1
128	1	s1	178	Physcia stellaris	0	0	0	1	0
128	1	a	252	Physcia stellaris	2	0	0	0	0
128	1	r	86	Xanthomendoza fallax	9	10	10	10	7
128	1	s1	178	Xanthomendoza fallax	6	6	17	13	7
128	1	a	252	Xanthomendoza fallax	8	6	7	7	3
128	1	s2	345	Xanthomendoza fallax	5	4	7	14	11
128	2	r	88	Candelaria concolor	0	0	0	1	6
128	2	a	252	Candelaria concolor	6	7	3	2	0
128	2	s2	350	Candelaria concolor	0	1	0	1	0
128	2	r	88	Phaeophyscia adiaetola	2	1	1	0	0
128	2	s1	178	Phaeophyscia adiaetola	0	7	4	6	8
128	2	a	252	Phaeophyscia adiaetola	3	1	1	3	10
128	2	s2	350	Phaeophyscia adiaetola	3	0	1	3	3
128	2	r	88	Physcia aipolia	1	0	0	0	0
128	2	a	252	Physcia aipolia	1	1	0	0	0
128	2	s2	350	Physcia aipolia	0	1	1	0	1
128	2	r	88	Xanthomendoza fallax	9	5	8	8	4
128	2	s1	178	Xanthomendoza fallax	15	10	9	8	8
128	2	a	252	Xanthomendoza fallax	7	6	6	8	6
128	2	s2	350	Xanthomendoza fallax	10	8	11	5	13
128	3	r	72	Candelaria concolor	3	2	4	1	1
128	3	s1	160	Candelaria concolor	1	0	0	0	0
128	3	a	254	Candelaria concolor	0	0	1	0	0
128	3	r	72	Phaeophyscia adiaetola	4	2	1	5	6
128	3	s1	160	Phaeophyscia adiaetola	5	6	6	13	14
128	3	a	254	Phaeophyscia adiaetola	10	9	16	16	19
128	3	s2	342	Phaeophyscia adiaetola	7	7	11	10	3
128	3	s1	160	Physcia aipolia	0	0	0	1	0
128	3	s2	342	Physcia aipolia	0	0	3	0	1
128	3	r	72	Physcia stellaris	0	1	0	0	0
128	3	s1	160	Physcia stellaris	1	1	1	2	0
128	3	s2	342	Physcia stellaris	2	2	1	0	0
128	3	r	72	Physciella chloantha	4	9	2	2	3
128	3	a	254	Physciella chloantha	0	0	0	1	0
128	3	s2	342	Physciella chloantha	0	0	2	0	0
128	3	r	72	Xanthomendoza fallax	2	0	0	1	2
128	3	s1	160	Xanthomendoza fallax	2	1	0	0	0
128	3	a	254	Xanthomendoza fallax	0	1	0	0	0
128	3	s2	342	Xanthomendoza fallax	0	0	0	0	1
128	4	s1	168	Candelaria concolor	0	0	1	0	0
128	4	a	268	Candelaria concolor	0	0	0	0	1
128	4	s2	346	Candelaria concolor	0	0	2	0	1
128	4	r	82	Phaeophyscia adiaetola	0	0	1	0	0
128	4	s1	168	Phaeophyscia adiaetola	2	2	6	6	2
128	4	a	268	Phaeophyscia adiaetola	5	2	2	3	1

Site	Tree	Side	Degrees	Lichen	Q1	Q2	Q3	Q4	Q5
128	4	s2	346	Phaeophyscia adiastrata	11	10	4	11	6
128	4	s2	346	Physcia aipolia	2	0	0	0	0
128	4	s1	168	Physcia stellaris	0	0	1	0	0
128	4	a	268	Physcia stellaris	1	1	0	1	0
128	4	s2	346	Physcia stellaris	0	1	1	0	0
128	4	r	82	Xanthomendoza fallax	19	19	19	18	17
128	4	s1	168	Xanthomendoza fallax	10	10	10	12	15
128	4	a	268	Xanthomendoza fallax	4	4	6	3	0
128	4	s2	346	Xanthomendoza fallax	3	2	1	3	4
128	5	r	94	Candelaria concolor	0	0	1	0	1
128	5	s1	182	Candelaria concolor	0	0	1	0	0
128	5	a	262	Candelaria concolor	0	1	0	0	0
128	5	s2	354	Candelaria concolor	0	1	0	0	1
128	5	r	94	Phaeophyscia adiastrata	5	2	4	1	0
128	5	s1	182	Phaeophyscia adiastrata	0	3	0	2	1
128	5	a	262	Phaeophyscia adiastrata	1	0	2	2	1
128	5	s2	354	Phaeophyscia adiastrata	6	0	0	1	0
128	5	a	262	Physcia adscendens	0	0	1	0	0
128	5	s2	354	Physcia aipolia	0	1	0	0	0
128	5	r	94	Xanthomendoza fallax	6	5	7	1	1
128	5	s1	182	Xanthomendoza fallax	3	1	0	3	2
128	5	a	262	Xanthomendoza fallax	0	0	1	0	2
128	5	s2	354	Xanthomendoza fallax	0	2	2	2	4
132	1	r	162	Candelaria concolor	2	1	1	5	4
132	1	s1	258	Candelaria concolor	1	0	0	0	0
132	1	a	338	Candelaria concolor	2	6	6	1	1
132	1	s2	74	Candelaria concolor	1	1	3	1	0
132	1	s2	74	Hyperphyscia adglutinata	3	5	2	6	5
132	1	r	162	Phaeophyscia adiastrata	0	0	2	1	2
132	1	s2	74	Phaeophyscia adiastrata	2	0	0	0	0
132	1	s2	74	Phaeophyscia ciliata	2	0	0	1	3
132	1	s2	74	Physcia adscendens	1	0	0	0	1
132	1	r	162	Physcia aipolia	0	0	0	1	0
132	1	a	338	Physcia millegrana	0	0	0	0	1
132	1	r	162	Physciella chloantha	1	0	0	0	0
132	1	r	162	Xanthomendoza fallax	5	1	1	5	2
132	1	a	338	Xanthomendoza fallax	2	0	1	0	0
132	1	s2	74	Xanthomendoza fallax	1	5	2	8	4
132	2	s2	70	Xanthomendoza fallax	0	0	1	0	0
132	3	a	340	Phaeophyscia adiastrata	1	0	0	0	0
132	3	s2	70	Phaeophyscia adiastrata	0	0	1	0	0
132	3	a	340	Physcia aipolia	1	0	1	2	0
132	3	s2	70	Physcia aipolia	0	1	0	0	0
132	3	s1	250	Xanthomendoza fallax	0	0	0	0	1
132	3	s2	70	Xanthomendoza fallax	1	1	0	1	0
132	4	r	160	Hyperphyscia adglutinata	0	1	0	0	0
132	4	s1	250	Phaeophyscia adiastrata	2	0	0	0	0
132	4	a	340	Phaeophyscia adiastrata	0	1	0	0	0
132	4	r	160	Physcia aipolia	0	0	1	1	0
132	4	s1	250	Physcia aipolia	0	1	1	2	1
132	4	a	340	Physcia aipolia	5	4	3	3	4
132	4	s1	250	Xanthomendoza fallax	0	0	0	0	1
132	4	a	340	Xanthomendoza fallax	1	0	0	0	3
132	5	s1	250	Candelaria concolor	0	0	0	0	1
132	5	r	160	Phaeophyscia adiastrata	1	0	0	0	4

Site	Tree	Side	Degrees	Lichen	Q1	Q2	Q3	Q4	Q5
132	5	sl	250	Phacophyscia adiastrata	0	1	1	4	6
132	5	a	340	Phacophyscia adiastrata	1	1	3	2	3
132	5	s2	70	Physcia aipolia	0	0	1	0	1
132	5	r	160	Xanthomendoza fallax	0	0	0	0	1
132	5	sl	250	Xanthomendoza fallax	0	0	0	0	3
133	1	r	82	Phacophyscia adiastrata	0	0	1	3	5
133	1	sl	170	Phacophyscia adiastrata	0	0	0	0	7
133	1	sl	170	Physcia aipolia	0	0	0	0	1
133	1	a	266	Physciella chloantha	0	0	1	1	3
133	1	r	82	Xanthomendoza fallax	0	0	1	0	0
133	1	sl	170	Xanthomendoza fallax	0	0	0	0	1
133	1	a	266	Xanthomendoza fallax	0	0	0	0	1
133	2	r	88	Candelaria concolor	1	1	0	3	4
133	2	sl	174	Candelaria concolor	0	0	3	2	0
133	2	a	258	Candelaria concolor	1	0	1	0	0
133	2	r	88	Physciella chloantha	9	8	4	4	3
133	2	sl	174	Physciella chloantha	15	11	8	15	16
133	2	a	258	Physciella chloantha	0	0	1	0	2
133	2	s2	354	Physciella chloantha	4	0	3	6	5
133	2	r	88	Xanthomendoza fallax	6	1	3	0	0
133	2	sl	174	Xanthomendoza fallax	0	1	0	0	0
133	2	a	258	Xanthomendoza fallax	1	0	0	0	0
133	2	s2	354	Xanthomendoza fallax	4	2	2	4	3
133	3	r	80	Candelaria concolor	0	0	3	3	1
133	3	sl	178	Candelaria concolor	8	2	4	4	3
133	3	s2	350	Candelaria concolor	1	1	0	1	1
133	3	a	252	Hyperphyscia adglutinata	0	1	0	0	0
133	3	sl	178	Physcia stellaris	0	0	2	0	0
133	3	r	80	Physciella chloantha	16	18	16	17	18
133	3	sl	178	Physciella chloantha	9	14	3	6	12
133	3	a	252	Physciella chloantha	1	0	1	2	0
133	3	s2	350	Physciella chloantha	2	5	0	1	2
133	3	r	80	Xanthomendoza fallax	0	2	0	0	0
133	3	sl	178	Xanthomendoza fallax	2	4	9	7	5
133	3	s2	350	Xanthomendoza fallax	0	1	1	0	1
133	4	sl	179	Candelaria concolor	1	0	0	0	0
133	4	a	280	Candelaria concolor	5	0	3	2	0
133	4	s2	350	Physcia adscendens	0	0	0	0	1
133	4	sl	179	Physcia stellaris	5	0	1	0	1
133	4	a	280	Physcia stellaris	0	2	2	2	0
133	4	r	90	Physciella chloantha	3	1	1	5	1
133	4	sl	179	Physciella chloantha	3	0	2	8	7
133	4	a	280	Physciella chloantha	9	10	8	10	4
133	4	s2	350	Physciella chloantha	1	0	1	1	0
133	4	r	90	Xanthomendoza fallax	0	0	1	1	0
133	4	sl	179	Xanthomendoza fallax	2	4	1	3	2
133	4	a	280	Xanthomendoza fallax	1	4	3	3	5
133	4	s2	350	Xanthomendoza fallax	0	0	1	0	0
133	5	a	266	Candelaria concolor	0	2	0	0	0
133	5	s2	0	Candelaria concolor	0	1	0	0	0
133	5	a	266	Physcia stellaris	1	3	3	2	1
133	5	r	88	Physciella chloantha	15	18	12	5	7
133	5	sl	174	Physciella chloantha	17	17	14	17	18
133	5	a	266	Physciella chloantha	17	7	6	3	5
133	5	s2	0	Physciella chloantha	11	10	18	18	20

Site	Tree	Side	Degrees	Lichen	Q1	Q2	Q3	Q4	Q5
133	5	r	88	Xanthomendoza fallax	0	1	4	13	7
133	5	s1	174	Xanthomendoza fallax	0	1	0	1	0
133	5	a	266	Xanthomendoza fallax	1	3	1	4	0
133	5	s2	0	Xanthomendoza fallax	0	1	2	1	0
134	1	r	352	Candelaria concolor	0	0	0	0	3
134	1	s2	268	Physcia adscendens	0	0	0	1	1
134	1	r	352	Physcia stellaris	0	5	4	2	2
134	1	s1	84	Physcia stellaris	1	0	0	0	0
134	1	a	174	Physcia stellaris	0	1	1	0	0
134	1	s2	268	Physcia stellaris	1	0	1	0	0
134	1	s2	268	Xanthomendoza fallax	0	0	0	1	0
134	2	s2	272	Candelaria concolor	0	0	0	1	1
134	2	r	358	Physcia stellaris	0	0	0	1	2
134	2	a	180	Physcia stellaris	0	0	0	1	0
134	2	s2	272	Physcia stellaris	0	0	1	1	0
134	3	r	356	Candelaria concolor	1	0	1	1	0
134	3	a	176	Candelaria concolor	1	0	1	0	1
134	3	r	356	Hyperphyscia adglutinata	0	0	0	6	0
134	3	a	176	Hyperphyscia adglutinata	0	1	0	0	0
134	3	r	356	Phaeophyscia adiaetola	0	0	0	0	1
134	3	a	176	Phaeophyscia adiaetola	0	2	0	0	1
134	3	s1	91	Physcia stellaris	0	0	1	0	1
134	3	a	176	Physcia stellaris	0	1	0	0	0
134	3	r	356	Physciella chloantha	0	1	1	0	0
134	3	s1	91	Physciella chloantha	0	1	0	0	0
134	3	a	176	Physciella chloantha	1	0	2	0	0
134	3	s2	260	Physciella chloantha	0	1	0	0	0
134	3	r	356	Xanthomendoza fallax	0	0	0	0	1
134	3	a	176	Xanthomendoza fallax	0	0	1	2	6
134	3	s2	260	Xanthomendoza fallax	1	0	1	1	0
134	4	s1	88	Candelaria concolor	0	0	2	0	1
134	4	s2	270	Candelaria concolor	0	0	1	0	1
134	4	r	358	Physcia adscendens	0	0	1	1	0
134	4	s2	270	Physcia adscendens	0	0	0	1	1
134	4	r	358	Physcia stellaris	0	2	1	1	0
134	4	s1	88	Physcia stellaris	0	0	0	1	0
134	4	s2	270	Physcia stellaris	0	0	0	0	1
134	4	s1	88	Physciella chloantha	1	0	0	0	0
134	4	s2	270	Physciella chloantha	0	0	1	0	1
134	5	r	352	Physcia stellaris	0	0	0	1	2
134	5	s1	92	Physcia stellaris	4	0	3	3	2
134	5	a	162	Physcia stellaris	0	1	0	1	1
134	5	s2	266	Physcia stellaris	0	4	1	2	1
134	5	s2	266	Physciella chloantha	0	1	0	0	1
135	1	r	42	Candelaria concolor	6	3	6	9	5
135	1	s1	134	Candelaria concolor	2	2	1	0	1
135	1	s2	320	Hyperphyscia adglutinata	3	5	6	0	1
135	1	r	42	Phaeophyscia adiaetola	0	1	1	0	0
135	1	r	42	Physcia adscendens	0	0	0	1	0
135	1	s1	134	Physcia adscendens	1	3	0	0	1
135	1	s1	134	Physcia millegrana	1	0	0	0	0
135	1	r	42	Physciella chloantha	0	0	1	0	0
135	1	r	42	Xanthomendoza fallax	0	0	2	1	1
135	1	s1	134	Xanthomendoza fallax	3	5	7	9	7
135	1	a	218	Xanthomendoza fallax	8	4	5	8	6

Site	Tree	Side	Degrees	Lichen	Q1	Q2	Q3	Q4	Q5
135	1	s2	320	Xanthomendoza fallax	0	1	0	0	2
135	2	s1	114	Candelaria concolor	10	8	11	12	8
135	2	a	242	Candelaria concolor	0	2	4	8	11
135	2	s2	318	Candelaria concolor	0	1	2	2	2
135	2	r	13	Physcia adscendens	6	10	10	5	4
135	2	s2	318	Physcia adscendens	4	4	2	5	4
135	2	s1	114	Physcia millegrana	1	0	1	1	0
135	2	s2	318	Physcia millegrana	1	0	0	0	0
135	2	s1	114	Physciella chloantha	0	0	2	1	2
135	2	a	242	Physciella chloantha	0	0	0	0	1
135	3	a	227	Candelaria concolor	1	1	2	1	0
135	3	a	227	Phaeophyscia adiaetola	5	2	0	2	0
135	3	s2	304	Phaeophyscia adiaetola	0	6	5	7	1
135	3	r	37	Physcia adscendens	11	10	4	7	5
135	3	r	37	Physcia aipolia	0	0	3	0	0
135	3	r	37	Xanthomendoza fallax	4	4	7	4	7
135	3	s1	136	Xanthomendoza fallax	12	11	11	10	11
135	3	a	227	Xanthomendoza fallax	4	6	8	3	7
135	3	s2	304	Xanthomendoza fallax	5	4	7	5	4
135	4	s1	128	Candelaria concolor	2	1	0	0	0
135	4	r	22	Physcia adscendens	11	4	7	3	6
135	4	a	254	Physciella chloantha	1	1	2	2	8
135	4	s2	302	Physciella chloantha	2	3	1	3	3
135	4	r	22	Xanthomendoza fallax	1	2	0	2	3
135	4	s1	128	Xanthomendoza fallax	8	7	11	7	8
135	4	a	254	Xanthomendoza fallax	6	4	1	0	2
135	4	s2	302	Xanthomendoza fallax	0	1	0	0	0
135	5	r	60	Candelaria concolor	2	1	1	1	1
135	5	s1	146	Candelaria concolor	0	0	3	5	5
135	5	a	228	Candelaria concolor	3	1	1	2	2
135	5	s2	314	Candelaria concolor	0	0	3	0	1
135	5	a	228	Phaeophyscia adiaetola	0	3	4	2	4
135	5	s2	314	Phaeophyscia adiaetola	0	0	1	0	0
135	5	r	60	Physcia adscendens	9	4	9	7	6
135	5	r	60	Physcia aipolia	1	4	0	0	0
135	5	r	60	Xanthomendoza fallax	1	0	2	2	4
135	5	s1	146	Xanthomendoza fallax	1	3	4	2	3
135	5	a	228	Xanthomendoza fallax	5	7	3	4	4
135	5	s2	314	Xanthomendoza fallax	4	2	0	0	0
137	1	r	142	Candelaria concolor	1	0	2	0	0
137	1	s1	230	Candelaria concolor	0	1	0	0	0
137	1	r	324	Candelaria concolor	1	0	0	0	1
137	1	s2	56	Candelaria concolor	3	3	2	0	1
137	1	r	142	Hyperphyscia adglutinata	3	0	0	0	1
137	1	s1	230	Hyperphyscia adglutinata	2	0	0	0	1
137	1	r	142	Parmelia sulcata	0	1	0	1	0
137	1	s1	230	Parmelia sulcata	0	0	0	1	1
137	1	r	324	Parmelia sulcata	0	2	0	1	0
137	1	r	142	Phaeophyscia adiaetola	1	2	0	4	2
137	1	s1	230	Phaeophyscia adiaetola	2	0	0	0	0
137	1	r	324	Phaeophyscia adiaetola	0	1	0	1	0
137	1	s2	56	Phaeophyscia adiaetola	1	1	1	0	0
137	1	r	142	Physcia adscendens	0	0	0	1	0
137	1	r	142	Physcia aipolia	0	1	4	1	4
137	1	s1	230	Physcia aipolia	4	7	11	7	9

Site	Tree	Side	Degrees	Lichen	Q1	Q2	Q3	Q4	Q5
137	1	r	324	Physcia aipolia	2	4	4	6	7
137	1	s2	56	Physcia aipolia	2	5	7	3	6
137	1	r	142	Physcia stellaris	4	3	2	4	3
137	1	s1	230	Physcia stellaris	1	2	0	1	2
137	1	r	142	Physciella chloantha	0	5	2	3	3
137	1	s1	230	Physciella chloantha	0	0	0	0	1
137	1	r	324	Physciella chloantha	0	0	1	1	0
137	1	s2	56	Physciella chloantha	2	0	0	3	2
137	1	r	142	Xanthomendoza fallax	4	6	7	1	1
137	1	s1	230	Xanthomendoza fallax	7	1	1	4	0
137	1	r	324	Xanthomendoza fallax	2	0	0	0	0
137	1	s2	56	Xanthomendoza fallax	4	6	0	3	1
137	2	r	148	Candelaria concolor	0	0	1	0	1
137	2	s1	248	Candelaria concolor	0	1	0	0	1
137	2	a	324	Candelaria concolor	0	0	1	0	1
137	2	s2	54	Candelaria concolor	0	1	0	1	1
137	2	r	148	Hyperphyscia adglutinata	0	2	0	2	0
137	2	s1	248	Hyperphyscia adglutinata	6	2	1	0	1
137	2	a	324	Hyperphyscia adglutinata	1	1	1	1	1
137	2	s2	54	Hyperphyscia adglutinata	0	2	1	0	1
137	2	a	324	Parmelia sulcata	0	0	0	0	1
137	2	r	148	Phaeophyscia adiaetola	0	3	2	1	2
137	2	s1	248	Phaeophyscia adiaetola	1	0	4	0	1
137	2	s2	54	Phaeophyscia adiaetola	1	0	0	1	0
137	2	s2	54	Phaeophyscia rubripulchra	1	0	0	0	0
137	2	a	324	Physcia adscendens	5	3	0	1	3
137	2	s2	54	Physcia adscendens	2	0	0	1	0
137	2	r	148	Physcia aipolia	2	3	0	1	6
137	2	s1	248	Physcia aipolia	2	0	0	0	0
137	2	a	324	Physcia aipolia	0	0	1	1	1
137	2	s2	54	Physcia aipolia	4	2	2	4	0
137	2	r	148	Physcia stellaris	3	3	6	4	1
137	2	s1	248	Physcia stellaris	4	6	2	5	2
137	2	a	324	Physcia stellaris	3	4	0	0	0
137	2	s2	54	Physcia stellaris	1	1	2	2	0
137	2	r	148	Physciella chloantha	1	1	1	0	1
137	2	s1	248	Physciella chloantha	0	0	1	2	0
137	2	a	324	Physciella chloantha	0	0	1	0	0
137	2	s2	54	Physciella chloantha	1	0	2	1	2
137	2	r	148	Xanthomendoza fallax	9	3	8	8	9
137	2	s1	248	Xanthomendoza fallax	1	4	5	5	8
137	2	a	324	Xanthomendoza fallax	4	1	2	5	2
137	2	s2	54	Xanthomendoza fallax	2	1	1	4	3
137	3	r	146	Candelaria concolor	4	3	1	0	2
137	3	s1	234	Candelaria concolor	4	7	4	2	0
137	3	a	222	Candelaria concolor	2	1	0	0	1
137	3	s2	68	Candelaria concolor	2	0	1	0	0
137	3	a	222	Flavoparmelia caperata	1	0	0	0	0
137	3	r	146	Hyperphyscia adglutinata	2	0	0	0	0
137	3	a	222	Hyperphyscia adglutinata	1	0	0	0	0
137	3	a	222	Parmelia sulcata	0	0	0	1	3
137	3	s2	68	Parmelia sulcata	2	0	0	1	0
137	3	r	146	Phaeophyscia adiaetola	0	0	1	0	0
137	3	r	146	Physcia adscendens	0	0	1	0	0
137	3	a	222	Physcia adscendens	0	0	0	0	1

Site	Tree	Side	Degrees	Lichen	Q1	Q2	Q3	Q4	Q5
137	3	s2	68	Physcia adscendens	0	0	1	1	1
137	3	r	146	Physcia aipolia	0	0	0	1	1
137	3	sl	234	Physcia aipolia	1	1	0	0	0
137	3	a	222	Physcia aipolia	1	0	0	0	0
137	3	s2	68	Physcia aipolia	2	1	4	6	4
137	3	sl	234	Physcia stellaris	0	3	0	4	4
137	3	a	222	Physcia stellaris	0	5	2	9	5
137	3	s2	68	Physcia stellaris	0	0	0	2	0
137	3	r	146	Physciella chloantha	1	1	7	11	12
137	3	sl	234	Physciella chloantha	2	0	0	2	1
137	3	s2	68	Physciella chloantha	0	3	0	0	0
137	3	r	146	Xanthomendoza fallax	1	5	6	4	4
137	3	sl	234	Xanthomendoza fallax	4	3	3	1	0
137	3	a	222	Xanthomendoza fallax	4	4	0	1	1
137	3	s2	68	Xanthomendoza fallax	0	1	0	1	0
137	4	r	142	Candelaria concolor	0	1	1	0	0
137	4	sl	240	Candelaria concolor	0	0	0	0	3
137	4	s2	56	Candelaria concolor	0	0	0	0	1
137	4	r	142	Hyperphyscia adglutinata	1	0	0	0	0
137	4	s2	56	Physcia adscendens	1	1	1	0	0
137	4	r	142	Physcia aipolia	1	0	0	0	0
137	4	a	332	Physcia aipolia	8	0	0	0	0
137	4	s2	56	Physcia aipolia	6	7	2	0	0
137	4	r	142	Physcia stellaris	4	5	5	2	6
137	4	sl	240	Physcia stellaris	3	0	4	6	2
137	4	a	332	Physcia stellaris	2	11	15	10	19
137	4	s2	56	Physcia stellaris	0	0	0	4	3
137	4	r	142	Physciella chloantha	1	2	1	3	2
137	4	sl	240	Physciella chloantha	4	7	2	1	2
137	4	a	332	Physciella chloantha	2	0	0	0	0
137	4	s2	56	Physciella chloantha	1	0	0	3	0
137	4	r	142	Xanthomendoza fallax	2	3	2	3	2
137	4	sl	240	Xanthomendoza fallax	1	1	1	2	3
137	4	a	332	Xanthomendoza fallax	1	0	0	0	0
137	4	s2	56	Xanthomendoza fallax	1	1	8	3	5
137	5	r	150	Candelaria concolor	3	2	1	0	1
137	5	sl	242	Candelaria concolor	3	0	1	1	0
137	5	s2	60	Candelaria concolor	0	0	2	0	0
137	5	a	330	Parmelia sulcata	0	0	1	1	1
137	5	a	330	Physcia adscendens	0	1	0	0	0
137	5	s2	60	Physcia adscendens	0	0	0	1	0
137	5	r	150	Physcia aipolia	3	2	0	0	0
137	5	a	330	Physcia aipolia	2	0	0	0	0
137	5	r	150	Physcia stellaris	1	3	6	5	2
137	5	sl	242	Physcia stellaris	4	9	9	4	6
137	5	a	330	Physcia stellaris	4	3	10	12	4
137	5	s2	60	Physcia stellaris	4	5	8	4	7
137	5	r	150	Physciella chloantha	0	0	1	2	0
137	5	sl	242	Physciella chloantha	0	0	0	0	1
137	5	a	330	Physciella chloantha	0	0	1	0	0
137	5	s2	60	Physciella chloantha	1	0	1	0	1
137	5	r	150	Xanthomendoza fallax	2	2	3	2	2
137	5	sl	242	Xanthomendoza fallax	1	0	0	1	0
137	5	a	330	Xanthomendoza fallax	0	1	0	0	0
137	5	s2	60	Xanthomendoza fallax	0	1	0	0	0

Site	Tree	Side	Degrees	Lichen	Q1	Q2	Q3	Q4	Q5
138	1	r	342	Candelaria concolor	9	10	15	17	0
138	1	s1	90	Candelaria concolor	6	11	15	14	14
138	1	a	156	Candelaria concolor	8	6	5	3	3
138	1	s2	262	Candelaria concolor	8	6	6	7	5
138	1	s1	90	Hyperphyscia adglutinata	1	0	0	0	0
138	1	a	156	Phaeophyscia adiastrata	0	1	0	0	0
138	1	r	342	Physcia aipolia	0	0	0	0	1
138	1	s1	90	Physcia aipolia	1	0	3	2	0
138	1	a	156	Physcia aipolia	4	0	1	0	1
138	1	s2	262	Physcia aipolia	3	2	0	0	0
138	1	r	342	Physcia stellaris	2	1	2	0	1
138	1	s1	90	Physcia stellaris	7	3	2	2	6
138	1	a	156	Physcia stellaris	0	0	1	0	0
138	1	s2	262	Physcia stellaris	1	0	4	0	2
138	1	r	342	Physciella chloantha	4	3	1	0	0
138	1	s1	90	Physciella chloantha	1	0	0	0	0
138	1	a	156	Physciella chloantha	1	1	0	0	0
138	1	s2	262	Physciella chloantha	0	0	1	0	0
138	1	a	156	Xanthomendoza fallax	0	0	0	1	0
138	2	s1	80	Candelaria concolor	2	0	0	0	1
138	2	a	164	Candelaria concolor	0	0	0	1	0
138	2	s2	262	Candelaria concolor	0	1	0	0	2
138	2	r	340	Physcia stellaris	2	4	0	2	0
138	2	s1	80	Physcia stellaris	0	0	0	0	1
138	2	a	164	Physcia stellaris	0	0	1	2	0
138	2	s2	262	Physcia stellaris	2	3	3	0	3
138	3	r	322	Physcia aipolia	0	0	3	4	5
138	3	s1	86	Physcia aipolia	0	2	1	2	6
138	3	a	168	Physcia aipolia	0	1	2	3	3
138	3	s2	260	Physcia aipolia	0	0	5	2	10
138	3	r	322	Physciella chloantha	1	0	0	0	0
138	4	r	340	Candelaria concolor	0	0	0	1	0
138	4	r	340	Parmelia sulcata	0	0	0	0	1
138	4	s1	76	Physcia adscendens	0	0	0	1	0
138	4	r	340	Physcia aipolia	3	1	5	4	3
138	4	s1	76	Physcia aipolia	0	6	9	2	2
138	4	a	166	Physcia aipolia	0	1	1	0	1
138	4	s2	262	Physcia aipolia	0	0	1	0	0
138	4	s1	76	Xanthomendoza fallax	0	0	0	0	1
138	5	r	340	Candelaria concolor	0	0	0	0	2
138	5	r	340	Physcia aipolia	0	4	3	14	5
138	5	s1	88	Physcia aipolia	4	1	3	4	6
138	5	a	174	Physcia aipolia	0	2	0	3	0
139	1	r	198	Candelaria concolor	1	1	1	2	0
139	1	s1	258	Candelaria concolor	1	0	1	0	0
139	1	a	354	Candelaria concolor	1	4	2	9	8
139	1	a	354	Hyperphyscia adglutinata	17	9	4	2	5
139	1	s2	112	Parmelia sulcata	0	0	0	0	1
139	1	r	198	Phaeophyscia adiastrata	4	3	8	11	9
139	1	s1	258	Phaeophyscia adiastrata	1	2	3	6	5
139	1	s1	258	Phaeophyscia ciliata	0	1	0	0	0
139	1	r	198	Physcia adscendens	0	0	0	1	0
139	1	s1	258	Physcia adscendens	0	1	0	1	0
139	1	a	354	Physcia adscendens	0	0	0	1	0
139	1	s2	112	Physcia adscendens	3	4	4	7	1

Site	Tree	Side	Degrees	Lichen	Q1	Q2	Q3	Q4	Q5
139	1	r	198	Physcia aipolia	0	0	0	1	0
139	1	sl	258	Physcia aipolia	2	2	0	0	0
139	1	r	198	Physcia millegrana	2	1	1	0	0
139	1	sl	258	Physcia millegrana	0	0	0	0	4
139	1	a	354	Physcia millegrana	1	1	1	0	1
139	1	sl	258	Physcia stellaris	0	0	1	6	0
139	1	a	354	Physcia stellaris	0	0	1	1	0
139	1	s2	112	Physcia stellaris	8	2	3	4	10
139	1	r	198	Xanthomendoza fallax	4	5	2	1	1
139	1	sl	258	Xanthomendoza fallax	10	7	6	4	7
139	1	a	354	Xanthomendoza fallax	0	1	0	2	0
139	1	s2	112	Xanthomendoza fallax	0	0	4	1	2
139	2	r	176	Candelaria concolor	3	1	0	0	2
139	2	sl	264	Candelaria concolor	2	1	2	2	4
139	2	a	344	Candelaria concolor	7	4	12	6	6
139	2	s2	106	Candelaria concolor	4	3	2	11	9
139	2	r	176	Phaeophyscia adiaetola	4	10	12	16	7
139	2	s2	106	Phaeophyscia adiaetola	0	1	3	0	0
139	2	r	176	Phaeophyscia ciliata	1	1	0	0	0
139	2	a	344	Phaeophyscia ciliata	0	0	0	1	1
139	2	a	344	Physcia adscendens	1	1	2	6	6
139	2	s2	106	Physcia adscendens	0	0	2	0	0
139	2	r	176	Physcia aipolia	0	0	0	0	1
139	2	sl	264	Physcia aipolia	1	1	3	0	0
139	2	a	344	Physcia aipolia	4	0	0	1	1
139	2	s2	106	Physcia aipolia	0	0	0	0	1
139	2	r	176	Physcia stellaris	4	2	0	1	3
139	2	sl	264	Physcia stellaris	0	2	1	1	1
139	2	a	344	Physcia stellaris	0	0	1	1	3
139	2	s2	106	Physcia stellaris	3	2	2	3	0
139	2	r	176	Xanthomendoza fallax	7	4	7	1	0
139	2	sl	264	Xanthomendoza fallax	6	5	5	3	1
139	2	a	344	Xanthomendoza fallax	0	3	1	0	1
139	2	s2	106	Xanthomendoza fallax	6	9	4	2	5
139	3	r	208	Candelaria concolor	0	0	1	7	1
139	3	sl	280	Candelaria concolor	1	2	3	2	2
139	3	a	14	Candelaria concolor	5	3	2	2	4
139	3	s2	94	Candelaria concolor	1	0	1	1	1
139	3	sl	280	Phaeophyscia adiaetola	0	0	1	0	1
139	3	sl	280	Phaeophyscia ciliata	0	0	0	0	1
139	3	sl	280	Physcia adscendens	4	3	2	1	3
139	3	a	14	Physcia adscendens	5	3	8	6	7
139	3	s2	94	Physcia adscendens	4	8	10	12	8
139	3	r	208	Physcia aipolia	0	0	1	0	0
139	3	a	14	Physcia aipolia	0	0	0	3	1
139	3	s2	94	Physcia aipolia	0	3	1	0	1
139	3	r	208	Physcia stellaris	1	0	0	2	0
139	3	sl	280	Physcia stellaris	0	4	5	2	4
139	3	a	14	Physcia stellaris	4	5	1	0	0
139	3	s2	94	Physcia stellaris	0	0	0	0	1
139	3	r	208	Xanthomendoza fallax	13	11	10	5	11
139	3	sl	280	Xanthomendoza fallax	10	6	5	11	6
139	3	a	14	Xanthomendoza fallax	0	1	2	1	2
139	3	s2	94	Xanthomendoza fallax	9	3	1	1	1
139	4	r	210	Candelaria concolor	0	0	0	1	0

Site	Tree	Side	Degrees	Lichen	Q1	Q2	Q3	Q4	Q5
139	4	s1	290	Candelaria concolor	2	4	1	1	7
139	4	a	8	Candelaria concolor	2	0	0	4	3
139	4	s2	98	Candelaria concolor	3	2	0	0	2
139	4	s1	290	Physcia adscendens	1	0	1	1	5
139	4	a	8	Physcia adscendens	5	5	6	5	4
139	4	s2	98	Physcia adscendens	1	3	2	1	3
139	4	s1	290	Physcia aipolia	4	5	3	5	1
139	4	a	8	Physcia aipolia	0	2	2	0	0
139	4	s2	98	Physcia aipolia	0	0	1	0	0
139	4	r	210	Physcia stellaris	4	2	2	3	0
139	4	s1	290	Physcia stellaris	4	0	3	2	0
139	4	a	8	Physcia stellaris	1	1	2	0	3
139	4	s2	98	Physcia stellaris	1	0	0	0	0
139	4	s1	290	Physconia deterosa	0	0	1	0	0
139	4	r	210	Xanthomendoza fallax	2	3	7	5	7
139	4	s1	290	Xanthomendoza fallax	2	1	1	3	1
139	4	a	8	Xanthomendoza fallax	1	1	0	1	0
139	4	s2	98	Xanthomendoza fallax	1	1	2	1	1
139	5	s1	282	Candelaria concolor	1	1	0	0	0
139	5	a	14	Candelaria concolor	0	1	0	0	0
139	5	s2	106	Candelaria concolor	3	0	0	1	2
139	5	r	218	Phaeophyscia adiastrata	2	2	0	0	0
139	5	s2	106	Phaeophyscia adiastrata	0	0	0	4	0
139	5	s1	282	Physcia adscendens	2	1	0	1	0
139	5	a	14	Physcia adscendens	0	0	0	1	0
139	5	s1	282	Physcia aipolia	0	0	0	3	0
139	5	a	14	Physcia aipolia	0	0	0	0	1
139	5	r	218	Physcia stellaris	3	1	3	0	0
139	5	s1	282	Physcia stellaris	2	2	3	1	2
139	5	s2	106	Physcia stellaris	0	0	1	0	3
139	5	s1	282	Physconia deterosa	0	1	0	0	0
139	5	r	218	Xanthomendoza fallax	1	5	4	6	4
139	5	s1	282	Xanthomendoza fallax	0	1	0	0	2
139	5	a	14	Xanthomendoza fallax	0	0	1	0	0
139	5	s2	106	Xanthomendoza fallax	0	2	3	5	5
140	1	r	358	Candelaria concolor	3	3	3	3	2
140	1	s1	80	Candelaria concolor	0	0	0	1	1
140	1	s2	285	Candelaria concolor	3	1	4	2	4
140	1	r	358	Phaeophyscia adiastrata	4	0	0	0	0
140	1	s1	80	Phaeophyscia adiastrata	0	0	0	0	1
140	1	s2	285	Phaeophyscia adiastrata	0	2	0	1	1
140	1	a	186	Phaeophyscia ciliata	0	0	0	1	0
140	1	s2	285	Phaeophyscia ciliata	0	1	0	0	0
140	1	r	358	Physcia adscendens	1	0	0	0	0
140	1	s1	80	Physcia adscendens	0	0	0	0	4
140	1	r	358	Physcia aipolia	0	0	1	0	1
140	1	r	358	Physcia stellaris	2	2	1	0	1
140	1	s1	80	Physcia stellaris	1	1	1	2	1
140	1	a	186	Physcia stellaris	0	0	0	1	0
140	1	s2	285	Physcia stellaris	0	1	0	0	0
140	1	r	358	Physciella chloantha	0	0	1	0	0
140	1	a	186	Physciella chloantha	4	1	1	1	1
140	1	s2	285	Physciella chloantha	0	0	1	1	0
140	1	r	358	Xanthomendoza fallax	4	5	4	5	5
140	1	s1	80	Xanthomendoza fallax	2	5	3	3	5

Site	Tree	Side	Degrees	Lichen	Q1	Q2	Q3	Q4	Q5
140	1	a	186	Xanthomendoza fallax	6	4	10	8	11
140	1	s2	285	Xanthomendoza fallax	6	5	5	3	4
140	2	r	8	Candelaria concolor	3	1	2	5	1
140	2	s1	94	Candelaria concolor	0	0	0	2	0
140	2	a	182	Candelaria concolor	1	1	0	0	0
140	2	s2	272	Candelaria concolor	0	1	1	0	0
140	2	r	8	Hyperphyscia adglutinata	0	0	1	0	0
140	2	r	8	Phaeophyscia ciliata	1	0	0	0	0
140	2	r	8	Physcia stellaris	0	0	1	0	0
140	2	r	8	Xanthomendoza fallax	0	0	1	0	0
140	2	s1	94	Xanthomendoza fallax	1	0	0	0	0
140	2	s2	272	Xanthomendoza fallax	1	0	0	0	0
140	3	r	360	Candelaria concolor	3	3	1	1	5
140	3	s1	80	Candelaria concolor	4	3	2	4	2
140	3	a	188	Candelaria concolor	2	2	1	3	1
140	3	s2	278	Candelaria concolor	0	1	4	1	0
140	3	r	360	Phaeophyscia adiaetola	0	1	2	1	0
140	3	s1	80	Phaeophyscia adiaetola	0	0	0	3	1
140	3	a	188	Phaeophyscia adiaetola	3	0	1	0	0
140	3	s2	278	Phaeophyscia adiaetola	0	0	1	0	0
140	3	r	360	Phaeophyscia ciliata	1	1	0	0	0
140	3	s1	80	Phaeophyscia ciliata	0	0	1	2	0
140	3	a	188	Phaeophyscia ciliata	2	0	0	0	0
140	3	s2	278	Phaeophyscia ciliata	1	1	4	1	0
140	3	s1	80	Phaeophyscia pussiloides	0	1	0	0	0
140	3	a	188	Physcia aipolia	1	0	0	0	0
140	3	r	360	Physcia stellaris	1	1	0	1	0
140	3	a	188	Physcia stellaris	0	1	1	0	0
140	3	r	360	Physciella chloantha	0	0	0	1	1
140	3	s2	278	Physciella chloantha	3	0	0	0	0
140	3	r	360	Xanthomendoza fallax	2	2	3	2	0
140	3	s1	80	Xanthomendoza fallax	5	5	6	4	0
140	3	a	188	Xanthomendoza fallax	2	3	4	4	0
140	3	s2	278	Xanthomendoza fallax	1	3	0	2	2
140	4	r	360	Candelaria concolor	0	1	0	0	0
140	4	s1	80	Candelaria concolor	0	1	6	3	1
140	4	a	190	Candelaria concolor	1	1	0	2	1
140	4	s2	270	Candelaria concolor	0	1	0	0	0
140	4	r	360	Physcia adscendens	0	0	1	0	1
140	4	r	360	Physcia stellaris	0	0	1	0	0
140	4	s1	80	Physcia stellaris	0	0	1	0	0
140	4	r	360	Physciella chloantha	1	4	0	0	0
140	4	s1	80	Physciella chloantha	0	0	0	0	1
140	4	s2	270	Physciella chloantha	0	0	1	0	0
140	4	r	360	Xanthomendoza fallax	0	1	0	1	0
140	4	s1	80	Xanthomendoza fallax	0	0	1	1	0
140	4	a	190	Xanthomendoza fallax	2	1	2	0	1
140	4	s2	270	Xanthomendoza fallax	1	0	0	1	0
140	5	r	360	Candelaria concolor	3	3	2	1	0
140	5	s1	94	Candelaria concolor	2	0	3	3	2
140	5	a	180	Candelaria concolor	9	4	3	4	3
140	5	s2	270	Candelaria concolor	4	7	3	7	3
140	5	a	180	Phaeophyscia adiaetola	0	0	2	2	1
140	5	a	180	Phaeophyscia ciliata	0	2	1	0	0
140	5	s2	270	Phaeophyscia ciliata	0	1	0	1	0

Site	Tree	Side	Degrees	Lichen	Q1	Q2	Q3	Q4	Q5
140	5	r	360	Physcia aipolia	0	0	0	0	1
140	5	s1	94	Physcia aipolia	3	1	0	0	0
140	5	r	360	Physcia stellaris	0	1	1	0	0
140	5	a	180	Physcia stellaris	1	1	0	0	0
140	5	s2	270	Physcia stellaris	3	0	0	0	0
140	5	r	360	Physciella chloantha	3	0	0	1	0
140	5	s1	94	Physciella chloantha	0	1	0	0	0
140	5	a	180	Physciella chloantha	1	1	0	0	0
140	5	s2	270	Physciella chloantha	0	2	1	0	2
140	5	r	360	Xanthomendoza fallax	1	2	2	1	0
140	5	s1	94	Xanthomendoza fallax	1	3	3	0	0
140	5	a	180	Xanthomendoza fallax	2	1	5	2	2
140	5	s2	270	Xanthomendoza fallax	4	4	3	4	2
141	1	a	270	Candelaria concolor	0	0	2	4	3
141	1	s2	356	Candelaria concolor	1	1	0	4	1
141	1	a1	170	Hyperphyscia adglutinata	1	3	3	2	0
141	1	s2	356	Physcia adscendens	3	8	2	0	2
141	1	a1	170	Physcia aipolia	3	1	0	0	1
141	1	a	270	Physcia aipolia	0	0	0	1	0
141	1	s2	356	Physcia aipolia	0	0	0	1	0
141	1	a1	170	Physciella chloantha	0	0	0	2	1
141	1	a	270	Physciella chloantha	0	0	3	1	3
141	1	s2	356	Physciella chloantha	2	0	3	2	1
141	1	r	100	Xanthomendoza fallax	12	16	15	14	12
141	1	a1	170	Xanthomendoza fallax	7	7	10	7	5
141	1	a	270	Xanthomendoza fallax	4	5	5	4	2
141	1	s2	356	Xanthomendoza fallax	4	3	5	0	2
141	2	r	86	Candelaria concolor	0	0	1	1	1
141	2	a	270	Candelaria concolor	1	1	5	4	2
141	2	s2	348	Candelaria concolor	0	0	4	3	1
141	2	s2	348	Phaeophyscia adiaetola	1	0	0	2	0
141	2	s2	348	Physcia adscendens	3	1	0	3	3
141	2	a	270	Physcia aipolia	0	1	1	0	0
141	2	s2	348	Physcia aipolia	0	0	2	0	0
141	2	r	86	Physciella chloantha	3	1	4	1	4
141	2	s1	170	Physciella chloantha	1	1	2	4	1
141	2	s2	348	Physconia detersa	0	0	0	1	1
141	2	r	86	Xanthomendoza fallax	17	11	9	11	10
141	2	s1	170	Xanthomendoza fallax	14	17	12	11	15
141	2	a	270	Xanthomendoza fallax	7	12	11	16	11
141	2	s2	348	Xanthomendoza fallax	8	12	8	5	6
141	3	r	268	Candelaria concolor	0	1	1	0	0
141	3	a	78	Candelaria concolor	0	2	1	0	1
141	3	s2	174	Candelaria concolor	3	4	1	2	1
141	3	s1	2	Physcia adscendens	6	7	9	5	9
141	3	a	78	Physcia adscendens	2	0	0	2	0
141	3	r	268	Physcia aipolia	0	0	0	1	0
141	3	r	268	Physciella chloantha	9	3	3	8	11
141	3	s1	2	Physciella chloantha	0	0	0	1	1
141	3	a	78	Physciella chloantha	1	0	0	0	2
141	3	s2	174	Physciella chloantha	1	1	1	0	0
141	3	r	268	Xanthomendoza fallax	3	5	7	4	5
141	3	s1	2	Xanthomendoza fallax	4	2	3	4	2
141	3	a	78	Xanthomendoza fallax	6	11	11	10	8
141	3	s2	174	Xanthomendoza fallax	14	10	14	8	14

Site	Tree	Side	Degrees	Lichen	Q1	Q2	Q3	Q4	Q5
141	4	r	262	Candelaria concolor	2	1	1	2	0
141	4	sl	354	Candelaria concolor	1	1	4	1	0
141	4	a	92	Candelaria concolor	0	1	0	0	0
141	4	s2	6	Candelaria concolor	3	0	0	0	0
141	4	a	92	Parmelia sulcata	0	0	0	0	1
141	4	r	262	Physcia adscendens	0	1	0	0	0
141	4	sl	354	Physcia adscendens	1	0	1	0	0
141	4	a	92	Physcia adscendens	2	1	0	0	0
141	4	s2	6	Physcia adscendens	1	0	0	0	0
141	4	r	262	Physcia aipolia	1	0	0	0	0
141	4	a	92	Physcia millegrana	0	0	2	1	0
141	4	s2	6	Physcia millegrana	0	1	0	0	0
141	4	sl	354	Physcia stellaris	1	0	0	0	0
141	4	sl	354	Physciella chloantha	5	2	3	5	5
141	4	r	262	Xanthomendoza fallax	12	11	12	8	8
141	4	sl	354	Xanthomendoza fallax	7	7	5	4	3
141	4	a	92	Xanthomendoza fallax	14	8	8	9	12
141	4	s2	6	Xanthomendoza fallax	12	16	15	17	16
141	5	r	268	Candelaria concolor	2	3	6	1	2
141	5	sl	0	Candelaria concolor	3	3	3	6	7
141	5	a	76	Candelaria concolor	0	1	1	1	0
141	5	r	268	Physcia adscendens	1	0	1	0	0
141	5	sl	0	Physcia adscendens	4	4	2	5	4
141	5	a	76	Physcia adscendens	0	1	2	1	1
141	5	sl	0	Physciella chloantha	0	0	1	0	0
141	5	r	268	Xanthomendoza fallax	6	3	7	15	10
141	5	sl	0	Xanthomendoza fallax	4	3	1	2	0
141	5	a	76	Xanthomendoza fallax	19	14	12	14	14
141	5	s2	174	Xanthomendoza fallax	0	0	0	0	1
142	1	r	166	Candelaria concolor	3	7	3	2	3
142	1	sl	266	Candelaria concolor	1	0	1	1	0
142	1	a	340	Candelaria concolor	9	7	5	1	1
142	1	s2	70	Candelaria concolor	0	2	1	1	1
142	1	r	166	Phaeophyscia ciliata	1	0	0	0	0
142	1	a	340	Phaeophyscia rubripulchra	0	0	0	1	0
142	1	r	166	Physcia aipolia	1	2	1	2	1
142	1	r	166	Physcia stellaris	11	5	9	2	5
142	1	sl	266	Physcia stellaris	3	2	1	3	2
142	1	a	340	Physcia stellaris	2	5	5	8	5
142	1	s2	70	Physcia stellaris	4	5	3	7	9
142	1	r	166	Xanthomendoza fallax	0	1	1	1	0
142	1	a	340	Xanthomendoza fallax	0	0	0	0	1
142	2	r	170	Candelaria concolor	1	1	6	5	2
142	2	sl	260	Candelaria concolor	0	0	0	2	0
142	2	a	344	Candelaria concolor	1	1	0	0	0
142	2	s2	80	Candelaria concolor	3	3	1	0	0
142	2	a	344	Hyperphyscia adglutinata	1	0	0	0	0
142	2	r	170	Phaeophyscia rubripulchra	0	0	1	0	0
142	2	r	170	Physcia stellaris	2	1	1	2	1
142	2	sl	260	Physcia stellaris	2	4	0	2	0
142	2	s2	80	Physcia stellaris	2	0	0	0	0
142	2	r	170	Xanthomendoza fallax	1	3	2	3	7
142	2	sl	260	Xanthomendoza fallax	0	0	0	0	1
142	2	a	344	Xanthomendoza fallax	1	0	0	0	0
142	2	s2	80	Xanthomendoza fallax	1	0	0	0	0

Site	Tree	Side	Degrees	Lichen	Q1	Q2	Q3	Q4	Q5
142	3	r	170	Candelaria concolor	2	6	4	6	7
142	3	sl	260	Candelaria concolor	5	2	1	3	0
142	3	a	0	Candelaria concolor	5	1	2	1	0
142	3	s2	82	Candelaria concolor	1	5	5	10	6
142	3	sl	260	Phaeophyscia adiastrata	0	0	1	0	0
142	3	sl	260	Physcia adscendens	0	0	1	2	0
142	3	r	170	Physcia stellaris	3	0	0	0	0
142	3	sl	260	Physcia stellaris	5	1	1	1	2
142	3	a	0	Physcia stellaris	0	1	0	0	0
142	3	s2	82	Physcia stellaris	1	0	0	0	0
142	3	r	170	Physciella chloantha	0	1	0	0	1
142	3	a	0	Physciella chloantha	0	0	2	0	1
142	3	sl	260	Physconia detersa	0	0	0	0	1
142	3	r	170	Xanthomendoza fallax	6	8	11	7	2
142	3	sl	260	Xanthomendoza fallax	1	1	2	2	8
142	3	a	0	Xanthomendoza fallax	2	5	2	3	3
142	4	r	170	Candelaria concolor	8	9	7	8	7
142	4	sl	250	Candelaria concolor	0	1	1	2	5
142	4	a	356	Candelaria concolor	1	0	0	1	0
142	4	s2	80	Phaeophyscia rubripulchra	2	0	0	0	0
142	4	sl	250	Physcia adscendens	0	0	0	0	1
142	4	a	356	Physcia aipolia	0	1	0	0	0
142	4	sl	250	Physcia stellaris	0	1	0	3	0
142	4	r	170	Physciella chloantha	8	3	5	2	5
142	4	sl	250	Physciella chloantha	14	10	13	7	7
142	4	a	356	Physciella chloantha	1	0	0	0	2
142	4	s2	80	Physciella chloantha	4	0	0	0	0
142	4	r	170	Xanthomendoza fallax	1	0	0	1	1
142	4	sl	250	Xanthomendoza fallax	0	0	0	1	1
142	4	a	356	Xanthomendoza fallax	1	0	0	0	0
142	5	r	170	Candelaria concolor	0	0	1	0	0
142	5	sl	254	Candelaria concolor	2	3	2	2	5
142	5	a	348	Candelaria concolor	4	2	2	4	3
142	5	s2	80	Candelaria concolor	0	0	0	2	0
142	5	a	348	Physcia stellaris	3	1	1	0	0
142	5	s2	80	Physcia stellaris	2	1	0	0	0
142	5	r	170	Physciella chloantha	1	1	3	1	2
142	5	sl	254	Physciella chloantha	7	1	0	1	0
142	5	r	170	Physconia detersa	0	1	0	0	0
142	5	r	170	Xanthomendoza fallax	0	0	0	0	1
142	5	sl	254	Xanthomendoza fallax	3	1	0	0	0
142	5	a	348	Xanthomendoza fallax	4	1	0	0	0
143	1	r	264	Candelaria concolor	1	0	0	0	0
143	1	sl	12	Candelaria concolor	3	3	1	1	2
143	1	a	110	Candelaria concolor	2	3	2	1	1
143	1	s2	200	Candelaria concolor	1	0	0	1	0
143	1	a	110	Physcia adscendens	2	0	0	5	3
143	1	a	110	Physcia stellaris	0	0	0	0	1
143	1	r	264	Physciella chloantha	3	0	1	5	5
143	1	sl	12	Physciella chloantha	7	5	6	12	9
143	1	a	110	Physciella chloantha	5	9	7	7	5
143	1	s2	200	Physciella chloantha	0	0	2	4	2
143	1	r	264	Xanthomendoza fallax	0	0	0	0	3
143	1	sl	12	Xanthomendoza fallax	0	0	3	0	0
143	1	a	110	Xanthomendoza fallax	0	0	1	1	0

Site	Tree	Side	Degrees	Lichen	Q1	Q2	Q3	Q4	Q5
143	1	s2	200	Xanthomendoza fallax	0	0	0	1	0
143	2	r	236	Candelaria concolor	6	8	2	0	3
143	2	sl	332	Candelaria concolor	0	0	3	0	3
143	2	a	65	Candelaria concolor	1	2	4	2	3
143	2	r	236	Hyperphyscia adglutinata	0	0	0	2	0
143	2	sl	332	Phaeophyscia adiaetola	3	6	3	1	0
143	2	a	65	Phaeophyscia adiaetola	8	8	4	5	6
143	2	r	236	Physcia stellaris	0	1	0	0	0
143	2	sl	332	Physcia stellaris	1	0	1	0	1
143	2	a	65	Physcia stellaris	0	0	1	0	0
143	2	r	236	Physciella chloantha	0	2	3	9	10
143	2	sl	332	Physciella chloantha	0	0	0	0	1
143	2	r	236	Physciella melanchra	1	0	0	0	0
143	2	r	236	Xanthomendoza fallax	1	1	0	0	4
143	2	sl	332	Xanthomendoza fallax	6	5	3	4	0
143	2	a	65	Xanthomendoza fallax	2	2	0	2	1
143	3	r	248	Candelaria concolor	0	2	0	0	0
143	3	sl	354	Candelaria concolor	3	0	1	0	0
143	3	a	104	Candelaria concolor	3	1	2	2	1
143	3	s2	200	Candelaria concolor	2	2	2	3	2
143	3	r	248	Phaeophyscia adiaetola	4	2	4	4	2
143	3	sl	354	Phaeophyscia adiaetola	2	1	2	6	8
143	3	a	104	Phaeophyscia adiaetola	7	6	3	8	7
143	3	s2	200	Phaeophyscia adiaetola	3	4	6	6	9
143	3	r	248	Physcia adscendens	0	0	0	2	1
143	3	sl	354	Physcia adscendens	0	1	0	3	2
143	3	a	104	Physcia adscendens	0	1	1	0	0
143	3	r	248	Physcia stellaris	0	0	1	1	0
143	3	a	104	Physcia stellaris	0	1	1	1	0
143	3	sl	354	Physciella chloantha	0	3	3	2	4
143	3	r	248	Xanthomendoza fallax	1	2	1	2	1
143	3	sl	354	Xanthomendoza fallax	0	0	0	0	1
143	3	a	104	Xanthomendoza fallax	0	4	5	2	1
143	3	s2	200	Xanthomendoza fallax	2	2	2	2	0
143	4	r	282	Candelaria concolor	5	11	15	10	13
143	4	sl	18	Candelaria concolor	1	0	0	3	3
143	4	a	98	Candelaria concolor	11	9	10	9	12
143	4	s2	188	Candelaria concolor	5	7	6	9	3
143	4	r	282	Phaeophyscia adiaetola	3	0	0	0	0
143	4	sl	18	Phaeophyscia adiaetola	1	3	1	0	0
143	4	a	98	Phaeophyscia adiaetola	3	2	2	4	0
143	4	s2	188	Phaeophyscia adiaetola	0	0	1	1	3
143	4	sl	18	Physcia adscendens	1	1	2	6	1
143	4	sl	18	Physcia aipolia	0	0	1	0	0
143	4	sl	18	Physciella melanchra	1	0	0	0	0
143	4	sl	18	Xanthomendoza fallax	1	0	1	0	0
143	4	a	98	Xanthomendoza fallax	1	0	0	0	0
143	4	s2	188	Xanthomendoza fallax	0	0	0	0	1
143	5	r	254	Candelaria concolor	6	1	3	6	4
143	5	sl	352	Candelaria concolor	12	13	17	11	7
143	5	a	85	Candelaria concolor	13	18	8	17	10
143	5	s2	172	Candelaria concolor	15	13	5	6	10
143	5	s2	172	Phaeophyscia adiaetola	0	0	0	1	0
143	5	a	85	Physcia adscendens	0	1	0	0	0
143	5	a	85	Physcia aipolia	0	0	1	0	0

Site	Tree	Side	Degrees	Lichen	Q1	Q2	Q3	Q4	Q5
143	5	r	254	Xanthomendoza fallax	3	0	3	5	4
143	5	sl	352	Xanthomendoza fallax	1	1	0	2	2
143	5	a	85	Xanthomendoza fallax	0	0	3	1	0
143	5	s2	172	Xanthomendoza fallax	0	0	2	1	2
144	1	r	344	Candelaria concolor	0	2	1	1	0
144	1	sl	76	Candelaria concolor	3	6	4	5	8
144	1	s2	256	Candelaria concolor	0	1	1	1	0
144	1	r	344	Phaeophyscia adiastrata	0	0	2	1	1
144	1	sl	76	Phaeophyscia adiastrata	2	0	1	4	1
144	1	s2	256	Phaeophyscia adiastrata	0	0	0	1	0
144	1	sl	76	Phaeophyscia ciliata	0	1	0	0	0
144	1	r	344	Phaeophyscia pussiloides	0	0	1	0	0
144	1	sl	76	Phaeophyscia pussiloides	0	1	1	0	0
144	1	r	344	Physcia adscendens	1	1	1	2	1
144	1	sl	76	Physcia adscendens	1	2	1	0	2
144	1	r	344	Physciella chloantha	0	1	0	0	0
144	1	r	344	Xanthomendoza fallax	0	1	0	1	5
144	1	sl	76	Xanthomendoza fallax	0	0	1	2	0
144	1	a	170	Xanthomendoza fallax	0	0	0	1	0
144	2	r	348	Candelaria concolor	2	3	2	4	2
144	2	sl	74	Candelaria concolor	4	3	2	3	7
144	2	s2	264	Candelaria concolor	7	6	7	4	4
144	2	r	348	Phaeophyscia adiastrata	3	5	6	3	6
144	2	sl	74	Phaeophyscia adiastrata	3	5	4	7	5
144	2	a	180	Phaeophyscia adiastrata	0	1	0	1	0
144	2	s2	264	Phaeophyscia adiastrata	5	4	6	5	5
144	2	r	348	Physcia stellaris	0	1	0	0	1
144	2	sl	74	Physcia stellaris	1	0	0	0	0
144	2	s2	264	Physciella chloantha	0	0	0	0	1
144	2	sl	74	Physconia detersa	0	1	0	0	0
144	2	r	348	Xanthomendoza fallax	2	3	3	3	3
144	2	sl	74	Xanthomendoza fallax	2	2	5	2	2
144	2	a	180	Xanthomendoza fallax	0	0	0	0	1
144	2	s2	264	Xanthomendoza fallax	5	4	4	5	5
144	3	r	344	Candelaria concolor	0	1	0	0	0
144	3	sl	84	Candelaria concolor	8	6	2	7	5
144	3	a	164	Candelaria concolor	6	4	4	5	3
144	3	s2	256	Candelaria concolor	12	12	11	5	6
144	3	sl	84	Phaeophyscia adiastrata	0	3	1	1	1
144	3	a	164	Phaeophyscia adiastrata	5	4	6	1	6
144	3	s2	256	Phaeophyscia adiastrata	4	5	4	1	1
144	3	r	344	Physcia adscendens	0	1	5	3	0
144	3	sl	84	Physcia adscendens	0	1	3	1	6
144	3	a	164	Physcia adscendens	0	0	0	0	3
144	3	s2	256	Physcia adscendens	0	0	0	1	0
144	3	sl	84	Physconia detersa	0	0	0	1	0
144	3	r	344	Xanthomendoza fallax	1	1	0	0	2
144	3	sl	84	Xanthomendoza fallax	1	4	1	3	2
144	3	a	164	Xanthomendoza fallax	2	0	1	4	0
144	3	s2	256	Xanthomendoza fallax	1	1	2	5	2
144	4	r	344	Candelaria concolor	0	1	0	0	0
144	4	sl	86	Candelaria concolor	0	2	2	2	3
144	4	a	164	Candelaria concolor	3	1	1	0	0
144	4	s2	258	Candelaria concolor	7	1	1	3	1
144	4	a	164	Hyperphyscia adglutinata	0	1	0	0	0

Site	Tree	Side	Degrees	Lichen	Q1	Q2	Q3	Q4	Q5
144	4	r	344	Phaeophyscia adiaetola	2	0	0	0	0
144	4	sl	86	Phaeophyscia adiaetola	1	1	2	4	2
144	4	a	164	Phaeophyscia adiaetola	0	0	1	0	3
144	4	s2	258	Phaeophyscia adiaetola	1	1	1	2	0
144	4	sl	86	Phaeophyscia pussiloides	0	0	0	0	1
144	4	a	164	Phaeophyscia pussiloides	0	0	0	1	0
144	4	sl	86	Phaeophyscia rubripulchra	0	0	0	2	1
144	4	r	344	Physcia adscendens	2	0	0	1	2
144	4	sl	86	Physcia adscendens	0	1	2	2	2
144	4	s2	258	Physcia adscendens	1	1	0	1	0
144	4	sl	86	Physciella chloantha	0	0	1	0	0
144	4	a	164	Physciella chloantha	1	1	0	0	0
144	4	s2	258	Physciella chloantha	0	0	0	0	1
144	4	sl	86	Xanthomendoza fallax	0	0	0	0	1
144	4	a	164	Xanthomendoza fallax	1	0	0	0	1
144	4	s2	258	Xanthomendoza fallax	1	1	0	0	1
144	5	r	340	Candelaria concolor	7	5	5	3	12
144	5	sl	82	Candelaria concolor	7	7	7	5	12
144	5	a	174	Candelaria concolor	1	0	0	0	3
144	5	s2	262	Candelaria concolor	4	3	3	3	7
144	5	r	340	Phaeophyscia adiaetola	7	6	4	4	2
144	5	sl	82	Phaeophyscia adiaetola	1	1	0	0	0
144	5	s2	262	Phaeophyscia adiaetola	1	1	1	0	0
144	5	r	340	Phaeophyscia ciliata	0	0	1	0	0
144	5	s2	262	Phaeophyscia ciliata	1	1	0	0	0
144	5	s2	262	Phaeophyscia pussiloides	0	0	0	0	1
144	5	s2	262	Phaeophyscia rubripulchra	2	2	0	0	1
144	5	r	340	Physcia adscendens	0	1	0	2	0
144	5	s2	262	Physcia aipolia	1	0	0	0	0
144	5	r	340	Physcia stellaris	0	0	0	1	0
144	5	a	174	Physciella chloantha	0	0	0	1	0
144	5	s2	262	Physciella chloantha	0	0	0	0	1
144	5	r	340	Xanthomendoza fallax	0	0	2	0	0
144	5	sl	82	Xanthomendoza fallax	0	0	2	0	0
144	5	a	174	Xanthomendoza fallax	0	0	0	0	1
144	5	s2	262	Xanthomendoza fallax	0	3	6	4	2
145	1	r	54	Candelaria concolor	3	3	3	6	8
145	1	sl	142	Candelaria concolor	10	12	9	7	6
145	1	s2	324	Candelaria concolor	0	1	5	2	3
145	1	sl	142	Physcia millegrana	0	0	0	1	0
145	1	sl	142	Physcia stellaris	0	0	0	0	2
145	1	r	54	Physciella chloantha	2	0	0	0	0
145	1	r	54	Physciella melanchra	0	1	1	1	0
145	1	sl	142	Physciella melanchra	0	0	1	5	1
145	1	r	54	Xanthomendoza fallax	2	0	0	0	0
145	2	sl	126	Candelaria concolor	0	0	1	0	0
145	2	a	224	Candelaria concolor	1	0	0	0	0
145	2	r	56	Physcia stellaris	0	0	0	0	1
145	2	sl	126	Physcia stellaris	0	0	0	0	1
145	2	r	56	Physciella chloantha	0	2	3	3	4
145	2	sl	126	Physciella chloantha	4	0	4	2	2
145	2	s2	316	Physciella chloantha	0	1	1	2	1
145	2	r	56	Xanthomendoza fallax	0	1	0	0	0
145	2	sl	126	Xanthomendoza fallax	0	0	1	1	0
145	2	a	224	Xanthomendoza fallax	0	0	0	0	1

Site	Tree	Side	Degrees	Lichen	Q1	Q2	Q3	Q4	Q5
145	2	s2	316	Xanthomendoza fallax	0	0	1	0	0
145	3	r	46	Candelaria concolor	9	5	10	8	13
145	3	sl	135	Candelaria concolor	0	2	2	4	5
145	3	a	222	Candelaria concolor	0	1	2	3	3
145	3	s2	312	Candelaria concolor	0	0	0	1	0
145	3	r	46	Phaeophyscia adiascola	0	4	1	2	0
145	3	r	46	Physcia stellaris	1	0	0	0	0
145	3	r	46	Physciella chloantha	3	2	0	0	2
145	3	sl	135	Physciella chloantha	0	0	0	1	0
145	3	s2	312	Physciella chloantha	4	5	8	8	3
145	3	r	46	Xanthomendoza fallax	0	1	0	3	0
145	3	sl	135	Xanthomendoza fallax	0	1	1	0	1
145	3	s2	312	Xanthomendoza fallax	1	0	0	0	0
145	4	r	56	Candelaria concolor	0	0	1	1	5
145	4	sl	146	Candelaria concolor	1	0	2	3	1
145	4	s2	310	Candelaria concolor	0	0	2	2	1
145	4	s2	310	Physcia adscendens	2	1	3	1	0
145	4	r	56	Physciella chloantha	0	0	0	0	2
145	4	sl	146	Physciella chloantha	4	3	2	4	0
145	4	a	238	Physciella chloantha	0	0	0	1	0
145	4	s2	310	Physciella chloantha	0	0	1	1	3
145	4	r	56	Xanthomendoza fallax	2	0	3	0	1
145	4	sl	146	Xanthomendoza fallax	3	4	6	5	1
145	4	a	238	Xanthomendoza fallax	0	0	2	0	0
145	4	s2	310	Xanthomendoza fallax	0	2	5	0	2
145	5	r	60	Candelaria concolor	2	4	1	0	1
145	5	a	242	Candelaria concolor	0	0	1	0	0
145	5	s2	328	Candelaria concolor	0	0	0	0	1
145	5	r	60	Physcia adscendens	5	7	4	5	1
145	5	s2	328	Physcia adscendens	0	4	1	2	0
145	5	s2	328	Physcia millegrana	0	0	1	0	0
145	5	r	60	Physciella chloantha	0	3	2	3	0
145	5	s2	328	Physciella chloantha	1	0	1	0	0
145	5	r	60	Xanthomendoza fallax	0	1	0	2	3
145	5	sl	138	Xanthomendoza fallax	0	0	0	0	1
145	5	a	242	Xanthomendoza fallax	1	0	0	0	1
145	5	s2	328	Xanthomendoza fallax	1	1	0	1	0
146	1	r	74	Candelaria concolor	0	0	1	5	2
146	1	sl	180	Candelaria concolor	0	1	2	0	0
146	1	a	280	Candelaria concolor	0	0	2	0	0
146	1	s2	354	Candelaria concolor	0	0	1	2	3
146	1	r	74	Phaeophyscia adiascola	3	1	0	2	5
146	1	sl	180	Phaeophyscia adiascola	1	6	4	8	2
146	1	a	280	Phaeophyscia adiascola	1	3	4	2	1
146	1	s2	354	Phaeophyscia adiascola	1	5	0	1	0
146	1	sl	180	Phaeophyscia rubripulchra	0	0	3	3	0
146	1	sl	180	Physcia adscendens	0	0	0	0	1
146	1	a	280	Physcia adscendens	1	0	1	0	1
146	1	s2	354	Physcia adscendens	0	0	0	1	0
146	1	r	74	Physcia stellaris	2	3	3	2	3
146	1	sl	180	Physcia stellaris	0	3	0	0	0
146	1	a	280	Physcia stellaris	3	5	0	1	1
146	1	s2	354	Physcia stellaris	0	2	0	0	0
146	1	r	74	Physciella chloantha	0	0	0	1	0
146	1	a	280	Physciella chloantha	0	1	0	0	0

Site	Tree	Side	Degrees	Lichen	Q1	Q2	Q3	Q4	Q5
146	1	s2	354	Physciella chloantha	0	0	13	7	11
146	1	r	74	Xanthomendoza fallax	1	1	2	4	3
146	1	s1	180	Xanthomendoza fallax	0	1	6	8	15
146	1	a	280	Xanthomendoza fallax	0	6	6	2	2
146	1	s2	354	Xanthomendoza fallax	1	2	1	3	2
146	2	r	88	Candelaria concolor	1	0	0	0	0
146	2	s1	174	Candelaria concolor	1	0	1	0	2
146	2	a	268	Candelaria concolor	2	2	3	1	0
146	2	s2	0	Candelaria concolor	2	1	0	3	5
146	2	s1	174	Hyperphyscia adglutinata	0	0	2	0	0
146	2	a	268	Physcia adscendens	0	0	0	1	0
146	2	r	88	Physcia stellaris	4	4	0	1	0
146	2	s1	174	Physcia stellaris	1	0	2	1	1
146	2	a	268	Physcia stellaris	1	0	3	2	0
146	2	s2	0	Physcia stellaris	0	1	1	0	0
146	2	r	88	Physciella chloantha	2	3	4	8	11
146	2	s1	174	Physciella chloantha	3	0	2	6	4
146	2	a	268	Physciella chloantha	5	2	5	9	7
146	2	s2	0	Physciella chloantha	1	1	0	3	4
146	2	r	88	Xanthomendoza fallax	1	1	4	5	4
146	2	s1	174	Xanthomendoza fallax	1	0	0	3	3
146	2	a	268	Xanthomendoza fallax	1	2	1	3	5
146	2	s2	0	Xanthomendoza fallax	0	2	1	2	1
146	3	r	90	Candelaria concolor	0	0	0	0	1
146	3	s2	2	Candelaria concolor	0	1	0	0	1
146	3	r	90	Hyperphyscia adglutinata	0	3	1	2	0
146	3	s1	175	Hyperphyscia adglutinata	1	1	1	2	0
146	3	a	258	Hyperphyscia adglutinata	3	3	3	5	4
146	3	s2	2	Hyperphyscia adglutinata	5	0	0	3	2
146	3	a	258	Phaeophyscia pussiloides	0	0	1	0	0
146	3	r	90	Physcia adscendens	0	0	0	0	1
146	3	s1	175	Physcia adscendens	0	0	0	1	0
146	3	a	258	Physcia adscendens	0	0	5	1	2
146	3	a	258	Physcia aipolia	0	0	1	0	0
146	3	r	90	Physcia stellaris	3	4	1	1	0
146	3	s1	175	Physcia stellaris	2	1	1	1	6
146	3	a	258	Physcia stellaris	2	6	4	8	5
146	3	s2	2	Physcia stellaris	2	0	0	1	1
146	3	a	258	Physciella chloantha	1	0	0	0	0
146	3	r	90	Xanthomendoza fallax	0	0	0	0	1
146	3	s1	175	Xanthomendoza fallax	0	1	0	0	0
146	3	a	258	Xanthomendoza fallax	0	3	3	1	3
146	3	s2	2	Xanthomendoza fallax	0	0	0	1	1
146	4	s1	170	Candelaria concolor	0	0	1	0	0
146	4	a	262	Candelaria concolor	2	2	3	2	3
146	4	r	88	Hyperphyscia adglutinata	0	1	1	0	2
146	4	s1	170	Hyperphyscia adglutinata	0	0	1	1	2
146	4	a	262	Hyperphyscia adglutinata	1	0	0	0	0
146	4	a	262	Phaeophyscia adiaetola	2	6	4	3	3
146	4	s2	354	Phaeophyscia adiaetola	0	2	1	0	1
146	4	a	262	Phaeophyscia pussiloides	0	1	0	0	0
146	4	s2	354	Phaeophyscia pussiloides	0	0	0	0	1
146	4	a	262	Physcia adscendens	0	0	0	1	0
146	4	r	88	Physcia aipolia	3	0	3	0	3
146	4	a	262	Physcia aipolia	0	2	0	0	0

Site	Tree	Side	Degrees	Lichen	Q1	Q2	Q3	Q4	Q5
146	4	r	88	<i>Physcia stellaris</i>	2	0	0	0	2
146	4	s1	170	<i>Physcia stellaris</i>	0	2	1	6	3
146	4	a	262	<i>Physcia stellaris</i>	2	0	3	7	3
146	4	s2	354	<i>Physcia stellaris</i>	0	0	1	1	1
146	4	a	262	<i>Physconia detera</i>	0	0	0	1	0
146	4	s1	170	<i>Xanthomendoza fallax</i>	1	0	1	3	3
146	4	a	262	<i>Xanthomendoza fallax</i>	4	4	2	2	2
146	4	s2	354	<i>Xanthomendoza fallax</i>	0	1	0	0	0
146	5	r	85	<i>Candelaria concolor</i>	3	1	1	1	1
146	5	s1	173	<i>Candelaria concolor</i>	2	1	2	2	5
146	5	a	260	<i>Candelaria concolor</i>	4	8	11	6	10
146	5	s2	355	<i>Candelaria concolor</i>	0	0	0	1	0
146	5	r	85	<i>Phaeophyscia adiaetola</i>	0	1	9	4	2
146	5	s1	173	<i>Phaeophyscia adiaetola</i>	2	2	1	0	1
146	5	a	260	<i>Phaeophyscia adiaetola</i>	2	3	1	5	0
146	5	s2	355	<i>Phaeophyscia adiaetola</i>	1	0	1	1	1
146	5	r	85	<i>Phaeophyscia ciliata</i>	0	0	0	0	4
146	5	r	85	<i>Physcia adscendens</i>	1	0	0	0	1
146	5	s1	173	<i>Physcia adscendens</i>	0	0	0	1	1
146	5	a	260	<i>Physcia adscendens</i>	1	0	0	1	0
146	5	r	85	<i>Physcia aipolia</i>	0	0	0	6	0
146	5	s1	173	<i>Physcia aipolia</i>	2	2	0	0	0
146	5	a	260	<i>Physcia aipolia</i>	1	0	0	0	0
146	5	r	85	<i>Physcia stellaris</i>	3	6	9	6	9
146	5	s1	173	<i>Physcia stellaris</i>	0	1	2	5	4
146	5	a	260	<i>Physcia stellaris</i>	3	3	1	3	2
146	5	s2	355	<i>Physcia stellaris</i>	2	1	2	4	4
146	5	a	260	<i>Physciella chloantha</i>	0	0	0	0	1
146	5	r	85	<i>Xanthomendoza fallax</i>	0	1	0	2	2
146	5	s1	173	<i>Xanthomendoza fallax</i>	5	6	0	1	2
146	5	a	260	<i>Xanthomendoza fallax</i>	7	4	5	2	3
146	5	s2	355	<i>Xanthomendoza fallax</i>	0	0	0	0	1

(Lobe of *Phycia adscendens* with *Candelaria concolor* under 10x handlens)

When your fieldwork smiles at you... smile back!