

# Leaf Area and Biomass for Shrubs in Edmonton by Land Use

Series: Circles, Time Period: 2009

		Density				Total			
		Leaf Area (m2/ha)		Leaf Biomass (kg/ha)		Leaf Area (km2)		Leaf Biomass (mt)	
Land Use	Species	Val	SE	Val	SE	Val	SE	Val	SE
Ag/Urban Res.	Western service berry	725.35	693.29	72.53	69.33	18.01	17.22	1,801.27	1,721.66
	Common lilac	25.05	25.04	2.42	2.42	0.62	0.62	60.00	59.99
	Northern white cedar	31.78	29.62	6.11	5.70	0.79	0.74	151.76	141.45
	Mountain alder	82.72	82.71	6.14	6.14	2.05	2.05	152.60	152.58
	Honeysuckle	147.47	92.08	7.26	4.54	3.66	2.29	180.40	112.65
	European cranberry bush	58.61	45.97	4.35	3.41	1.46	1.14	108.13	84.80
	Siberian pea tree	265.36	186.10	19.71	13.82	6.59	4.62	489.53	343.31
	Other species	224.50	204.17	16.68	15.17	5.57	5.07	414.15	376.65
	Sweet mountain pine	18.85	17.97	1.82	1.73	0.47	0.45	45.11	43.01
	Pine	7.10	7.10	0.68	0.68	0.18	0.18	17.00	17.00
	Red osier dogwood	186.06	133.10	10.65	7.62	4.62	3.31	264.40	189.14
	Beaked hazlenut	123.84	89.08	8.60	6.19	3.08	2.21	213.57	153.62
	Prickly rose	107.33	48.14	7.97	3.58	2.67	1.20	198.01	88.80
	Dogwood	40.37	31.75	2.35	1.85	1.00	0.79	58.46	45.98
	American red raspberry	29.74	26.92	1.11	1.00	0.74	0.67	27.55	24.94
	Juniper	28.07	14.71	7.80	4.09	0.70	0.37	193.61	101.48
	Pea tree	19.22	19.22	1.43	1.43	0.48	0.48	35.46	35.46
	Rugosa rose	9.03	9.03	0.67	0.67	0.22	0.22	16.67	16.66
	Artemesia	7.17	4.80	0.53	0.36	0.18	0.12	13.23	8.86
	Squashberry	5.52	5.52	0.41	0.41	0.14	0.14	10.19	10.19
Commercial	Spiraea	4.56	4.29	0.34	0.32	0.11	0.11	8.41	7.92
	Current	2.86	2.86	0.21	0.21	0.07	0.07	5.27	5.27
	Flowering plum	2.31	2.31	0.18	0.18	0.06	0.06	4.44	4.44
	Purpleleaf sand cherry	2.30	2.30	0.18	0.18	0.06	0.06	4.41	4.41
	Common snowberry	1.32	1.32	0.07	0.07	0.03	0.03	1.83	1.83
	Alpine currant	0.93	0.93	0.07	0.07	0.02	0.02	1.71	1.71
	Total	2,157.40	834.18	180.29	76.46	53.58	20.72	4,477.16	1,898.78
	Boxelder	21.26	21.25	1.94	1.94	0.03	0.03	2.97	2.97
	Rocky mountain juniper	465.17	350.94	129.21	97.48	0.71	0.54	197.65	149.11
	Red osier dogwood	321.04	204.47	18.37	11.70	0.49	0.31	28.10	17.90
	Juniper	15.45	15.45	4.29	4.29	0.02	0.02	6.57	6.56
	Common snowberry	139.19	139.17	7.78	7.77	0.21	0.21	11.89	11.89
Industrial	Euonymus	46.98	46.97	3.49	3.49	0.07	0.07	5.34	5.34
	Shrubby cinquefoil	7.83	7.83	0.58	0.58	0.01	0.01	0.89	0.89
	Total	1,016.91	536.12	165.67	107.43	1.56	0.82	253.41	164.33
	Western service berry	52.80	52.80	5.28	5.28	0.58	0.58	58.25	58.24
	Common lilac	1.89	1.89	0.18	0.18	0.02	0.02	2.01	2.01
	Northern white cedar	78.05	74.84	15.01	14.39	0.86	0.83	165.58	158.78
	Honeysuckle	21.17	21.17	1.04	1.04	0.23	0.23	11.50	11.50
	Pin cherry	40.37	40.37	1.95	1.95	0.45	0.45	21.50	21.50
	European cranberry bush	29.74	29.74	2.21	2.21	0.33	0.33	24.38	24.37
	Rocky mountain juniper	26.76	26.75	7.43	7.43	0.30	0.30	81.99	81.98
	Other species	135.94	72.78	10.10	5.41	1.50	0.80	111.41	59.65
	Red osier dogwood	214.29	193.50	12.26	11.07	2.36	2.13	135.28	122.15
	Prickly rose	140.86	122.03	10.46	9.07	1.55	1.35	115.43	100.01
	Dogwood	24.65	24.65	1.44	1.44	0.27	0.27	15.86	15.86
	American red raspberry	57.68	57.67	2.15	2.15	0.64	0.64	23.74	23.74
	Juniper	8.43	8.43	2.34	2.34	0.09	0.09	25.82	25.82
	Rugosa rose	70.05	41.08	5.20	3.05	0.77	0.45	57.41	33.66
	Artemesia	8.88	8.88	0.66	0.66	0.10	0.10	7.28	7.28
	Spiraea	3.72	3.72	0.28	0.28	0.04	0.04	3.05	3.05
	Flowering plum	29.60	21.87	2.29	1.69	0.33	0.24	25.27	18.67
	Common snowberry	50.11	37.48	2.80	2.09	0.55	0.41	30.88	23.10
	Shrubby cinquefoil	0.51	0.51	0.04	0.04	0.01	0.01	0.42	0.42
	Silverberry	55.06	55.05	4.09	4.09	0.61	0.61	45.12	45.12
	Wild hydrangea	17.23	17.23	1.28	1.28	0.19	0.19	14.12	14.12
	Rose	3.73	3.73	0.28	0.28	0.04	0.04	3.06	3.06
	Barberry	2.05	2.05	0.15	0.15	0.02	0.02	1.68	1.68



		Density				Total			
		Leaf Area (m2/ha)		Leaf Biomass (kg/ha)		Leaf Area (km2)		Leaf Biomass (mt)	
Land Use	Species	Val	SE	Val	SE	Val	SE	Val	SE
	Total	1,073.56	515.78	88.93	38.48	11.84	5.69	981.02	424.52
Park	Northern white cedar	17.93	17.93	3.45	3.45	0.13	0.13	24.61	24.61
	Spruce	2.53	2.53	0.43	0.43	0.02	0.02	3.07	3.07
	European cranberry bush	1,304.87	1,304.74	96.94	96.93	9.31	9.31	691.66	691.59
	Rocky mountain juniper	16.15	16.15	4.49	4.49	0.12	0.12	32.01	32.01
	Red elderberry	41.27	41.27	3.07	3.07	0.29	0.29	21.88	21.88
	Other species	19.04	18.59	1.41	1.38	0.14	0.13	10.09	9.85
	Red osier dogwood	1,385.72	1,269.96	79.30	72.67	9.89	9.06	565.81	518.54
	Prickly rose	150.90	138.41	11.21	10.28	1.08	0.99	79.99	73.37
	American red raspberry	150.00	149.98	5.60	5.60	1.07	1.07	39.94	39.93
	Juniper	24.53	22.25	6.81	6.18	0.18	0.16	48.62	44.11
	Spiraea	2.73	2.15	0.20	0.16	0.02	0.02	1.45	1.14
	Flowering plum	16.11	15.73	1.25	1.22	0.11	0.11	8.90	8.69
	Common snowberry	10.70	10.70	0.60	0.60	0.08	0.08	4.27	4.27
	Mockorange	37.15	37.14	2.76	2.76	0.27	0.27	19.69	19.69
	Wild mock orange	26.62	26.62	1.98	1.98	0.19	0.19	14.11	14.11
	Shiny cotoneaster	17.97	17.96	1.33	1.33	0.13	0.13	9.52	9.52
	Total	3,224.24	2,567.02	220.82	168.95	23.01	18.32	1,575.61	1,205.50
Residential	Quaking aspen	7.97	7.97	0.63	0.63	0.15	0.15	12.07	12.06
	Willow	169.68	169.66	10.47	10.47	3.26	3.26	201.30	201.28
	Western service berry	134.58	98.42	13.46	9.84	2.59	1.89	258.65	189.16
	Common lilac	119.60	63.12	11.54	6.09	2.30	1.21	221.73	117.02
	Northern white cedar	48.36	48.36	9.30	9.30	0.93	0.93	178.74	178.73
	Common chokecherry	18.89	18.89	1.46	1.46	0.36	0.36	28.15	28.15
	Mountain alder	260.85	172.77	19.38	12.83	5.01	3.32	372.43	246.67
	Honeysuckle	11.30	11.30	0.56	0.56	0.22	0.22	10.70	10.70
	Spruce	0.58	0.47	0.10	0.08	0.01	0.01	1.89	1.55
	European cranberry bush	426.29	409.18	31.67	30.40	8.19	7.86	608.63	584.21
	Rocky mountain juniper	75.45	57.54	20.96	15.98	1.45	1.11	402.81	307.19
	Red elderberry	37.11	37.10	2.76	2.76	0.71	0.71	52.98	52.98
	Siberian pea tree	261.74	241.05	19.44	17.91	5.03	4.63	373.71	344.16
	Other species	87.54	37.86	6.50	2.81	1.68	0.73	124.98	54.06
	Sweet mountain pine	14.41	12.05	1.39	1.16	0.28	0.23	26.70	22.32
	Pine	5.84	5.83	0.56	0.56	0.11	0.11	10.81	10.81
	Red osier dogwood	653.01	375.13	37.37	21.47	12.55	7.21	718.20	412.58
	Prickly rose	438.19	184.55	32.55	13.71	8.42	3.55	625.63	263.49
	Dogwood	32.49	32.49	1.89	1.89	0.62	0.62	36.42	36.41
	American red raspberry	320.92	166.79	11.97	6.22	6.17	3.21	230.15	119.62
	Juniper	32.69	18.16	9.08	5.04	0.63	0.35	174.54	96.93
	Rugosa rose	4.43	4.43	0.33	0.33	0.09	0.09	6.33	6.33
	Artemesia	14.96	10.72	1.11	0.80	0.29	0.21	21.35	15.30
	Spiraea	26.22	13.70	1.95	1.02	0.50	0.26	37.44	19.56
	Flowering plum	10.10	10.10	0.78	0.78	0.19	0.19	15.01	15.01
	Purpleleaf sand cherry	6.93	6.85	0.54	0.53	0.13	0.13	10.31	10.19
	Common snowberry	16.46	9.80	0.92	0.55	0.32	0.19	17.67	10.52
	Alpine currant	42.51	38.01	3.16	2.82	0.82	0.73	60.70	54.27
	Euonymus	6.52	6.52	0.48	0.48	0.13	0.13	9.31	9.31
	Shrubby cinquefoil	24.30	15.84	1.81	1.18	0.47	0.30	34.69	22.62
	Rose	1.07	1.07	0.08	0.08	0.02	0.02	1.52	1.52
	Shiny cotoneaster	22.71	22.71	1.69	1.69	0.44	0.44	32.42	32.42
	Red cedar	53.07	53.07	10.21	10.21	1.02	1.02	196.17	196.15
	Common ninebark	52.14	28.18	3.87	2.09	1.00	0.54	74.44	40.24
	Cinquefoil	27.83	27.83	2.07	2.07	0.53	0.53	39.74	39.73
	False spiraea	7.20	7.20	0.54	0.54	0.14	0.14	10.29	10.29
	Twinberry honeysuckle	4.59	3.69	0.23	0.18	0.09	0.07	4.35	3.50
	Rhododendron	1.24	0.98	0.25	0.20	0.02	0.02	4.77	3.76
	Forsythia	0.67	0.67	0.05	0.05	0.01	0.01	0.96	0.96
	Viburnum	0.40	0.40	0.03	0.03	0.01	0.01	0.57	0.57
	Total	3,480.84	956.71	273.12	66.88	66.90	18.39	5,249.25	1,285.42
Institutional	Honeysuckle	155.25	155.23	7.65	7.65	0.38	0.38	18.93	18.93
	Red elderberry	897.80	897.68	66.69	66.69	2.22	2.22	165.07	165.05

		Density				Total			
		Leaf Area (m2/ha)		Leaf Biomass (kg/ha)		Leaf Area (km2)		Leaf Biomass (mt)	
Land Use	Species	Val	SE	Val	SE	Val	SE	Val	SE
	Other species	39.25	39.25	2.92	2.92	0.10	0.10	7.22	7.22
	Red osier dogwood	30.41	30.41	1.74	1.74	0.08	0.08	4.31	4.31
	Prickly rose	42.72	42.71	3.17	3.17	0.11	0.11	7.85	7.85
	American red raspberry	71.90	71.89	2.68	2.68	0.18	0.18	6.64	6.64
	Spiraea	22.02	22.02	1.64	1.64	0.05	0.05	4.05	4.05
	Common ninebark	22.02	22.02	1.64	1.64	0.05	0.05	4.05	4.05
	Common juniper	49.95	49.94	13.88	13.87	0.12	0.12	34.34	34.34
	Total	1,331.32	1,192.73	102.00	81.93	3.29	2.95	252.45	202.77
CITY TOTAL	Total	2,288.70	483.39	182.74	37.69	160.17	33.83	12,788.91	2,638.04





# Leaf Area and Biomass for Trees and Shrubs in Edmonton by Land Use

Series: Circles, Time Period: 2009

		Density				Total			
		Leaf Area (m2/ha)		Leaf Biomass (kg/ha)		Leaf Area (km2)		Leaf Biomass (mt)	
Land Use	Species	Val	SE	Val	SE	Val	SE	Val	SE
Ag/Urban Res.	Quaking aspen	321.49	166.43	25.31	13.10	7.98	4.13	628.64	325.43
	Balsam poplar	339.10	174.10	24.47	12.56	8.42	4.32	607.59	311.94
	White spruce	150.89	76.64	24.24	12.31	3.75	1.90	601.94	305.74
	Blue spruce	288.02	164.61	48.86	27.93	7.15	4.09	1,213.46	693.52
	American mountain ash	19.77	11.42	1.57	0.91	0.49	0.28	38.97	22.52
	Tamarack	0.66	0.66	0.03	0.03	0.02	0.02	0.76	0.76
	Willow	3.96	3.79	0.24	0.23	0.10	0.09	6.07	5.82
	Boxelder	76.65	44.15	7.01	4.04	1.90	1.10	174.13	100.30
	Western service berry	731.45	693.34	73.14	69.33	18.16	17.22	1,816.43	1,721.79
	Paper birch	22.02	18.50	1.54	1.29	0.55	0.46	38.25	32.13
	Green ash	136.04	97.46	8.87	6.36	3.38	2.42	220.34	157.85
	American elm	172.44	141.16	12.54	10.27	4.28	3.51	311.44	254.94
	Common lilac	39.81	27.25	3.84	2.63	0.99	0.68	95.36	65.28
	Northern white cedar	41.38	30.33	7.96	5.83	1.03	0.75	197.60	144.86
	Crabapple	26.52	25.17	2.29	2.17	0.66	0.63	56.78	53.89
	Common chokecherry	50.13	35.44	3.89	2.75	1.24	0.88	96.49	68.23
	Lodgepole pine	22.59	22.59	4.34	4.34	0.56	0.56	107.89	107.88
	Gray poplar	0.66	0.66	0.05	0.05	0.02	0.02	1.18	1.18
	Canada plum	4.72	4.71	0.36	0.36	0.12	0.12	9.06	9.06
	Scotch pine	10.49	10.49	1.01	1.01	0.26	0.26	25.10	25.10
	Mountain alder	82.72	82.71	6.14	6.14	2.05	2.05	152.60	152.58
	Siberian crabapple	3.66	3.66	0.32	0.32	0.09	0.09	7.84	7.83
	Honeysuckle	147.47	92.08	7.26	4.54	3.66	2.29	180.40	112.65
	Pin cherry	3.34	3.34	0.16	0.16	0.08	0.08	4.00	4.00
	Japanese tree lilac	2.43	2.43	0.23	0.23	0.06	0.06	5.82	5.82
	European cranberry bush	58.61	45.97	4.35	3.41	1.46	1.14	108.13	84.80
	Rocky mountain juniper	2.65	2.65	0.74	0.74	0.07	0.07	18.27	18.27
	Siberian pea tree	265.36	186.10	19.71	13.82	6.59	4.62	489.53	343.31
	Silver maple	0.16	0.16	0.01	0.01			0.21	0.21
	Manzano de flor	13.52	13.52	1.17	1.17	0.34	0.34	28.95	28.95
	Amur chokecherry	1.50	1.50	0.12	0.12	0.04	0.04	2.88	2.88
	Laurel leaved willow	75.54	75.54	4.66	4.66	1.88	1.88	115.80	115.79
	Other species	224.50	204.17	16.68	15.17	5.57	5.07	414.15	376.65
	Sweet mountain pine	18.85	17.97	1.82	1.73	0.47	0.45	45.11	43.01
	Pine	7.10	7.10	0.68	0.68	0.18	0.18	17.00	17.00
	Red osier dogwood	186.06	133.10	10.65	7.62	4.62	3.31	264.40	189.14
	Beaked hazlenut	123.84	89.08	8.60	6.19	3.08	2.21	213.57	153.62
	Prickly rose	107.33	48.14	7.97	3.58	2.67	1.20	198.01	88.80
	Dogwood	40.37	31.75	2.35	1.85	1.00	0.79	58.46	45.98
	American red raspberry	29.74	26.92	1.11	1.00	0.74	0.67	27.55	24.94
	Juniper	28.07	14.71	7.80	4.09	0.70	0.37	193.61	101.48
	Pea tree	19.22	19.22	1.43	1.43	0.48	0.48	35.46	35.46
	Rugosa rose	9.03	9.03	0.67	0.67	0.22	0.22	16.67	16.66
	Artemesia	7.17	4.80	0.53	0.36	0.18	0.12	13.23	8.86
	Squashberry	5.52	5.52	0.41	0.41	0.14	0.14	10.19	10.19
	Spiraea	4.56	4.29	0.34	0.32	0.11	0.11	8.41	7.92
	Current	2.86	2.86	0.21	0.21	0.07	0.07	5.27	5.27
	Flowering plum	2.31	2.31	0.18	0.18	0.06	0.06	4.44	4.44
	Purpleleaf sand cherry	2.30	2.30	0.18	0.18	0.06	0.06	4.41	4.41
	Common snowberry	1.32	1.32	0.07	0.07	0.03	0.03	1.83	1.83
	Alpine currant	0.93	0.93	0.07	0.07	0.02	0.02	1.71	1.71
	Total	3,936.82	1,057.19	358.20	97.11	97.76	26.25	8,895.38	2,411.59
Commercial	Quaking aspen	5.31	5.31	0.42	0.42	0.01	0.01	0.64	0.64
	Balsam poplar	592.53	592.46	42.75	42.75	0.91	0.91	65.40	65.39
	Blue spruce	2.42	2.42	0.41	0.41			0.63	0.63
	American mountain ash	0.77	0.77	0.06	0.06			0.09	0.09
	Boxelder	553.56	535.31	50.64	48.97	0.85	0.82	77.46	74.91
	American elm	82.91	82.90	6.03	6.03	0.13	0.13	9.22	9.22



		Density				Total			
		Leaf Area (m2/ha)		Leaf Biomass (kg/ha)		Leaf Area (km2)		Leaf Biomass (mt)	
Land Use	Species	Val	SE	Val	SE	Val	SE	Val	SE
	Crabapple	21.28	21.28	1.83	1.83	0.03	0.03	2.81	2.81
	Common chokecherry	115.66	115.65	8.97	8.96	0.18	0.18	13.71	13.71
	Lodgepole pine	111.21	79.02	21.39	15.20	0.17	0.12	32.71	23.24
	Gray poplar	61.05	61.05	4.41	4.40	0.09	0.09	6.74	6.74
	Scotch pine	7.94	7.93	0.76	0.76	0.01	0.01	1.17	1.17
	Pin cherry	37.47	37.46	1.81	1.81	0.06	0.06	2.77	2.77
	Rocky mountain juniper	465.17	350.94	129.21	97.48	0.71	0.54	197.65	149.11
	White willow	23.06	23.06	1.42	1.42	0.04	0.04	2.18	2.18
	Pine	8.80	8.80	0.85	0.85	0.01	0.01	1.30	1.30
	Red osier dogwood	321.04	204.47	18.37	11.70	0.49	0.31	28.10	17.90
	Juniper	15.45	15.45	4.29	4.29	0.02	0.02	6.57	6.56
	Common snowberry	139.19	139.17	7.78	7.77	0.21	0.21	11.89	11.89
	Euonymus	46.98	46.97	3.49	3.49	0.07	0.07	5.34	5.34
	Shrubby cinquefoil	7.83	7.83	0.58	0.58	0.01	0.01	0.89	0.89
	Total	2,619.62	1,518.43	305.47	156.42	4.01	2.32	467.26	239.26
Industrial	Quaking aspen	15.87	15.57	1.25	1.23	0.18	0.17	13.79	13.52
	Balsam poplar	150.91	124.47	10.89	8.98	1.66	1.37	120.12	99.07
	White spruce	810.72	378.25	130.24	60.76	8.94	4.17	1,436.74	670.32
	Blue spruce	334.74	246.24	56.79	41.78	3.69	2.72	626.50	460.86
	American mountain ash	48.97	29.94	3.89	2.38	0.54	0.33	42.88	26.21
	Boxelder	109.13	77.88	9.98	7.12	1.20	0.86	110.13	78.60
	Western service berry	53.82	53.82	5.38	5.38	0.59	0.59	59.37	59.37
	Paper birch	9.72	9.72	0.68	0.68	0.11	0.11	7.50	7.50
	Green ash	183.86	123.62	11.99	8.06	2.03	1.36	132.29	88.95
	American elm	66.87	53.26	4.86	3.87	0.74	0.59	53.65	42.73
	Common lilac	100.56	55.37	9.70	5.34	1.11	0.61	107.01	58.92
	Northern white cedar	115.11	77.92	22.14	14.98	1.27	0.86	244.21	165.30
	Crabapple	46.13	30.96	3.98	2.67	0.51	0.34	43.87	29.44
	European aspen	11.89	9.44	0.86	0.68	0.13	0.10	9.46	7.51
	Common chokecherry	16.97	16.97	1.32	1.32	0.19	0.19	14.51	14.51
	Lodgepole pine	110.58	110.57	21.27	21.26	1.22	1.22	234.60	234.58
	Siberian crabapple	21.69	15.33	1.87	1.32	0.24	0.17	20.63	14.58
	Honeysuckle	21.17	21.17	1.04	1.04	0.23	0.23	11.50	11.50
	European white birch	33.18	30.72	1.97	1.82	0.37	0.34	21.74	20.13
	Pin cherry	40.98	40.97	1.98	1.98	0.45	0.45	21.82	21.82
	Cherry	19.01	14.03	1.47	1.09	0.21	0.15	16.23	11.97
	Siberian elm	912.58	644.34	62.16	43.89	10.07	7.11	685.68	484.14
	European bird cherry	69.44	53.41	5.37	4.13	0.77	0.59	59.27	45.58
	Spruce	1.06	0.88	0.18	0.15	0.01	0.01	1.99	1.65
	Jack pine	101.87	101.87	8.49	8.49	1.12	1.12	93.65	93.65
	European cranberry bush	29.74	29.74	2.21	2.21	0.33	0.33	24.38	24.37
	Linden	35.71	35.71	1.66	1.66	0.39	0.39	18.32	18.32
	Rocky mountain juniper	26.76	26.75	7.43	7.43	0.30	0.30	81.99	81.98
	Red elderberry	2.61	2.61	0.19	0.19	0.03	0.03	2.14	2.14
	Littleleaf linden	29.03	29.03	2.17	2.17	0.32	0.32	23.99	23.99
	Other species	135.94	72.78	10.10	5.41	1.50	0.80	111.41	59.65
	Red osier dogwood	214.29	193.50	12.26	11.07	2.36	2.13	135.28	122.15
	Prickly rose	140.86	122.03	10.46	9.07	1.55	1.35	115.43	100.01
	Dogwood	24.65	24.65	1.44	1.44	0.27	0.27	15.86	15.86
	American red raspberry	57.68	57.67	2.15	2.15	0.64	0.64	23.74	23.74
	Juniper	8.43	8.43	2.34	2.34	0.09	0.09	25.82	25.82
	Rugosa rose	70.05	41.08	5.20	3.05	0.77	0.45	57.41	33.66
	Artemesia	8.88	8.88	0.66	0.66	0.10	0.10	7.28	7.28
	Spiraea	3.72	3.72	0.28	0.28	0.04	0.04	3.05	3.05
	Flowering plum	29.60	21.87	2.29	1.69	0.33	0.24	25.27	18.67
	Common snowberry	50.11	37.48	2.80	2.09	0.55	0.41	30.88	23.10
	Shrubby cinquefoil	0.51	0.51	0.04	0.04	0.01	0.01	0.42	0.42
	Silverberry	55.06	55.05	4.09	4.09	0.61	0.61	45.12	45.12
	Wild hydrangea	17.23	17.23	1.28	1.28	0.19	0.19	14.12	14.12
	Rose	3.73	3.73	0.28	0.28	0.04	0.04	3.06	3.06
	Barberry	2.05	2.05	0.15	0.15	0.02	0.02	1.68	1.68



		Density				Total			
		Leaf Area (m2/ha)		Leaf Biomass (kg/ha)		Leaf Area (km2)		Leaf Biomass (mt)	
Land Use	Species	Val	SE	Val	SE	Val	SE	Val	SE
	Total	4,353.48	1,215.30	449.23	125.13	48.03	13.41	4,955.78	1,380.42
Direct/Other	Blue spruce	2.02	2.02	0.34	0.34	0.01	0.01	1.29	1.29
	Total	2.02	2.02	0.34	0.34	0.01	0.01	1.29	1.29
Park	Quaking aspen	39.43	39.42	3.10	3.10	0.28	0.28	22.15	22.15
	Balsam poplar	214.68	141.23	15.49	10.19	1.53	1.01	110.52	72.71
	White spruce	362.65	293.76	58.26	47.19	2.59	2.10	415.68	336.72
	Blue spruce	446.72	238.17	75.79	40.41	3.19	1.70	540.78	288.32
	Willow	8.41	8.41	0.52	0.52	0.06	0.06	3.70	3.70
	Boxelder	360.18	252.75	32.95	23.12	2.57	1.80	235.10	164.98
	Paper birch	520.31	475.31	36.39	33.24	3.71	3.39	259.62	237.17
	Green ash	328.34	155.63	21.42	10.15	2.34	1.11	152.81	72.43
	American elm	1,671.86	1,266.13	121.59	92.08	11.93	9.03	867.59	657.05
	Balm-of-gilead	381.83	303.57	27.55	21.90	2.72	2.17	196.57	156.29
	Common lilac	54.93	31.06	5.30	3.00	0.39	0.22	37.81	21.38
	Northern white cedar	17.93	17.93	3.45	3.45	0.13	0.13	24.61	24.61
	Crabapple	124.31	86.63	10.72	7.47	0.89	0.62	76.46	53.29
	Lodgepole pine	249.42	175.83	47.96	33.81	1.78	1.25	342.24	241.27
	Gray poplar	7.09	7.09	0.51	0.51	0.05	0.05	3.65	3.65
	Canada plum	8.45	8.45	0.65	0.65	0.06	0.06	4.66	4.66
	Mountain alder	5.18	3.88	0.38	0.29	0.04	0.03	2.75	2.06
	Siberian elm	157.25	157.24	10.71	10.71	1.12	1.12	76.42	76.41
	Japanese tree lilac	3.86	3.86	0.37	0.37	0.03	0.03	2.66	2.66
	Spruce	6.14	4.47	1.04	0.76	0.04	0.03	7.44	5.41
	Jack pine	56.46	53.96	4.71	4.50	0.40	0.39	33.57	32.09
	European cranberry bush	1,304.87	1,304.74	96.94	96.93	9.31	9.31	691.66	691.59
	Rocky mountain juniper	16.15	16.15	4.49	4.49	0.12	0.12	32.01	32.01
	Red elderberry	41.27	41.27	3.07	3.07	0.29	0.29	21.88	21.88
	Norway spruce	32.29	32.28	5.38	5.38	0.23	0.23	38.39	38.39
	Other species	19.04	18.59	1.41	1.38	0.14	0.13	10.09	9.85
	Red osier dogwood	1,385.72	1,269.96	79.30	72.67	9.89	9.06	565.81	518.54
	Prickly rose	150.90	138.41	11.21	10.28	1.08	0.99	79.99	73.37
	American red raspberry	150.00	149.98	5.60	5.60	1.07	1.07	39.94	39.93
	Juniper	24.53	22.25	6.81	6.18	0.18	0.16	48.62	44.11
	Spiraea	2.73	2.15	0.20	0.16	0.02	0.02	1.45	1.14
	Flowering plum	16.11	15.73	1.25	1.22	0.11	0.11	8.90	8.69
	Common snowberry	10.70	10.70	0.60	0.60	0.08	0.08	4.27	4.27
	Mockorange	37.15	37.14	2.76	2.76	0.27	0.27	19.69	19.69
	Wild mock orange	26.62	26.62	1.98	1.98	0.19	0.19	14.11	14.11
	Shiny cotoneaster	17.97	17.96	1.33	1.33	0.13	0.13	9.52	9.52
	Total	8,261.48	3,322.49	701.18	238.02	58.95	23.71	5,003.14	1,698.36
Residential	Quaking aspen	690.61	243.07	54.38	19.14	13.27	4.67	1,045.14	367.85
	Balsam poplar	293.04	154.72	21.14	11.16	5.63	2.97	406.36	214.55
	White spruce	464.61	190.17	74.64	30.55	8.93	3.66	1,434.47	587.15
	Aspen	13.78	13.78	0.93	0.93	0.26	0.26	17.89	17.89
	Blue spruce	373.43	169.14	63.36	28.70	7.18	3.25	1,217.67	551.54
	American mountain ash	145.26	111.05	11.53	8.81	2.79	2.13	221.57	169.40
	Tamarack	49.11	49.10	2.27	2.27	0.94	0.94	43.70	43.69
	Willow	325.03	221.52	20.06	13.67	6.25	4.26	385.61	262.81
	Boxelder	93.46	63.32	8.55	5.79	1.80	1.22	164.31	111.33
	Western service berry	144.76	101.38	14.48	10.14	2.78	1.95	278.22	194.85
	Paper birch	45.86	43.56	3.21	3.05	0.88	0.84	61.63	58.55
	Green ash	119.73	67.40	7.81	4.40	2.30	1.30	150.08	84.49
	American elm	283.12	161.27	20.59	11.73	5.44	3.10	395.75	225.43
	Balm-of-gilead	86.89	73.99	6.27	5.34	1.67	1.42	120.49	102.60
	Common lilac	176.60	72.36	17.04	6.98	3.39	1.39	327.41	134.15
	Northern white cedar	55.93	49.03	10.76	9.43	1.07	0.94	206.72	181.22
	Crabapple	52.91	29.96	4.56	2.58	1.02	0.58	87.66	49.64
	Manchu cherry	16.61	15.98	1.29	1.24	0.32	0.31	24.70	23.76
	European aspen	3.38	3.15	0.24	0.23	0.07	0.06	4.69	4.37
	Common chokecherry	57.16	30.70	4.43	2.38	1.10	0.59	85.16	45.73
	Lodgepole pine	47.71	30.82	9.18	5.93	0.92	0.59	176.34	113.92



		Density				Total			
		Leaf Area (m2/ha)		Leaf Biomass (kg/ha)		Leaf Area (km2)		Leaf Biomass (mt)	
Land Use	Species	Val	SE	Val	SE	Val	SE	Val	SE
	Gray poplar	9.17	5.66	0.66	0.41	0.18	0.11	12.72	7.86
	Canada plum	1.52	1.52	0.12	0.12	0.03	0.03	2.26	2.26
	Scotch pine	33.77	33.41	3.25	3.22	0.65	0.64	62.56	61.88
	Mountain alder	264.07	173.19	19.62	12.87	5.08	3.33	377.03	247.27
	Siberian crabapple	7.12	5.45	0.61	0.47	0.14	0.10	11.80	9.03
	Honeysuckle	25.37	18.14	1.25	0.89	0.49	0.35	24.02	17.17
	European white birch	17.72	16.74	1.05	0.99	0.34	0.32	20.22	19.10
	Pin cherry	0.16	0.16	0.01	0.01			0.15	0.15
	Cherry	1.99	1.99	0.15	0.15	0.04	0.04	2.96	2.96
	European bird cherry	64.01	49.24	4.95	3.81	1.23	0.95	95.19	73.23
	Amur maple	79.66	52.07	4.48	2.93	1.53	1.00	86.17	56.32
	Spruce	0.58	0.47	0.10	0.08	0.01	0.01	1.89	1.55
	European cranberry bush	427.40	409.19	31.75	30.40	8.21	7.86	610.23	584.23
	Rocky mountain juniper	75.45	57.54	20.96	15.98	1.45	1.11	402.81	307.19
	Red elderberry	42.09	42.09	3.13	3.13	0.81	0.81	60.09	60.09
	Littleleaf linden	117.35	117.34	8.79	8.79	2.26	2.26	168.95	168.93
	Siberian pea tree	290.19	243.07	21.56	18.06	5.58	4.67	414.32	347.05
	Smooth sumac	6.06	6.06	0.33	0.33	0.12	0.12	6.42	6.42
	Norway spruce	0.39	0.39	0.06	0.06	0.01	0.01	1.24	1.24
	Other species	103.06	41.30	7.66	3.07	1.98	0.79	147.15	58.97
	Sweet mountain pine	19.41	13.10	1.87	1.26	0.37	0.25	35.95	24.27
	Ponderosa pine	7.34	7.34	0.71	0.71	0.14	0.14	13.60	13.60
	Pine	5.84	5.83	0.56	0.56	0.11	0.11	10.81	10.81
	Red osier dogwood	653.01	375.13	37.37	21.47	12.55	7.21	718.20	412.58
	Prickly rose	438.19	184.55	32.55	13.71	8.42	3.55	625.63	263.49
	Dogwood	32.49	32.49	1.89	1.89	0.62	0.62	36.42	36.41
	American red raspberry	320.92	166.79	11.97	6.22	6.17	3.21	230.15	119.62
	Juniper	32.69	18.16	9.08	5.04	0.63	0.35	174.54	96.93
	Rugosa rose	4.43	4.43	0.33	0.33	0.09	0.09	6.33	6.33
	Artemesia	14.96	10.72	1.11	0.80	0.29	0.21	21.35	15.30
	Spiraea	26.22	13.70	1.95	1.02	0.50	0.26	37.44	19.56
	Flowering plum	10.10	10.10	0.78	0.78	0.19	0.19	15.01	15.01
	Purpleleaf sand cherry	6.93	6.85	0.54	0.53	0.13	0.13	10.31	10.19
	Common snowberry	16.46	9.80	0.92	0.55	0.32	0.19	17.67	10.52
	Alpine currant	42.51	38.01	3.16	2.82	0.82	0.73	60.70	54.27
	Euonymus	6.52	6.52	0.48	0.48	0.13	0.13	9.31	9.31
	Shrubby cinquefoil	24.30	15.84	1.81	1.18	0.47	0.30	34.69	22.62
	Rose	1.07	1.07	0.08	0.08	0.02	0.02	1.52	1.52
	Shiny cotoneaster	22.71	22.71	1.69	1.69	0.44	0.44	32.42	32.42
	Red cedar	53.07	53.07	10.21	10.21	1.02	1.02	196.17	196.15
	Common ninebark	52.14	28.18	3.87	2.09	1.00	0.54	74.44	40.24
	Cinquefoil	27.83	27.83	2.07	2.07	0.53	0.53	39.74	39.73
	False spiraea	7.20	7.20	0.54	0.54	0.14	0.14	10.29	10.29
	Twinberry honeysuckle	4.59	3.69	0.23	0.18	0.09	0.07	4.35	3.50
	Rhododendron	1.24	0.98	0.25	0.20	0.02	0.02	4.77	3.76
	Forsythia	0.67	0.67	0.05	0.05	0.01	0.01	0.96	0.96
	Viburnum	0.40	0.40	0.03	0.03	0.01	0.01	0.57	0.57
	Total	6,939.37	1,270.73	613.29	100.47	133.37	24.42	11,787.12	1,931.03
Institutional	Quaking aspen	19.91	19.91	1.57	1.57	0.05	0.05	3.88	3.88
	Balsam poplar	294.49	239.36	21.25	17.27	0.73	0.59	52.59	42.74
	White spruce	1,277.94	1,002.56	205.29	161.05	3.16	2.48	508.09	398.60
	American mountain ash	6.76	6.76	0.54	0.54	0.02	0.02	1.33	1.33
	Boxelder	303.03	303.00	27.72	27.72	0.75	0.75	68.61	68.60
	Green ash	187.49	129.24	12.23	8.43	0.46	0.32	30.27	20.86
	Common lilac	91.25	91.24	8.80	8.80	0.23	0.23	21.79	21.78
	Northern white cedar	13.48	13.48	2.59	2.59	0.03	0.03	6.42	6.42
	Honeysuckle	155.25	155.23	7.65	7.65	0.38	0.38	18.93	18.93
	Japanese tree lilac	51.79	51.79	5.00	5.00	0.13	0.13	12.37	12.36
	Red elderberry	897.80	897.68	66.69	66.69	2.22	2.22	165.07	165.05
	Other species	39.25	39.25	2.92	2.92	0.10	0.10	7.22	7.22
	Morden hawthorn	30.38	30.38	2.29	2.29	0.08	0.08	5.66	5.66



		Density				Total			
		Leaf Area (m2/ha)		Leaf Biomass (kg/ha)		Leaf Area (km2)		Leaf Biomass (mt)	
Land Use	Species	Val	SE	Val	SE	Val	SE	Val	SE
	Red osier dogwood	30.41	30.41	1.74	1.74	0.08	0.08	4.31	4.31
	Prickly rose	42.72	42.71	3.17	3.17	0.11	0.11	7.85	7.85
	American red raspberry	71.90	71.89	2.68	2.68	0.18	0.18	6.64	6.64
	Spiraea	22.02	22.02	1.64	1.64	0.05	0.05	4.05	4.05
	Common ninebark	22.02	22.02	1.64	1.64	0.05	0.05	4.05	4.05
	Common juniper	49.95	49.94	13.88	13.87	0.12	0.12	34.34	34.34
	Total	3,607.86	2,620.96	389.28	279.53	8.93	6.49	963.45	691.82
CITY TOTAL	Total	5,016.13	650.88	458.29	55.10	351.05	45.55	32,073.42	3,856.23







# Per-Area Estimates for Trees in Edmonton by Land Use and Species

Series: Circles, Time Period: 2009

Land Use	Species	Trees(no./ha)		Carbon (kg/ha)		Leaf Area (m2/ha)		Leaf Biomass (kg/ha)	
		Val	SE	Val	SE	Val	SE	Val	SE
Ag/Urban Res.	Quaking aspen	69.40	29.10	1,219.2	629.4	321.5	166.4	25.3	13.1
	Balsam poplar	34.50	19.37	2,020.6	1,024.9	339.1	174.1	24.5	12.6
	White spruce	2.40	1.15	109.3	61.1	150.9	76.6	24.2	12.3
	Aspen	1.40	0.81	214.0	198.8				
	Blue spruce	6.20	4.13	265.5	156.1	288.0	164.6	48.9	27.9
	American mountain ash	7.40	6.66	139.4	125.0	19.8	11.4	1.6	0.9
	Tamarack	0.50	0.48	0.1	0.1	0.7	0.7	0.0	0.0
	Willow	1.00	0.58	12.6	8.2	4.0	3.8	0.2	0.2
	Boxelder	1.70	0.97	286.3	199.2	76.7	44.2	7.0	4.0
	Western service berry	2.40	2.15	10.3	9.4	6.1	5.4	0.6	0.5
	Paper birch	0.50	0.33	17.7	13.5	22.0	18.5	1.5	1.3
	Green ash	2.10	1.27	58.5	40.1	136.0	97.5	8.9	6.4
	American elm	1.20	0.62	320.2	282.9	172.4	141.2	12.5	10.3
	Common lilac	0.50	0.33	463.8	350.5	14.8	10.4	1.4	1.0
	Northern white cedar	1.20	0.71	13.1	7.6	9.6	6.4	1.8	1.2
	Crabapple	1.00	0.75	164.3	157.8	26.5	25.2	2.3	2.2
	Common chokecherry	1.20	0.78	71.5	60.9	50.1	35.4	3.9	2.8
	Lodgepole pine	0.50	0.48	10.0	10.0	22.6	22.6	4.3	4.3
	Gray poplar	0.20	0.24	14.3	14.4	0.7	0.7	0.0	0.1
	Canada plum	1.70	1.66	11.4	11.4	4.7	4.7	0.4	0.4
Commercial	Scotch pine	0.50	0.48	18.8	18.8	10.5	10.5	1.0	1.0
	Siberian crabapple	0.20	0.24	35.8	35.8	3.7	3.7	0.3	0.3
	Pin cherry	0.20	0.24	1.4	1.4	3.3	3.3	0.2	0.2
	Japanese tree lilac	0.70	0.71	3.3	3.3	2.4	2.4	0.2	0.2
	Spruce	0.20	0.24	27.6	27.6				
	Rocky mountain juniper	0.50	0.48	2.3	2.3	2.6	2.7	0.7	0.7
	Silver maple	0.20	0.24	1.2	1.2	0.2	0.2	0.0	0.0
	Manzano de flor	0.20	0.24	20.1	20.1	13.5	13.5	1.2	1.2
	Amur chokecherry	0.20	0.24	2.0	2.1	1.5	1.5	0.1	0.1
	Laurel leaved willow	0.20	0.24	119.7	119.7	75.5	75.5	4.7	4.7
	Total	139.90	42.66	5,654.3	1,838.7	1,779.4	464.4	177.9	49.3
	Quaking aspen	2.70	2.75	1.4	1.4	5.3	5.3	0.4	0.4
	Balsam poplar	13.70	13.73	1,081.8	1,081.7	592.5	592.5	42.8	42.8
	Blue spruce	2.70	2.75	1.1	1.1	2.4	2.4	0.4	0.4
	American mountain ash	2.70	2.75	0.1	0.1	0.8	0.8	0.1	0.1
	Boxelder	19.20	19.22	1,052.3	1,052.2	532.3	532.2	48.7	48.7
	Green ash	5.50	5.49	202.4	202.4				
	American elm	2.70	2.75	80.8	80.8	82.9	82.9	6.0	6.0
	Crabapple	2.70	2.75	14.6	14.6	21.3	21.3	1.8	1.8
	Common chokecherry	8.20	8.24	6.5	6.5	115.7	115.7	9.0	9.0
	Lodgepole pine	5.50	3.63	125.1	91.6	111.2	79.0	21.4	15.2
	Gray poplar	8.20	8.24	329.9	329.8	61.1	61.1	4.4	4.4
	Scotch pine	5.50	5.49	45.1	45.1	7.9	7.9	0.8	0.8



Land Use	Species	Trees(no./ha)		Carbon (kg/ha)		Leaf Area (m2/ha)		Leaf Biomass (kg/ha)	
		Val	SE	Val	SE	Val	SE	Val	SE
	Pin cherry	5.50	5.49	299.2	299.1	37.5	37.5	1.8	1.8
	White willow	5.50	5.49	478.5	478.5	23.1	23.1	1.4	1.4
	Pine	2.70	2.75	6.5	6.5	8.8	8.8	0.8	0.9
	Total	93.30	53.02	3,725.4	2,426.5	1,602.7	1,295.4	139.8	113.3
	Quaking aspen	8.10	7.53	23.7	23.6	15.9	15.6	1.2	1.2
	Balsam poplar	4.30	3.79	230.3	165.8	150.9	124.5	10.9	9.0
	White spruce	5.40	2.54	822.3	446.5	810.7	378.3	130.2	60.8
	Blue spruce	2.10	1.29	374.1	263.0	334.7	246.2	56.8	41.8
	American mountain ash	2.10	1.29	291.6	185.0	49.0	29.9	3.9	2.4
	Boxelder	2.70	2.20	113.2	79.3	109.1	77.9	10.0	7.1
	Western service berry	1.10	1.07	16.3	16.3	1.0	1.0	0.1	0.1
	Paper birch	0.50	0.54	17.2	17.2	9.7	9.7	0.7	0.7
	Green ash	4.30	2.69	171.1	100.8	183.9	123.6	12.0	8.1
	American elm	1.60	1.19	69.0	64.8	66.9	53.3	4.9	3.9
	Common lilac	4.30	2.08	2,382.8	1,380.9	98.7	55.3	9.5	5.3
	Northern white cedar	4.80	2.73	59.3	35.7	37.1	20.7	7.1	4.0
	Crabapple	2.70	1.76	204.0	147.5	46.1	31.0	4.0	2.7
	European aspen	3.20	2.25	100.6	81.0	11.9	9.4	0.9	0.7
	Common chokecherry	0.50	0.54	81.7	81.7	17.0	17.0	1.3	1.3
	Lodgepole pine	1.10	1.07	98.1	98.1	110.6	110.6	21.3	21.3
	Siberian crabapple	1.60	1.19	18.2	13.7	21.7	15.3	1.9	1.3
	European white birch	2.10	1.69	205.1	203.6	33.2	30.7	2.0	1.8
	Pin cherry	0.50	0.54	2.2	2.2	0.6	0.6	0.0	0.0
	Cherry	2.10	1.69	3.8	2.7	19.0	14.0	1.5	1.1
	Siberian elm	2.10	1.29	871.3	526.9	912.6	644.3	62.2	43.9
	European bird cherry	1.60	0.91	280.2	236.2	69.4	53.4	5.4	4.1
	Spruce	1.10	0.75	3.9	3.8	1.1	0.9	0.2	0.2
	Jack pine	0.50	0.54	76.6	76.6	101.9	101.9	8.5	8.5
	Linden	1.10	1.07	34.5	34.5	35.7	35.7	1.7	1.7
	Red elderberry	0.50	0.54	60.8	60.8	2.6	2.6	0.2	0.2
	Littleleaf linden	0.50	0.54	104.9	104.9	29.0	29.0	2.2	2.2
	Total	62.80	17.97	6,716.9	2,048.9	3,279.9	1,029.6	360.3	110.1
	Blue spruce	7.10	7.06	2.4	2.4	2.0	2.0	0.3	0.3
	Total	7.10	7.06	2.4	2.4	2.0	2.0	0.3	0.3
Park	Quaking aspen	13.70	13.73	228.0	228.0	39.4	39.4	3.1	3.1
	Balsam poplar	43.20	31.55	494.6	324.2	214.7	141.2	15.5	10.2
	White spruce	6.90	3.21	589.0	459.8	362.7	293.8	58.3	47.2
	Aspen	2.70	2.75	7.9	7.9				
	Blue spruce	5.50	2.43	755.3	446.2	446.7	238.2	75.8	40.4
	Willow	2.70	2.75	9.1	9.1	8.4	8.4	0.5	0.5
	Boxelder	6.20	3.17	1,838.1	1,253.9	360.2	252.8	32.9	23.1
	Paper birch	11.00	10.30	2,246.9	2,075.2	520.3	475.3	36.4	33.2
	Green ash	6.90	2.72	285.1	161.7	328.3	155.6	21.4	10.2
	American elm	8.20	4.72	1,914.1	1,274.5	1,671.9	1,266.1	121.6	92.1
	Balm-of-gilead	17.20	15.18	563.5	414.2	381.8	303.6	27.5	21.9
	Common lilac	2.70	1.64	396.9	245.8	54.9	31.1	5.3	3.0



Land Use	Species	Trees(no./ha)		Carbon (kg/ha)		Leaf Area (m2/ha)		Leaf Biomass (kg/ha)	
		Val	SE	Val	SE	Val	SE	Val	SE
	Crabapple	2.10	1.52	343.7	240.8	124.3	86.6	10.7	7.5
	Lodgepole pine	2.10	1.15	297.6	225.7	249.4	175.8	48.0	33.8
	Gray poplar	0.70	0.69	41.4	41.5	7.1	7.1	0.5	0.5
	Canada plum	0.70	0.69	104.4	104.4	8.4	8.5	0.7	0.7
	Mountain alder	4.10	3.48	22.5	22.3	5.2	3.9	0.4	0.3
	Siberian elm	0.70	0.69	62.4	62.4	157.3	157.2	10.7	10.7
	Japanese tree lilac	0.70	0.69	2.5	2.5	3.9	3.9	0.4	0.4
	Spruce	0.70	0.69	1.2	1.2	3.6	3.6	0.6	0.6
	Jack pine	2.10	1.52	93.7	93.2	56.5	54.0	4.7	4.5
	Norway spruce	0.70	0.69	69.4	69.4	32.3	32.3	5.4	5.4
	Total	141.40	47.34	10,367.5	2,889.5	5,037.2	1,487.6	480.4	135.9
Residential	Quaking aspen	207.90	71.51	3,277.0	1,110.0	682.6	242.7	53.8	19.1
	Balsam poplar	32.80	14.72	1,590.5	730.8	293.0	154.7	21.1	11.2
	White spruce	18.90	10.46	825.5	419.1	464.6	190.2	74.6	30.6
	Aspen	23.00	10.56	567.1	298.2	13.8	13.8	0.9	0.9
	Blue spruce	5.80	1.77	432.4	193.7	373.4	169.1	63.4	28.7
	American mountain ash	4.70	4.19	499.4	385.6	145.3	111.1	11.5	8.8
	Tamarack	15.00	14.99	457.1	457.0	49.1	49.1	2.3	2.3
	Willow	10.60	6.43	3,142.0	2,246.0	155.4	82.4	9.6	5.1
	Boxelder	3.60	2.18	1,007.1	736.4	93.5	63.3	8.5	5.8
	Western service berry	8.30	7.50	55.9	38.6	10.2	8.4	1.0	0.8
	Paper birch	6.70	4.36	254.0	142.1	45.9	43.6	3.2	3.1
	Green ash	2.20	1.09	147.1	86.1	119.7	67.4	7.8	4.4
	American elm	2.80	1.15	181.6	100.0	283.1	161.3	20.6	11.7
	Balm-of-gilead	0.60	0.39	304.0	232.4	86.9	74.0	6.3	5.3
	Common lilac	2.50	1.05	1,128.4	697.9	57.0	33.7	5.5	3.3
	Northern white cedar	1.40	1.39	24.1	24.1	7.6	7.6	1.5	1.5
	Crabapple	1.70	0.86	209.5	132.0	52.9	30.0	4.6	2.6
	Manchu cherry	5.00	4.72	192.4	179.7	16.6	16.0	1.3	1.2
	European aspen	2.50	2.01	10.6	10.4	3.4	3.2	0.2	0.2
	Common chokecherry	1.40	0.91	40.2	23.1	38.3	23.9	3.0	1.9
	Lodgepole pine	1.10	0.55	33.1	21.1	47.7	30.8	9.2	5.9
	Gray poplar	1.90	1.26	25.9	14.8	9.2	5.7	0.7	0.4
	Canada plum	0.30	0.28	9.3	9.3	1.5	1.5	0.1	0.1
	Scotch pine	1.10	0.87	19.0	18.9	33.8	33.4	3.3	3.2
	Mountain alder	0.60	0.56	2.8	2.8	3.2	3.2	0.2	0.2
	Siberian crabapple	0.80	0.48	16.7	14.2	7.1	5.5	0.6	0.5
	Honeysuckle	1.90	1.94	25.6	25.6	14.1	14.1	0.7	0.7
	European white birch	0.60	0.39	82.6	81.5	17.7	16.7	1.1	1.0
	Pin cherry	0.60	0.56	0.2	0.2	0.2	0.2	0.0	0.0
	Cherry	0.30	0.28	13.2	13.2	2.0	2.0	0.2	0.2
	European bird cherry	0.60	0.39	162.7	114.7	64.0	49.2	5.0	3.8
	Amur maple	1.40	0.72	146.9	85.7	79.7	52.1	4.5	2.9
	European cranberry bush	0.80	0.83	0.6	0.6	1.1	1.1	0.1	0.1
	Red elderberry	0.30	0.28	9.1	9.1	5.0	5.0	0.4	0.4



Land Use	Species	Trees(no./ha)		Carbon (kg/ha)		Leaf Area (m2/ha)		Leaf Biomass (kg/ha)	
		Val	SE	Val	SE	Val	SE	Val	SE
	Littleleaf linden	0.30	0.28	102.6	102.6	117.4	117.3	8.8	8.8
	Siberian pea tree	0.60	0.56	525.6	525.6	28.4	28.5	2.1	2.1
	Smooth sumac	0.60	0.56	20.5	20.5	6.1	6.1	0.3	0.3
	Norway spruce	0.30	0.28	0.1	0.1	0.4	0.4	0.1	0.1
	Birch	0.30	0.28	42.1	42.1				
	Other species	0.30	0.28	41.4	41.4	15.5	15.5	1.2	1.2
	Sweet mountain pine	0.30	0.28	3.8	3.8	5.0	5.0	0.5	0.5
	Ponderosa pine	0.30	0.28	3.8	3.8	7.3	7.3	0.7	0.7
	Total	372.30	91.84	15,633.6	3,679.3	3,458.5	534.9	340.2	56.9
Institutional	Quaking aspen	1.50	1.54	258.2	258.2	19.9	19.9	1.6	1.6
	Balsam poplar	83.40	74.08	2,035.9	1,533.5	294.5	239.4	21.2	17.3
	White spruce	6.20	4.78	2,126.6	1,546.5	1,277.9	1,002.6	205.3	161.1
	Aspen	3.10	3.09	278.5	278.5				
	American mountain ash	1.50	1.54	1.1	1.1	6.8	6.8	0.5	0.5
	Boxelder	12.40	12.35	1,089.2	1,089.0	303.0	303.0	27.7	27.7
	Green ash	4.60	3.36	71.9	55.1	187.5	129.2	12.2	8.4
	Common lilac	1.50	1.54	2,498.5	2,498.2	91.3	91.2	8.8	8.8
	Northern white cedar	6.20	6.18	62.9	62.9	13.5	13.5	2.6	2.6
	Japanese tree lilac	1.50	1.54	68.8	68.8	51.8	51.8	5.0	5.0
	Morden hawthorn	1.50	1.54	36.7	36.7	30.4	30.4	2.3	2.3
	Total	123.50	78.36	8,528.4	6,970.7	2,276.5	1,456.0	287.3	200.9
CITY TOTAL	Total	183.00	30.10	8,798.6	1,304.3	2,727.4	318.6	275.6	33.2

# Pollution Removal in Edmonton

Series: Circles, Time Period: 2009

	Values of Pollution Removal (\$)					
Pollutants	CO	NO2	O3	PM10	SO2	Total
Month						
1	\$54	\$32,170	\$7,207	\$25,704	\$730	\$65,865
2	\$101	\$28,361	\$9,288	\$29,731	\$585	\$68,067
3	\$92	\$30,995	\$28,161	\$34,264	\$597	\$94,109
4	\$103	\$22,762	\$47,819	\$65,638	\$302	\$136,625
5	\$1,100	\$60,319	\$379,249	\$80,145	\$1,549	\$522,362
6	\$1,398	\$81,484	\$444,952	\$101,782	\$2,643	\$632,259
7	\$1,276	\$74,569	\$344,652	\$96,406	\$10,066	\$526,970
8	\$1,316	\$86,806	\$384,471	\$117,930	\$3,167	\$593,689
9	\$164	\$19,758	\$29,675	\$83,570	\$782	\$133,949
10	\$87	\$24,260	\$21,670	\$100,731	\$450	\$147,199
11	\$88	\$24,924	\$14,891	\$58,058	\$796	\$98,756
12	\$44	\$26,300	\$4,638	\$25,784	\$184	\$56,950
Total	\$5,824	\$512,709	\$1,716,673	\$819,744	\$21,850	\$3,076,800

	Amount of Pollution Removal (metric ton)					
Pollutants	CO	NO2	O3	PM10	SO2	Total
Month						
1	0.06	4.76	1.07	5.70	0.44	12.03
2	0.11	4.20	1.38	6.60	0.35	12.63
3	0.10	4.59	4.17	7.60	0.36	16.82
4	0.11	3.37	7.08	14.56	0.18	25.30
5	1.15	8.93	56.17	17.78	0.94	84.96
6	1.46	12.07	65.90	22.58	1.60	103.60
7	1.33	11.04	51.04	21.39	6.09	90.89
8	1.37	12.86	56.94	26.16	1.92	99.25
9	0.17	2.93	4.40	18.54	0.47	26.50
10	0.09	3.59	3.21	22.34	0.27	29.51
11	0.09	3.69	2.21	12.88	0.48	19.35
12	0.05	3.90	0.69	5.72	0.11	10.46
Total	6.07	75.93	254.25	181.84	13.22	531.31



