

**Preliminary Findings of the
LOGAN NEIGHBORHOOD PILOT PROJECT – AN URBAN FOREST RESOURCE INVENTORY
August 30, 2011**

Background

1. Funding assistance for this project provided by the USDA Forest Service and the Washington State Department of Natural Resources Urban and Community Forestry Programs.
2. Field data collected and processed using TreeWorks™ software, an extension of ArcGIS.
3. Benefits analysis produced using *i-Tree*, a software suite from the USDA Forest Service developed by its research team in cooperative partnership with Davey Tree Expert Company, National Arbor Day Foundation, Society of Municipal Arborists, International Society of Arboriculture, and Casey Trees.

Project Purpose

4. To collect public tree inventory data, including tree assessment and mapping, to use as a forest stewardship tool, an education and outreach opportunity, and a foundation for policy-making and program development within the Logan Neighborhood and beyond as a pilot project for additional neighborhoods to replicate.

Findings

5. Number of Public Trees: 3494
6. Asset (Appraised) Value of Trees: \$14,561,050
7. Total Annual Benefit of Trees: \$150,322
 - a. Energy Benefits: \$53,964
 - b. CO₂ Benefits: \$1562
 - c. Air Quality Benefits: \$1052
 - d. Stormwater Benefits: \$14,798
 - e. Aesthetic/Other Benefits: \$78,946
8. Diameter Distribution
 - a. 1 to 6 inch DBH: 25.7%
 - b. 7 to 18 inch DBH: 46.8%
 - c. 19 to 30 inch DBH: 23.5%
 - d. 31+ inch DBH: 4.0%
9. Species Distribution
 - a. Norway Maple: 18.1%
 - b. Black Locust: 7.2%
 - c. Flowering Pear: 7.0%
 - d. Honeylocust: 5.6%
 - e. Red Maple: 5.3%
 - f. Other: 56.8%



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WASHINGTON STATE DEPARTMENT OF
Natural Resources

S okane

Total Annual Benefits of Public Trees by Species (\$)

8/30/2011

Species	Energy	CO ₂	Air Quality	Stormwater	Aesthetic/Other	Total Standard (\$) Error	% of Total \$
Norway maple	16,941	451	297	4,303	13,066	35,058 (±0)	23.3
Callery pear	1,997	84	33	512	6,921	9,547 (±0)	6.4
Black locust	5,209	242	120	313	3,767	9,650 (±0)	6.4
Honeylocust	2,877	60	53	842	7,375	11,208 (±0)	7.5
Red maple	1,635	67	24	337	4,999	7,063 (±0)	4.7
Plum	1,996	59	33	116	2,788	4,991 (±0)	3.3
Littleleaf linden	2,522	45	68	708	2,753	6,095 (±0)	4.1
Maple	1,933	34	30	387	4,533	6,916 (±0)	4.6
Horsechestnut	0	89	47	782	2,443	3,361 (±0)	2.2
Smooth hawthorn	1,078	25	17	220	603	1,942 (±0)	1.3
Silver maple	1,743	1	31	415	2,951	5,141 (±0)	3.4
Sycamore maple	2,054	52	36	518	1,585	4,245 (±0)	2.8
Siberian elm	1,640	63	33	668	3,260	5,664 (±0)	3.8
Crabapple	509	17	8	29	814	1,377 (±0)	0.9
Green ash	402	7	11	80	1,227	1,727 (±0)	1.1
Blue spruce	525	10	5	520	921	1,981 (±0)	1.3
Douglas fir	806	10	3	875	741	2,435 (±0)	1.6
European hornbeam	0	16	6	95	1,177	1,294 (±0)	0.9
Hawthorn	490	12	8	100	340	949 (±0)	0.6
Ash	18	1	0	3	308	331 (±0)	0.2
Northern red oak	1,027	20	13	250	1,392	2,703 (±0)	1.8
Sargent cherry	510	13	8	30	555	1,117 (±0)	0.7
Pin oak	766	18	9	155	1,355	2,303 (±0)	1.5
OTHER STREET TREE	7,288	167	159	2,539	13,072	23,225 (±0)	15.5
Citywide Total	53,964	1,562	1,052	14,798	78,946	150,322 (±0)	100.0

Spokane

Annual Energy Benefits of Public Trees By Species

8/30/2011

Species	Total Electricity (MWh)	Electricity (\$)	Total Natural Gas (Therms)	Natural Gas (\$)	Total (\$)	Standard Error	% of Total Trees	% of Total \$	Avg. \$/tree
Norway maple	153.0	9,320	6,670.5	7,620	16,941	(N/A)	18.2	31.4	26.85
Callery pear	16.4	1,001	872.1	996	1,997	(N/A)	7.3	3.7	7.89
Black locust	40.8	2,487	2,382.3	2,722	5,209	(N/A)	7.2	9.7	20.83
Honeylocust	28.5	1,738	997.3	1,139	2,877	(N/A)	5.7	5.3	14.61
Red maple	13.1	799	732.0	836	1,635	(N/A)	5.4	3.0	8.79
Plum	15.0	914	947.3	1,082	1,996	(N/A)	5.2	3.7	11.15
Littleleaf linden	22.0	1,341	1,033.7	1,181	2,522	(N/A)	4.3	4.7	17.16
Maple	15.8	964	847.6	968	1,933	(N/A)	3.9	3.6	14.32
Horsechestnut	0.0	0	0.0	0	0	(N/A)	3.2	0.0	0.00
Smooth hawthorn	8.3	507	499.6	571	1,078	(N/A)	2.4	2.0	12.98
Silver maple	15.4	937	705.7	806	1,743	(N/A)	2.3	3.2	21.52
Sycamore maple	18.5	1,128	810.4	926	2,054	(N/A)	2.3	3.8	26.00
Siberian elm	15.3	934	618.4	706	1,640	(N/A)	2.2	3.0	21.58
Crabapple	3.8	233	242.0	276	509	(N/A)	1.9	0.9	7.95
Green ash	3.2	195	180.8	207	402	(N/A)	1.7	0.7	6.93
Blue spruce	4.9	296	200.9	230	525	(N/A)	1.6	1.0	9.73
Douglas fir	7.5	457	305.8	349	806	(N/A)	1.6	1.5	14.93
European hornbeam	0.0	0	0.0	0	0	(N/A)	1.5	0.0	0.00
Hawthorn	3.8	229	227.7	260	490	(N/A)	1.2	0.9	11.65
Ash	0.1	8	8.5	10	18	(N/A)	1.2	0.0	0.42
Northern red oak	9.8	594	378.6	433	1,027	(N/A)	1.2	1.9	24.45
Sargent cherry	3.9	239	237.1	271	510	(N/A)	1.2	0.9	12.74
Pin oak	6.7	406	315.1	360	766	(N/A)	1.0	1.4	21.88
OTHER STREET TREES	65.2	3,973	2,901.9	3,315	7,288	(N/A)	16.4	13.5	12.85
Citywide total	471.3	28,700	22,115.5	25,265	53,964	(N/A)	100.0	100.0	15.60

Spokane

Annual CO Benefits of Public Trees by Species

8/30/2011

Species	Sequestered (lb)	Sequestered (\$)	Decomposition Release (lb)	Maintenance Release (lb)	Total Released (\$)	Avoided (lb)	Avoided (\$)	Net Total (lb)	Total Standard (\$)	% of Total Trees	% of Total \$	Avg. \$/tree
Norway maple	157,387	519	-19,269	-1,456	-68	88	0	136,750	451 (N/A)	18.2	28.9	0.72
Gallery pear	26,233	87	-792	-49	-3	9	0	25,401	84 (N/A)	7.3	5.4	0.33
Black locust	85,085	281	-10,939	-715	-38	24	0	73,454	242 (N/A)	7.2	15.5	0.97
Honeylocust	19,530	64	-1,091	-222	-4	16	0	18,233	60 (N/A)	5.7	3.9	0.31
Red maple	21,257	70	-694	-166	-3	8	0	20,405	67 (N/A)	5.4	4.3	0.36
Plum	19,206	63	-1,162	-212	-5	9	0	17,841	59 (N/A)	5.2	3.8	0.33
Littleleaf linden	15,601	51	-1,855	-257	-7	13	0	13,502	45 (N/A)	4.3	2.9	0.30
Maple	11,471	38	-1,101	-161	-4	9	0	10,218	34 (N/A)	3.9	2.2	0.25
Horsechestnut	30,671	101	-3,325	-264	-12	0	0	27,082	89 (N/A)	3.2	5.7	0.80
Smooth hawthorn	8,357	28	-817	-118	-3	5	0	7,427	25 (N/A)	2.4	1.6	0.30
Silver maple	2,643	9	-2,187	-149	-8	9	0	316	1 (N/A)	2.3	0.1	0.01
Sycamore maple	18,130	60	-2,294	-181	-8	11	0	15,666	52 (N/A)	2.3	3.3	0.65
Siberian elm	21,634	71	-2,428	-190	-9	9	0	19,024	63 (N/A)	2.2	4.0	0.83
Crabapple	5,429	18	-278	-55	-1	2	0	5,099	17 (N/A)	1.9	1.1	0.26
Green ash	2,264	7	-118	-41	-1	2	0	2,108	7 (N/A)	1.7	0.5	0.12
Blue spruce	3,500	12	-403	-102	-2	3	0	2,997	10 (N/A)	1.6	0.6	0.18
Douglas fir	4,229	14	-1,109	-167	-4	4	0	2,958	10 (N/A)	1.6	0.6	0.18
European hornbeam	5,210	17	-261	-45	-1	0	0	4,904	16 (N/A)	1.5	1.0	0.31
Hawthorn	4,148	14	-359	-52	-1	2	0	3,739	12 (N/A)	1.2	0.8	0.29
Ash	218	1	-5	-8	0	0	0	205	1 (N/A)	1.2	0.0	0.02
Northern red oak	7,208	24	-1,042	-72	-4	6	0	6,100	20 (N/A)	1.2	1.3	0.48
Sargent cherry	4,357	14	-369	-56	-1	2	0	3,935	13 (N/A)	1.2	0.8	0.32
Pin oak	5,785	19	-388	-49	-1	4	0	5,352	18 (N/A)	1.0	1.1	0.50
OTHER STREET TREES	58,625	193	-7,181	-858	-27	38	0	50,623	167 (N/A)	16.4	10.7	0.29
Citywide total	538,177	1,776	-59,466	-5,644	-215	272	1	473,338	1,562 (N/A)	100.0	100.0	0.45

Spokane

Annual Air Quality Benefits of Public Trees by Species

8/30/2011

Species	Deposition (lb)				Total Depos. (\$)	Avoided (lb)				Total Avoided (\$)	BYOC Emissions (lb)	BYOC Emissions (\$)	Total (lb)	Total Standard (\$) Error	% of Total Trees	Avg. \$/tree
	O ₃	NO ₂	PM ₁₀	SO ₂		NO ₂	PM ₁₀	VOC	SO ₂							
Norway maple	302.2	26.8	113.0	0.0	272	69.8	5.0	3.6	0.5	41	-109.9	-15	411.1	297 (N/A)	18.2	0.47
Gallery pear	30.2	2.9	12.1	0.0	28	9.1	0.7	0.5	0.1	5	0.0	0	55.4	33 (N/A)	7.3	0.13
Black locust	129.8	14.2	56.2	0.0	125	24.8	1.8	1.3	0.2	14	-140.8	-20	87.4	120 (N/A)	7.2	0.48
Honeylocust	57.0	5.4	22.9	0.0	53	10.5	0.8	0.5	0.1	6	-43.6	-6	53.6	53 (N/A)	5.7	0.27
Red maple	23.7	2.1	8.9	0.0	21	7.6	0.5	0.4	0.1	4	-9.7	-1	33.5	24 (N/A)	5.4	0.13
Plum	29.0	2.8	11.6	0.0	27	9.8	0.7	0.5	0.1	6	-0.4	0	54.1	33 (N/A)	5.2	0.18
Littleleaf linden	68.0	7.4	29.4	0.0	66	10.8	0.8	0.6	0.1	6	-26.2	-4	90.9	68 (N/A)	-4.2	0.46
Maple	29.2	2.8	11.7	0.0	27	8.8	0.6	0.5	0.1	5	-15.3	-2	38.4	30 (N/A)	3.9	0.22
Horsechestnut	54.9	4.9	20.5	0.0	49	0.0	0.0	0.0	0.0	0	-20.0	-3	60.3	47 (N/A)	3.2	0.42
Smooth hawthorn	14.8	1.4	6.0	0.0	14	5.2	0.4	0.3	0.0	3	-0.3	-2	27.7	17 (N/A)	2.4	0.20
Silver maple	31.3	3.0	12.6	0.0	29	7.4	0.5	0.4	0.1	4	-17.0	-2	38.2	31 (N/A)	2.3	0.38
Sycamore maple	36.4	3.2	13.6	0.0	33	8.5	0.6	0.4	0.1	5	-13.3	-2	49.5	36 (N/A)	2.3	0.45
Siberian elm	31.3	3.0	12.6	0.0	29	6.5	0.5	0.3	0.0	4	0.0	0	54.2	33 (N/A)	2.2	0.43
Crabapple	7.3	0.7	2.9	0.0	7	2.5	0.2	0.1	0.0	1	-0.1	0	13.7	8 (N/A)	1.9	0.13
Green ash	10.1	1.1	4.4	0.0	10	1.9	0.1	0.1	0.0	1	0.0	0	17.7	11 (N/A)	1.7	0.19
Blue spruce	15.0	1.6	6.5	0.0	14	2.1	0.2	0.1	0.0	1	-77.9	-11	-52.3	5 (N/A)	1.6	0.09
Douglas fir	23.6	2.6	10.2	0.0	23	3.2	0.2	0.2	0.0	2	-155.6	-22	-115.7	3 (N/A)	1.6	0.05
European hornbeam	6.7	0.6	2.5	0.0	6	0.0	0.0	0.0	0.0	0	-2.7	0	7.1	6 (N/A)	1.5	0.11
Hawthorn	6.7	0.6	2.7	0.0	6	2.4	0.2	0.1	0.0	1	-0.1	0	12.6	8 (N/A)	1.2	0.18
Ash	0.4	0.0	0.2	0.0	0	0.1	0.0	0.0	0.0	0	0.0	0	0.7	0 (N/A)	1.2	0.01
Northern red oak	19.4	1.8	7.8	0.0	18	4.0	0.3	0.2	0.0	2	-48.7	-7	-15.3	13 (N/A)	1.2	0.32
Sargent cherry	7.6	0.7	3.1	0.0	7	2.5	0.2	0.1	0.0	1	-0.1	0	14.1	8 (N/A)	1.2	0.21
Pin oak	12.0	1.1	4.8	0.0	11	3.3	0.2	0.2	0.0	2	-26.2	-4	-4.5	9 (N/A)	1.0	0.27
OTHER STREET TREES	183.9	18.5	75.7	0.0	173	30.3	2.2	1.6	0.2	18	-227.8	-32	84.7	159 (N/A)	16.4	0.28
Citywide total	1,130.4	109.2	451.9	0.0	1,048	231.0	16.6	12.1	1.7	135	-935.7	-131	1,017.1	1,052 (N/A)	100.0	0.30

Spokane

Annual Stormwater Benefits of Public Trees by Species

8/30/2011

Species	Total rainfall interception (Gal)	Total (\$)	Standard Error	% of Total Trees	% of Total \$	Avg. \$/tree
Norway maple	860,524	4,303	(N/A)	18.2	29.1	6.82
Callery pear	102,313	512	(N/A)	7.3	3.5	2.02
Black locust	62,600	313	(N/A)	7.2	2.1	1.25
Honeylocust	168,366	842	(N/A)	5.7	5.7	4.27
Red maple	67,426	337	(N/A)	5.4	2.3	1.81
Plum	23,198	116	(N/A)	5.2	0.8	0.65
Littleleaf linden	141,490	708	(N/A)	4.3	4.8	4.81
Maple	77,333	387	(N/A)	3.9	2.6	2.86
Horsechestnut	156,367	782	(N/A)	3.2	5.3	6.98
Smooth hawthorn	44,048	220	(N/A)	2.4	1.5	2.65
Silver maple	82,981	415	(N/A)	2.3	2.8	5.12
Sycamore maple	103,583	518	(N/A)	2.3	3.5	6.56
Siberian elm	133,657	668	(N/A)	2.2	4.5	8.79
Crabapple	5,852	29	(N/A)	1.9	0.2	0.46
Green ash	16,075	80	(N/A)	1.7	0.5	1.39
Blue spruce	104,045	520	(N/A)	1.6	3.5	9.63
Douglas fir	174,927	875	(N/A)	1.6	5.9	16.20
European hornbeam	19,030	95	(N/A)	1.5	0.6	1.83
Hawthorn	19,935	100	(N/A)	1.2	0.7	2.37
Ash	647	3	(N/A)	1.2	0.0	0.08
Northern red oak	50,058	250	(N/A)	1.2	1.7	5.96
Sargent cherry	6,082	30	(N/A)	1.2	0.2	0.76
Pin oak	31,095	155	(N/A)	1.0	1.1	4.44
OTHER STREET TREES	507,773	2,539	(N/A)	16.4	17.2	4.48
Citywide total	2,959,406	14,798	(N/A)	100.0	100.0	4.28

Spokane

Annual Aesthetic/Other Benefits of Public Trees by Species

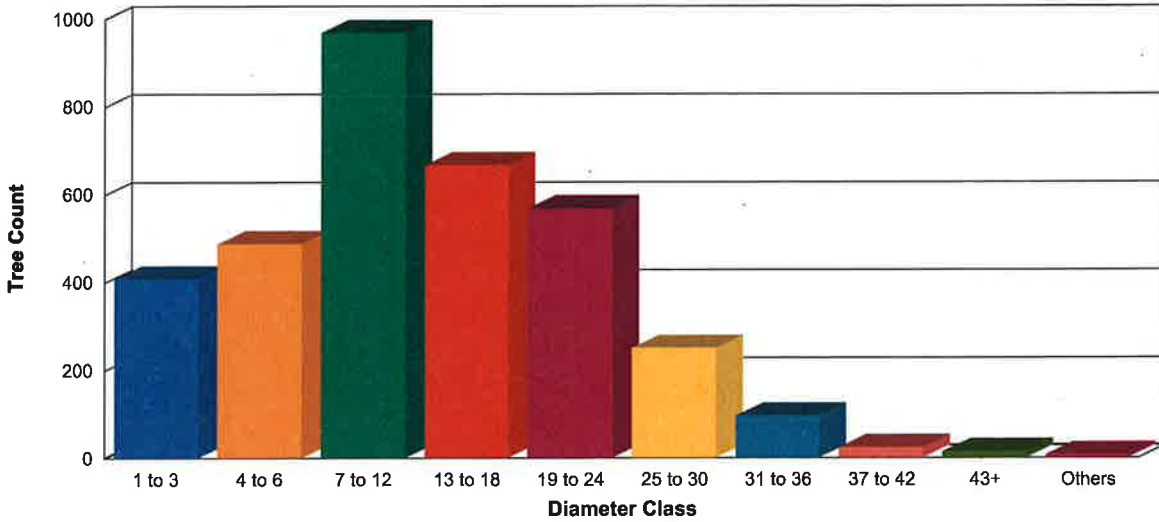
8/30/2011

Species	Total (\$)	Standard Error	% of Total Trees	% of Total \$	Avg. \$/tree
Norway maple	13,066	(N/A)	18.2	16.6	20.71
Callery pear	6,921	(N/A)	7.3	8.8	27.36
Black locust	3,767	(N/A)	7.2	4.8	15.07
Honeylocust	7,375	(N/A)	5.7	9.3	37.44
Red maple	4,999	(N/A)	5.4	6.3	26.88
Plum	2,788	(N/A)	5.2	3.5	15.57
Littleleaf linden	2,753	(N/A)	4.3	3.5	18.73
Maple	4,533	(N/A)	3.9	5.7	33.58
Horsechestnut	2,443	(N/A)	3.2	3.1	21.81
Smooth hawthorn	603	(N/A)	2.4	0.8	7.26
Silver maple	2,951	(N/A)	2.3	3.7	36.43
Sycamore maple	1,585	(N/A)	2.3	2.0	20.07
Siberian elm	3,260	(N/A)	2.2	4.1	42.89
Crabapple	814	(N/A)	1.9	1.0	12.72
Green ash	1,227	(N/A)	1.7	1.6	21.15
Blue spruce	921	(N/A)	1.6	1.2	17.05
Douglas fir	741	(N/A)	1.6	0.9	13.73
European hornbeam	1,177	(N/A)	1.5	1.5	22.64
Hawthorn	340	(N/A)	1.2	0.4	8.08
Ash	308	(N/A)	1.2	0.4	7.34
Northern red oak	1,392	(N/A)	1.2	1.8	33.15
Sargent cherry	555	(N/A)	1.2	0.7	13.88
Pin oak	1,355	(N/A)	1.0	1.7	38.71
OTHER STREET TREES	13,072	(N/A)	16.4	16.6	23.06
Citywide total	78,946	(N/A)	100.0	100.0	22.82

Diameter Distribution

Logan Neighborhood - inventory data 08.30.2011

Report universe: All Subset

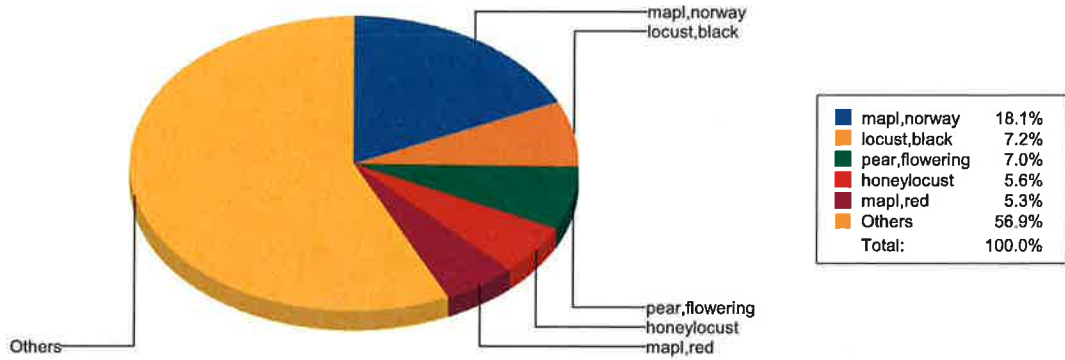


Diameter Class	Percent	Count
1 to 3	11.7%	409
4 to 6	14.0%	488
7 to 12	27.7%	969
13 to 18	19.1%	667
19 to 24	16.3%	569
25 to 30	7.2%	250
31 to 36	2.7%	96
37 to 42	0.7%	24
43+	0.4%	15
Others	0.2%	7
Total		3,494

Species Distribution

Logan Neighborhood - inventory data 08.30.2011

Report universe: All Subset



Top 20 Species

Species	Percent	Count
mapl,norway	18.1%	631
locust,black	7.2%	250
pear,flowering	7.0%	243
honeylocust	5.6%	197
mapl,red	5.3%	186
linden,littleleaf	4.2%	147
horsechestnut	3.2%	112
hawthorn,english	2.4%	83
mapl,silver	2.3%	81
mapl,sycamore	2.3%	79
elm,siberian	2.2%	76
mapl,freeman	2.0%	71
crabapple spp	1.8%	63
ash,green	1.7%	58
plum,cher thndrcl	1.6%	55
douglas fir	1.5%	54
spruce,colorado	1.5%	54
cherry,sarg colmn	1.3%	44
oak,red	1.2%	42
mapl,nwy crmsn kg	1.2%	41
Others_	26.5%	927
Total		3,494

Species Detail

Logan Neighborhood - inventory data 08.30.2011

Report universe:	All <input type="checkbox"/>	Subset <input checked="" type="checkbox"/>			Average			
Rank	Percent	Common Name	Botanic Name	Condition	Diameter	Tree Count		
1	18.1%	maple, norway	acer platanoides		67	18		
2	7.2%	locust, black	robinia pseudoacacia		55	23		
3	7.0%	pear, flowering	pyrus calleryana		68	7		
4	5.6%	honeylocust	gleditsia triacanthos		70	9		
5	5.3%	maple, red	acer rubrum		70	7		
6	4.2%	linden, littleleaf	tilia cordata		70	14		
7	3.2%	horsechestnut	aesculus hippocastanum		68	19		
8	2.4%	hawthorn, english	crataegus laevigata		62	12		
9	2.3%	maple, silver	acer saccharinum		63	15		
10	2.3%	maple, sycamore	acer pseudoplatanus		66	18		
11	2.2%	elm, siberian	ulmus pumila		52	20		
12	2.0%	maple, freeman	acer freemanii		69	8		
13	1.8%	crabapple species	malus species		68	7		
14	1.7%	ash, green	fraxinus pennsylvanica		71	6		
15	1.6%	plum, cherry thundercloud	prunus cerasifera thundercl		66	9		
16	1.5%	douglas fir	pseudotsuga menziesii		69	24		
17	1.5%	spruce, colorado	picea pungens		69	15		
18	1.3%	cherry, columnar sargent	prunus sargentii columnar		65	9		
19	1.2%	oak, red	quercus rubra		79	13		
20	1.2%	maple, norway crimson king	acer platanoides crimson kn		66	12		
21	1.1%	cherry, sargent	prunus sargentii		65	12		
22	1.1%	hornbeam, european	carpinus betulus		69	7		
23	1.0%	oak, pin	quercus palustris		75	12		
24	0.9%	cherry	prunus cerasus		61	12		
25	0.9%	hawthorn, lavalle	crataegus x lavallei		60	11		
26	0.9%	ash, leprachaun ash	farxinus pennsylvanica lepra		66	2		
27	0.9%	ash, white	fraxinus americana		75	7		
28	0.8%	london planetree	platanus acerifolia		72	22		
29	0.7%	birch, european white	betula pendula		52	12		
30	0.7%	linden, american	tilia americana		76	14		
31	0.6%	maple, sugar	acer saccharum		65	17		
32	0.6%	catalpa, northern	catalpa speciosa		67	22		
33	0.6%	mountain ash, european	sorbus aucuparia		61	14		
34	0.5%	maple, boxelder	acer negundo		49	16		
35	0.5%	spruce, norway	picea abies		69	17		
36	0.5%	sweetgum, american	liquidambar styraciflua		71	7		
37	0.5%	maple, freeman armstrong	acer freemanii armstrong		59	11		
38	0.4%	hazelnut, turkish	corylus colurna		68	6		

Rank	Percent	Common Name	Botanic Name	Condition	Average Diameter	Tree Count
39	0.4%	cherry, yoshino	prunus yedoensis	71	3	14
40	0.4%	cottonwood, black	populus trichocarpa	63	26	14
41	0.4%	hornbeam, european fastigi:	carpinus betulus fastigata	76	6	14
42	0.4%	aspen, quaking	populus tremulooides	52	9	13
43	0.4%	birch, paper	betula papyrifera	65	10	13
44	0.4%	cherry, black	prunus serotina	64	16	13
45	0.4%	elm, american	ulmus americana	67	20	13
46	0.4%	tupelo, black	nyssa sylvatica	75	3	13
47	0.3%	oak, bur	quercus macrocarpa	87	5	12
48	0.3%	cedar, western red	thuja plicata	70	13	11
49	0.3%	tree of heaven	ailanthus altissima	67	25	11
50	0.3%	tuliptree	liriodendron tulipifera	81	7	11
51	0.3%	ash, white autumn purple	fraxinus americana autmn p	87	2	10
52	0.3%	dogwood	cornus species	70	4	10
53	0.3%	oak, swamp white	quercus bicolor	76	8	10
54	0.3%	walnut, english	juglans regia	70	11	10
55	0.3%	arborvitae, eastern	thuja occidentalis	73	5	9
56	0.3%	hackberry, common	celtis occidentalis	74	6	9
57	0.3%	linden, silver sterling silver	tilia tomentosa sterling slv	75	5	9
58	0.3%	oak, shingle	quercus imbricaria	76	6	9
59	0.3%	pine, ponderosa	pinus ponderosa	77	9	9
60	0.3%	pine, scotch	pinus sylvestris	67	14	9
61	0.2%	chokecherry, amur	prunus maacki	68	7	8
62	0.2%	plum species	prunus species	62	6	8
63	0.2%	fir, white	abies concolor	70	22	7
64	0.2%	poplar, lombardy	populus nigra	68	12	7
65	0.2%	beech, european	fagus sylvatica	79	3	6
66	0.2%	hawthorn	crataegus species	56	5	6
67	0.2%	lilac	syringa species	80	0	6
68	0.2%	unknown	unknown	50	4	6
69	0.1%	apricot	prunus armeniaca	57	7	5
70	0.1%	ash, european	fraxinus excelsior	66	3	5
71	0.1%	ginkgo	gingko biloba	75	3	5
72	0.1%	magnolia	magnolia species	42	7	5
73	0.1%	poplar, white	populus alba	53	11	5
74	0.1%	walnut, black	juglans nigra	69	22	5
75	0.1%	zelkova, japanese	zelkova serrata	70	7	5
76	0.1%	butternut	juglans cinerea	69	19	4
77	0.1%	cottonwood, eastern	populus deltoides	60	2	4
78	0.1%	elm, accolade	ulmus japonica x wilson 'mo	80	4	4
79	0.1%	hawthorn, downy	crataegus molis	80	7	4
80	0.1%	horsechestnut, red	aesculus carnea	69	11	4
81	0.1%	maple, amur	acer ginnala	70	12	4
82	0.1%	maple, red columnar	acer rubrum columnar	80	11	4
83	0.1%	mulberry	morus species	63	22	4

Rank	Percent	Common Name	Botanic Name	Condition	Average Diameter	Tree Count
84	0.1%	oak, english	quercus robur	71	9	4
85	0.1%	pear, flowering bradford	pyrus calleryana bradford	74	5	4
86	0.1%	goldenchain tree	laburnum x watereri	77	3	3
87	0.1%	hophornbeam	ostrea virginiana	70	4	3
88	0.1%	oak, english columnar	quercus robur columnar	75	2	3
89	0.1%	oak, scarlet	quercus coccinea	83	9	3
90	0.1%	pine, austrian	pinus nigra	67	12	3
91	0.1%	plum, cherry or purple leaf	prunus cerasifera	68	6	3
92	0.1%	yellowwood, american	cladrastis lutea	78	5	3
93	0.1%	birch, japanese white whites	betula platyphylla	48	23	2
94	0.1%	birch, river	betula nigra heritage	68	7	2
95	0.1%	birch, river heritage	betula nigra	70	46	2
96	0.1%	cherry, european bird	prunus padus	70	7	2
97	0.1%	cherry, weeping higan	prunus subhirtella pendula	70	6	2
98	0.1%	dogwood, corneliancherry	cornus mas	75	3	2
99	0.1%	fir, noble	abies procera	70	13	2
100	0.1%	hazelnut, american	corylus americana	65	11	2
101	0.1%	honeylocust sunburst	gleadsia triacanthos sunbur	75	5	2
102	0.1%	katsuratree	cercidiphyllum japonicum	70	9	2
103	0.1%	lilac, japanese tree	syringa reticulata	70	2	2
104	0.1%	maple, japanese	acer palmatum	68	6	2
105	0.1%	oak species	quercus species	70	2	2
106	0.1%	forest green oak	quercus frainetto	85	7	2
107	0.1%	pear	pyrus species	70	3	2
108	0.1%	pear, dwarf anjou	pyrus calleryana dwarf anjou	70	7	2
109	0.1%	pear, flowering chanticlear	pyrus calleryana chanticlear	75	2	2
110	0.1%	pine, limber	pinus flexilis	70	3	2
111	0.1%	japanese pogodatree	sophora japonica	70	7	2
112	0.1%	redbud, eastern	cercis canadensis	65	6	2
113	0.1%	willow	salix species	60	11	2
114	0.0%	apple	malus species apple	70	6	1
115	0.0%	ash, green patmore	fraxinus pennsylvanica patm	85	3	1
116	0.0%	ash, manchurian	fraxinus mandshurica	85	3	1
117	0.0%	chokecherry	prunus virginiana	70	16	1
118	0.0%	dogwood, flowering	cornus florida	70	8	1
119	0.0%	elm species	ulmus species	0	2	1
120	0.0%	elm, lacebark	ulmus parvifolia	70	6	1
121	0.0%	fir, balsam	abies balsamea	85	2	1
122	0.0%	fir, grand	abies grandis	75	19	1
123	0.0%	japanese pagodatree	styphnolobium japonicum	70	11	1
124	0.0%	juniper, rocky mountain	juniperus scopulorum	70	4	1
125	0.0%	magnolia, saucer	magnolia x soulangiana	70	32	1
126	0.0%	maple, hedge	acer campestre	70	19	1
127	0.0%	maple, paperbark	acer griseum	70	1	1
128	0.0%	parrotia, persian	parrotia persica	70	3	1

Rank	Percent	Common Name	Botanic Name	Condition	Average Diameter	Tree Count
129	0.0%	pine, bristlecone	pinus aristata	70	4	1
130	0.0%	pine, mugo	pinus mugo	65	28	1
131	0.0%	silver bell, carolina	halesia tetraptera	70	4	1
132	0.0%	smoketree, purple	cotinus coggygia 'purpurea'	85	16	1
133	0.0%	yellowwood, kentucky	cladrastis kentukea	85	3	1
Totals				67	13	3,494

Monthly Report – September 20th, 2011

Administration

1. Preliminary findings of the Logan Neighborhood Pilot Project delivered September 14th.
 - a. Number of public trees: 3494
 - b. Total Asset Value: \$14, 561,050
 - c. Total Annual benefits: \$150,322 (\$53,964 as energy savings, \$1562 in CO₂ sequestered, \$14,798 in stormwater mitigation, and \$78,946 in aesthetic/property value.)

Education & Outreach

2. Presented NeighborWoods program and answered UF questions at the Nevada-Lidgerwood neighborhood council meeting on September 14th.
3. [NeighborWoods Month Workshop Series](#)
 - a. **Low Impact Development or LID.** *Saturday, October 8, 10am -12pm, at Spokane Conservation District.* Presented by AHBL, Len Zickler and Alex Mann.
 - b. **Urban Ecology & Native Tree Species in the Urban Landscape.** *Saturday, October 15, 9am-11am at Finch Arboretum.* Kat Hall of The Lands Council, presenter.
 - c. **Proper Tree Planting.** *Saturday, October 22, 9:30am-11:30am at Finch Arboretum.* City Arborist Jeff Perry, presenter.
 - d. **Volunteers In Pruning (VIP) Training.** *Saturday, October 29, 9am-12pm at Spokane Conservation District.* Garth Davis, District Forester, presenter.

Training

4. Jeff perry and Mike Sanborn have spent 2 weeks participating in a tree inventory and assessment intensive training.
5. Angel Spell and Johnna Woodruff attended a Continuous Improvement 101 training session on September 14th.

Plan Review & City Projects

6. Developed a new work flow for Pre-Dev conferences, plan review, and Pre-Con conferences using Beth Mort as the staff contact person.
7. Participated in Division Street Gateway Project conference call.
8. Meetings with Engineering Services regarding 2012 street and sidewalk projects.

Partnerships

9. Reforest Spokane Day – 10,000 Ponderosa pine trees planted by 500 volunteers in 1 day – scheduled for Saturday, October 22nd. To volunteer please visit www.landscouncil.org.
10. The Lands Council will launch *Urban Branches Spokane* as their UF donation vehicle. We expect their promotional package to emerge in October.

Operations

11. Operations report deferred to October.