CITY FOREST CREDITS

Area Reforestation Project Type and Quantification

October 25, 2020

Area Reforestation seeks two main goals – create a dynamic forest ecosystem and generate canopy over parcels or properties greater than 5 acres and some cases over dozens or hundreds of acres. Examples are projects to convert agricultural land to forest or reforestation of natural areas. To accomplish these goals, area reforestation plants trees closely together, using a diverse palette of species and size, with relatively high expected mortality. Mortality is not the central measure of success of area reforestation, because certain species and trees are expected to out-compete others. Recruitment often occurs that results in mature trees that were not planted by the project operator.

The amount of CO_2 stored after 25-years by planted project trees is based on the anticipated amount of tree canopy area (TC). The forecasted amount of CO_2 stored at 25-years is the product of the amount of tree canopy (TC) and the CO_2 Index (CI, t CO_2 per acre). This approach recognizes that forest dynamics for area reforestation projects are different than for street trees or parks projects. In many cases, native species are planted close together and early competition results in high mortality and rapid canopy closure. The Single Tree Method and the Canopy Method for Parks-like plantings, which are based on the biometrics of open-growing urban trees, do not adequately describe biomass distribution among closely-spaced trees and the dynamic changes in CO_2 stored in dead wood and understory vegetation as a forest stand matures.

City Forest Credits (referred to as the Registry) issues credits at four times during a 25-year area reforestation project. Assuming compliance with all protocol requirements and third-party verification, the Registry issues credits based on projected CO_2 storage over the 25-year project duration. It issues 10% of projected credits after planting, 40% of projected credits at Year 4, and 30% of projected credits at Year 6 after planting. At the end of the project, in year 25, the Operator will receive credits for all CO_2 stored, minus credits already issued. A 5% buffer pool deduction is applied at each issuance of credits, with these funds going into a program-wide pool to insure against catastrophic loss of trees (unavoidable reversals).

To quantify the CO_2 for these kinds of area reforestation projects, Project Operators may choose one of two methods – local data or a forest ecosystem approach using the USDA Forest Service General Technical Report (GTR), with its biometric data and allometrics for 51 forest ecosystems in regions of the U.S. (Smith et al., 2006). In this GTR method, the forecasted amount of CO_2 stored at 25-years is the product of the amount of TC and the CO_2 Index (CI, t CO_2 per acre).

Local Data

Project Operators may apply to the Registry to quantify the projected CO_2 storage from local data for tree growth that more accurately reflects CO_2 storage than the GTR tables. If a Project Operator has

local data for 25-year-old stands like those planted, it can submit that data to the Registry. The Registry retains sole discretion to determine the applicability of that data to the planting project of the Project Operator.

Use of GTR Tables

A Project Operator may alternatively choose to use the USDA Forest Service General Technical Report (GTR), with its biometric data and allometrics for 51 forest ecosystems in regions of the U.S. (Smith et al., 2006). The GTR tables provide carbon stored per hectare for each of six pools as a function of stand age. We used values for 25-year old stands for afforestation projects, because the sites contain little carbon in down dead wood and forest floor material at the time of planting. Data used to derive the 51 forest ecosystem tables came from U.S. Forest Inventory and Assessment plots. More information on methods used to prepare the tables can be found in Smith et al. (2006). The value from the applicable table, for total non-soil carbon stock for age 25 (or other source approved by the registry) is the CO_2 Index (CI).

Project Operators determine their forest type and select the type from their region in the GTR tables. Project Operators then utilize the carbon totals for year 25 from the tables. If a project is planted on an area that has been tilled to grow crops for at least three of ten years before tree planting, then soil carbon may be claimed.

SOIL CARBON SEQUESTRATION

- If a project converts land from tillage, the project may receive credit for increasing soil carbon sequestration. If a project does not convert land from tillage, the project shall not receive credit for soil carbon sequestration. To receive soil carbon credits, the project must document a history of cropping in at least three of the 10 years preceding initiation of the project. Options for documenting tillage include cropping records, crop subsidy payment receipts, and historical aerial photos showing cropping.
- Following the United Nations Framework Convention on Climate Change, Intergovernmental Panel on Climate Change (IPCC) afforestation/reforestation methodological tool "Tool for estimation of change in soil organic carbon stocks due to the implementation of A/R CDM project activities, Version 01," projects that are on sites that are productive enough to grow trees and that stop tillage are assumed to gain more than the IPCC's maximum creditable amount of soil carbon of 16 tC/ha, which is 23.7 tCO_2e/acre over the 25 year life of the sequestration project.
- When a project converts agricultural land to forest and makes no change in the demand for agricultural products, the project creates pressure to bring other lands into agriculture. Economists call the rate that other resources are increased to serve a supply the "price elasticity of supply." The average price elasticity of supply of agricultural land in the U.S. is calculated by Barr et al. (2010) to be 0.018, which is 1.8%. To account for this expected conversion of some other land to agriculture, and assuming that land brought into agriculture loses the same amount of carbon that soil taken out of agriculture regains, the Registry deducts 1.8% of the IPCC creditable amount of carbon gain. As a result, projects that convert land from tillage to trees may count

23.3 tCO_2e per acre of soil carbon gain as a result of the project over the 25 year life of the project.

After conversions from Carbon to CO_2, **the CO_2 Index (CI) is tons CO_2 per acre of tree canopy (TC) and the forecasted amount of CO_2 stored after 25-years is the CI x TC.** This is the value from which the Registry will issue credits.

If a Project operator feels that the GTR table applicable to its project does not reflect accurate CO_2 storage for that project, he or she may apply to the Registry for use of a different GTR table in a more accurate way. Here is a non-exhaustive list of factors the Registry will consider in any requests to deviate from the GTR values:

- Soils
- Precipitation
- Climate information for the area
- Site productivity
- Local measurements of growth
- Proximity to the border of another region

Guidance on Numbers of Trees per Acre to Plant for Crediting under this Area Reforestation Quantification Method

To determine how many trees to plant, the project must estimate what mortality of planted seedlings it will have. With professional tree planters, quality planting stock, growing conditions conducive to growth, and little animal damage, planting at 10' by 10' spacing (436 trees per acre) often results in more than 400 trees per acre surviving at Year 6.

In harsh site conditions, or planting at the wrong time of year, or not keeping seedlings cool and moist, or not planting with good contact between roots and soil, mortality of 30-50% is common. Planting by volunteer planters, or in sites with high animal browsing, can result in mortality greater than 80-90%. CFC recommends having someone with tree planting expertise manage the acquisition of planting stock and manage the planting process.

Methods for Determining Canopy Cover Growth or Tree Survival, and Progress Standards for Issuance of Credits at Years 4 and 6

Projects can choose one of two methods for determining canopy or tree survival – the Canopy Cover Growth Method or the Trees Per Acre Method

CANOPY COVER GROWTH METHOD

- Project provides images of the Project Area from any telemetry, imaging, remote sensing, i-Tree Canopy, or UAV service, such as Google Earth and estimate the area in tree canopy cover (acres).
    - Imaging from Google Earth with leaf-on may be used. Project operators will calculate the percent of canopy cover from the Google Earth imaging
    - Projects can use i-Tree Canopy and point sampling to calculate canopy cover. Using i-Tree Canopy, continue adding points until the standard error of the estimate for both the tree and non-tree cover is less than 5%. i-Tree Canopy will supply you with the standard errors.
    - If tree canopy cover is determined using another approach, such as image classification, a short description of the approach should be provided, as well as the QA/QC measures that were used. A tree cover classification accuracy assessment should be conducted, as with randomly placed points, and the percentage tree cover classification accuracy reported.

- Progress Requirements for Issuance of Credits in Years 4 and 6:

    - At Year 4, projects must show canopy coverage of at least 2.8% of the Project Area (400 trees per acre with an average canopy area of 3.14 square feet per tree (2-foot diameter of canopy) is 2.8% of an acre)
    - At Year 6, projects must show canopy coverage of at least 26% of the Project Area (400 trees with an average canopy area of 28.26 square feet per tree (6-foot diameter of canopy) is 26% of an acre)

Note: if projects exceed these Progress Requirements, they will not receive credits early or out of schedule. If projects fail to meet the Progress Requirements, they will not be eligible to request credits until they meet the Progress Requirements.

TREES PER ACRE METHOD

- Select 60 plots within the project area. This can be done using i-Tree Canopy and downloading plot center coordinates, or by travelling to the project area, choosing a random starting point, and walk a grid that locates at least 60 plots within the project area, well distributed across the project area. If locating the plots in the field, record the coordinates of each plot center. The Registry can provide examples of methods for determining the grid spacing and doing a random start.
- Mark each plot center with flagging, with the plot number written on the flagging. For a circular plot with 11.78' radius measured horizontally from plot center (not slope distance). This 11.78' radius makes a 1/100 acre plot.
- Count the number of live trees on the plot, counting only tree species that typically will reach 6" DBH by age 25 under the conditions present within the project area.

- Calculate the average number of trees per plot. Multiply the average number of trees per plot by 100. This is the average number of trees per acre present on the project.
- Divide the number of trees per acre on the project area by 400. This is the fraction canopy cover expected to be achieved by age 25.
- Multiply the fraction canopy cover expected to be achieved by age 25 by the live tree carbon stock (in metric tons of carbon per acre) at age 25 from the appropriate afforestation table in US Forest Service GTR NE-343. This is the carbon stock expected to be present at age 25. Multiply this expected carbon stock by 3.67 to calculate the expected carbon stock in metric tons CO_2e per acre.
- Report to the Registry:
    - The method used to locate plot centers.
    - Plot center coordinates.
    - Plot data, specifically the number of trees on each plot, by plot.
    - The average number of trees per acre calculated from plot data.

To count as fully stocked, at Year 6 (after five years of growth since planting) the project must have 400 surviving trees per acre of species that typically will reach 6" DBH by age 25 under the conditions present within the project area.

If 200-400 trees per acre are surviving at Year 6, predicted carbon sequestration is adjusted by multiplying the predicted carbon stock for full stocking at age 25 times the fraction (live trees per acre divided by 400). If the project has fewer than 200 trees per acre at Year 6, the CFC "single tree" quantification tool should be used.

QUANTIFICATION AT END OF YEAR 25

- Project may calculate Trees Per Acre as described above, or
- Project provides images of the Project Area from any telemetry, imaging, remote sensing, i-Tree Canopy, or UAV service, such as Google Earth and estimate the area in tree canopy cover (acres).
    - Projects can use i-Tree Canopy and point sampling to calculate canopy cover. Using i-Tree Canopy, continue adding points until the standard error of the estimate for both the tree and non-tree cover is less than 5%. I-Tree Canopy will supply you with the standard errors.
    - If tree canopy cover is determined using another approach, such as image classification, a short description of the approach should be provided, as well as the QA/QC measures that were used. A tree cover classification accuracy assessment should be conducted, as with randomly placed points, and the percentage tree cover classification accuracy reported.
    - Project calculates total CO_2 storage at end of Year 25 as follows:
        - Multiply the CI (carbon index times the acres of TC (tree canopy) in the Project Area.

References

Barr, Kanlaya J., Bruce A. Babcock, Miguel Carriquiry, Andre Nasser, and Leila Harfuch. 2010. "Agricultural Land Elasticities in the United States and Brazil." CARD Working Papers. 519. http://lib.dr.iastate.edu/card_workingpapers/519

Smith, James E.; Heath, Linda S.; Skog, Kenneth E.; Birdsey, Richard A. 2006. Methods for calculating forest ecosystem and harvested carbon with standard estimates for forest types of the United States. Gen. Tech. Rep. NE-343. Newtown Square, PA: U.S. Department of Agriculture, Forest Service, Northeastern Research Station. 216 p.

Kendall County Forest Preserve District - Hoover Forest Preserve
25-Year Stand - Growth Rate Data
5.98 +/- Total Acres - Hardwood
2.15 +/- Total Acres - Pine Planting

Species Code			
Oak sp.	O	Pine sp.	P
Walnut	W	Dead	X
Hickory	H	Other	

Average DBH - All		9.27"
Average DBH - O		8.12"
Average DBH - W		12.56"
Average DBH - H		12.97"
Average DBH - P		14.56"

Average Spacing (all rows) - 12.54'
Average Height - 50.8' (students) v/s GIS 26.44'
Mortality Count (X) 442/1888 (23.4%)

Diameter measurement was circumference to nearest inch. DBH calculated by dividing circumference by 3.14

QC Tree Diameter changes

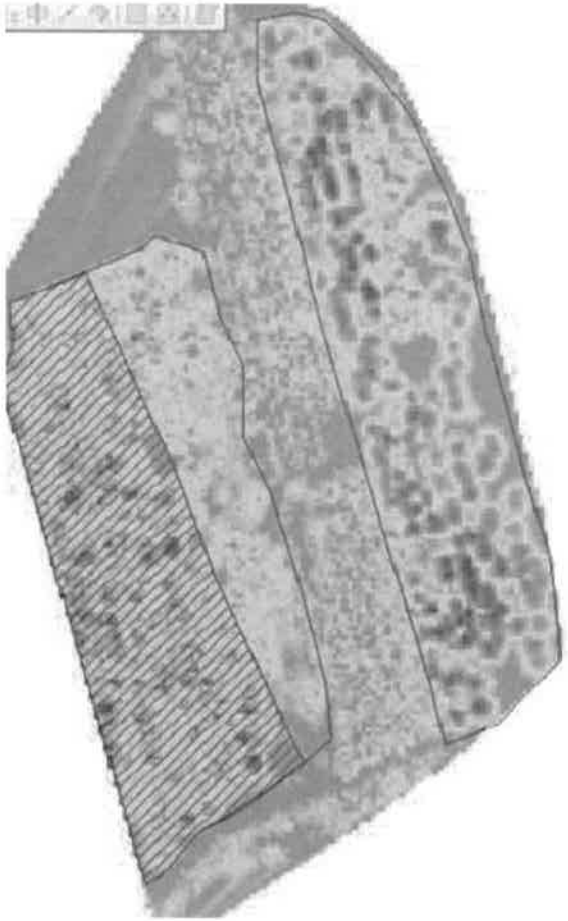
Row	Tree #	Change
24	40	Circumference from 188" to 18" to match nearby trees
10	1	Circumference from 132" to 32" to match nearby trees
19	15	Not changed: Reported circumference 84" nearby trees in range of 8" circumference

Biomass equations are general equations for pine and mixed hardwoods from:
Jenkins, Jennifer C.; Chojnacky, David C.; Heath, Linda S.; Birdsey, Richard A. 2004. Comprehensive database of diameter-based biomass regressions for North American tree species. Gen. Tech. Rep. NE-319. Newtown Square, PA: U.S. Department of Agriculture, Forest Service, Northeastern Research Station. 45 p.

Area	MaxHeight	AverageHe	PatchArea_sqft	Patch_Acres
West	53.52417	26.43906	142,368	3.27
East	60.55237	24.35093	117,603	2.70
WestWest	60.55237	26.59026	93,479	2.15
Total			353,450	
		West + Eas	5.97	
GS google earth 2 June 2021				3.32

15.8 reported spacing
174 TPA based on reported spacing

15.7 spacing from data
177 predicted TPA from reported spacing
159 TPA from data



Total	379,060	189.53	190	8.83	21.5	159			
Check Total	379,060		tC/area	Acres	tC ABG live/ac	TPA	Belowgrou	Live tree tCO2/ac	Above and belowground
Rows 1-20		69.18	69	3.27	**21.2**	178	0.2	**93.1**	
GTR NE-343, Table B10, live tree, age 25					13.6		0.2	59.8	
				Note: acres subject to re-mapping					
GTR NE-343, Table B10, age 25			Other nonsoil carbon		4.6			16.9	
								109.9	Total sequestration per acre, at age 25

	DBH, in	Bark:DBH	Age		Growth Rings/inch
Median, all trees	8.92	0.05	25	0.17	5.9
67th percentile	11.15	0.05	25	0.21	4.7
90th percentile	14.97	0.05	25	0.28	3.5
Largest tree	26.75	0.05	25	0.51	2.0

SUMMARY FOR HOOVER FP 1995 TREE PLANTING PROJECT - ROWS 1-20

Source	Check Total 379,050		tC/area	Acres	tC ABG live/ac	Trees Per Acre	Below Ground Ratio	Live tree tCO2/ac Above and belowground	
Oswego East HS Student Collected Data	**Rows 1-20**	69.18	69	3.27	**21.2**	178	0.2	**93.1**	
https://www.nrs.fs.fed.us/pubs/gtr/ne_gtr343.pdf	**GTR NE-343, Table B10, live tree, age 25**				**13.6**		0.2	*59.6*	*Live Tree tC02/acLiterature Comparison*
https://www.nrs.fs.fed.us/pubs/gtr/ne_gtr343.pdf	**GTR NE-343, Table B10, age 25**		Other nonsoil carbon		**4.6**			**16.9**	
								109.9	Total sequestration per acre, at age 25 (93.1 + 16.9)

	DBH, in	Bark: DBH ratio	Age	Growth ring width, in	Rings/inch
Median, all trees	8.92	0.05	25	0.17	5.9
67th percentile	11.15	0.05	25	0.21	4.7
90th percentile	14.97	0.05	25	0.28	3.5
Largest tree	26.75	0.05	25	0.51	2.0

Note: Acres subject to re-mapping completed in consultation with Lindsay Darling - The Morton Arboretum for Rows 1-20

Row #	Tree #	Species	Co	Spacing	Be	DBH	Height	Notes	Kg biomas	DBH Class
19	15	O		4		26.75159			2972.878	22
1	2	O		7		23.56688			2170.033	22
27	44	O		6		23.24841			2097.934	22
21	1	O				22.92994			2027.284	22
32	49	P		4		22.61146			1521.204	22
28	2	O		2		22.29299			1890.299	22
35	14	B		13		21.02		triple	1633.475	22
36	9	B		9		20.06		triple	1454.431	22
36	17	B		4		19.43		triple	1343.62	18
37	16	P		4		19.43		Double tre	1051.562	18
8	24	O		67		19.10828			1289.045	18
21	10	O		63		19.10828			1289.045	18
31	17	P		7		18.79			969.2077	18
38	1	P	X			18.79			969.2077	18
38	9	P		12		18.79			969.2077	18
38	16	P		42		18.79			969.2077	18
38	46	P		12		18.79		Double Tre	969.2077	18
32	18	P		9		18.78981			969.1837	18
32	46	P		30		18.78981			969.1837	18
25	19	O		8		18.47134			1184.958	18
20	1	O				18.15287			1134.866	18
32	12	P		25		18.15287			891.1242	18
32	22	P		12		18.15287			891.1242	18
32	37	P		12		18.15287			891.1242	18
32	44	P		6		18.15287			891.1242	18
32	47	P		12		18.15287			891.1242	18
32	60	P		64		18.15287			891.1242	18
34	37	P		63		18.15		61	890.7816	18
33	25	P		23		18.15		54	890.7816	18
34	16	P		46		18.15			890.7816	18
35	7	B		8		18.15		double	1134.421	18
13	49	O		15		17.83439			1086.061	18
34	9	P		16		17.83		62	853.0234	18
37	17	P		4		17.83			853.0234	18
37	49	P		4		17.83			853.0234	18
38	4	P		8		17.83			853.0234	18
38	36	P		14		17.83			853.0234	18
34	21	P		36		17.52			817.3606	18
38	7	P		7		17.52			817.3606	18
32	43	P		11		17.51592			816.8976	18
32	50	P		13		17.51592			816.8976	18
38	43	P		46		17.2		49	781.4852	18
33	9	P		7		17.2		dt	781.4852	18
33	43	P		33		17.2			781.4852	18
34	8	P		12		17.2			781.4852	18
38	6	P		7		17.2			781.4852	18
38	10	P		8		17.2			781.4852	18
9	30	O		25		17.19745			992.2688	18
27	40	O		10		17.19745			992.2688	18
34	30	P		12		16.88			746.5548	18
4	11	O		43		16.56051			903.4908	18
9	44	O		25		16.56051			903.4908	18
18	9	O		16		16.56051			903.4908	18
32	51	P		15		16.56051			712.6152	18
38	56	P		19		16.56		57	712.5618	18
33	39	P		6		16.56			712.5618	18
34	27	P		6		16.56			712.5618	18
37	20	P		2		16.56			712.5618	18
37	21	P		2		16.56			712.5618	18
38	35	P		43		16.56			712.5618	18
38	50	P		14		16.56			712.5618	18
38	54	P		29		16.56			712.5618	18
37	41	P		12		16.24		54	679.4984	18
31	47	P		12		16.24			679.4984	18
33	26	P		11		16.24			679.4984	18
34	3	P		10		16.24			679.4984	18
34	17	P		6		16.24			679.4984	18
37	15	P		6		16.24			679.4984	18
37	19	P		8		16.24			679.4984	18
37	33	P		7		16.24			679.4984	18
38	17	P		17		16.24			679.4984	18
38	26	P		8		16.24			679.4984	18
38	37	P		19		16.24			679.4984	18
38	57	P		17		16.24			679.4984	18
39	10	H		42		16.24			860.6858	18
3	20	O		10		15.92357			819.6368	14
19	2	O		10		15.92357		Double	819.6368	14
25	31	O		4		15.92357			819.6368	14
25	71	O		6		15.92357			819.6368	14
32	61	P		12		15.92357			647.71	14
38	24	P		49		15.92		53	647.3568	14
39	23	H		16		15.92		49	819.1809	14
33	13	P		10		15.92		48	647.3568	14
31	29	P		20		15.92			647.3568	14
33	5	P				15.92			647.3568	14
34	7	P		6		15.92			647.3568	14
34	24	P		12		15.92			647.3568	14
37	1	P				15.61		49	617.0911	14
39	4	H		13		15.61		46	780.136	14
31	25	P		29		15.61			617.0911	14
31	43	P		45		15.61			617.0911	14
33	37	P		1		15.61			617.0911	14
34	2	P		7		15.61			617.0911	14
34	6	P		6		15.61			617.0911	14
34	26	P		16		15.61			617.0911	14
34	29	P		9		15.61			617.0911	14
35	11	B		19		15.61			780.136	14
36	18	B		6		15.61		double	780.136	14
37	14	P		6		15.61			617.0911	14
37	18	P		5		15.61			617.0911	14
37	43	P		4		15.61			617.0911	14
38	59	P		6		15.61			617.0911	14
39	26	H		8		15.61			780.136	14
3	29	O		15		15.6051			779.5274	14
7	26	O		19		15.6051			779.5274	14
9	16	O		12		15.6051			779.5274	14

Max HT=62' =2.48' annual HT growth increment; 11 trees >50' HT deemed plausible

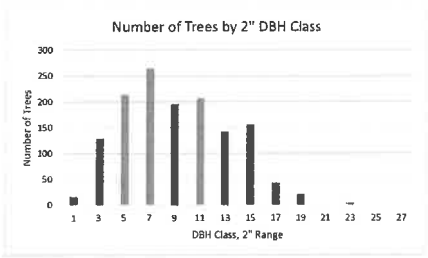
DBH >in	Count, tree	%, trees
24	1	0.07%
22	3	0.21%
20	8	0.57%
18	31	2.21%

Size class

Min DBH	Max DBH	Size class	Count
0	4	2	146
4	8	6	480
8	12	10	402
12	16	14	298
16	20	18	67
20	99	22	8

Size class

Min DBH	Max DBH	Size class	Count
0	2	1	17
2	4	3	129
4	6	5	214
6	8	7	266
8	10	9	195
10	12	11	207
12	14	13	142
14	16	15	156
16	18	17	44
18	20	19	23
20	22	21	2
22	24	23	5
24	26	25	0
26	28	27	1



9	43	O		36	15.6051			779.5274	14
32	1	P	X		15.6051			616.6191	14
32	30	P		10	15.6051			616.6191	14
32	36	P		10	15.6051			616.6191	14
32	41	P		40	15.6051			616.6191	14
32	53	P		12	15.6051			616.6191	14
31	4	P		27	15.29			586.7408	14
31	5	P		24	15.29			586.7408	14
31	14	P		17	15.29			586.7408	14
31	28	P		23	15.29			586.7408	14
31	44	P		10	15.29			586.7408	14
33	19	P		2	15.29			586.7408	14
33	27	P		10	15.29			586.7408	14
36	12	B		10	15.29		double	741.0205	14
36	21	B		13	15.29			741.0205	14
4	37	O		36	15.28662			740.6142	14
9	11	O		10	15.28662			740.6142	14
13	20	O		5	15.28662			740.6142	14
16	1	O			15.28662			740.6142	14
19	37	O		14	15.28662			740.6142	14
25	36	O		4	15.28662			740.6142	14
26	9	O		8	15.28662		Double	740.6142	14
27	58	O		30	15.28662			740.6142	14
32	4	P		3	15.28662			586.4255	14
32	10	P		105	15.28662			586.4255	14
31	27	P		6	14.97			557.2885	14
31	54	P		12	14.97			557.2885	14
33	38	P		2	14.97			557.2885	14
33	44	P		8	14.97			557.2885	14
33	50	P		4	14.97			557.2885	14
34	10	P		6	14.97			557.2885	14
34	23	P		10	14.97			557.2885	14
34	39	P		12	14.97			557.2885	14
35	11	B		15	14.97		double	703.1008	14
37	3	P		4	14.97			557.2885	14
38	8	P		6	14.97			557.2885	14
38	28	P		4	14.97			557.2885	14
38	47	P		12	14.97			557.2885	14
38	58	P		12	14.97			557.2885	14
39	20	H		8	14.97			703.1008	14
39	24	H		16	14.97			703.1008	14
1	15	H		7	14.96815			702.8853	14
17	47	O		2	14.96815			702.8853	14
21	6	O		67	14.96815			702.8853	14
25	70	O		6	14.96815			702.8853	14
31	53	P		12	14.65			528.7259	14
34	4	P		11	14.65			528.7259	14
35	9	B		15	14.65			666.3647	14
37	13	P		6	14.65			528.7259	14
37	34	P		7	14.65			528.7259	14
37	45	P		2	14.65			528.7259	14
37	46	P		7	14.65			528.7259	14
37	53	P		9	14.65			528.7259	14
38	27	P		6	14.65			528.7259	14
38	38	P		13	14.65			528.7259	14
38	45	P		8	14.65			528.7259	14
38	48	P		6	14.65			528.7259	14
38	60	P		6	14.65			528.7259	14
3	25	O		22	14.64968			666.3287	14
4	12	O		18	14.64968			666.3287	14
4	17	O		24	14.64968			666.3287	14
6	26	O		12	14.64968			666.3287	14
7	14	O		19	14.64968			666.3287	14
18	3	O		8	14.64968			666.3287	14
18	19	O		8	14.64968			666.3287	14
23	88	O		7	14.64968			666.3287	14
27	38	O		16	14.64968			666.3287	14
32	3	P		4	14.64968			528.6979	14
32	48	P		6	14.64968			528.6979	14
3	32	O		8	14.33121			630.9322	14
7	24	O		60	14.33121			630.9322	14
9	33	O		54	14.33121			630.9322	14
10	23	O		90	14.33121			630.9322	14
10	46	O		4	14.33121			630.9322	14
11	17	O		111	14.33121			630.9322	14
12	6	O		12	14.33121			630.9322	14
13	28	O		48	14.33121			630.9322	14
24	53	O		8	14.33121			630.9322	14
25	1	O	X		14.33121			630.9322	14
25	58	O		20	14.33121			630.9322	14
25	72	O		6	14.33121			630.9322	14
27	9	O		6	14.33121			630.9322	14
32	2	P		6	14.33121			501.1476	14
32	13	P		6	14.33121			501.1476	14
32	23	P		10	14.33121			501.1476	14
32	33	P		4	14.33121			501.1476	14
36	1	B		12	14.33		42 double	630.7999	14
31	13	P		30	14.33			501.0446	14
31	30	P		10	14.33			501.0446	14
31	35	P		6	14.33			501.0446	14
31	52	P		13	14.33			501.0446	14
33	10	P		9	14.33			501.0446	14
34	1	P			14.33			501.0446	14
34	28	P		4	14.33			501.0446	14
37	2	P		5	14.33			501.0446	14
37	12	P		9	14.33			501.0446	14
37	47	P		8	14.33			501.0446	14
38	3	P		12	14.33			501.0446	14
38	30	P		9	14.33			501.0446	14
38	44	P		6	14.33			501.0446	14
38	49	P		9	14.33			501.0446	14
39	18	H		14	14.33			630.7999	14
3	42	O		43	14.01274			596.6837	14
7	1	O	X		14.01274			596.6837	14
7	31	O		29	14.01274			596.6837	14
9	36	O		57	14.01274			596.6837	14
13	52	O		15	14.01274			596.6837	14

18	40	O		16	14.01274		596.6837	14
20	30	O		16	14.01274		596.6837	14
24	17	O		10	14.01274		596.6837	14
32	16	P		9	14.01274		474.462	14
37	27	P		23	14.01	60	474.2362	14
38	5	P		8	14.01	49	474.2362	14
31	3	P		8	14.01		474.2362	14
31	37	P		7	14.01		474.2362	14
33	2	P		8	14.01		474.2362	14
33	20	P		2	14.01		474.2362	14
33	32	P		11	14.01		474.2362	14
33	45	P		81	14.01		474.2362	14
33	49	P		8	14.01		474.2362	14
34	22	P		5	14.01		474.2362	14
37	22	P		2	14.01		474.2362	14
37	44	P		2	14.01		474.2362	14
38	19	P		11	14.01		474.2362	14
38	25	P		12	14.01		474.2362	14
1	8	O		9	13.69427		563.5706	14
2	18	O		17	13.69427		563.5706	14
2	24	O		13	13.69427		563.5706	14
3	31	O		42	13.69427		563.5706	14
4	33	O		24	13.69427		563.5706	14
5	18	O		23	13.69427		563.5706	14
7	28	O		40	13.69427		563.5706	14
8	9	O		93	13.69427		563.5706	14
15	35	O		1	13.69427		563.5706	14
28	46	O		14	13.69427		563.5706	14
31	16	P		4	13.69		448.2923	14
31	36	P		6	13.69		448.2923	14
33	28	P		2	13.69		448.2923	14
33	29	P		3	13.69		448.2923	14
34	5	P		12	13.69		448.2923	14
34	38	P		6	13.69		448.2923	14
35	3	B		6	13.69		563.1346	14
35	6	B		7	13.69		563.1346	14
36	5	B		6	13.69	double	563.1346	14
36	22	B		9	13.69	double	563.1346	14
37	32	P		7	13.69		448.2923	14
38	18	P		13	13.69		448.2923	14
38	29	P		4	13.69		448.2923	14
38	55	P		15	13.69		448.2923	14
39	21	H		9	13.69		563.1346	14
31	26	P		4	13.38	59	423.9753	14
37	10	P		6	13.38	52	423.9753	14
34	25	P		13	13.38	47	423.9753	14
35	5	B		12	13.38	43	531.9955	14
33	18	P		2	13.38		423.9753	14
33	33	P		4	13.38		423.9753	14
33	47	P		7	13.38		423.9753	14
34	11	P		7	13.38		423.9753	14
35	2	B		10	13.38		531.9955	14
35	16	B		12	13.38		531.9955	14
38	2	P		6	13.38		423.9753	14
38	31	P		7	13.38		423.9753	14
4	32	O		11	13.3758		531.5805	14
4	34	O		13	13.3758		531.5805	14
6	22	O		38	13.3758		531.5805	14
8	19	O		29	13.3758		531.5805	14
10	53	O		3	13.3758		531.5805	14
15	22	O		6	13.3758		531.5805	14
18	29	O		13	13.3758		531.5805	14
22	2			60	13.3758		531.5805	14
25	69	O		8	13.3758		531.5805	14
32	29	P		90	13.3758		423.651	14
32	42	P		6	13.3758		423.651	14
31	2	P		16	13.06		399.7078	14
31	49	P		8	13.06		399.7078	14
33	46	P		7	13.06		399.7078	14
35	4	B		6	13.06		500.9554	14
35	15	B		10	13.06		500.9554	14
39	32	H		31	13.06		500.9554	14
1	11	O		16	13.05732		500.7006	14
2	8	O		46	13.05732		500.7006	14
2	10	O		7	13.05732		500.7006	14
2	31	O		9	13.05732		500.7006	14
2	43	O		28	13.05732		500.7006	14
9	41	O		3	13.05732		500.7006	14
13	31	O		32	13.05732		500.7006	14
13	33	O		5	13.05732		500.7006	14
13	34	O		31	13.05732		500.7006	14
13	50	O		6	13.05732		500.7006	14
17	13	O		4	13.05732		500.7006	14
18	18	O		23	13.05732		500.7006	14
22	6			6	13.05732		500.7006	14
27	75	O		8	13.05732		500.7006	14
32	31	P		12	13.05732		399.5084	14
32	32	P		3	13.05732		399.5084	14
32	35	P		5	13.05732		399.5084	14
33	1	P			12.74	52	376.2786	14
33	36	P		2	12.74	46	376.2786	14
33	51	P		7	12.74		376.2786	14
35	19	B		8	12.74		471.0234	14
37	28	P		7	12.74		376.2786	14
37	48	P		2	12.74		376.2786	14
1	14	H		15	12.73885		470.9181	14
3	7	O		12	12.73885		470.9181	14
3	13	O		14	12.73885		470.9181	14
5	1	O	X		12.73885		470.9181	14
8	17	O		12	12.73885		470.9181	14
9	17	O		11	12.73885		470.9181	14
9	29	O		120	12.73885		470.9181	14
13	4	O		19	12.73885		470.9181	14
13	12	O		9	12.73885		470.9181	14
15	38	O		5	12.73885		470.9181	14
16	32	O		7	12.73885		470.9181	14
21	7	O		20	12.73885		470.9181	14

22	4			16	12.73885		470.9181	14
25	68	O		6	12.73885		470.9181	14
25	73	O		6	12.73885		470.9181	14
26	20	O		9	12.73885		470.9181	14
28	5	O		4	12.73885		470.9181	14
32	20	P		4	12.73885		376.1962	14
1	4	O		14	12.42038		442.22	14
1	9	O		9	12.42038		442.22	14
6	13	O		7	12.42038		442.22	14
6	14	O		29	12.42038		442.22	14
7	11	O		90	12.42038		442.22	14
7	30	O		12	12.42038		442.22	14
8	14	O		5	12.42038		442.22	14
8	16	O		17	12.42038		442.22	14
8	21	O		41	12.42038		442.22	14
9	40	O		9	12.42038		442.22	14
14	23	O		7	12.42038		442.22	14
15	5	O		5	12.42038		442.22	14
16	30	O		6	12.42038		442.22	14
17	34	O		13	12.42038		442.22	14
23	94	D		10	12.42038		442.22	14
26	22	O		15	12.42038		442.22	14
27	16	O		6	12.42038		442.22	14
27	26	O		4	12.42038		442.22	14
27	73	O		8	12.42038		442.22	14
27	82	O		4	12.42038		442.22	14
31	15	P		5	12.42	45	353.6789	14
31	45	P		8	12.42		353.6789	14
33	16	P		7	12.42		353.6789	14
33	34	P		4	12.42		353.6789	14
33	35	P		3	12.42		353.6789	14
33	48	P		6	12.42		353.6789	14
35	17	B		9	12.42		442.1862	14
35	23	B		7	12.42		442.1862	14
39	11	H		13	12.42		442.1862	14
2	34	O		6	12.10191		414.593	14
3	30	O		18	12.10191		414.593	14
4	4	O		18	12.10191		414.593	14
8	2	O		45	12.10191		414.593	14
10	7	O		20	12.10191		414.593	14
13	23	O		3	12.10191		414.593	14
17	12	O		31	12.10191		414.593	14
18	1	O	NA		12.10191		414.593	14
20	31	O		6	12.10191		414.593	14
24	26	O		7	12.10191		414.593	14
26	13	O		8	12.10191	Double	414.593	14
26	74	O		20	12.10191		414.593	14
27	71	O		10	12.10191		414.593	14
27	80	O		6	12.10191		414.593	14
32	15	P		5	12.10191		332.0272	14
36	15	B		13	12.1		414.4305	14
39	5	H		14	12.1		414.4305	14
39	19	H		6	12.1		414.4305	14
1	13	H		15	11.78344		388.0239	10
2	15	O		7	11.78344		388.0239	10
2	21	O		26	11.78344		388.0239	10
2	33	O		9	11.78344		388.0239	10
3	43	O		54	11.78344		388.0239	10
4	35	O		12	11.78344		388.0239	10
7	2	O		27	11.78344		388.0239	10
7	19	O		9	11.78344		388.0239	10
8	7	O		14	11.78344		388.0239	10
10	12	O		9	11.78344		388.0239	10
11	7	O		10	11.78344		388.0239	10
12	7	O		9	11.78344		388.0239	10
14	15	O		14	11.78344		388.0239	10
14	16	O		7	11.78344		388.0239	10
16	38	O		20	11.78344		388.0239	10
17	15	O		10	11.78344		388.0239	10
17	19	O		1	11.78344		388.0239	10
19	51	O		8	11.78344		388.0239	10
22	8			4	11.78344		388.0239	10
23	96	O		10	11.78344		388.0239	10
27	78	O		10	11.78344		388.0239	10
31	33	P		1	11.78		310.9311	10
31	46	P		10	11.78		310.9311	10
33	14	P		8	11.78		310.9311	10
33	17	P		4	11.78		310.9311	10
37	36	P		8	11.78		310.9311	10
37	50	P		6	11.78		310.9311	10
37	51	P		6	11.78		310.9311	10
37	52	P		6	11.78		310.9311	10
39	25	H		9	11.78		387.7426	10
1	1	O			11.46497		362.4989	10
2	11	O		19	11.46497		362.4989	10
2	19	O		23	11.46497		362.4989	10
4	3	O	X		11.46497		362.4989	10
4	16	O		9	11.46497		362.4989	10
5	4	O		18	11.46497		362.4989	10
5	17	O		38	11.46497		362.4989	10
7	13	O		27	11.46497		362.4989	10
7	21	O		20	11.46497		362.4989	10
8	5	O		7	11.46497		362.4989	10
8	8	O		7	11.46497		362.4989	10
8	23	O		16	11.46497		362.4989	10
9	14	O		7	11.46497		362.4989	10
9	37	O		18	11.46497		362.4989	10
9	46	O		18	11.46497		362.4989	10
10	9	O		8	11.46497		362.4989	10
10	24	O		12	11.46497		362.4989	10
14	1	O			11.46497		362.4989	10
16	15	O		14	11.46497		362.4989	10
16	23	O		6	11.46497		362.4989	10
18	26	O		5	11.46497		362.4989	10
18	28	O		5	11.46497		362.4989	10
24	10	O		8	11.46497		362.4989	10
25	75	O		6	11.46497		362.4989	10

25	79	O		6	11.46497		362.4989	10
27	76	O		12	11.46497		362.4989	10
27	85	O		6	11.46497		362.4989	10
28	19	O		2	11.46497		362.4989	10
31	1	P			11.46		290.7643	10
33	4	P		6	11.46		290.7643	10
39	3	H		10	11.46		362.1089	10
39	12	H		12	11.46		362.1089	10
35	20	B		11	11.15	49 double	338.2683	10
31	12	P		74	11.15		271.9832	10
31	50	P		2	11.15		271.9832	10
31	51	P		18	11.15		271.9832	10
33	3	P		8	11.15		271.9832	10
33	15	P		7	11.15		271.9832	10
35	8	B		14	11.15		338.2683	10
36	13	B		11	11.15		338.2683	10
39	2	H		6	11.15		338.2683	10
39	17	H		29	11.15		338.2683	10
2	14	O		17	11.1465		338.0045	10
2	29	O		7	11.1465		338.0045	10
2	30	O		12	11.1465		338.0045	10
2	32	O		9	11.1465		338.0045	10
3	5	O		11	11.1465		338.0045	10
3	27	O		20	11.1465		338.0045	10
6	16	O		31	11.1465		338.0045	10
9	15	O		20	11.1465		338.0045	10
10	38	O		4	11.1465		338.0045	10
13	9	O		9	11.1465		338.0045	10
15	46	O		5	11.1465		338.0045	10
15	47	O		4	11.1465		338.0045	10
15	48	O		7	11.1465		338.0045	10
16	21	O		16	11.1465		338.0045	10
17	53	O		1	11.1465		338.0045	10
19	13	O		6	11.1465		338.0045	10
21	5	O		29	11.1465		338.0045	10
25	2	O		8	11.1465		338.0045	10
25	78	O		6	11.1465		338.0045	10
25	83	O		6	11.1465		338.0045	10
26	18	O		20	11.1465		338.0045	10
27	84	O		8	11.1465		338.0045	10
32	17	P		4	11.1465		271.7752	10
31	19	P		1	10.83		253.3666	10
31	48	P		5	10.83		253.3666	10
33	30	P		7	10.83		253.3666	10
35	10	B		9	10.83		314.669	10
36	7	B		9	10.83		314.669	10
37	4	P		14	10.83		253.3666	10
39	22	H		12	10.83		314.669	10
6	18	O		16	10.82803		314.5266	10
11	1	O	X		10.82803		314.5266	10
13	22	O		4	10.82803		314.5266	10
15	39	O		8	10.82803		314.5266	10
17	33	O		13	10.82803		314.5266	10
18	41	O		21	10.82803		314.5266	10
22	9			4	10.82803		314.5266	10
23	85	O		17	10.82803		314.5266	10
23	89	O		9	10.82803		314.5266	10
23	100	O		8	10.82803		314.5266	10
24	11	O		5	10.82803		314.5266	10
25	16	O		48	10.82803		314.5266	10
25	84	O		6	10.82803		314.5266	10
27	19	O		4	10.82803		314.5266	10
27	72	O		6	10.82803		314.5266	10
27	81	O		8	10.82803		314.5266	10
28	11	O		6	10.82803		314.5266	10
28	27	X		28	10.82803		314.5266	10
32	14	P		4	10.82803		253.2541	10
32	52	P		2	10.82803		253.2541	10
31	32	P		1	10.51	43	235.5228	10
31	18	P		2	10.51		235.5228	10
31	34	P		7	10.51		235.5228	10
35	1	B			10.51		292.0818	10
35	12	B		12	10.51		292.0818	10
35	21	B		13	10.51		292.0818	10
35	22	B		14	10.51		292.0818	10
36	2	B		9	10.51		292.0818	10
36	6	B		8	10.51		292.0818	10
36	20	B		12	10.51		292.0818	10
39	1	H	X		10.51		292.0818	10
2	27	O		5	10.50955		292.0511	10
3	1	O	X		10.50955		292.0511	10
5	7	O		7	10.50955		292.0511	10
5	13	O		5	10.50955		292.0511	10
5	14	O		23	10.50955		292.0511	10
6	25	O		10	10.50955		292.0511	10
7	5	O		15	10.50955		292.0511	10
7	29	O		10	10.50955		292.0511	10
9	13	O		31	10.50955		292.0511	10
10	4	O		35	10.50955		292.0511	10
10	8	O		12	10.50955		292.0511	10
10	10	O		15	10.50955		292.0511	10
10	48	O		6	10.50955		292.0511	10
11	9	O		6	10.50955		292.0511	10
11	13	O		8	10.50955		292.0511	10
12	13	O		15	10.50955		292.0511	10
13	10	O		14	10.50955		292.0511	10
13	18	O		27	10.50955		292.0511	10
14	2	O		2	10.50955		292.0511	10
14	22	O		46	10.50955		292.0511	10
16	13	O		7	10.50955		292.0511	10
16	42	O		12	10.50955		292.0511	10
18	27	O		15	10.50955		292.0511	10
21	19	O		17	10.50955		292.0511	10
22	11			8	10.50955		292.0511	10
22	12			5	10.50955		292.0511	10
23	15	O		16	10.50955		292.0511	10
23	93	O		8	10.50955		292.0511	10

25	9	O		8	10.50955		292.0511	10
25	62	O		10	10.50955		292.0511	10
25	74	O		6	10.50955		292.0511	10
25	82	O		6	10.50955		292.0511	10
27	20	O		8	10.50955		292.0511	10
27	67	O		6	10.50955		292.0511	10
28	25	O		2	10.50955		292.0511	10
32	34	P		6	10.50955		235.4985	10
2	22	O		12	10.19108		270.5636	10
2	23	O		9	10.19108		270.5636	10
2	38	O		9	10.19108		270.5636	10
3	34	O		23	10.19108		270.5636	10
6	2	O		7	10.19108		270.5636	10
6	9	O		7	10.19108		270.5636	10
6	17	O		7	10.19108		270.5636	10
7	20	O		7	10.19108		270.5636	10
10	1	O	X		10.19108		270.5636	10
10	47	O		4	10.19108		270.5636	10
10	52	O		9	10.19108		270.5636	10
11	34	O		55	10.19108		270.5636	10
12	1	O	X		10.19108		270.5636	10
13	16	O		23	10.19108		270.5636	10
13	19	O		6	10.19108		270.5636	10
14	14	O		67	10.19108		270.5636	10
15	24	O		3	10.19108		270.5636	10
15	32	O		63	10.19108		270.5636	10
18	13	O		52	10.19108		270.5636	10
18	21	O		25	10.19108		270.5636	10
19	18	O		4	10.19108		270.5636	10
22	45			7	10.19108		270.5636	10
23	41	O		7	10.19108		270.5636	10
23	69	O		9	10.19108		270.5636	10
23	98	O		10	10.19108		270.5636	10
25	76	O		6	10.19108		270.5636	10
25	80	O		6	10.19108		270.5636	10
26	32	O		13	10.19108		270.5636	10
26	66	O		11	10.19108		270.5636	10
26	73	O		7	10.19108		270.5636	10
27	77	O		6	10.19108		270.5636	10
27	79	O		4	10.19108		270.5636	10
27	83	O		10	10.19108		270.5636	10
28	9	O		10	10.19108		270.5636	10
28	22	O		6	10.19108		270.5636	10
28	51	O		6	10.19108		270.5636	10
35	18	B		13	10.19		270.4922	10
37	11	P		9	10.19		218.4419	10
1	7	O		7	9.872611		250.0496	10
2	39	O		7	9.872611		250.0496	10
3	2	O		9	9.872611		250.0496	10
3	21	O		11	9.872611		250.0496	10
4	19	O		30	9.872611		250.0496	10
5	8	O		4	9.872611		250.0496	10
6	23	O		10	9.872611		250.0496	10
7	25	O		15	9.872611		250.0496	10
8	1	O	X		9.872611		250.0496	10
9	39	O		34	9.872611		250.0496	10
11	4	O		36	9.872611		250.0496	10
11	29	O		6	9.872611		250.0496	10
13	7	O		9	9.872611		250.0496	10
13	13	O		6	9.872611		250.0496	10
16	10	O		10	9.872611		250.0496	10
16	14	O		18	9.872611		250.0496	10
18	5	O		16	9.872611		250.0496	10
18	14	O		8	9.872611		250.0496	10
18	25			32	9.872611		250.0496	10
19	39	O		6	9.872611	Double	250.0496	10
19	41	O		4	9.872611		250.0496	10
20	39	O		3	9.872611		250.0496	10
23	6	O		16	9.872611		250.0496	10
25	24	O		54	9.872611		250.0496	10
25	77	O		6	9.872611		250.0496	10
25	81	O		6	9.872611		250.0496	10
26	16	O		24	9.872611		250.0496	10
26	25	O		5	9.872611		250.0496	10
27	70	O		6	9.872611		250.0496	10
28	23	O		6	9.872611		250.0496	10
28	49	O		6	9.872611		250.0496	10
31	7	P		15	9.87		202.1135	10
31	20	P		2	9.87		202.1135	10
35	13	B		7	9.87		249.8854	10
2	44	O		12	9.55414		230.4942	10
3	4	O		10	9.55414		230.4942	10
3	17	O		13	9.55414		230.4942	10
3	24	O		21	9.55414		230.4942	10
3	38	O		9	9.55414		230.4942	10
4	30	O	X		9.55414		230.4942	10
5	6	H		13	9.55414		230.4942	10
6	5	O		24	9.55414		230.4942	10
8	22	O		14	9.55414		230.4942	10
9	7	O		10	9.55414		230.4942	10
11	10	O		13	9.55414		230.4942	10
13	1	O	X		9.55414		230.4942	10
13	6	O		5	9.55414		230.4942	10
13	14	O		6	9.55414		230.4942	10
13	42	O		5	9.55414		230.4942	10
15	40	O		6	9.55414		230.4942	10
16	24	O		21	9.55414		230.4942	10
16	25	O		25	9.55414		230.4942	10
17	32	O		13	9.55414		230.4942	10
17	57	O		14	9.55414		230.4942	10
19	33	O		4	9.55414		230.4942	10
19	50	O		7	9.55414		230.4942	10
22	3			12	9.55414		230.4942	10
23	90	O		8	9.55414		230.4942	10
24	84	O		7	9.55414		230.4942	10
25	41	O		10	9.55414		230.4942	10
26	54	O		8	9.55414		230.4942	10

27	63	O	6	9.55414		230.4942	10
28	57	O	6	9.55414		230.4942	10
28	100	O	2	9.55414		230.4942	10
33	31	P	9	9.55		186.5274	10
36	3	B	11	9.55		230.2463	10
36	19	B	12	9.55		230.2463	10
36	10	B	12	9.24		212.1293	10
2	17	O	23	9.235669		211.8824	10
3	8	O	11	9.235669		211.8824	10
3	11	O	12	9.235669		211.8824	10
3	26	O	15	9.235669		211.8824	10
3	36	O	22	9.235669		211.8824	10
6	6	O	14	9.235669		211.8824	10
6	7	O	13	9.235669		211.8824	10
6	21	O	84	9.235669		211.8824	10
8	3	O	12	9.235669		211.8824	10
8	6	O	19	9.235669		211.8824	10
8	11	O	19	9.235669		211.8824	10
9	45	O	22	9.235669		211.8824	10
10	54	O	15	9.235669		211.8824	10
16	26	O	18	9.235669		211.8824	10
19	23	O	4	9.235669		211.8824	10
19	28	O	4	9.235669	Double	211.8824	10
22	7		24	9.235669		211.8824	10
22	15		6	9.235669		211.8824	10
23	3	O	4	9.235669		211.8824	10
23	10	O	7	9.235669		211.8824	10
23	30	O	9	9.235669		211.8824	10
23	59	O	13	9.235669		211.8824	10
24	31	O	7	9.235669		211.8824	10
24	36	O	8	9.235669		211.8824	10
24	63	O	10	9.235669		211.8824	10
26	5	O	21	9.235669		211.8824	10
27	7	O	6	9.235669		211.8824	10
27	8	O	14	9.235669		211.8824	10
27	13	O	4	9.235669		211.8824	10
27	48	O	4	9.235669		211.8824	10
28	6	O	4	9.235669		211.8824	10
28	21	O	8	9.235669		211.8824	10
28	28	O	6	9.235669		211.8824	10
28	81	O	6	9.235669		211.8824	10
31	6	P	31	8.92	60	157.9705	10
31	31	P	2	8.92		157.9705	10
37	35	P	7	8.92		157.9705	10
2	25	O	7	8.917197		194.1987	10
3	18	O	12	8.917197		194.1987	10
4	31	O	10	8.917197		194.1987	10
4	39	O	8	8.917197		194.1987	10
6	10	O	10	8.917197		194.1987	10
6	12	O	7	8.917197		194.1987	10
7	3	O	10	8.917197		194.1987	10
12	15	O	21	8.917197		194.1987	10
13	48	O	10	8.917197		194.1987	10
19	27	O	4	8.917197	Double	194.1987	10
19	34	O	14	8.917197		194.1987	10
19	46	O	2	8.917197		194.1987	10
21	24	O	46	8.917197		194.1987	10
23	1	O	3	8.917197		194.1987	10
23	5	O	6	8.917197		194.1987	10
24	4	O	4	8.917197		194.1987	10
24	48	O	6	8.917197		194.1987	10
24	83	O	6	8.917197		194.1987	10
26	3	O	7	8.917197		194.1987	10
26	67	O	6	8.917197		194.1987	10
27	11	O	4	8.917197		194.1987	10
27	22	O	4	8.917197		194.1987	10
27	49	O	4	8.917197		194.1987	10
28	35	O	6	8.917197		194.1987	10
28	75	O	6	8.917197		194.1987	10
28	89	O	4	8.917197		194.1987	10
1	6	O	14	8.598726		177.4277	10
3	14	O	7	8.598726		177.4277	10
5	2	O	16	8.598726		177.4277	10
7	27	O	24	8.598726		177.4277	10
8	12	O	7	8.598726		177.4277	10
9	10	O	4	8.598726		177.4277	10
10	50	O	20	8.598726		177.4277	10
12	3	O	12	8.598726		177.4277	10
12	12	O	33	8.598726		177.4277	10
13	2	O	6	8.598726		177.4277	10
13	41	O	6	8.598726		177.4277	10
13	45	O	9	8.598726		177.4277	10
14	6	O	21	8.598726		177.4277	10
16	27	O	25	8.598726		177.4277	10
16	37	O	9	8.598726		177.4277	10
16	39	O	9	8.598726		177.4277	10
16	41	O	9	8.598726		177.4277	10
17	20	O	9	8.598726		177.4277	10
21	12	O	15	8.598726		177.4277	10
21	18	O	34	8.598726		177.4277	10
22	1			8.598726		177.4277	10
22	14		4	8.598726		177.4277	10
23	18	O	6	8.598726		177.4277	10
23	25	O	16	8.598726		177.4277	10
23	36	O	13	8.598726		177.4277	10
23	40	O	5	8.598726		177.4277	10
24	5	O	10	8.598726		177.4277	10
24	13	O	2	8.598726		177.4277	10
25	37	O	6	8.598726		177.4277	10
27	10	O	8	8.598726		177.4277	10
27	29	O	4	8.598726		177.4277	10
27	34	O	6	8.598726		177.4277	10
28	30	O	6	8.598726		177.4277	10
2	9	O	9	8.280255		161.5533	10
7	15	O	16	8.280255		161.5533	10
9	5	O	11	8.280255		161.5533	10
15	18	O	36	8.280255		161.5533	10

15	53	O		31	8.280255		161.5533	10
17	25	O		3	8.280255		161.5533	10
17	37	O		5	8.280255		161.5533	10
18	33	O		8	8.280255		161.5533	10
19	32	D		4	8.280255		161.5533	10
22	22			5	8.280255		161.5533	10
23	31	D		7	8.280255		161.5533	10
23	86	O		8	8.280255		161.5533	10
24	32	D		8	8.280255		161.5533	10
24	69	O		8	8.280255		161.5533	10
25	32	O		6	8.280255		161.5533	10
25	67	O		6	8.280255		161.5533	10
26	1	O		26	8.280255		161.5533	10
26	19	O		18	8.280255		161.5533	10
26	30	O		12	8.280255		161.5533	10
26	42	O		10	8.280255		161.5533	10
26	52	O		8	8.280255		161.5533	10
27	27	O		6	8.280255		161.5533	10
27	36	O		6	8.280255		161.5533	10
27	61	O		12	8.280255		161.5533	10
27	65	O		8	8.280255		161.5533	10
28	8	O		2	8.280255		161.5533	10
28	65	O		50	8.280255		161.5533	10
28	72	O		6	8.280255		161.5533	10
36	4	B		12	8.28		161.5409	10
36	8	B		9	8.28		161.5409	10
36	16	B		14	8.28		161.5409	10
7	22	O		35	7.961783		146.5593	6
13	8	O		9	7.961783		146.5593	6
14	34	O		10	7.961783		146.5593	6
15	12	O		18	7.961783		146.5593	6
15	13	O		13	7.961783		146.5593	6
15	50	O		8	7.961783		146.5593	6
18	6	O		16	7.961783		146.5593	6
18	7	O		16	7.961783		146.5593	6
19	44	O		3	7.961783		146.5593	6
20	46	O		4	7.961783		146.5593	6
20	51	O		2	7.961783		146.5593	6
21	37	O		67	7.961783		146.5593	6
22	5			26	7.961783		146.5593	6
22	36			8	7.961783		146.5593	6
22	53			6	7.961783		146.5593	6
23	11	O		8	7.961783		146.5593	6
23	20	O		7	7.961783		146.5593	6
23	29	O		10	7.961783		146.5593	6
23	33	O		8	7.961783		146.5593	6
23	57	O		7	7.961783		146.5593	6
23	58	O		10	7.961783		146.5593	6
23	64	O		13	7.961783		146.5593	6
23	72	O		34	7.961783		146.5593	6
23	92	O		6	7.961783		146.5593	6
25	5	O		8	7.961783		146.5593	6
25	10	O		10	7.961783		146.5593	6
25	63	O		6	7.961783		146.5593	6
27	23	O		4	7.961783		146.5593	6
27	53	O		6	7.961783		146.5593	6
28	17	O		2	7.961783		146.5593	6
28	43	O		4	7.961783		146.5593	6
28	44	O		8	7.961783		146.5593	6
32	19	P		6	7.961783		119.7851	6
36	14	B		13	7.96	41	146.4778	6
3	6	O		11	7.643312		132.4293	6
3	33	O		10	7.643312		132.4293	6
6	8	O		50	7.643312		132.4293	6
6	11	O		19	7.643312		132.4293	6
6	19	O		29	7.643312		132.4293	6
7	4	O		15	7.643312		132.4293	6
9	6	O		9	7.643312		132.4293	6
10	11	O		15	7.643312		132.4293	6
10	44	O		66	7.643312		132.4293	6
14	41	O		112	7.643312		132.4293	6
15	23	O		6	7.643312		132.4293	6
15	44	O		26	7.643312		132.4293	6
15	55	O		5	7.643312		132.4293	6
16	46	O		12	7.643312		132.4293	6
19	8	O		4	7.643312		132.4293	6
19	21	O		2	7.643312	Double	132.4293	6
19	48	O		10	7.643312		132.4293	6
23	2	O		8	7.643312		132.4293	6
23	8	O		7	7.643312		132.4293	6
23	13	O		7	7.643312		132.4293	6
23	45	O		2	7.643312		132.4293	6
23	60	O		8	7.643312		132.4293	6
23	67	O		9	7.643312		132.4293	6
24	29	O		8	7.643312		132.4293	6
24	41	O		8	7.643312		132.4293	6
24	74	O		8	7.643312		132.4293	6
25	43	O		20	7.643312		132.4293	6
25	48	O		6	7.643312		132.4293	6
25	49	O		6	7.643312		132.4293	6
26	10	O		9	7.643312		132.4293	6
26	14	O		1	7.643312		132.4293	6
26	36	O		5	7.643312		132.4293	6
26	51	O		4	7.643312		132.4293	6
27	21	O		6	7.643312		132.4293	6
28	29	O		6	7.643312		132.4293	6
28	37	O		6	7.643312		132.4293	6
28	55	O		6	7.643312		132.4293	6
6	4	O		7	7.324841		119.1463	6
7	12	O		27	7.324841		119.1463	6
9	1	O	X		7.324841		119.1463	6
10	37	O		160	7.324841		119.1463	6
12	8	O		9	7.324841		119.1463	6
13	3	O		17	7.324841		119.1463	6
13	5	O		6	7.324841		119.1463	6
13	47	O		15	7.324841		119.1463	6
14	7	O		10	7.324841		119.1463	6

14	8 O	8	7.324841	119.1463	6
15	26 O	18	7.324841	119.1463	6
15	37 O	16	7.324841	119.1463	6
15	58 O	4	7.324841	119.1463	6
16	20 O	20	7.324841	119.1463	6
16	29 O	56	7.324841	119.1463	6
17	21 O	4	7.324841	119.1463	6
17	43 O	13	7.324841	119.1463	6
17	67 O	50	7.324841	119.1463	6
20	23 O	10	7.324841	119.1463	6
20	29 O		7.324841	119.1463	6
22	32	5	7.324841	119.1463	6
22	54	3	7.324841	119.1463	6
23	14 O	7	7.324841	119.1463	6
23	23 O	6	7.324841	119.1463	6
23	24 O	6	7.324841	119.1463	6
23	35 O	7	7.324841	119.1463	6
24	59 O	8	7.324841	119.1463	6
25	42 O	6	7.324841	119.1463	6
26	27 O	18	7.324841	119.1463	6
26	34 O	16	7.324841	119.1463	6
26	40 O	17	7.324841	119.1463	6
26	72 O	13	7.324841	119.1463	6
27	14 O	6	7.324841	119.1463	6
27	31 O	6	7.324841	119.1463	6
27	54 O	6	7.324841	119.1463	6
28	3 O	10	7.324841	119.1463	6
28	74 O	4	7.324841	119.1463	6
28	80 O	4	7.324841	119.1463	6
28	88 O	4	7.324841	119.1463	6
28	97 O	4	7.324841	119.1463	6
2	3 O		7.006369	106.6931	6
4	40 O	31	7.006369	106.6931	6
5	3 O	9	7.006369	106.6931	6
10	5 O	15	7.006369	106.6931	6
11	12 O	15	7.006369	106.6931	6
12	2 O	15	7.006369	106.6931	6
13	21 O	23	7.006369	106.6931	6
13	44 O	10	7.006369	106.6931	6
14	4 O	9	7.006369	106.6931	6
17	29 O	2	7.006369	106.6931	6
17	30 O	5	7.006369	106.6931	6
17	49 O	5	7.006369	106.6931	6
19	52 O	9	7.006369	106.6931	6
22	19	6	7.006369	106.6931	6
22	21	6	7.006369	106.6931	6
22	23	8	7.006369	106.6931	6
22	28	4	7.006369	106.6931	6
22	58	6	7.006369	106.6931	6
22	63	12	7.006369	106.6931	6
23	17 O	6	7.006369	106.6931	6
23	38 O	6	7.006369	106.6931	6
23	66 O	8	7.006369	106.6931	6
23	87 O	8	7.006369	106.6931	6
25	18 O	20	7.006369	106.6931	6
26	50 O	32	7.006369	106.6931	6
26	59 O	12	7.006369	106.6931	6
26	70 O	10	7.006369	106.6931	6
27	2 O	8	7.006369	106.6931	6
27	30 O	16	7.006369	106.6931	6
27	32 O	6	7.006369	106.6931	6
28	14 O	4	7.006369	106.6931	6
28	39 O	4	7.006369	106.6931	6
28	40 O	4	7.006369	106.6931	6
28	47 O	2	7.006369	106.6931	6
28	50 O	8	7.006369	106.6931	6
28	53 O	6	7.006369	106.6931	6
28	98 O	4	7.006369	106.6931	6
3	3 O	18	6.687898	95.05196	6
3	35 O	32	6.687898	95.05196	6
8	10 O	79	6.687898	95.05196	6
9	8 O	8	6.687898	95.05196	6
9	9 O	7	6.687898	95.05196	6
11	8 O	11	6.687898	95.05196	6
11	28 O	200	6.687898	95.05196	6
12	14 O	6	6.687898	95.05196	6
13	40 O	63	6.687898	95.05196	6
13	46 O	7	6.687898	95.05196	6
14	33 O	170	6.687898	95.05196	6
15	4 O	3	6.687898	95.05196	6
15	57 O	6	6.687898	95.05196	6
16	33 O	24	6.687898	95.05196	6
16	36 O	35	6.687898	95.05196	6
17	23 O	3	6.687898	95.05196	6
17	44 O	19	6.687898	95.05196	6
18	4 O	16	6.687898	95.05196	6
20	14 O	10	6.687898	95.05196	6
22	20	8	6.687898	95.05196	6
22	59	13	6.687898	95.05196	6
23	9 O	8	6.687898	95.05196	6
23	34 O	8	6.687898	95.05196	6
23	37 O	8	6.687898	95.05196	6
23	43 O	8	6.687898	95.05196	6
23	65 O	8	6.687898	95.05196	6
25	3 O	10	6.687898	95.05196	6
25	44 O	14	6.687898	95.05196	6
25	53 O	6	6.687898	95.05196	6
25	55 O	6	6.687898	95.05196	6
25	56 O	12	6.687898	95.05196	6
25	64 O	4	6.687898	95.05196	6
26	45 O	21	6.687898	95.05196	6
27	28 O	6	6.687898	95.05196	6
27	47 O	4	6.687898	95.05196	6
27	51 O	4	6.687898	95.05196	6
27	56 O	4	6.687898	95.05196	6
28	18 O	2	6.687898	95.05196	6
28	24 O	8	6.687898	95.05196	6

3	37 O	27	6.369427	84.20491	6
5	9 O	22	6.369427	84.20491	6
5	11 O	15	6.369427	84.20491	6
8	4 O	10	6.369427	84.20491	6
10	6 O	10	6.369427	84.20491	6
12	5 O	9	6.369427	84.20491	6
13	43 O	12	6.369427	84.20491	6
15	1 O	8	6.369427	84.20491	6
15	14 O	8	6.369427	84.20491	6
15	54 O	8	6.369427	84.20491	6
17	22 O	6	6.369427	84.20491	6
17	45 O	5	6.369427	84.20491	6
18	16 O	23	6.369427	84.20491	6
18	22 O	8	6.369427	84.20491	6
19	30 O	3	6.369427	84.20491	6
20	15 O	7	6.369427	84.20491	6
20	68 O	6	6.369427	84.20491	6
22	10	6	6.369427	84.20491	6
22	16	4	6.369427	84.20491	6
22	17	5	6.369427	84.20491	6
22	27	5	6.369427	84.20491	6
22	35	4	6.369427	84.20491	6
23	22 O	16	6.369427	84.20491	6
23	80 O	94	6.369427	84.20491	6
24	18 O	10	6.369427	84.20491	6
24	34 O		6.369427	84.20491	6
24	37 O	8	6.369427	84.20491	6
24	72 O	6	6.369427	84.20491	6
24	75 O	8	6.369427	84.20491	6
25	39 O	20	6.369427	84.20491	6
25	45 O	1	6.369427	84.20491	6
25	50 O	6	6.369427	84.20491	6
26	21 O	8	6.369427	84.20491	6
26	43 O	4	6.369427	84.20491	6
26	68 O	8	6.369427	84.20491	6
27	39 O	10	6.369427	84.20491	6
27	41 O	10	6.369427	84.20491	6
28	4 O	4	6.369427	84.20491	6
28	45 O	2	6.369427	84.20491	6
28	58 O	6	6.369427	84.20491	6
28	95 O	6	6.369427	84.20491	6
9	4 O	30	6.050955	74.13342	6
10	13 O	6	6.050955	74.13342	6
11	5 O	13	6.050955	74.13342	6
13	51 O	12	6.050955	74.13342	6
15	41 O	6	6.050955	74.13342	6
16	17 O	10	6.050955	74.13342	6
16	18 O	9	6.050955	74.13342	6
17	39 O	5	6.050955	74.13342	6
18	2 O	18	6.050955	74.13342	6
19	10 O	4	6.050955	74.13342	6
19	11 O	8	6.050955	74.13342	6
19	42 O	6	6.050955	74.13342	6
19	55 O	5	6.050955	74.13342	6
20	11 O	6	6.050955	74.13342	6
20	16 O	6	6.050955	74.13342	6
20	42 O	5	6.050955	74.13342	6
21	15 O	36	6.050955	74.13342	6
22	26	6	6.050955	74.13342	6
22	31	5	6.050955	74.13342	6
22	34	7	6.050955	74.13342	6
22	43	9	6.050955	74.13342	6
22	60	6	6.050955	74.13342	6
22	65	7	6.050955	74.13342	6
22	69	10	6.050955	74.13342	6
23	68 O	8	6.050955	74.13342	6
24	22 O	10	6.050955	74.13342	6
24	23 O	8	6.050955	74.13342	6
24	51 O	10	6.050955	74.13342	6
24	58 O	6	6.050955	74.13342	6
24	67 O	11	6.050955	74.13342	6
25	35 O	8	6.050955	74.13342	6
26	2 O	14	6.050955	74.13342	6
26	39 O	36	6.050955	74.13342	6
27	37 O	6	6.050955	74.13342	6
28	13 O	1	6.050955	74.13342	6
28	33 O	6	6.050955	74.13342	6
28	90 O	2	6.050955	74.13342	6
28	101 O	2	6.050955	74.13342	6
3	15 O	10	5.732484	64.81846	6
3	28 O	30	5.732484	64.81846	6
7	23 O	24	5.732484	64.81846	6
8	20 O	17	5.732484	64.81846	6
15	49 O	8	5.732484	64.81846	6
15	56 O	4	5.732484	64.81846	6
17	16 O	3	5.732484	64.81846	6
17	24 O	6	5.732484	64.81846	6
17	26 O	9	5.732484	64.81846	6
17	38 O	5	5.732484	64.81846	6
17	74 O	50	5.732484	64.81846	6
19	26 O	12	5.732484	64.81846	6
19	49 O	8	5.732484	64.81846	6
19	57 O	7	5.732484	64.81846	6
22	18	3	5.732484	64.81846	6
22	39	13	5.732484	64.81846	6
22	40	6	5.732484	64.81846	6
22	44	13	5.732484	64.81846	6
22	55	7	5.732484	64.81846	6
23	7 O	8	5.732484	64.81846	6
23	12 O	7	5.732484	64.81846	6
23	95 O	8	5.732484	64.81846	6
24	9 O	7	5.732484	64.81846	6
24	28 O		5.732484	64.81846	6
24	71 O	6	5.732484	64.81846	6
24	77 O	4	5.732484	64.81846	6
24	80 O	6	5.732484	64.81846	6
24	81 O	10	5.732484	64.81846	6

25	4	O		6	5.732484	64.81846	6
25	47	O		12	5.732484	64.81846	6
25	51	O		6	5.732484	64.81846	6
25	61	O		6	5.732484	64.81846	6
26	7	O		7	5.732484	64.81846	6
26	23	O		6	5.732484	64.81846	6
26	26	O		12	5.732484	64.81846	6
26	41	O		4	5.732484	64.81846	6
26	47	O		23	5.732484	64.81846	6
26	56	O		8	5.732484	64.81846	6
26	69	O		9	5.732484	64.81846	6
26	71	O		8	5.732484	64.81846	6
27	18	O		6	5.732484	64.81846	6
27	45	O		2	5.732484	64.81846	6
27	55	O		12	5.732484	64.81846	6
27	59	O		4	5.732484	64.81846	6
28	1	O	X		5.732484	64.81846	6
28	20	O		4	5.732484	64.81846	6
28	41	O		6	5.732484	64.81846	6
28	42	O		4	5.732484	64.81846	6
28	56	O		3	5.732484	64.81846	6
28	60	O		10	5.732484	64.81846	6
28	67	O		6	5.732484	64.81846	6
28	82	O		2	5.732484	64.81846	6
28	87	O		6	5.732484	64.81846	6
24	40	O		8	5.555556	59.96322	6
3	16	O		10	5.414013	56.24052	6
3	39	O		10	5.414013	56.24052	6
6	3	O		7	5.414013	56.24052	6
10	51	O		13	5.414013	56.24052	6
11	6	O		11	5.414013	56.24052	6
12	4	O		8	5.414013	56.24052	6
14	3	O		7	5.414013	56.24052	6
16	16	O		26	5.414013	56.24052	6
17	35	O		5	5.414013	56.24052	6
19	6	O		6	5.414013	56.24052	6
19	20	O		4	5.414013	56.24052	6
19	35	O		12	5.414013	56.24052	6
19	40	O		8	5.414013	56.24052	6
19	47	O		8	5.414013	56.24052	6
20	38	O			5.414013	56.24052	6
20	44	O		6	5.414013	56.24052	6
20	67	O		7	5.414013	56.24052	6
22	13			4	5.414013	56.24052	6
22	38			8	5.414013	56.24052	6
22	42			5	5.414013	56.24052	6
22	47			6	5.414013	56.24052	6
22	52			4	5.414013	56.24052	6
22	64			10	5.414013	56.24052	6
24	3	O		6	5.414013	56.24052	6
24	15	O		10	5.414013	56.24052	6
24	73	O		6	5.414013	56.24052	6
25	29	O		54	5.414013	56.24052	6
25	38	O		17	5.414013	56.24052	6
25	46	O		6	5.414013	56.24052	6
25	52	O		4	5.414013	56.24052	6
25	65	O		4	5.414013	56.24052	6
26	35	O		6	5.414013	56.24052	6
26	64	O		16	5.414013	56.24052	6
27	1	O	X		5.414013	56.24052	6
27	15	O		8	5.414013	56.24052	6
27	62	O		2	5.414013	56.24052	6
28	34	O		4	5.414013	56.24052	6
28	38	O		4	5.414013	56.24052	6
28	59	O		4	5.414013	56.24052	6
28	70	O		6	5.414013	56.24052	6
28	79	O		2	5.414013	56.24052	6
28	94	O		2	5.414013	56.24052	6
4	15	O		32	5.095541	48.3795	6
4	36	O		18	5.095541	48.3795	6
8	15	O		24	5.095541	48.3795	6
15	36	O		34	5.095541	48.3795	6
16	6	O		8	5.095541	48.3795	6
17	17	O		2	5.095541	48.3795	6
17	27	O		6	5.095541	48.3795	6
18	39	O		54	5.095541	48.3795	6
19	1	O		14	5.095541	48.3795	6
19	4	O		6	5.095541	48.3795	6
19	56	O		7	5.095541	48.3795	6
20	65	O		6	5.095541	48.3795	6
21	32	O		123	5.095541	48.3795	6
22	48			23	5.095541	48.3795	6
22	61			7	5.095541	48.3795	6
22	67			8	5.095541	48.3795	6
23	4	O		1	5.095541	48.3795	6
23	62	O		18	5.095541	48.3795	6
23	97	O		8	5.095541	48.3795	6
24	2	O		14	5.095541	48.3795	6
24	12	O		10	5.095541	48.3795	6
24	52	O		10	5.095541	48.3795	6
24	57	O		6	5.095541	48.3795	6
25	40	O		6	5.095541	48.3795	6
25	54	O		6	5.095541	48.3795	6
25	59	O		8	5.095541	48.3795	6
26	61	O		8	5.095541	48.3795	6
27	6	O		30	5.095541	48.3795	6
27	35	O		8	5.095541	48.3795	6
27	52	O		8	5.095541	48.3795	6
27	66	O		4	5.095541	48.3795	6
28	12	O		2	5.095541	48.3795	6
28	32	O		16	5.095541	48.3795	6
28	36	O		12	5.095541	48.3795	6
28	54	O		8	5.095541	48.3795	6
28	66	O		6	5.095541	48.3795	6
28	68	O		4	5.095541	48.3795	6
28	83	O		4	5.095541	48.3795	6
28	86	O		2	5.095541	48.3795	6

28	99	O		6	5.095541		48.3795	6
5	10	O		5	4.77707		41.21469	6
6	20	O		21	4.77707		41.21469	6
11	14	O		6	4.77707		41.21469	6
17	68	O		6	4.77707		41.21469	6
19	5	O		12	4.77707		41.21469	6
19	53	O		6	4.77707		41.21469	6
20	17	O		6	4.77707		41.21469	6
20	19	O		11	4.77707		41.21469	6
20	22	O		6	4.77707		41.21469	6
20	36	O			4.77707		41.21469	6
20	61	O		3	4.77707		41.21469	6
22	33			6	4.77707		41.21469	6
22	49			10	4.77707		41.21469	6
22	50			7	4.77707		41.21469	6
22	51			4	4.77707		41.21469	6
22	68			11	4.77707		41.21469	6
24	24	X		20	4.77707		41.21469	6
24	25	O			4.77707		41.21469	6
24	49	O		8	4.77707		41.21469	6
24	64	O		6	4.77707		41.21469	6
24	79	O		2	4.77707		41.21469	6
24	82	O		6	4.77707		41.21469	6
25	8	O		24	4.77707		41.21469	6
25	33	O		4	4.77707		41.21469	6
26	6	O		12	4.77707		41.21469	6
26	11	O		1	4.77707		41.21469	6
26	24	O		1	4.77707		41.21469	6
27	50	O		6	4.77707		41.21469	6
28	10	O		2	4.77707		41.21469	6
28	93	O		4	4.77707		41.21469	6
2	37	O		18	4.458599		34.72469	6
6	1	O	X		4.458599		34.72469	6
8	18	O		14	4.458599		34.72469	6
10	45	O		4	4.458599		34.72469	6
15	7	O		13	4.458599		34.72469	6
15	10	O		31	4.458599		34.72469	6
16	12	O		20	4.458599		34.72469	6
17	69	O		19	4.458599		34.72469	6
19	22	O		1	4.458599		34.72469	6
19	24	O		18	4.458599		34.72469	6
20	56	O		1	4.458599		34.72469	6
20	57	O		4	4.458599		34.72469	6
20	69	O		16	4.458599		34.72469	6
22	24			5	4.458599		34.72469	6
22	62			4	4.458599		34.72469	6
23	19	O		13	4.458599		34.72469	6
23	42	O		5	4.458599		34.72469	6
24	44	O		12	4.458599		34.72469	6
25	34	O		6	4.458599		34.72469	6
26	33	O		7	4.458599		34.72469	6
26	60	O		5	4.458599		34.72469	6
27	33	O		6	4.458599		34.72469	6
15	6	O		6	4.140127		28.88735	6
16	3	O		6	4.140127		28.88735	6
16	5	O		9	4.140127		28.88735	6
16	11	O		13	4.140127		28.88735	6
17	42	O		42	4.140127		28.88735	6
19	9	O		10	4.140127		28.88735	6
19	36	O		10	4.140127		28.88735	6
20	6	O			4.140127		28.88735	6
20	13	O		5	4.140127		28.88735	6
20	48	O		0.5	4.140127		28.88735	6
20	70	O		9	4.140127		28.88735	6
23	46	O		13	4.140127		28.88735	6
23	99	O		9	4.140127		28.88735	6
24	1	O			4.140127		28.88735	6
24	35	O		10	4.140127		28.88735	6
24	42	X		17	4.140127		28.88735	6
24	43	O			4.140127		28.88735	6
24	76	O		4	4.140127		28.88735	6
25	60	O		6	4.140127		28.88735	6
26	28	O		13	4.140127		28.88735	6
26	55	O		12	4.140127		28.88735	6
26	62	O		11	4.140127		28.88735	6
27	60	O		4	4.140127		28.88735	6
27	68	O		8	4.140127		28.88735	6
28	16	O		6	4.140127		28.88735	6
28	96	O		2	4.140127		28.88735	6
2	28	O		6	3.821656		23.67969	2
13	11	O		47	3.821656		23.67969	2
15	3	O		3	3.821656		23.67969	2
16	2	O		12	3.821656		23.67969	2
16	8	O		20	3.821656		23.67969	2
16	9	O		4	3.821656		23.67969	2
16	19	O		8	3.821656		23.67969	2
17	48	O		6	3.821656		23.67969	2
19	7	O		8	3.821656		23.67969	2
19	16	O		18	3.821656		23.67969	2
19	17	O		5	3.821656	Double	23.67969	2
20	32	O		2	3.821656		23.67969	2
20	54	O		6	3.821656		23.67969	2
20	64	O		7	3.821656		23.67969	2
23	16	O		8	3.821656		23.67969	2
23	91	O		9	3.821656		23.67969	2
24	6	O		6	3.821656		23.67969	2
24	16	O		10	3.821656		23.67969	2
25	30	O		4	3.821656		23.67969	2
26	29	O		11	3.821656		23.67969	2
26	57	O		4	3.821656		23.67969	2
26	63	O		7	3.821656		23.67969	2
27	24	O		4	3.821656		23.67969	2
28	48	O		6	3.821656		23.67969	2
28	52	O		6	3.821656		23.67969	2
28	84	O		2	3.821656		23.67969	2
28	92	O		4	3.821656		23.67969	2
6	24	O		50	3.503185		19.07779	2

15	21	O	26	3.503185	19.07779	2
16	40	O	6	3.503185	19.07779	2
17	62	O	6	3.503185	19.07779	2
19	19	O	4	3.503185	19.07779	2
20	10	O	6	3.503185	19.07779	2
20	20	O	6	3.503185	19.07779	2
20	45	O	3	3.503185	19.07779	2
20	58	O	5	3.503185	19.07779	2
20	62	O	4	3.503185	19.07779	2
22	57		4	3.503185	19.07779	2
23	63	O	9	3.503185	19.07779	2
24	8	X	16	3.503185	19.07779	2
24	55	O	8	3.503185	19.07779	2
24	62	O	8	3.503185	19.07779	2
26	17	O	7	3.503185	19.07779	2
26	31	O	7	3.503185	19.07779	2
27	64	O	10	3.503185	19.07779	2
28	78	O	2	3.503185	19.07779	2
28	85	O	2	3.503185	19.07779	2
28	91	O	2	3.503185	19.07779	2
28	102	O	2	3.503185	19.07779	2
2	26	O	7	3.184713	15.05669	2
3	41	O	15	3.184713	15.05669	2
5	12	O	15	3.184713	15.05669	2
16	4	O	7	3.184713	15.05669	2
17	36	O	5	3.184713	15.05669	2
17	46	O	12	3.184713	15.05669	2
17	58	O	4	3.184713	15.05669	2
17	59	O	6	3.184713	15.05669	2
19	25	O	8	3.184713	15.05669	2
19	29	O	10	3.184713	15.05669	2
19	45	O	2	3.184713	15.05669	2
19	54	O	4	3.184713	15.05669	2
20	7	O	5	3.184713	15.05669	2
20	12	O	8	3.184713	15.05669	2
20	40	O	1	3.184713	15.05669	2
20	59	O	6	3.184713	15.05669	2
22	25		6	3.184713	15.05669	2
22	41		7	3.184713	15.05669	2
22	46		4	3.184713	15.05669	2
22	56		2	3.184713	15.05669	2
22	66		3	3.184713	15.05669	2
23	44	O	5	3.184713	15.05669	2
23	56	O	1	3.184713	15.05669	2
24	47	X		3.184713	15.05669	2
24	68	O	8	3.184713	15.05669	2
24	78	O	4	3.184713	15.05669	2
26	12	O	6	3.184713	15.05669	2
27	46	O	6	3.184713	15.05669	2
27	69	O	6	3.184713	15.05669	2
28	73	O	10	3.184713	15.05669	2
6	15	O	31	2.866242	11.59019	2
15	2	O	16	2.866242	11.59019	2
17	55	O	6	2.866242	11.59019	2
17	61	O	9	2.866242	11.59019	2
22	37		9	2.866242	11.59019	2
24	7	O	6	2.866242	11.59019	2
24	39	O		2.866242	11.59019	2
24	50	O	8	2.866242	11.59019	2
24	56	O	7	2.866242	11.59019	2
27	12	O	6	2.866242	11.59019	2
27	17	O	6	2.866242	11.59019	2
13	32	O	10	2.547771	8.650743	2
15	33	O	1	2.547771	8.650743	2
15	34	O	10	2.547771	8.650743	2
16	22	O	5	2.547771	8.650743	2
16	31	O	12	2.547771	8.650743	2
17	28	O	2	2.547771	8.650743	2
17	51	O	26	2.547771	8.650743	2
19	31	O	4	2.547771	8.650743	2
19	38	O	16	2.547771	8.650743	2
20	9	O	6	2.547771	8.650743	2
20	55	O	3	2.547771	8.650743	2
20	60	O	3	2.547771	8.650743	2
20	63	O	5	2.547771	8.650743	2
20	66	O	5	2.547771	8.650743	2
23	28	O	27	2.547771	8.650743	2
26	58	O	10	2.547771	8.650743	2
26	65	O	10	2.547771	8.650743	2
27	25	O	14	2.547771	8.650743	2
28	71	O	4	2.547771	8.650743	2
28	76	O	6	2.547771	8.650743	2
3	40	O	16	2.229299	6.209125	2
15	45	O	9	2.229299	6.209125	2
17	54	O	2	2.229299	6.209125	2
19	3	O	18	2.229299	6.209125	2
19	12	O	8	2.229299	6.209125	2
19	14	O	5	2.229299	6.209125	2
20	8	O	6	2.229299	6.209125	2
20	21	O	6	2.229299	6.209125	2
20	49	O	5	2.229299	6.209125	2
22	30		4	2.229299	6.209125	2
24	14	O	7	2.229299	6.209125	2
24	30	O	8	2.229299	6.209125	2
24	54	O	6	2.229299	6.209125	2
24	70	O	14	2.229299	6.209125	2
25	66	O	2	2.229299	6.209125	2
27	43	O	6	2.229299	6.209125	2
27	74	O	10	2.229299	6.209125	2
28	7	O	2	2.229299	6.209125	2
28	15	O	2	2.229299	6.209125	2
9	2	O	5	1.910828	4.234168	2
17	60	O	5	1.910828	4.234168	2
19	43	O	6	1.910828	4.234168	2
20	18	O	6	1.910828	4.234168	2
20	41	O	7	1.910828	4.234168	2
20	47	O	1	1.910828	4.234168	2

20	48 O	5	1.910828	4.234168	2
20	53 O	4	1.910828	4.234168	2
23	32 O	6	1.910828	4.234168	2
27	42 O	4	1.910828	4.234168	2
17	14 O	9	1.592357	2.692288	2
17	52 O	9	1.592357	2.692288	2
20	52 O	3	1.592357	2.692288	2
22	29	3	1.592357	2.692288	2
23	39 O	5	1.592357	2.692288	2
28	69 O	6	1.592357	2.692288	2
17	18 O	13	1.273885	1.54684	2
20	50 O	1	0.955414	0.757112	2

Row #	Tree #	Species Code	Spacing Between (Nearest Foot)	DBH	Height	Notes	Kg biomass ABG
1	1	O		11.46			362
1	2	O	7	23.57			2170
1	4	O	14	12.42			442
1	6	O	14	8.60			177
1	7	O	7	9.87			250
1	8	O	9	13.69			564
1	9	O	9	12.42			442
1	11	O	16	13.06			501
1	13	H	15	11.78			388
1	14	H	15	12.74			471
1	15	H	7	14.97			703
2	3	O		7.01			107
2	8	O	46	13.06			501
2	9	O	9	8.28			162
2	10	O	7	13.06			501
2	11	O	19	11.46			362
2	14	O	17	11.15			338
2	15	O	7	11.78			388
2	17	O	23	9.24			212
2	18	O	17	13.69			564
2	19	O	23	11.46			362
2	21	O	26	11.78			388
2	22	O	12	10.19			271
2	23	O	9	10.19			271
2	24	O	13	13.69			564
2	25	O	7	8.92			194
2	26	O	7	3.18			15
2	27	O	5	10.51			292
2	28	O	6	3.82			24
2	29	O	7	11.15			338
2	30	O	12	11.15			338
2	31	O	9	13.06			501
2	32	O	9	11.15			338
2	33	O	9	11.78			388
2	34	O	6	12.10			415
2	37	O	18	4.46			35
2	38	O	9	10.19			271
2	39	O	7	9.87			250
2	43	O	28	13.06			501
2	44	O	12	9.55			230
3	1	O	X	10.51			292
3	2	O	9	9.87			250
3	3	O	18	6.69			95
3	4	O	10	9.55			230
3	5	O	11	11.15			338
3	6	O	11	7.64			132
3	7	O	12	12.74			471
3	8	O	11	9.24			212
3	11	O	12	9.24			212
3	13	O	14	12.74			471
3	14	O	7	8.60			177
3	15	O	10	5.73			65
3	16	O	10	5.41			56
3	17	O	13	9.55			230
3	18	O	12	8.92			194
3	20	O	10	15.92			820
3	21	O	11	9.87			250
3	24	O	21	9.55			230
3	25	O	22	14.65			666
3	26	O	15	9.24			212
3	27	O	20	11.15			338
3	28	O	30	5.73			65
3	29	O	15	15.61			780

Row #	Tree #	Species Code	DBH	Height	Notes
36	14	B	7.96	41	
31	6	P	8.92	60	
31	32	P	10.51	43	
35	20	B	11.15	49	double
31	15	P	12.42	45	
33	36	P	12.74	46	
33	1	P	12.74	52	
35	5	B	13.38	43	
34	25	P	13.38	47	
37	10	P	13.38	52	
31	26	P	13.38	59	
38	5	P	14.01	49	
37	27	P	14.01	60	
36	1	B	14.33	42	double
39	4	H	15.61	46	
37	1	P	15.61	49	
33	13	P	15.92	48	
39	23	H	15.92	49	
38	24	P	15.92	53	
37	41	P	16.24	54	
38	56	P	16.56	57	
38	43	P	17.20	49	
34	9	P	17.83	62	
33	25	P	18.15	54	
34	37	P	18.15	61	
Average HT				50.8	

m	b	0.90	38.06	DBH	HT Est
se m	se b	0.45	6.45	8	45.2
r^2	se v	0.15	5.92	9	46.1
F	df	4.03	23.00	10	47.0
ss reg	ss resid	141.19	804.81	11	47.9
				12	48.8
				13	49.7
				14	50.6
				15	51.5
				16	52.4
				17	53.3
				18	54.2
				19	55.1
				20	56.0
				21	56.9
				22	57.8
				23	58.7
				24	59.6

Row	Kg Biomass, ABG	Count, trees	Avg DBH	Avg Spaci	Count trees for th	Avg D	Avg spacing for this row and above
1	6470.548182	11	13.1	11.3			
2	9117.698389	29	10.3	13.5			
3	10483.53962	37	9.6	17.6			
4	7203.502191	18	11.3	21.1			
5	3624.985609	15	9.1	15.2			
6	6022.492782	26	8.9	21.6			
7	8320.060326	23	11.0	25.0			
8	7692.686127	23	10.4	25.8			
9	10576.80811	27	11.0	22.9			
10	6768.27085	25	9.7	23.1			
11	3387.127513	15	8.9	35.8			
12	2591.961604	12	8.8	13.5			
13	11437.99886	39	9.8	14.8			
14	3388.126791	15	9.1	35.0	315	10.1	21.2
15	6497.025496	40	7.4	12.4			
16	6652.815582	39	7.5	14.6			
17	6303.424992	50	6.3	10.2			
18	7743.204261	24	10.3	18.3			
19	9710.95814	57	6.7	7.3			
20	4369.519909	57	4.7	5.5			
21	5938.314761	12	11.4	47.0			
22	7876.32404	69	6.5	8.1			
23	10898.94921	74	7.4	10.1			
24	7212.583037	72	6.0	8.1			
25	16013.92785	67	8.7	9.8			
26	8694.305117	64	7.0	11.2			
27	17708.80798	81	8.2	7.4			
28	12791.31588	95	6.8	5.6	801	7.5	12.5
31	17549.282	41	13.2	13.5			
32	23480.44904	39	15.1	15.7			
33	18483.44667	39	13.8	9.2			
34	16236.07551	26	15.6	14.0			
35	11973.87028	23	12.9	10.7			
36	10767.73326	22	12.2	10.4			
37	18994.179	36	14.4	6.5			
38	26069.88016	41	15.7	14.1			

3	30	O	18	12.10			415
3	31	O	42	13.69			564
3	32	O	8	14.33			631
3	33	O	10	7.64			132
3	34	O	23	10.19			271
3	35	O	32	6.69			95
3	36	O	22	9.24			212
3	37	O	27	6.37			84
3	38	O	9	9.55			230
3	39	O	10	5.41			56
3	40	O	16	2.23			6
3	41	O	15	3.18			15
3	42	O	43	14.01			597
3	43	O	54	11.78			388
4	3	O	X	11.46			362
4	4	O	18	12.10			415
4	11	O	43	16.56			903
4	12	O	18	14.65			666
4	15	O	32	5.10			48
4	16	O	9	11.46			362
4	17	O	24	14.65			666
4	19	O	30	9.87			250
4	30	O	X	9.55			230
4	31	O	10	8.92			194
4	32	O	11	13.38			532
4	33	O	24	13.69			564
4	34	O	13	13.38			532
4	35	O	12	11.78			388
4	36	O	18	5.10			48
4	37	O	36	15.29			741
4	39	O	8	8.92			194
4	40	O	31	7.01			107
5	1	O	X	12.74			471
5	2	O	16	8.60			177
5	3	O	9	7.01			107
5	4	O	18	11.46			362
5	6	H	13	9.55			230
5	7	O	7	10.51			292
5	8	O	4	9.87			250
5	9	O	22	6.37			84
5	10	O	5	4.76			41
5	11	O	15	6.37			84
5	12	O	15	3.18			15
5	13	O	5	10.51			292
5	14	O	23	10.51			292
5	17	O	38	11.46			362
5	18	O	23	13.69			564
6	1	O	X	4.46			35
6	2	O	7	10.19			271
6	3	O	7	5.41			56
6	4	O	7	7.32			119
6	5	O	24	9.55			230
6	6	O	14	9.24			212
6	7	O	13	9.24			212
6	8	O	50	7.64			132
6	9	O	7	10.19			271
6	10	O	10	8.92			194
6	11	O	19	7.64			132
6	12	O	7	8.92			194
6	13	O	7	12.42			442
6	14	O	29	12.42			442
6	15	O	31	2.87			12
6	16	O	31	11.15			338
6	17	O	7	10.19			271
6	18	O	16	10.83			315
6	19	O	29	7.64			132

	39	10007.52531	19	13.1	14.9	286	14.0	12.1		
Total		379059.7244	1402		15.7	1402				
Row	Kg biomass ABG/row	tC/row	tC/area	Acres	tC ABG live/ac	TPA				
1	6,471	3.24								
2	9,118	4.56								
3	10,484	5.24								
4	7,204	3.60								
5	3,625	1.81								
6	6,022	3.01								
7	8,320	4.16								
8	7,693	3.85								
9	10,577	5.29								
10	6,768	3.38								
11	3,387	1.69								
12	2,592	1.30								
13	11,438	5.72								
14	3,388	1.69	49	3.27	14.9	96				
15	6,497	3.25								
16	6,653	3.33								
17	6,303	3.15								
18	7,743	3.87								
19	9,711	4.86								
20	4,370	2.18								
21	5,938	2.97								
22	7,876	3.94								
23	10,899	5.45								
24	7,213	3.61								
25	16,014	8.01								
26	8,694	4.35								
27	17,709	8.85								
28	12,791	6.40	64							
31	17,549	8.77								
32	23,480	11.74								
33	18,483	9.24								
34	16,236	8.12								
35	11,974	5.99								
36	10,768	5.38								
37	18,994	9.50								
38	26,070	13.03								
39	10,008	5.00	77							
Total	379,060	189.53	190	8.83	21.5	159				
Check Total	379,060		tC/area	Acres	tC ABG live/ac	TPA	Belowgrou	Live tree tCO2/ac	Above and belowground	
Rows 1-20		69.18	69	3.27	21.2	178	0.2	**93.1**		
GTR NE-343, Table B10, live tree, age 25					13.6		0.2	59.8		
				Note: acres subject to re-mapping						
GTR NE-343, Table B10, age 25				Other nonsoil carbon	4.6			16.9		
								109.9	Total sequestration per acre, at age 25	

	DBH, in	Bark:DBH	Age		Growt Rings/inch
Median, all trees	8.92	0.05	25	0.17	5.9
67th percentile	11.15	0.05	25	0.21	4.7
90th percentile	14.97	0.05	25	0.28	3.5
Largest tree	26.75	0.05	25	0.51	2.0

6	20	O	21	4.78			41
6	21	O	84	9.24			212
6	22	O	38	13.38			532
6	23	O	10	9.87			250
6	24	O	50	3.50			19
6	25	O	10	10.51			292
6	26	O	12	14.65			666
7	1	O	X	14.01			597
7	2	O	27	11.78			388
7	3	O	10	8.92			194
7	4	O	15	7.64			132
7	5	O	15	10.51			292
7	11	O	90	12.42			442
7	12	O	27	7.32			119
7	13	O	27	11.46			362
7	14	O	19	14.65			666
7	15	O	16	8.28			162
7	19	O	9	11.78			388
7	20	O	7	10.19			271
7	21	O	20	11.46			362
7	22	O	35	7.96			147
7	23	O	24	5.73			65
7	24	O	60	14.33			631
7	25	O	15	9.87			250
7	26	O	19	15.61			780
7	27	O	24	8.60			177
7	28	O	40	13.69			564
7	29	O	10	10.51			292
7	30	O	12	12.42			442
7	31	O	29	14.01			597
8	1	O	X	9.87			250
8	2	O	45	12.10			415
8	3	O	12	9.24			212
8	4	O	10	6.37			84
8	5	O	7	11.46			362
8	6	O	19	9.24			212
8	7	O	14	11.78			388
8	8	O	7	11.46			362
8	9	O	93	13.69			564
8	10	O	79	6.69			95
8	11	O	19	9.24			212
8	12	O	7	8.60			177
8	14	O	5	12.42			442
8	15	O	24	5.10			48
8	16	O	17	12.42			442
8	17	O	12	12.74			471
8	18	O	14	4.46			35
8	19	O	29	13.38			532
8	20	O	17	5.73			65
8	21	O	41	12.42			442
8	22	O	14	9.55			230
8	23	O	16	11.46			362
8	24	O	67	19.11			1289
9	1	O	X	7.32			119
9	2	O	5	1.91			4
9	4	O	30	6.05			74
9	5	O	11	8.28			162
9	6	O	9	7.64			132
9	7	O	10	9.55			230
9	8	O	8	6.69			95
9	9	O	7	6.69			95
9	10	O	4	8.60			177
9	11	O	10	15.29			741
9	13	O	31	10.51			292
9	14	O	7	11.46			362
9	15	O	20	11.15			338

9	16	O	12	15.61			780
9	17	O	11	12.74			471
9	29	O	120	12.74			471
9	30	O	25	17.20			992
9	33	O	54	14.33			631
9	36	O	57	14.01			597
9	37	O	18	11.46			362
9	39	O	34	9.87			250
9	40	O	9	12.42			442
9	41	O	3	13.06			501
9	43	O	36	15.61			780
9	44	O	25	16.56			903
9	45	O	22	9.24			212
9	46	O	18	11.46			362
10	1	O	X	10.19			271
10	4	O	35	10.51			292
10	5	O	15	7.01			107
10	6	O	10	6.37			84
10	7	O	20	12.10			415
10	8	O	12	10.51			292
10	9	O	8	11.46			362
10	10	O	15	10.51			292
10	11	O	15	7.64			132
10	12	O	9	11.78			388
10	13	O	6	6.05			74
10	23	O	90	14.33			631
10	24	O	12	11.46			362
10	37	O	160	7.32			119
10	38	O	4	11.15			338
10	44	O	66	7.64			132
10	45	O	4	4.46			35
10	46	O	4	14.33			631
10	47	O	4	10.19			271
10	48	O	6	10.51			292
10	50	O	20	8.60			177
10	51	O	13	5.41			56
10	52	O	9	10.19			271
10	53	O	3	13.38			532
10	54	O	15	9.24			212
11	1	O	X	10.83			315
11	4	O	36	9.87			250
11	5	O	13	6.05			74
11	6	O	11	5.41			56
11	7	O	10	11.78			388
11	8	O	11	6.69			95
11	9	O	6	10.51			292
11	10	O	13	9.55			230
11	12	O	15	7.01			107
11	13	O	8	10.51			292
11	14	O	6	4.78			41
11	17	O	111	14.33			631
11	28	O	200	6.69			95
11	29	O	6	9.87			250
11	34	O	55	10.19			271
12	1	O	X	10.19			271
12	2	O	15	7.01			107
12	3	O	12	8.60			177
12	4	O	8	5.41			56
12	5	O	9	6.37			84
12	6	O	12	14.33			631
12	7	O	9	11.78			388
12	8	O	9	7.32			119
12	12	O	33	8.60			177
12	13	O	15	10.51			292
12	14	O	6	6.69			95
12	15	O	21	8.92			194

13	1	O	X	9.55			230
13	2	O	6	8.60			177
13	3	O	17	7.32			119
13	4	O	19	12.74			471
13	5	O	6	7.32			119
13	6	O	5	9.55			230
13	7	O	9	9.87			250
13	8	O	9	7.96			147
13	9	O	9	11.15			338
13	10	O	14	10.51			292
13	11	O	47	3.82			24
13	12	O	9	12.74			471
13	13	O	6	9.87			250
13	14	O	6	9.55			230
13	16	O	23	10.19			271
13	18	O	27	10.51			292
13	19	O	6	10.19			271
13	20	O	5	15.29			741
13	21	O	23	7.01			107
13	22	O	4	10.83			315
13	23	O	3	12.10			415
13	28	O	48	14.33			631
13	31	O	32	13.06			501
13	32	O	10	2.55			9
13	33	O	5	13.06			501
13	34	O	31	13.06			501
13	40	O	63	6.69			95
13	41	O	6	8.60			177
13	42	O	5	9.55			230
13	43	O	12	6.37			84
13	44	O	10	7.01			107
13	45	O	9	8.60			177
13	46	O	7	6.69			95
13	47	O	15	7.32			119
13	48	O	10	8.92			194
13	49	O	15	17.83			1086
13	50	O	6	13.06			501
13	51	O	12	6.05			74
13	52	O	15	14.01			597
14	1	O		11.46			362
14	2	O	2	10.51			292
14	3	O	7	5.41			56
14	4	O	9	7.01			107
14	6	O	21	8.60			177
14	7	O	10	7.32			119
14	8	O	8	7.32			119
14	14	O	67	10.19			271
14	15	O	14	11.78			388
14	16	O	7	11.78			388
14	22	O	46	10.51			292
14	23	O	7	12.42			442
14	33	O	170	6.69			95
14	34	O	10	7.96			147
14	41	O	112	7.64			132
15	1	O	8	6.37			84
15	2	O	16	2.87			12
15	3	O	3	3.82			24
15	4	O	3	6.69			95
15	5	O	5	12.42			442
15	6	O	6	4.14			29
15	7	O	13	4.46			35
15	10	O	31	4.46			35
15	12	O	18	7.96			147
15	13	O	13	7.96			147
15	14	O	8	6.37			84
15	18	O	36	8.28			162

15	21	O	26	3.50			19
15	22	O	6	13.38			532
15	23	O	6	7.64			132
15	24	O	3	10.19			271
15	26	O	18	7.32			119
15	32	O	63	10.19			271
15	33	O	1	2.55			9
15	34	O	10	2.55			9
15	35	O	1	13.69			564
15	36	O	34	5.10			48
15	37	O	16	7.32			119
15	38	O	5	12.74			471
15	39	O	8	10.83			315
15	40	O	6	9.55			230
15	41	O	6	6.05			74
15	44	O	26	7.64			132
15	45	O	9	2.23			6
15	46	O	5	11.15			338
15	47	O	4	11.15			338
15	48	O	7	11.15			338
15	49	O	8	5.73			65
15	50	O	8	7.96			147
15	53	O	31	8.28			162
15	54	O	8	6.37			84
15	55	O	5	7.64			132
15	56	O	4	5.73			65
15	57	O	6	6.69			95
15	58	O	4	7.32			119
16	1	O		15.29			741
16	2	O	12	3.82			24
16	3	O	6	4.14			29
16	4	O	7	3.18			15
16	5	O	9	4.14			29
16	6	O	8	5.10			48
16	8	O	20	3.82			24
16	9	O	4	3.82			24
16	10	O	10	9.87			250
16	11	O	13	4.14			29
16	12	O	20	4.46			35
16	13	O	7	10.51			292
16	14	O	18	9.87			250
16	15	O	14	11.46			362
16	16	O	26	5.41			56
16	17	O	10	6.05			74
16	18	O	9	6.05			74
16	19	O	8	3.82			24
16	20	O	20	7.32			119
16	21	O	16	11.15			338
16	22	O	5	2.55			9
16	23	O	6	11.46			362
16	24	O	21	9.55			230
16	25	O	25	9.55			230
16	26	O	18	9.24			212
16	27	O	25	8.60			177
16	29	O	56	7.32			119
16	30	O	6	12.42			442
16	31	O	12	2.55			9
16	32	O	7	12.74			471
16	33	O	24	6.69			95
16	36	O	35	6.69			95
16	37	O	9	8.60			177
16	38	O	20	11.78			388
16	39	O	9	8.60			177
16	40	O	6	3.50			19
16	41	O	9	8.60			177
16	42	O	12	10.51			292

16	46	O	12	7.64			132
17	12	O	31	12.10			415
17	13	O	4	13.06			501
17	14	O	9	1.59			3
17	15	O	10	11.78			388
17	16	O	3	5.73			65
17	17	O	2	5.10			48
17	18	O	13	1.27			2
17	19	O	1	11.78			388
17	20	O	9	8.60			177
17	21	O	4	7.32			119
17	22	O	6	6.37			84
17	23	O	3	6.69			95
17	24	O	6	5.73			65
17	25	O	3	8.28			162
17	26	O	9	5.73			65
17	27	O	6	5.10			48
17	28	O	2	2.55			9
17	29	O	2	7.01			107
17	30	O	5	7.01			107
17	32	O	13	9.55			230
17	33	O	13	10.83			315
17	34	O	13	12.42			442
17	35	O	5	5.41			56
17	36	O	5	3.18			15
17	37	O	5	8.28			162
17	38	O	5	5.73			65
17	39	O	5	6.05			74
17	42	O	42	4.14			29
17	43	O	13	7.32			119
17	44	O	19	6.69			95
17	45	O	5	6.37			84
17	46	O	12	3.18			15
17	47	O	2	14.97			703
17	48	O	6	3.82			24
17	49	O	5	7.01			107
17	51	O	26	2.55			9
17	52	O	9	1.59			3
17	53	O	1	11.15			338
17	54	O	2	2.23			6
17	55	O	6	2.87			12
17	57	O	14	9.55			230
17	58	O	4	3.18			15
17	59	O	6	3.18			15
17	60	O	5	1.91			4
17	61	O	9	2.87			12
17	62	O	6	3.50			19
17	67	O	50	7.32			119
17	68	O	6	4.78			41
17	69	O	19	4.46			35
17	74	O	50	5.73			65
18	1	O	NA	12.10			415
18	2	O	18	6.05			74
18	3	O	8	14.65			666
18	4	O	16	6.69			95
18	5	O	16	9.87			250
18	6	O	16	7.96			147
18	7	O	16	7.96			147
18	9	O	16	16.56			903
18	13	O	52	10.19			271
18	14	O	8	9.87			250
18	16	O	23	6.37			84
18	18	O	23	13.06			501
18	19	O	8	14.65			666
18	21	O	25	10.19			271
18	22	O	8	6.37			84

18	25		32	9.87			250
18	26	O	5	11.46			362
18	27	O	15	10.51			292
18	28	O	5	11.46			362
18	29	O	13	13.38			532
18	33	O	8	8.28			162
18	39	O	54	5.10			48
18	40	O	16	14.01			597
18	41	O	21	10.83			315
19	1	O	14	5.10			48
19	2	O	10	15.92		Double	820
19	3	O	18	2.23			6
19	4	O	6	5.10			48
19	5	O	12	4.78			41
19	6	O	6	5.41			56
19	7	O	8	3.82			24
19	8	O	4	7.64			132
19	9	O	10	4.14			29
19	10	O	4	6.05			74
19	11	O	8	6.05			74
19	12	O	8	2.23			6
19	13	O	6	11.15			338
19	14	O	5	2.23			6
19	15	O	4	26.75			2973
19	16	O	18	3.82			24
19	17	O	5	3.82		Double	24
19	18	O	4	10.19			271
19	19	O	4	3.50			19
19	20	O	4	5.41			56
19	21	O	2	7.64		Double	132
19	22	O	1	4.46			35
19	23	O	4	9.24			212
19	24	O	18	4.46			35
19	25	O	8	3.18			15
19	26	O	12	5.73			65
19	27	O	4	8.92		Double	194
19	28	O	4	9.24		Double	212
19	29	O	10	3.18			15
19	30	O	3	6.37			84
19	31	O	4	2.55			9
19	32	O	4	8.28			162
19	33	O	4	9.55			230
19	34	O	14	8.92			194
19	35	O	12	5.41			56
19	36	O	10	4.14			29
19	37	O	14	15.29			741
19	38	O	16	2.55			9
19	39	O	6	9.87		Double	250
19	40	O	8	5.41			56
19	41	O	4	9.87			250
19	42	O	6	6.05			74
19	43	O	6	1.91			4
19	44	O	3	7.96			147
19	45	O	2	3.18			15
19	46	O	2	8.92			194
19	47	O	8	5.41			56
19	48	O	10	7.64			132
19	49	O	8	5.73			65
19	50	O	7	9.55			230
19	51	O	8	11.78			388
19	52	O	9	7.01			107
19	53	O	6	4.78			41
19	54	O	4	3.18			15
19	55	O	5	6.05			74
19	56	O	7	5.10			48
19	57	O	7	5.73			65

20	1	O		18.15			1135
20	6	O		4.14			29
20	7	O	5	3.18			15
20	8	O	6	2.23			6
20	9	O	6	2.55			9
20	10	O	6	3.50			19
20	11	O	6	6.05			74
20	12	O	8	3.18			15
20	13	O	5	4.14			29
20	14	O	10	6.69			95
20	15	O	7	6.37			84
20	16	O	6	6.05			74
20	17	O	6	4.78			41
20	18	O	6	1.91			4
20	19	O	11	4.78			41
20	20	O	6	3.50			19
20	21	O	6	2.23			6
20	22	O	6	4.78			41
20	23	O	10	7.32			119
20	29	O		7.32			119
20	30	O	16	14.01			597
20	31	O	6	12.10			415
20	32	O	2	3.82			24
20	36	O		4.78			41
20	38	O		5.41			56
20	39	O	3	9.87			250
20	40	O	1	3.18			15
20	41	O	7	1.91			4
20	42	O	5	6.05			74
20	43	O	0.5	4.14			29
20	44	O	6	5.41			56
20	45	O	3	3.50			19
20	46	O	4	7.96			147
20	47	O	1	1.91			4
20	48	O	5	1.91			4
20	49	O	5	2.23			6
20	50	O	1	0.96			1
20	51	O	2	7.96			147
20	52	O	3	1.59			3
20	53	O	4	1.91			4
20	54	O	6	3.82			24
20	55	O	3	2.55			9
20	56	O	1	4.46			35
20	57	O	4	4.46			35
20	58	O	5	3.50			19
20	59	O	6	3.18			15
20	60	O	3	2.55			9
20	61	O	3	4.78			41
20	62	O	4	3.50			19
20	63	O	5	2.55			9
20	64	O	7	3.82			24
20	65	O	6	5.10			48
20	66	O	5	2.55			9
20	67	O	7	5.41			56
20	68	O	6	6.37			84
20	69	O	16	4.46			35
20	70	O	9	4.14			29
21	1	O		22.93			2027
21	5	O	29	11.15			338
21	6	O	67	14.97			703
21	7	O	20	12.74			471
21	10	O	63	19.11			1289
21	12	O	15	8.60			177
21	15	O	36	6.05			74
21	18	O	34	8.60			177
21	19	O	17	10.51			292

21	24	O	46	8.92			194
21	32	O	123	5.10			48
21	37	O	67	7.96			147
22	1			8.60			177
22	2		60	13.38			532
22	3		12	9.55			230
22	4		16	12.74			471
22	5		26	7.96			147
22	6		6	13.06			501
22	7		24	9.24			212
22	8		4	11.78			388
22	9		4	10.83			315
22	10		6	6.37			84
22	11		8	10.51			292
22	12		5	10.51			292
22	13		4	5.41			56
22	14		4	8.60			177
22	15		6	9.24			212
22	16		4	6.37			84
22	17		5	6.37			84
22	18		3	5.73			65
22	19		6	7.01			107
22	20		8	6.69			95
22	21		6	7.01			107
22	22		5	8.28			162
22	23		8	7.01			107
22	24		5	4.46			35
22	25		6	3.18			15
22	26		6	6.05			74
22	27		5	6.37			84
22	28		4	7.01			107
22	29		3	1.59			3
22	30		4	2.23			6
22	31		5	6.05			74
22	32		5	7.32			119
22	33		6	4.78			41
22	34		7	6.05			74
22	35		4	6.37			84
22	36		8	7.96			147
22	37		9	2.87			12
22	38		8	5.41			56
22	39		13	5.73			65
22	40		6	5.73			65
22	41		7	3.18			15
22	42		5	5.41			56
22	43		9	6.05			74
22	44		13	5.73			65
22	45		7	10.19			271
22	46		4	3.18			15
22	47		6	5.41			56
22	48		23	5.10			48
22	49		10	4.78			41
22	50		7	4.78			41
22	51		4	4.78			41
22	52		4	5.41			56
22	53		6	7.96			147
22	54		3	7.32			119
22	55		7	5.73			65
22	56		2	3.18			15
22	57		4	3.50			19
22	58		6	7.01			107
22	59		13	6.69			95
22	60		6	6.05			74
22	61		7	5.10			48
22	62		4	4.46			35
22	63		12	7.01			107

22	64		10	5.41			56
22	65		7	6.05			74
22	66		3	3.18			15
22	67		8	5.10			48
22	68		11	4.78			41
22	69		10	6.05			74
23	1	O	3	8.92			194
23	2	O	8	7.64			132
23	3	O	4	9.24			212
23	4	O	1	5.10			48
23	5	O	6	8.92			194
23	6	O	16	9.87			250
23	7	O	8	5.73			65
23	8	O	7	7.64			132
23	9	O	8	6.69			95
23	10	O	7	9.24			212
23	11	O	8	7.96			147
23	12	O	7	5.73			65
23	13	O	7	7.64			132
23	14	O	7	7.32			119
23	15	O	16	10.51			292
23	16	O	8	3.82			24
23	17	O	6	7.01			107
23	18	O	6	8.60			177
23	19	O	13	4.46			35
23	20	O	7	7.96			147
23	22	O	16	6.37			84
23	23	O	6	7.32			119
23	24	O	6	7.32			119
23	25	O	16	8.60			177
23	28	O	27	2.55			9
23	29	O	10	7.96			147
23	30	O	9	9.24			212
23	31	O	7	8.28			162
23	32	O	6	1.91			4
23	33	O	8	7.96			147
23	34	O	8	6.69			95
23	35	O	7	7.32			119
23	36	O	13	8.60			177
23	37	O	8	6.69			95
23	38	O	6	7.01			107
23	39	O	5	1.59			3
23	40	O	5	8.60			177
23	41	O	7	10.19			271
23	42	O	5	4.46			35
23	43	O	8	6.69			95
23	44	O	5	3.18			15
23	45	O	2	7.64			132
23	46	O	13	4.14			29
23	56	O	1	3.18			15
23	57	O	7	7.96			147
23	58	O	10	7.96			147
23	59	O	13	9.24			212
23	60	O	8	7.64			132
23	62	O	18	5.10			48
23	63	O	9	3.50			19
23	64	O	13	7.96			147
23	65	O	8	6.69			95
23	66	O	8	7.01			107
23	67	O	9	7.64			132
23	68	O	8	6.05			74
23	69	O	9	10.19			271
23	72	O	34	7.96			147
23	80	O	94	6.37			84
23	85	O	17	10.83			315
23	86	O	8	8.28			162

23	87	O	8	7.01			107
23	88	O	7	14.65			666
23	89	O	9	10.83			315
23	90	O	8	9.55			230
23	91	O	9	3.82			24
23	92	O	6	7.96			147
23	93	O	8	10.51			292
23	94	O	10	12.42			442
23	95	O	8	5.73			65
23	96	O	10	11.78			388
23	97	O	8	5.10			48
23	98	O	10	10.19			271
23	99	O	9	4.14			29
23	100	O	8	10.83			315
24	1	O		4.14			29
24	2	O	14	5.10			48
24	3	O	6	5.41			56
24	4	O	4	8.92			194
24	5	O	10	8.60			177
24	6	O	6	3.82			24
24	7	O	6	2.87			12
24	8	X	16	3.50			19
24	9	O	7	5.73			65
24	10	O	8	11.46			362
24	11	O	5	10.83			315
24	12	O	10	5.10			48
24	13	O	2	8.60			177
24	14	O	7	2.23			6
24	15	O	10	5.41			56
24	16	O	10	3.82			24
24	17	O	10	14.01			597
24	18	O	10	6.37			84
24	22	O	10	6.05			74
24	23	O	8	6.05			74
24	24	X	20	4.78			41
24	25	O		4.78			41
24	26	O	7	12.10			415
24	28	O		5.73			65
24	29	O	8	7.64			132
24	30	O	8	2.23			6
24	31	O	7	9.24			212
24	32	O	8	8.28			162
24	34	O		6.37			84
24	35	O	10	4.14			29
24	36	O	8	9.24			212
24	37	O	8	6.37			84
24	39	O		2.87			12
24	40	O	8	5.56			60
24	41	O	8	7.64			132
24	42	X	17	4.14			29
24	43	O		4.14			29
24	44	O	12	4.46			35
24	47	X		3.18			15
24	48	O	6	8.92			194
24	49	O	8	4.78			41
24	50	O	8	2.87			12
24	51	O	10	6.05			74
24	52	O	10	5.10			48
24	53	O	8	14.33			631
24	54	O	6	2.23			6
24	55	O	8	3.50			19
24	56	O	7	2.87			12
24	57	O	6	5.10			48
24	58	O	6	6.05			74
24	59	O	8	7.32			119
24	62	O	8	3.50			19

24	63	O	10	9.24			212
24	64	O	6	4.78			41
24	67	O	11	6.05			74
24	68	O	8	3.18			15
24	69	O	8	8.28			162
24	70	O	14	2.23			6
24	71	O	6	5.73			65
24	72	O	6	6.37			84
24	73	O	6	5.41			56
24	74	O	8	7.64			132
24	75	O	8	6.37			84
24	76	O	4	4.14			29
24	77	O	4	5.73			65
24	78	O	4	3.18			15
24	79	O	2	4.78			41
24	80	O	6	5.73			65
24	81	O	10	5.73			65
24	82	O	6	4.78			41
24	83	O	6	8.92			194
24	84	O	7	9.55			230
25	1	O	X	14.33			631
25	2	O	8	11.15			338
25	3	O	10	6.69			95
25	4	O	6	5.73			65
25	5	O	8	7.96			147
25	8	O	24	4.78			41
25	9	O	8	10.51			292
25	10	O	10	7.96			147
25	16	O	48	10.83			315
25	18	O	20	7.01			107
25	19	O	8	18.47			1185
25	24	O	54	9.87			250
25	29	O	54	5.41			56
25	30	O	4	3.82			24
25	31	O	4	15.92			820
25	32	O	6	8.28			162
25	33	O	4	4.78			41
25	34	O	6	4.46			35
25	35	O	8	6.05			74
25	36	O	4	15.29			741
25	37	O	6	8.60			177
25	38	O	17	5.41			56
25	39	O	20	6.37			84
25	40	O	6	5.10			48
25	41	O	10	9.55			230
25	42	O	6	7.32			119
25	43	O	20	7.64			132
25	44	O	14	6.69			95
25	45	O	1	6.37			84
25	46	O	6	5.41			56
25	47	O	12	5.73			65
25	48	O	6	7.64			132
25	49	O	6	7.64			132
25	50	O	6	6.37			84
25	51	O	6	5.73			65
25	52	O	4	5.41			56
25	53	O	6	6.69			95
25	54	O	6	5.10			48
25	55	O	6	6.69			95
25	56	O	12	6.69			95
25	58	O	20	14.33			631
25	59	O	8	5.10			48
25	60	O	6	4.14			29
25	61	O	6	5.73			65
25	62	O	10	10.51			292
25	63	O	6	7.96			147

25	64	O	4	6.69			95
25	65	O	4	5.41			56
25	66	O	2	2.23			6
25	67	O	6	8.28			162
25	68	O	6	12.74			471
25	69	O	8	13.38			532
25	70	O	6	14.97			703
25	71	O	6	15.92			820
25	72	O	6	14.33			631
25	73	O	6	12.74			471
25	74	O	6	10.51			292
25	75	O	6	11.46			362
25	76	O	6	10.19			271
25	77	O	6	9.87			250
25	78	O	6	11.15			338
25	79	O	6	11.46			362
25	80	O	6	10.19			271
25	81	O	6	9.87			250
25	82	O	6	10.51			292
25	83	O	6	11.15			338
25	84	O	6	10.83			315
26	1	O	26	8.28			162
26	2	O	14	6.05			74
26	3	O	7	8.92			194
26	5	O	21	9.24			212
26	6	O	12	4.78			41
26	7	O	7	5.73			65
26	9	O	8	15.29		Double	741
26	10	O	9	7.64			132
26	11	O	1	4.78			41
26	12	O	6	3.18			15
26	13	O	8	12.10		Double	415
26	14	O	1	7.64			132
26	16	O	24	9.87			250
26	17	O	7	3.50			19
26	18	O	20	11.15			338
26	19	O	18	8.28			162
26	20	O	9	12.74			471
26	21	O	8	6.37			84
26	22	O	15	12.42			442
26	23	O	6	5.73			65
26	24	O	1	4.78			41
26	25	O	5	9.87			250
26	26	O	12	5.73			65
26	27	O	18	7.32			119
26	28	O	13	4.14			29
26	29	O	11	3.82			24
26	30	O	12	8.28			162
26	31	O	7	3.50			19
26	32	O	13	10.19			271
26	33	O	7	4.46			35
26	34	O	16	7.32			119
26	35	O	6	5.41			56
26	36	O	5	7.64			132
26	39	O	36	6.05			74
26	40	O	17	7.32			119
26	41	O	4	5.73			65
26	42	O	10	8.28			162
26	43	O	4	6.37			84
26	45	O	21	6.69			95
26	47	O	23	5.73			65
26	50	O	32	7.01			107
26	51	O	4	7.64			132
26	52	O	8	8.28			162
26	54	O	8	9.55			230
26	55	O	12	4.14			29

26	56	O	8	5.73			65
26	57	O	4	3.82			24
26	58	O	10	2.55			9
26	59	O	12	7.01			107
26	60	O	5	4.46			35
26	61	O	8	5.10			48
26	62	O	11	4.14			29
26	63	O	7	3.82			24
26	64	O	16	5.41			56
26	65	O	10	2.55			9
26	66	O	11	10.19			271
26	67	O	6	8.92			194
26	68	O	8	6.37			84
26	69	O	9	5.73			65
26	70	O	10	7.01			107
26	71	O	8	5.73			65
26	72	O	13	7.32			119
26	73	O	7	10.19			271
26	74	O	20	12.10			415
27	1	O	X	5.41			56
27	2	O	8	7.01			107
27	6	O	30	5.10			48
27	7	O	6	9.24			212
27	8	O	14	9.24			212
27	9	O	6	14.33			631
27	10	O	8	8.60			177
27	11	O	4	8.92			194
27	12	O	6	2.87			12
27	13	O	4	9.24			212
27	14	O	6	7.32			119
27	15	O	8	5.41			56
27	16	O	6	12.42			442
27	17	O	6	2.87			12
27	18	O	6	5.73			65
27	19	O	4	10.83			315
27	20	O	8	10.51			292
27	21	O	6	7.64			132
27	22	O	4	8.92			194
27	23	O	4	7.96			147
27	24	O	4	3.82			24
27	25	O	14	2.55			9
27	26	O	4	12.42			442
27	27	O	6	8.28			162
27	28	O	6	6.69			95
27	29	O	4	8.60			177
27	30	O	16	7.01			107
27	31	O	6	7.32			119
27	32	O	6	7.01			107
27	33	O	6	4.46			35
27	34	O	6	8.60			177
27	35	O	8	5.10			48
27	36	O	6	8.28			162
27	37	O	6	6.05			74
27	38	O	16	14.65			666
27	39	O	10	6.37			84
27	40	O	10	17.20			992
27	41	O	10	6.37			84
27	42	O	4	1.91			4
27	43	O	6	2.23			6
27	44	O	6	23.25			2098
27	45	O	2	5.73			65
27	46	O	6	3.18			15
27	47	O	4	6.69			95
27	48	O	4	9.24			212
27	49	O	4	8.92			194
27	50	O	6	4.78			41

27	51	O	4	6.69			95
27	52	O	8	5.10			48
27	53	O	6	7.96			147
27	54	O	6	7.32			119
27	55	O	12	5.73			65
27	56	O	4	6.69			95
27	58	O	30	15.29			741
27	59	O	4	5.73			65
27	60	O	4	4.14			29
27	61	O	12	8.28			162
27	62	O	2	5.41			56
27	63	O	6	9.55			230
27	64	O	10	3.50			19
27	65	O	8	8.28			162
27	66	O	4	5.10			48
27	67	O	6	10.51			292
27	68	O	8	4.14			29
27	69	O	6	3.18			15
27	70	O	6	9.87			250
27	71	O	10	12.10			415
27	72	O	6	10.83			315
27	73	O	8	12.42			442
27	74	O	10	2.23			6
27	75	O	8	13.06			501
27	76	O	12	11.46			362
27	77	O	6	10.19			271
27	78	O	10	11.78			388
27	79	O	4	10.19			271
27	80	O	6	12.10			415
27	81	O	8	10.83			315
27	82	O	4	12.42			442
27	83	O	10	10.19			271
27	84	O	8	11.15			338
27	85	O	6	11.46			362
28	1	O	X	5.73			65
28	2	O	2	22.29			1890
28	3	O	10	7.32			119
28	4	O	4	6.37			84
28	5	O	4	12.74			471
28	6	O	4	9.24			212
28	7	O	2	2.23			6
28	8	O	2	8.28			162
28	9	O	10	10.19			271
28	10	O	2	4.78			41
28	11	O	6	10.83			315
28	12	O	2	5.10			48
28	13	O	1	6.05			74
28	14	O	4	7.01			107
28	15	O	2	2.23			6
28	16	O	6	4.14			29
28	17	O	2	7.96			147
28	18	O	2	6.69			95
28	19	O	2	11.46			362
28	20	O	4	5.73			65
28	21	O	8	9.24			212
28	22	O	6	10.19			271
28	23	O	6	9.87			250
28	24	O	8	6.69			95
28	25	O	2	10.51			292
28	27	X	28	10.83			315
28	28	O	6	9.24			212
28	29	O	6	7.64			132
28	30	O	6	8.60			177
28	32	O	16	5.10			48
28	33	O	6	6.05			74
28	34	O	4	5.41			56

28	35	O	6	8.92			194
28	36	O	12	5.10			48
28	37	O	6	7.64			132
28	38	O	4	5.41			56
28	39	O	4	7.01			107
28	40	O	4	7.01			107
28	41	O	6	5.73			65
28	42	O	4	5.73			65
28	43	O	4	7.96			147
28	44	O	8	7.96			147
28	45	O	2	6.37			84
28	46	O	14	13.69			564
28	47	O	2	7.01			107
28	48	O	6	3.82			24
28	49	O	6	9.87			250
28	50	O	8	7.01			107
28	51	O	6	10.19			271
28	52	O	6	3.82			24
28	53	O	6	7.01			107
28	54	O	8	5.10			48
28	55	O	6	7.64			132
28	56	O	3	5.73			65
28	57	O	6	9.55			230
28	58	O	6	6.37			84
28	59	O	4	5.41			56
28	60	O	10	5.73			65
28	65	O	50	8.28			162
28	66	O	6	5.10			48
28	67	O	6	5.73			65
28	68	O	4	5.10			48
28	69	O	6	1.59			3
28	70	O	6	5.41			56
28	71	O	4	2.55			9
28	72	O	6	8.28			162
28	73	O	10	3.18			15
28	74	O	4	7.32			119
28	75	O	6	8.92			194
28	76	O	6	2.55			9
28	78	O	2	3.50			19
28	79	O	2	5.41			56
28	80	O	4	7.32			119
28	81	O	6	9.24			212
28	82	O	2	5.73			65
28	83	O	4	5.10			48
28	84	O	2	3.82			24
28	85	O	2	3.50			19
28	86	O	2	5.10			48
28	87	O	6	5.73			65
28	88	O	4	7.32			119
28	89	O	4	8.92			194
28	90	O	2	6.05			74
28	91	O	2	3.50			19
28	92	O	4	3.82			24
28	93	O	4	4.78			41
28	94	O	2	5.41			56
28	95	O	6	6.37			84
28	96	O	2	4.14			29
28	97	O	4	7.32			119
28	98	O	4	7.01			107
28	99	O	6	5.10			48
28	100	O	2	9.55			230
28	101	O	2	6.05			74
28	102	O	2	3.50			19
31	1	P		11.46			291
31	2	P	16	13.06			400
31	3	P	8	14.01			474

31	4	P	27	15.29			587
31	5	P	24	15.29			587
31	6	P	31	8.92	60		158
31	7	P	15	9.87			202
31	12	P	74	11.15			272
31	13	P	30	14.33			501
31	14	P	17	15.29			587
31	15	P	5	12.42	45		354
31	16	P	4	13.69			448
31	17	P	7	18.79			969
31	18	P	2	10.51			236
31	19	P	1	10.83			253
31	20	P	2	9.87			202
31	25	P	29	15.61			617
31	26	P	4	13.38	59		424
31	27	P	6	14.97			557
31	28	P	23	15.29			587
31	29	P	20	15.92			647
31	30	P	10	14.33			501
31	31	P	2	8.92			158
31	32	P	1	10.51	43		236
31	33	P	1	11.78			311
31	34	P	7	10.51			236
31	35	P	6	14.33			501
31	36	P	6	13.69			448
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31	46	P	10	11.78			311
31	47	P	12	16.24			679
31	48	P	5	10.83			253
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31	51	P	18	11.15			272
31	52	P	13	14.33			501
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31	54	P	12	14.97			557
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32	10	P	105	15.29			586
32	12	P	25	18.15			891
32	13	P	6	14.33			501
32	14	P	4	10.83			253
32	15	P	5	12.10			332
32	16	P	9	14.01			474
32	17	P	4	11.15			272
32	18	P	9	18.79			969
32	19	P	6	7.96			120
32	20	P	4	12.74			376
32	22	P	12	18.15			891
32	23	P	10	14.33			501
32	29	P	90	13.38			424
32	30	P	10	15.61			617
32	31	P	12	13.06			400
32	32	P	3	13.06			400
32	33	P	4	14.33			501
32	34	P	6	10.51			235
32	35	P	5	13.06			400
32	36	P	10	15.61			617
32	37	P	12	18.15			891
32	41	P	40	15.61			617
32	42	P	6	13.38			424
32	43	P	11	17.52			817

32	44	P	6	18.15			891
32	46	P	30	18.79			969
32	47	P	12	18.15			891
32	48	P	6	14.65			529
32	49	P	4	22.61			1521
32	50	P	13	17.52			817
32	51	P	15	16.56			713
32	52	P	2	10.83			253
32	53	P	12	15.61			617
32	60	P	64	18.15			891
32	61	P	12	15.92			648
33	1	P		12.74	52		376
33	2	P	8	14.01			474
33	3	P	8	11.15			272
33	4	P	6	11.46			291
33	5	P		15.92			647
33	9	P	7	17.20		dt	781
33	10	P	9	14.33			501
33	13	P	10	15.92	48		647
33	14	P	8	11.78			311
33	15	P	7	11.15			272
33	16	P	7	12.42			354
33	17	P	4	11.78			311
33	18	P	2	13.38			424
33	19	P	2	15.29			587
33	20	P	2	14.01			474
33	25	P	23	18.15	54		891
33	26	P	11	16.24			679
33	27	P	10	15.29			587
33	28	P	2	13.69			448
33	29	P	3	13.69			448
33	30	P	7	10.83			253
33	31	P	9	9.55			187
33	32	P	11	14.01			474
33	33	P	4	13.38			424
33	34	P	4	12.42			354
33	35	P	3	12.42			354
33	36	P	2	12.74	46		376
33	37	P	1	15.61			617
33	38	P	2	14.97			557
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33	45	P	81	14.01			474
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34	4	P	11	14.65			529
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34	6	P	6	15.61			617
34	7	P	6	15.92			647
34	8	P	12	17.20			781
34	9	P	16	17.83	62		853
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34	21	P	36	17.52			817
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34	26	P	16	15.61			617
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35	3	B	6	13.69			563
35	4	B	6	13.06			501
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35	6	B	7	13.69			563
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35	8	B	14	11.15			338
35	9	B	15	14.65			666
35	10	B	9	10.83			315
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35	21	B	13	10.51			292
35	22	B	14	10.51			292
35	23	B	7	12.42			442
36	1	B	12	14.33	42	double	631
36	2	B	9	10.51			292
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36	4	B	12	8.28			162
36	5	B	6	13.69		double	563
36	6	B	8	10.51			292
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36	19	B	12	9.55			230
36	20	B	12	10.51			292
36	21	B	13	15.29			741
36	22	B	9	13.69		double	563
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37	2	P	5	14.33			501
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37	4	P	14	10.83			253
37	10	P	6	13.38	52		424
37	11	P	9	10.19			218
37	12	P	9	14.33			501
37	13	P	6	14.65			529
37	14	P	6	15.61			617
37	15	P	6	16.24			679
37	16	P	4	19.43		Double tree	1052

37	17	P	4	17.83			853
37	18	P	5	15.61			617
37	19	P	8	16.24			679
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37	43	P	4	15.61			617
37	44	P	2	14.01			474
37	45	P	2	14.65			529
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37	48	P	2	12.74			376
37	49	P	4	17.83			853
37	50	P	6	11.78			311
37	51	P	6	11.78			311
37	52	P	6	11.78			311
37	53	P	9	14.65			529
38	1	P	X	18.79			969
38	2	P	6	13.38			424
38	3	P	12	14.33			501
38	4	P	8	17.83			853
38	5	P	8	14.01	49		474
38	6	P	7	17.20			781
38	7	P	7	17.52			817
38	8	P	6	14.97			557
38	9	P	12	18.79			969
38	10	P	8	17.20			781
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38	31	P	7	13.38			424
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38	36	P	14	17.83			853
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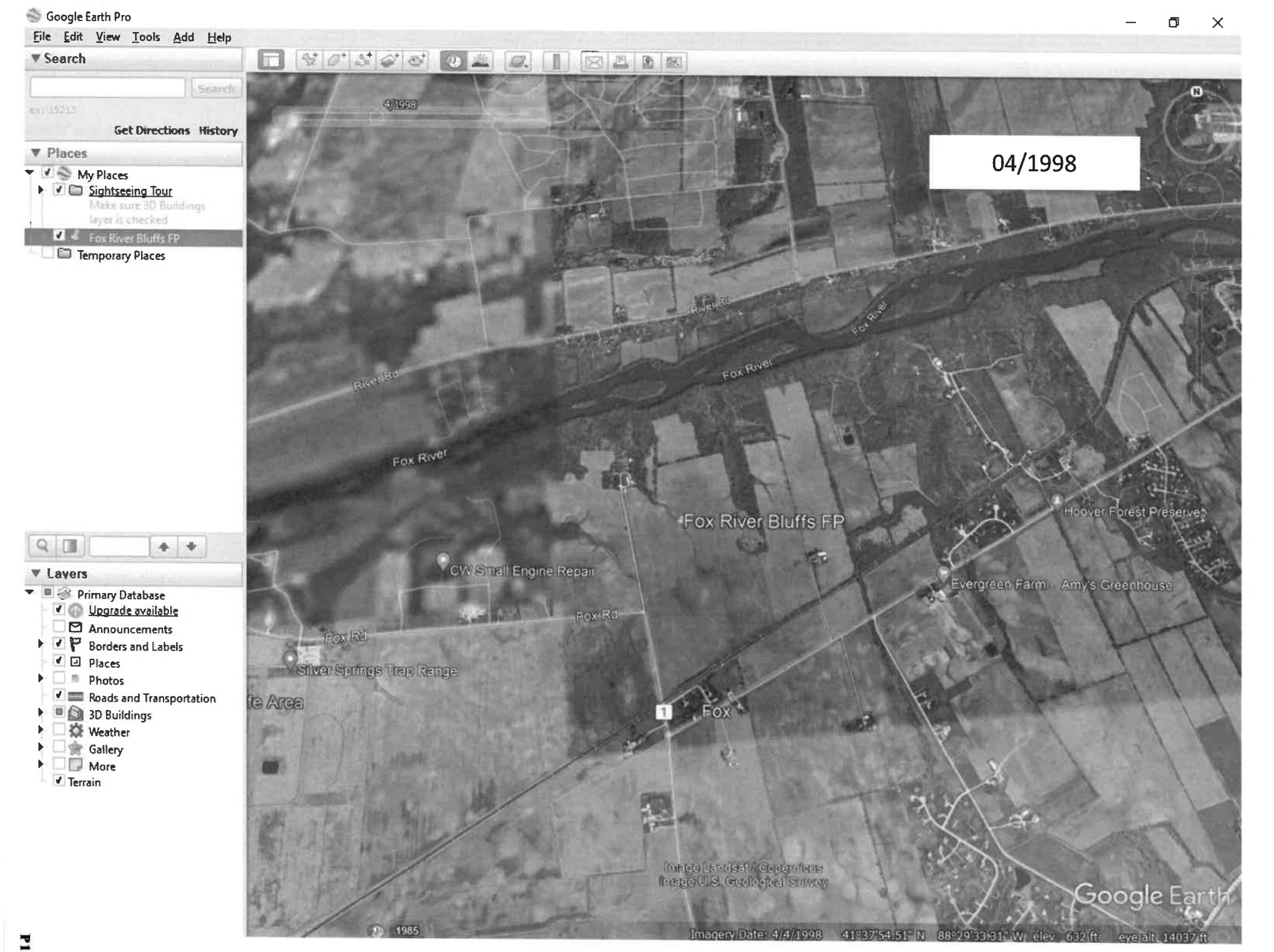
38	43	P	46	17.20	49		781
38	44	P	6	14.33			501
38	45	P	8	14.65			529
38	46	P	12	18.79		Double Tree	969
38	47	P	12	14.97			557
38	48	P	6	14.65			529
38	49	P	9	14.33			501
38	50	P	14	16.56			713
38	54	P	29	16.56			713
38	55	P	15	13.69			448
38	56	P	19	16.56	57		713
38	57	P	17	16.24			679
38	58	P	12	14.97			557
38	59	P	6	15.61			617
38	60	P	6	14.65			529

39	1	H	X	10.51			292
39	2	H	6	11.15			338
39	3	H	10	11.46			362
39	4	H	13	15.61	46		780
39	5	H	14	12.10			414
39	10	H	42	16.24			861
39	11	H	13	12.42			442
39	12	H	12	11.46			362
39	17	H	29	11.15			338
39	18	H	14	14.33			631
39	19	H	6	12.10			414
39	20	H	8	14.97			703
39	21	H	9	13.69			563
39	22	H	12	10.83			315
39	23	H	16	15.92	49		819
39	24	H	16	14.97			703
39	25	H	9	11.78			388
39	26	H	8	15.61			780
39	32	H	31	13.06			501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River Rd
Fox River Bluffs FP
CW Small Engine Repair
Fox Rd
Silver Springs Trap Range
Fox
Hoover Forest Preserve
Evergreen Farm - Amy's Greenhouse
Image Landsat / Copernicus
Image U.S. Geological Survey
Google Earth
1985
Imagery Date: 4/4/1998 41°37'54.51" N 88°29'33.31" W elev 632 ft eye alt 14037 ft

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Amy's Greenhouse
Fox Rd
Silver Springs Trap Range
Image U.S. Geological Survey
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1985
Imagery Date: 4/2/2005 41°37'54.51" N 88°29'33.31" W elev 632 ft eye alt 14037 ft

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CW Small Engine Repair
Evergreen Farm - Amy's Greenhouse
Hoover Forest Preserve
Silver Springs Trap Range
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Image USDA Farm Service Agency
Google Earth
41°37'57.54" N 88°27'42.40" W elev 657 ft eye alt 14037 ft


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Fox River Bluffs FP
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CW Small Engine Repair
Silver Springs Trap Range
Hoover Forest Preserve
Evergreen Farm - Amy's Greenhouse
Google Earth
Imagery Date: 9/20/2015 41°37'54.51" N 88°29'33.31" W elev 632 ft eye alt 14037 ft

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KC-GIS Imagery Year: 2016

KC-GIS Imagery Year: 2018

KC-GIS Imagery Year: 2020

KC-GIS Imagery Year: 2021

Light pink background denotes an input cell ->

Directions
1) Use i-Tree Canopy, or another tool, to estimate the amount of deciduous and coniferous tree cover area (acres) (Cell C18 and D18).
2) Use i-Tree Canopy, or another tool, to estimate the amount of non-tree cover area (acres) (Cell F18) in the project area.
3) In Cell G18 the total area of the project is calculated (acres). Prompt i-Tree Canopy to provide an estimate of the project area by clicking on the gear icon next to the upper right portion of the image and selecting "Report By Area."
4) Total Project Area, cell G15 should equal 100%.

Table 1. Tree Cover

	Deciduous Tree Cover	Coniferous Tree Cover	Total Tree Cover	Non-Tree (	Total Project Area
Percent (%)	100%	0%	100%	0%	100%
Area (sq miles)	0.063	0.000	0.063	0.000	0.06
Area (m2)	161,873	0	161,873	0	161,873
Area (acres)	40	0.00	40.00	0.00	40.00

Using the information you provide on tree canopy cover, the tool provides estimates of co-benefits in Resource Units and $ per year.

Table 2. Co-Benefits per year with current tree canopy cover.

Ecosystem Services	Resource Units Totals	Res Unit/Acre Tree Canopy	Total $	$/Acre Tree Canopy
Rain Interception (m3/yr)	10,820.4	270.5	$77,472.17	$ 1,936.80
CO2 Avoided (t, $20/t/yr)	64.8	1.6	$1,296.13	$ 32.40
Air Quality (t/yr)				
O3	0.2065	0.0052	$312.81	$ 7.82
NOx	0.0345	0.0009	$52.20	$ 1.31
PM10	0.1056	0.0026	$136.10	$ 3.40
Net VOCs	0.1063	0.0027	$180.76	$ 4.52
Air Quality Total	0.4529	0.0113	$681.87	$17.05
Energy (kWh/yr & kBtu/yr)				
Cooling - Elec.	85,177	2,129	$6,464.96	$ 161.62
Heating - Nat. Gas	1,592,668	39,817	$15,504.27	$ 387.61
Energy Total ($/yr)			$21,969.23	$549.23
Grand Total ($/yr)			$101,419.41	$2,535.49

PURCHASE AGREEMENT

This Purchase Agreement (this "**Agreement**") is entered into as of December 7, 2021 (the "Effective Date") by and among the parties listed as project operators on Exhibit A (collectively, the "**Sellers**") and Regen Network Development, Inc. (the "**Buyer**").

BACKGROUND

Sellers are engaged in tree planting or tree preservation projects in urban areas that, among other benefits, sequester carbon (the "**Projects**").

The Projects have resulted in greenhouse gas reductions that have been verified by independent verifiers pursuant to protocols developed by City Forest Credits, a 501(c)(3) nonprofit organization that issues carbon credits to urban forest projects that comply with its protocols and have been third-party verified ("**CFC**").

According to the CFC protocols, each carbon credit represents one metric ton of CO2(e) and estimated quantified ecosystem co-benefits including rainfall interception, air quality effects, and heating and cooling effects (each metric ton of CO2(e) and associated co-benefits generated by a Project, a "**CFC Credit**" and collectively, the "**CFC Credits**").

Sellers wish to sell and the Buyer wishes to purchase the CFC Credits according to the terms described below.

ARTICLE 1
PURCHASE AND SALE OF CFC CREDITS

Section 1.1. The Purchase.

(a) Purchase and Sale. Buyer shall purchase, acquire and accept the CFC Credits available on the Effective Date from Sellers, and Sellers shall sell, assign and transfer all right, title and interest in and to the CFC Credits to the Buyer, free and clear of any encumbrances.

(b) Purchase Price; Payment. The purchase price for the CFC Credits purchased pursuant to Section 1.1(a) shall be $1,259,490.00. The purchase price is the sum of (i) 34,947 CFC Credits offered by the Sellers, multiplied by $34.00 (the "**CFC Credit Price**"), and (ii) $71,292.00, which is the National Sale Director fee, which is 6% of the CFC Credit Price (together, the "**Purchase Price**"). The Purchase Price shall be disbursed at the Effective Date by the Buyer to the parties listed on Exhibit B by wire transfer or check of immediately available U.S. Dollars to the bank accounts specified by the recipients.

(c) Within five business days of the payment of the Purchase Price, Sellers shall provide a written transfer notice to CFC, with a copy to the Buyer, directing it to transfer the CFC Credits to the Buyer's CFC credit registry account. Title to the CFC Credits will pass to Buyer upon transfer by CFC to Buyer's credit registry account.

ARTICLE 2
NATURE OF THE SALES

Buyer shall be the legal, equitable and beneficial owner of the CFC Credits upon payment of the Purchase Price as described in Section 1.1, with full rights to transfer, alienate and pledge the same, and Sellers shall use commercially reasonable efforts to cooperate with Buyer by executing documents or agreements to properly reflect Buyer's rights in the CFC Credits intended to be conveyed by this Agreement.

ARTICLE 3
REPRESENTATIONS AND WARRANTIES

Section 3.1. Mutual Representations and Warranties. Each Seller severally but not jointly represents and warrants to the Buyer, and the Buyer represents and warrants to each Seller on the date hereof that:

(a) it is duly organized and validly exists under the laws of its governing jurisdiction and is qualified to conduct its business in that jurisdiction;

(b) it has the power and authority to execute and deliver this Agreement and to perform its obligations under it and has taken all necessary actions to authorize the entry into and the performance of its obligations under this Agreement;

(c) the entry into and performance of its obligations under this Agreement do not violate or conflict with or require any consent or waiver under any of the terms or conditions in its governing documents or any contract to which it is a party or by which any of its assets are bound or affected, or any applicable law;

(d) this Agreement constitutes a legal, valid and binding obligation on it enforceable in accordance with its terms, except as may be limited by bankruptcy, insolvency, reorganization, moratorium or similar laws relating to or limiting creditors' rights generally or by equitable principles relating to enforceability (whether enforcement is sought in equity or at law);

(e) it is not relying upon any representations of the other party other than those expressly set out in this Agreement and it has entered into this Agreement after a full opportunity to review its terms and conditions, has a full understanding of those terms and conditions and of their risks, and is capable of assuming those risks;

(f) the other party is not acting as a fiduciary or an advisor for it, nor has the other party given to it any advice, representation, assurance or guarantee as to the expected performance, benefit or result of this Agreement (other than as expressly set out in this Agreement);

(g) it has negotiated, entered into and executed this Agreement as principal (and not as agent or in any other capacity, fiduciary or otherwise); and

(h) there is no proceeding pending or, to the knowledge of such party, threatened against, relating to or that would have a material adverse effect on such party's ability to perform its obligations under this Agreement or any transaction contemplated herein.

Section 3.2. Sellers' Additional Representations and Warranties. The Sellers each, severally but not jointly, represent and warrant to the Buyer upon delivery of CFC Credits, that with respect to the CFC Credits delivered on such date:

(a) each Seller is party to a valid and enforceable contract with CFC obligating CFC to transfer CFC Credits from Seller's CFC credit registry account to another CFC credit registry account upon written instructions from Seller;

(b) it has full legal and equitable title to such CFC Credits, free of any encumbrances and fully transferable without claims by third parties and has not sold, transferred, assigned, licensed, disposed of, granted or otherwise created any interest or encumbrance in such CFC Credits other than as contemplated in this Agreement, and will not do so except in accordance with this Agreement;

(c) the Seller has all requisite rights to enter into this Agreement with the Buyer and to sell such CFC Credits to the Buyer.

Section 3.3. Buyer Representations and Warranties. The Buyer represents and warrants to each Seller:

(a) that Buyer has established a credit registry account with CFC to receive the CFC Credits upon the Effective Date;

(b) the Buyer is aware that the CFC Credits have not been and will not be registered under the Securities Act or any other securities laws. The Buyer is aware that the CFC Credits may not be offered, sold, pledged or otherwise transferred except in privately negotiated transactions that will not require registration of the CFC Credits under the Securities Act; and

(c) Buyer is purchasing the CFC Credits for its own account and not with an expectation of profit, or with a view to any resale or distribution in a transaction that would violate the Securities Act or the securities laws of any state of the United States or any other applicable jurisdiction.

Section 3.4. Disclaimers.

(a) Buyer is aware that there are a number of environmental market trading systems or greenhouse gas emission reduction trading systems. Sellers disclaim any representation or warranty regarding the ability and fitness of the CFC Credits to meet the obligations of or to hold any commercial value in these systems, whether or not currently effective, operational, or contemplated.

(b) Sellers are not making and have not at any time made any warranties or representations of any kind or character, express or implied, with respect to the CFC Credits,

including but not limited to, any warranties or representations as to merchantability, non-infringement, security or fitness for a particular purpose.

(c) Buyer shall accept the CFC Credits "as is" unless otherwise explicitly represented by Sellers herein. Buyer has not relied and will not rely on, and Sellers are not liable for or bound by, any express or implied warranties, guarantees, statements, representations or information pertaining to the CFC Credits made or furnished by Sellers or their representatives, to whomever made or given, directly or indirectly, orally or in writing, except as expressly stated herein.

(d) Buyer acknowledges to Sellers that Buyer will have and has had the opportunity to conduct prior to the Effective Date such inspections and investigations as Buyer deems necessary or desirable to satisfy itself as to the CFC Credits and its acquisition thereof.

Section 3.5. Expiration of Warranties. All representations and warranties made by Sellers or Buyer herein, or in any certificate, schedule or exhibit delivered pursuant hereto, shall expire and terminate at the Effective Date.

Section 3.6. Limitation of Liability. Neither Party shall be liable under or in connection with this Agreement for any indirect, special or consequential loss or damage of any kind, in each case howsoever arising and whether caused by tort (including negligence), breach of contract or otherwise.

Article 4
MEDIA

The parties shall cooperate in good faith to draft and release a media statement regarding the purchase of the CFC Credits within 45 days of the Effective Date and shall make appropriate staff available to respond to media inquiries on a timely basis. Either party may disclose information relating to this Agreement if required to do so by law or applicable governmental regulation.

ARTICLE 5
MISCELLANEOUS

Section 5.1. Additional Sales. If Buyer purchases additional CFC Credits related to the Projects within 12 months of the Effective Date, the purchase price shall be calculated according to the definition contained in Section 1.1(b) unless Buyer, Seller and the National Sale Director each agree otherwise.

Section 5.2. Costs and Expenses. With respect to each CFC Credit, (a) the Seller shall be responsible for the payment of any fees, charges, levies, taxes and other costs and expenses relating to its CFC Credits prior to the Effective Date, including fees related to the issuance and transfer of the CFC Credits to the Buyer's CFC account pursuant to Sellers' agreements with CFC, and (b) the Buyer shall be responsible for the payment of any fees, charges, levies, taxes and other costs and expenses relating to the CFC Credits arising on or after the Effective Date. Each Party will bear its own costs and expenses in connection with the preparation, negotiation

and execution of this Agreement, provided however, Buyer shall pay the fee of the National Sale Director as described in Section 1.1(b).

Section 5.3. Assignment. No party may assign any of its rights and obligations under this Agreement except with the prior written consent of the other parties. No provision of this Agreement is to be construed as creating any rights enforceable by a third party, and all third party rights implied by law are, to the extent permissible by law, excluded from this Agreement.

Section 5.4. Governing Law. This Agreement shall be governed by and construed in accordance with the internal laws of Delaware (excluding application of any choice of law doctrines that would make applicable the law of any other state or jurisdiction) and, where appropriate, applicable federal law, and any disputes arising from this Agreement shall be brought in the federal and state courts located in Delaware.

Section 5.5. Amendments. This Agreement may not be amended except by agreement in writing signed by both the Buyer and the Seller(s) intended to parties to the amendment.

Section 5.6. Remedies Cumulative. Except as otherwise provided in this Agreement, the rights and remedies contained in this Agreement are cumulative and not exclusive of any other right or remedy provided in this Agreement or provided by law.

Section 5.7. Execution in Counterparts. This Agreement may be executed in a number of counterparts, each of which will be an original and equally effective and shall constitute one and the same instrument. Signatures to this Agreement transmitted by electronic signature format or by electronic mail in portable document format shall be valid and effective to bind the party so signing.

Section 5.8. Entire Agreement; Exhibits. This Agreement constitutes the entire agreement and understanding of the parties with respect to the subject matter of this Agreement and supersedes and extinguishes any representations previously given or made with respect to its subject matter. The exhibits that are referenced in this Agreement are a part of this Agreement and are incorporated by reference.

Section 5.9. Notices. Except as otherwise provided herein, whenever it is provided herein that any notice, demand, request, consent, approval, declaration or other communication shall or may be given to or served upon any party by another party, or whenever any party desires to give or serve upon the other party any communication with respect to this Agreement, each such notice, demand, request, consent, approval, declaration or other communication shall be in writing and shall be deemed to have been validly served, given or delivered: (a) upon the earlier of actual receipt and five business days after deposit in the United States Mail, registered or certified mail, return receipt requested, with proper postage prepaid; (b) upon transmission, when sent by electronic transmission (with such electronic transmission promptly confirmed by delivery of a copy by personal delivery or United States Mail; (c) two business days after deposit with a reputable overnight courier with all charges prepaid; or (d) when delivered, if hand-delivered by messenger, all of which shall be addressed by the party to be notified and sent to the address or electronic address indicated below or to such other address (or electronic address) as

may be substituted by notice given as herein provided. The giving of any notice required hereunder may be waived in writing by the party entitled to receive such notice.

If to the Sellers:

[*to come*]

With a copy to Douglas McPherson, National Sale Director, douglasmcp@gmail.com

If to the Buyer:

Sara Johnstone, Chief Operating Officer
Regen Network Development, Inc.
PMB #51
2801 Centerville Rd, First Floor
Wilmington, DE 19808-1609
Sara.johnstone@regen.network

With a copy to: sarah.baxendell@regen.network

Section 5.10. Kendall County Forest Preserve District Affirmation. Buyer affirms no Kendall County Forest Preserve District officer or elected official has a direct or indirect pecuniary interest in Buyer or this Agreement, or, if any Kendall County Forest Preserve District officer or elected official does have a direct or indirect pecuniary interest in Buyer or this Agreement, that interest, and the procedure followed to effectuate this Agreement has and will comply with 50 ILCS 105/3.

[Signature Pages Follow]

The parties have executed this Purchase Agreement as of the Effective Date.

BUYER:

Regen Network Development, Inc.

By:_____
Name: Gregory Landua
Title: Chief Executive Officer

SELLERS:

Kendall County Forest Preserve District

By:_____
Name: Judy Gilmour
Title: President

EXHIBIT A

PROJECT OPERATORS, PROJECTS, AND CREDITS PURCHASED

Project Operator	Project Name	Location	CFC Credits
Allegheny Land Trust	Buena Vista Heights Conservation Area Preservation	Pittsburgh, PA	2,574
City of Issaquah	Harvey Manning Park Expansion Project	Issaquah, WA	7,170
Enrichmond Foundation	Evergreen and East End Preservation Project	Richmond, VA	1,500
Kendall County Forest Preserve District	Kendall County Forest Preserve - 2021	Kendall County, IL	508
King County	King County Urban Forest Preservation Program	King County, WA	265
Lake County Forest Preserve District	Lake County Forest Preserve - 2021	Lake County, IL	615
Lookout Mountain Conservancy	St. Elmo Preservation Project	Chattanooga, TN	8,715
Mountains to Sound Greenway Trust	Ballinger Open Space Restoration	Shoreline, WA	216
Treasure Valley Canopy Network	Treasure Valley Municipal Parks Project	Boise, ID	63
TreeFolks	Travis County Floodplain Reforestation Program	Travis County, TX	100
Trees Forever	Reforesting Des Moines - 2021	Des Moines, IA	440
Western Reserve Land Conservancy	Bainbridge Forest Preservation	Cleveland, OH	4,139
Western Reserve Land Conservancy	Sandy Cross Forest Preservation	Mansfield, OH	8,642
	Totals		**34,947**

EXHIBIT B

DISBURSEMENTS

AUTOMOTIVE SPECIALTIES, INC.

208 Wolf St., Yorkville, IL 60560
(630) 553-0397
Fax: (630) 553-0234

www.automotive-specialties.com

Damage Assessed By: RICH LUCAS
Classification: Drive-In

Deductible: UNKNOWN

Owner: K.C.FOREST PRES.

Mitchell Service: 910951

Description: 2009 Ford Pickup F250 XL
Body Style: 4D PkupXCb 7' Bed 142" WB
Drive Train: 6.4L Turbo Inj 8 Cyl Dsl 4WD
VIN: 1FTSX21R09EA77058
OEM/ALT: O
Search Code: None
Options: PASSENGER AIRBAG, POWER STEERING, AIR CONDITION, AM/FM STEREO, DRIVER AIRBAG ANTI-LOCK BRAKE SYS., TIRE INFLATION/PRESSURE MONITOR, TOW HITCH RECEIVER TRIP COMPUTER, VINYL SEAT, 4 WHEEL DRIVE, THIRD DOOR, 4 DOORS, REAR BENCH SEAT

Line Item	Entry Number	Labor Type	Operation	Line Item Description	Part Type/ Part Number	Dollar Amount	Labor Units
1	800420	BDY	REMOVE/REPLACE	Replace Pickup Bed Assy	Qual Recycled Part	2,900.00 *	2.5
2	AUTO	REF	REFINISH	Pickup Bed Components			C 11.0
3				*** END OF ATG SECTION ***			
4	000616	BDY	REMOVE/REPLACE	Frame Bolt 2@8.50	* W714263 S902	17.00	
5	000617	BDY	REMOVE/REPLACE	Frame Bolt 2@8.50	* W714262 S902	17.00	
6	000618	BDY	REMOVE/REPLACE	Frame Bolt 2@7.50	* W714264 S902	15.00	
7	900500	BDY *	REMOVE/REPLACE	MASK FOR OVERSPRAY	New	8.00 *	0.2*
8	936012		ADD'L COST	Hazardous Waste Disposal		3.00 *	
9	AUTO	REF	ADD'L OPR	Clear Coat			2.5
10	AUTO		ADD'L COST	Paint/Materials		486.00 *	

* - Judgment Item
C - Included in Clear Coat Calc

ESTIMATE RECALL NUMBER: 11/24/2021 09:33:59 4951
Mitchell Data Version: OEM: OCT_21_V

Software Version: 7.1.241

Remarks

THIS TRUCK BOX IS FROM A NEWER YEAR TRUCK AND MAY HAVE SLIGHTLY DIFFERENT BODY LINES. THERE MAY BE EXISTING SMALL DENTS IN THE USED ASSY WHICH WILL NEED TO BE REVIEWED WITH KCFP TO DETERMINE IF THEY WANT THESE REPAIRED OR USE "AS IS".....AVAILABILITY OF USEABLE USED TRUCK BOXES IS EXTREMELY HARD TO FIND.

Estimate Totals

I. Labor Subtotals	Units	Rate	Add'l Labor Amount	Sublet Amount	Totals
Body	2.7	54.00	0.00	0.00	145.80
Refinish	13.5	54.00	0.00	0.00	729.00
Non-Taxable Labor					874.80
Labor Summary	16.2				874.80

II. Part Replacement Summary			Amount
Taxable Parts			2,957.00
Sales Tax	@	8.250%	243.95
Total Replacement Parts Amount			3,200.95

III. Additional Costs			Amount
Taxable Costs			486.00
Sales Tax	@	8.250%	40.10
Non-Taxable Costs			3.00
Total Additional Costs			529.10

Paint Material Method: Rates
Init Rate = 36.00 , Init Max Hours = 99.9, Addl Rate = 0.00

IV. Adjustments	Amount
Customer Responsibility	0.00

I.	Total Labor:	874.80
II.	Total Replacement Parts:	3,200.95
III.	Total Additional Costs:	529.10
	Gross Total:	4,604.85
IV.	Total Adjustments:	0.00
	Net Total:	4,604.85

This is a preliminary estimate.
Additional changes to the estimate may be required for the actual repair.

Body Shop: Automotive Specialties
Address: 208 Wolf Street
Yorkville, IL 60560
Telephone: (630) 553-0397
Fax Phone: (630) 553-0234

THIS BUSINESS IS REQUIRED TO BE LICENSED BY THE SECRETARY OF THE STATE OF ILLINOIS, PURSUANT TO 625 ILCS 5/5-301. ANY COMPLAINTS AS TO THE QUALITY OF SERVICE OBTAINED HERE MAY BE BROUGHT TO THE ATTENTION OF THE ILLINOIS ATTORNEY GENERAL-SPRINGFIELD 217-782-9020,

ESTIMATE RECALL NUMBER: 11/24/2021 09:33:59 4951
Mitchell Data Version: OEM: OCT_21_V

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CHICAGO REGION TREES INITIATIVE

Our Trees.
Our Communities.
Our Future.

2021 URBAN FORESTRY AWARDS

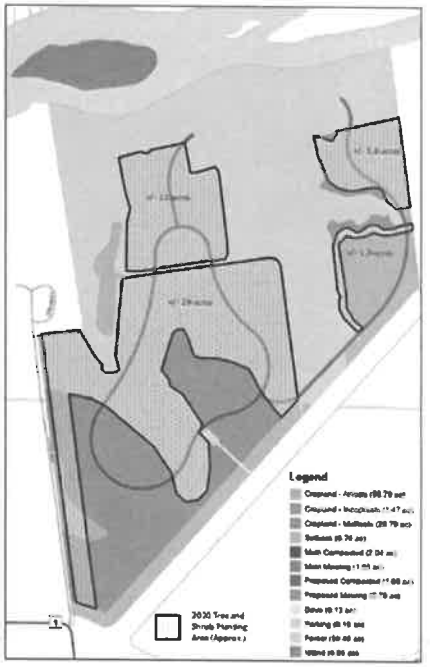
Public Natural Areas Award
The Public Natural Areas Award celebrates stewardship and advocacy for natural areas on public property.

Winner 1: Kendall County Forest Preserve District
Kendall County Forest Preserve District acquired the 168-acre Fox River Bluffs Forest Preserve in 2015 with an overall goal to restore 99-acres of the preserve's former farmland to prairie and a reforested natural area.

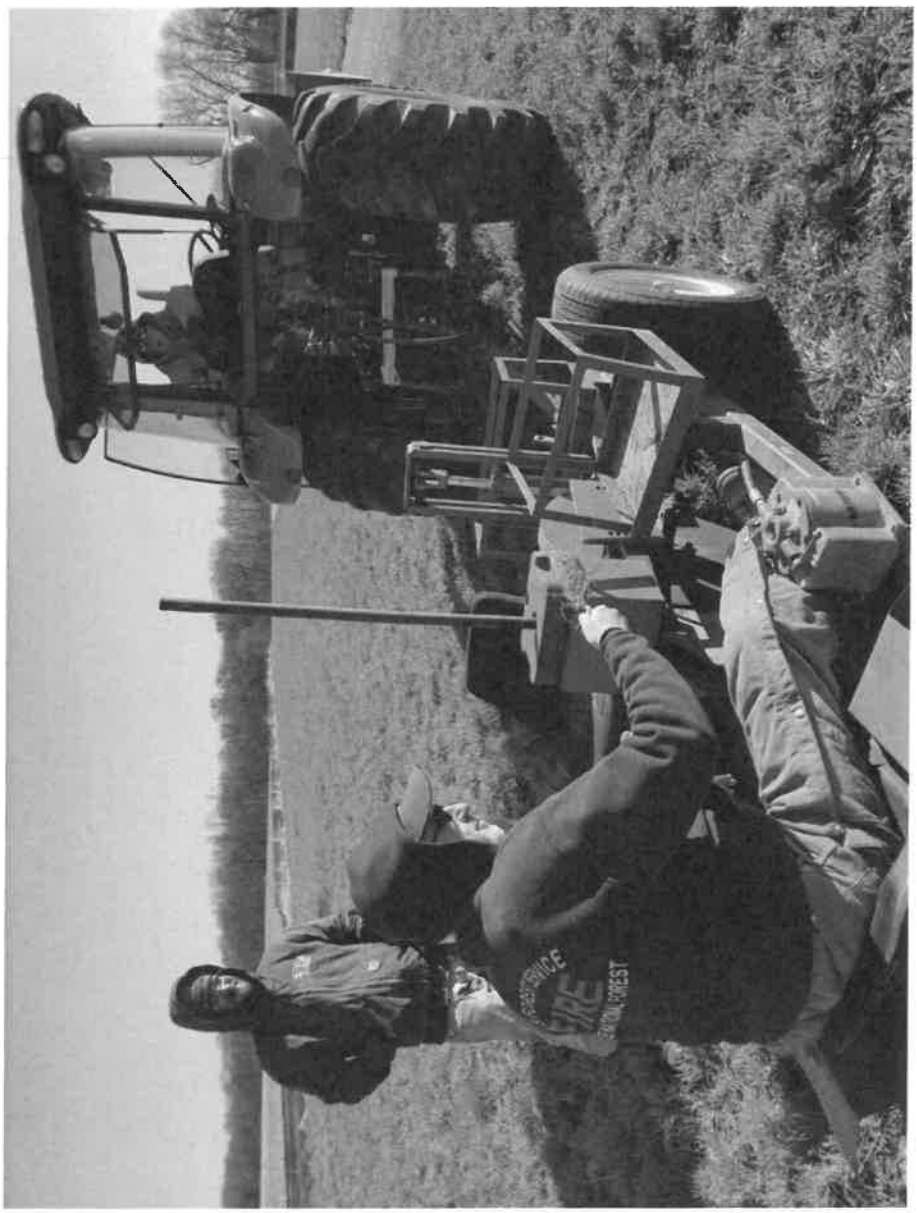
In 2020, they planted trees on roughly 47-acres of the preserve in Yorkville, IL. After five years of analysis and preparation, the District and community volunteers planted 31,000 native trees and shrubs in April 2020! Their restoration activities have continued with several phases and activities planned for the rest of the preserve, including invasive species removal and broadcast seeding in 66-acres of the preserve containing high-quality natural resources, including oak-dominated bluffs and ravines, seeps, and Fox River shoreline.

Fox River Bluffs—2020 Cropland Conversion Project

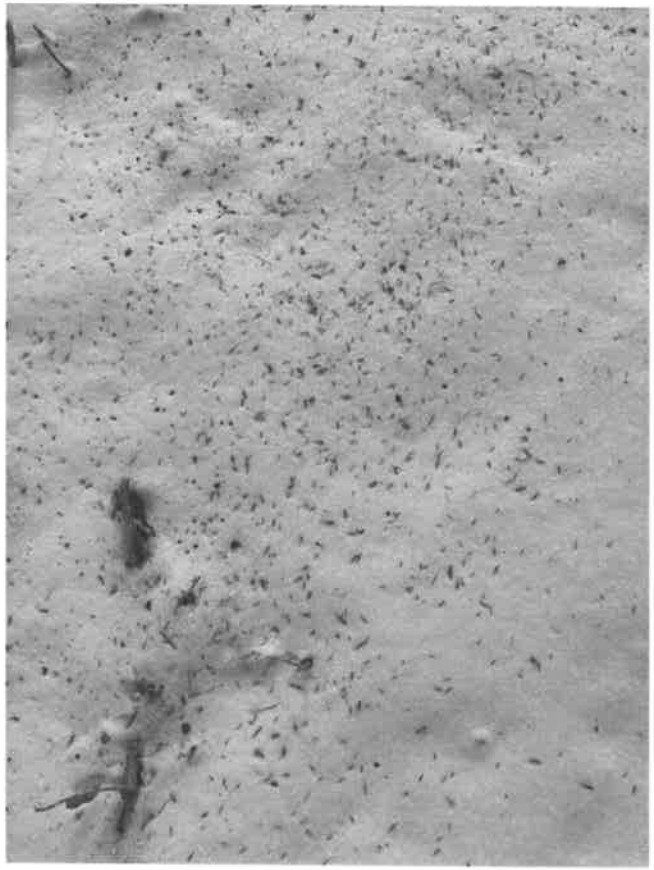
Tree and Shrub Planting Footprint and Soil Types Map



KENDALL COUNTY
FOREST PRESERVE DISTRICT




JOHN DEERE
GATOR
FARM



THE HOWL

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DECEMBER 14, 2020 LUCY WEIHER

Ecology Club brings awareness to prominent environmental issues