

THE MASTER TREE PLANTING
AND
CITY NURSERY PRODUCTION PLAN

1.0 THE MASTER TREE PLANTING AND CITY NURSERY PRODUCTION PLAN

The following tables prioritize the tree planting sites for both new tree plantings and replacements for the City of Regina. Based upon an estimated planting rate of 2000 trees per year (1150 new developments and 850 replacements) it would take 15 years to complete the new tree plantings and 11 years to complete the replacement plantings. Of the total 2,000 trees to be planted each year it is anticipated that approximately 1500 trees will be provided by the City nursery and 500 purchased from private nurseries.

2.0 THE MASTER TREE PLANTING PLAN

2.1 New Tree Plantings

New planting locations were identified based on a conceptual Master Tree Planting Plan developed by the Landscape Design Section. The plan is consistent with the recommendations of the Development Plan for the City of Regina and describes where new plantings would most enhance the over-all appearance of Regina’s streetscape. The specific number of trees or cultivars identified in the conceptual master plan may change when a detailed design plan is developed for each site. Map 3 on the following page illustrates new tree planting sites.

Table 1: New Tree Plantings

1) Ceremonial Routes

Sector	Street	Location	Estimated Number of Trees	Species/Cultivars
80	Elphinstone	Sask. Drive → Exhibition Park Entry • Both sides	40	Rosybloom Crab 10 Kelsey 10 Red splendor 10 Selkirk 10 Thunderchild
Total			40	

2) Gateways

Sector	Location	Estimated Number of Trees	Species/Cultivars
93	Lewvan & Hwy #1 Intersection	330	110 cottonwood “Manitou” 55 Tower poplar 55 Laurel-leaf willow 55 Siberian larch 55 Scots pine

Sector	Location	Estimated Number of Trees	Species/Cultivars
87	Lewvan & Regina Ave. Intersection	390	130 cottonwood "Manitou" 65 Tower poplar 65 Laurel-leaf willow 65 Siberian larch 65 Scots pine
85	Lewvan & Regina Ave. Intersection	6	2 cottonwood "Manitou" 1 Tower poplar 1 Laurel-leaf willow 1 Siberian larch 1 Scots pine
6	Pasqua St. & 9 th Ave. N. Intersection	270	90 cottonwood "Manitou" 45 Tower poplar 45 Laurel-leaf willow 45 Siberian larch 45 Scots Pine 40 Assiniboine poplar
7	Albert St. & RingRd. Intersection * Planting inside the cloverleafs	480	120 cottonwood "Manitou" 80 Tower poplar 80 Laurel-leaf willow 80 Siberian larch 80 Scots pine 40 Assiniboine poplar
60	Albert St. & Hwy #1 Intersection	540	180 cottonwood "Manitou" 90 Tower poplar 90 Laurel-leaf willow 90 Siberian larch 90 Scots pine
64	Ring Road & Victoria Ave. E. Intersection	30	10 cottonwood "Manitou" 5 Tower poplar 5 Laurel-leaf willow 5 Siberian larch 5 Scots pine
69	Ring Road & Victoria Ave. E. Intersection	450	150 cottonwood "Manitou" 75 Tower poplar 75 Laurel-leaf willow 75 Siberian larch 75 Scots pine
69	Prince of Wales Ave. & Victoria Ave. E. Intersection	85	45 cottonwood "Manitou" 10 Tower poplar 10 Laurel-leaf willow 10 Siberian larch 10 Scots pine
TOTAL		2,581	

3) Major Arterial Intersections

Sector	Location	Estimated Number of Trees	Species/Cultivars
17	McCarthy Blvd. & 9 th Ave. N. Intersection	153	77 Schubert chokecherry 38 American mountain ash 38 Dropmore linden "Wascana"
17	McCarthy Blvd. & 9 th Ave. N. Intersection	12	6 Schubert chokecherry 3 American mountain ash 3 Dropmore "linden" "Wascana"
6	Argyle St. N. & 9 th Ave. N. Intersection	21	11 Schubert chokecherry 5 American mountain ash 5 Dropmore linden Wascana
6	Argyle St. N. & 9 th Ave. N. Intersection	32	16 Schubert chokecherry 8 American mountain ash 8 Dropmore linden "Wascana"
66	Arcola Ave. & Ring Road Intersection	32	16 Schubert chokecherry 8 American mountain ash 8 Dropmore linden "Wascana"
66	Arcola Ave. & Ring Road Intersection	273	137 Schubert chokecherry 68 American mountain ash 68 Dropmore linden "Wascana"
Total		523	

4) Major Arterials

Sector	Street	Location	Estimated Number Of Trees	Species/Cultivars
6	Pasqua	Stapleford → N. Sector L. • Both sides	60	35 White spruce 25 Black ash "Fallgold"
9	Pasqua	S. Sector L. → N. Sector L.	510	298 White spruce 212 Black ash "Fallgold"
16	9 th Ave. N.	McIntosh → Pasqua • Both sides	338	158 Silver maple 180 Black ash "Fallgold"
9	Pasqua	S. Sector L. → N. Sector L. • Both sides	450	250 Scots pine 200 cottonwood "Manitou"
18	Rochdale	Pasqua → McIntosh • Both sides	502	293 White spruce 209 Black ash "Fallgold"
9	Pasqua	S. Sector L. → N. Sector L. • Both sides	450	250 Scots pine 200 cottonwood "Manitou"

Sector	Street	Location	Estimated Number Of Trees	Species/Cultivars
93	Hwy #1	W. Sector L. → Albert	423	235 Scots pine 188 cottonwood “Manitou”
59	Hwy #1	Albert → E. Sector L. • South Side	150	62 White willow “Golden” 88 Green ash “Patmore”
59	Albert	Hwy #1 → N. Sector L. • West side	57	33 White spruce 24 Black ash “Fallgold”
59	Albert	S.Sector L. → Gordon Rd. • West side	153	89 White spruce 64 Black ash “Fallgold”
30	Dewdney	Train Tracks → Broad St. • South side	73	73 Green ash “Patmore”
60	Ring Road	W.Sector L. → N. Sector L. • South side	219	90 White willow “Golden” 129 Green ash “Patmore”
11	McCarthy	Dewdney → 8 th Ave. • West side	62	38 Colorado spruce (mix blue & green) 24 Green ash “Patmore”
12	McCarthy	Mikkelson → 1 st Ave. No. • Both sides	200	120 Colorado spruce (mix blue & green) 80 Green ash “Patmore”
15	McCarthy	Eden Ave. → Storm Channel • Both sides	34	34 White willow “Golden”
19	McCarthy	9 th Ave. N. → Rink Ave. • East side	104	64 Colorado spruce (mix blue & green) 40 Green ash “Patmore”
20 & 21	9 th Ave. N.	McCarthy → Courtney • Both sides	706	392 Scots pine 314 cottonwood “Manitou”
93	Lewvan	Hwy #1 → N. Sector Line • Both sides	130	72 Scots pine 58 cottonwood “Manitou”
93	Hwy.#1	Lewvan → E. Sector L. • Both sides	178	89 White willow “Golden” 89 cottonwood “Manitou”
93	Lewvan	S.Sector L. → N. Sector L. • Both sides	450	250 Scots pine 200 cottonwood “Manitou”
91	Lewvan	S.Sector L. → N. Sector L. • Both sides	450	250 Scots pine 200 cottonwood

Sector	Street	Location	Estimated Number Of Trees	Species/Cultivars
				“Manitou”
89	Lewvan	S.Sector L. → N. Sector L. • Both sides	454	252 Scots pine 202 cottonwood “Manitou”
87	Lewvan	S.Sector L. → Regina Ave.	292	162 Scots pine 130 cottonwood “Manitou”
80	Lewvan	11 th Ave. → Dewdney Ave. • Both sides	307	179 White spruce 128 Black ash “Fallgold”
60	Ring Rd.	S.Sector L. → Wascana Parkway • South side	140	58 White willow “Golden” 82 Green ash “Patmore”
51	Saskatchewan Dr.	St. John St. → Winnipeg St. N. • North side	72	36 Green ash “Patmore” 36 Black ash “Fallgold”
61	Arcola Ave.	Atkinson → Reynolds • North side	40	20 Green ash “Patmore” 20 Black ash “Fallgold”
39	Ring Road	CNR Tracks → Access Ramps	210	140 Colorado spruce (mix blue & green) 70 cottonwood “Manitou”
67	Ring Road	Assiniboine → N.Sector L. • Both sides	60	25 White willow Golden” 35 Green ash “Patmore”
67	Ring Road	S.Sector L. → Arcola	541	223 White willow “Golden” 318 Green ash “Patmore”
67	Arcola	Ring Road → E. Sector L.	632	384 Colorado spruce (mix blue & green) 248 Green ash “Patmore”
66	Arcola	Ring Road → S.Sector L. • North side	28	17 Colorado spruce (mix blue & green) 11 Green ash “Patmore”
66	Arcola	Ring Road → Park • North side	115	115 Colorado spruce (mix blue & green)
66	Ring Road	Arcola → Victoria Ave. E.	250	103 White willow “Golden” 147 Green ash “Patmore”
61	Victoria Ave. E.	Park → Abbott • North side	24	24 Silver maple
65	Victoria Ave. E.	Ring Road → Fleet	162	76 Silver maple

Sector	Street	Location	Estimated Number Of Trees	Species/Cultivars
		<ul style="list-style-type: none"> Both sides 		43 Green ash "Patmore" 43 Black ash "Fallgold"
39	Ring Road	Ross → N. Sector L. <ul style="list-style-type: none"> Both sides 	530	106 White willow "Golden" 85 cottonwood "Manitou" 339 Colorado spruce (mix blue & green)
39	Ring Road	S. Sector L. → McDonald <ul style="list-style-type: none"> Both sides 	114	23 White willow "Golden" 18 cottonwood "Manitou" 73 Colorado spruce (mix blue & green)
72	Arcola	City Limit → N. Sector L. <ul style="list-style-type: none"> Both sides 	918	565 Colorado spruce (mix blue & green) 353 Green ash "Patmore"
69	Arcola	S. Sector L. → W. Sector L. <ul style="list-style-type: none"> Both sides 	442	272 Colorado spruce (mix blue & green) 170 Green ash "Patmore"
73	Victoria Ave. E.	Fleet → City Limit <ul style="list-style-type: none"> Both sides 	608	284 Silver maple 162 Green ash "Patmore" 162 Black ash "Fallgold"
38 & 40	Dewdney	Fleet → P.O.W. <ul style="list-style-type: none"> North side 	447	275 White spruce 172 Silver maple
9	Pasqua	From 249M N. Sector L. → Hwy. #11	88	49 Scots pine 39 cottonwood "Manitou"
Total			12,166	

2.2 The Tree Donation Program

The purpose of The Tree Donation Program is to encourage public involvement in enhancing the urban forest by making trees from the City nursery available to community organizations for planting. The following table shows the species and quantities that will be required for the program based on an annual allotment of 100 trees.

Table 2: The Tree Donation Program

Number Of Trees	Species/Cultivars
100 per year x 15 years =	20% Ash – 150 Manchurian, 75 Patmore, 75 Fallgold 20% Linden – 150 American, 75 Little leaf, 75 Dropmore

1500 trees	20% Coniferous – 150 Colorado spruce, 75 Scots pine, 75 Siberian larch 20% Ornamentals – 75 Thunderbird crab, 75 Radiant crab, 150 Schubert chokecherry 20% Shade Trees – Poplar (75 Assiniboine, 75 Northwest) Willow (45 Laurel-leaf, 30 Prairie cascade), 30 Paper birch, 30 Burr oak, 15 Manitoba maple

2.3 Total New Tree Plantings

A preliminary review of potential tree planting locations indicates the following numbers for new plant location opportunities. Further site specific exploration is required to verify plant counts and locations. The following numbers are not intended to imply a conclusive and exhaustive study. Rather they are intended to reflect an obvious visual deficiency in existing plantings. Further investigation may reveal that some of the existing plantings may not be sufficient or appropriate in their specific locations and additional plantings, plant removal or relocation may be suitable in certain circumstances.

- | | |
|--------------------------------|--|
| 1) Ceremonial Routes: | Ornamental Flowering Design: 40 |
| 2) Gateways: | Coniferous: 850
Deciduous Canopy: 1700 |
| 3) Priority One Intersections: | Ornamental Deciduous: 390
Deciduous Canopy: 130 |
| 4) Priority One Streets: | Coniferous: 5500
Deciduous: 7000 |

Species exchange for replacements should only occur when there is a compelling reason to do so, with the intent of guarding the integrity of the original planting scheme. If appropriate, an alternate species or cultivar can be selected for replacement in consultation with the Design Section.

The following table shows the estimated total new tree plantings for all sites.

Table 3: Estimated Total New Tree Plantings

Priority	Estimated Number of Trees
1) Ceremonial Routes	Estimated Number of Trees
Rosybloom crab “Kelsey”	10
Rosybloom crab “Red spendor”	10
Rosybloom crab “Selkirk”	10
Rosybloom crab “Thunderchild”	10
Total:	40
2) Gateways	Estimated Number of Trees
Scots pine	426

Priority	Estimated Number of Trees
Siberian larch	426
Laurel-leaf willow	426
cottonwood “Manitou” (males)	837
Tower poplar	426
Total:	2,581
3) Major Arterial Intersections	Estimated Number of Trees
Shubert Chokecherry	263
American mountain ash	130
Dropmore linden “Wascana”	130
Assiniboine poplar	40
Total:	523
4) Major Arterials	Estimated Number of Trees
Colorado spruce (mix blue & Green)	2,127
White spruce	1,202
Scots pine	2,162
Green ash “Patmore”	2,059
White willow “Golden”	813
cottonwood “Manitou”(males)	1,993
Black ash/ “Fallgold”	1,103
Silver maple	714
Total:	12,166

5) The Tree Donation Program	Estimated Number of Trees
Manchurian ash	
Patmore Ash	150
Fallgold ash	75
American linden	75
Little-leaf linden	150
Dropmore linden	75
Colorado Spruce	75
Scots pine	150
Siberian larch	75
Thunderbird crab	75
Radiant crab	75
Schubert chokecherry	75
Assiniboine poplar	150
Northwest poplar	75
Laurel-leaf willow	75
Prairie cascade willow	45
Paper birch	30
Burr oak	30
Manitoba maple	30
	15

Priority	Estimated Number of Trees
Total:	1,500
Grand Total:	16,810

3.0 TREE REPLACEMENT PRIORITIES

Replacement vacancies were identified from the tree inventory worksheets. The species/cultivars to be planted at each site were selected from the tree species list provided in Appendix “C” section 3.0 Species Selection. The need for species diversity was also considered by using the formula described in Appendix “C” Table 1: Species Diversity. Replacement trees shall be prioritized in the following order.

3.1 Streets

Table 4: Street Tree Replacement Priorities

1) Ceremonial Routes

Sector	Street	Estimated Number of Trees	Species/Cultivars
10	6000 Dewdney Ave.	4	American linden
Total		4	

2) Gateways

Sector	Street	Estimated Number of Trees	Species/Cultivars
6	100 – 300 Pasqua St.	15	American linden
Total		15	

3) Major Arterials

Sector	Street	Estimated Number of Trees	Species/Cultivars
23	6700 – 7300 Rochdale Blvd.	19	Green ash
15	100 – 400 McCarthy Blvd.	18	Green ash
17	700 – 1000 McCarthy Blvd.	19	Green ash
34	800 – 1100 Broad St.	9	American linden
Total		65	

4) Minor Arterials

Sector	Street	Estimated Number of Trees	Species/Cultivars
39	200 – 400 Park St.	50	American linden
39	500 – 600 Park St.	5	Green ash
39	100 – 700 McDonald St.	70	35 Green ash/35 Silver maple
38	1100 – 1300 Fleet St.	12	American linden
32	2100 – 2300 – 4 th Ave.	7	Green ash
21	1011 – 1167 Dorothy St.	12	American linden
5	100 – 200 Argyle St.	10	American linden
6	100 – 400 Argyle St.	13	American linden
8	500 – 800 Argyle St.	18	Green ash
14	4200 – 4900 Sherwood Dr.	5	Silver maple
15	5000 – 5700 Sherwood Dr.	14	Silver maple
15	6100 Sherwood Dr.	5	Green ash
15	6500 Sherwood Dr.	1	Green ash
15	6700 – 7407 Sherwood Dr.	9	Green ash
11	6800 – 7300 Dewdney Ave.	24	American linden
1	1000 Elphinstone St.	8	Green ash
91	4200 – 4600 Pasqua St.	10	American linden
89	3100 – 3800 – 25 th Ave.	12	Schubert chokecherry
70	2 – 155 University Park Dr.	3	Green ash
71	1900 – 2200 Assiniboine Ave.	12	American linden
71	100 – 900 College Ave.	60	30 Green ash 30 American linden
57	2100 Grant Rd.	3	Green ash
58	3364 Grant Rd.	14	Green ash
59	2408 – 3216 Grant Rd.	6	Green ash
58	1600 – 2013 Grant Dr.	7	Green ash
58	4008 – 4221 Hillsdale St.	35	American linden
55	2200 – 2500 Parliament Ave.	2	American linden
90	4200 – 4300 Rae St.	13	Green ash
90	3100 – 3300 Gordon Rd.	8	Green ash
91	3400 – 3600 Gordon Rd.	5	Green ash
57	2401 – 2504 Gordon Rd.	2	Green ash
58	3 – 199 Massey Rd.	26	American linden
34	1900 – 2200 – 12 th Ave. N.	26	Green ash
35	1100 – 1415 – 12 th Ave. N.	4	Green ash
35	1709 – 12 th Ave. N.	2	Green ash
56	1100 – 23 rd Ave.	4	Green ash
32	1900 – 2000 – 6 th Ave. N.	8	Green ash
Total		525	

- 5) **Boulevard Trees** – Each year the City receives requests from the public to have trees planted on the boulevards adjacent to their property. An attempt is made to accommodate these requests when the City is planting in the area. Three hundred trees will be set aside annually for this purpose. Since boulevard trees fall along major arterials, minor arterials or residential streets, these numbers will be reduced by 300 each year.
- 6) **Residential Streets I** - The following are those sectors with a 10 per cent greater vacancy rate. The sectors have been prioritized in order of the greatest vacancy rate.

Sector	Percentage Vacancy	Estimated Number Of Trees	Species/Cultivars
74	56%	58	38 American linden 10 Schubert chokecherry 10 Thunderchild crab
92	40%	209	100 Colorado spruce 50 Patmore ash 30 Thunderchild crab 29 Schubert chokecherry
62	24%	231	100 American linden 50 Patmore 50 Manchurian ash 20 Thunderchild crab 11 Schubert chokecherry
39	24%	344	100 Patmore ash 100 Manchurian ash 75 American linden 50 Fallgold black 19 Schubert chokecherry
27	23%	333	50 American linden 25 Little-leaf linden 25 Norlin linden 75 Radiant crab 58 Schubert chokecherry 33 Patmore ash 33 Manchurian ash 34 Bergeson ash
73	19%	191	50 Manchurian ash 50 Schubert chokecherry 50 American linden 41 Radiant crab
40	18%	379	50 American linden 50 Dropmore linden 50 Patmore ash

Sector	Percentage Vacancy	Estimated Number Of Trees	Species/Cultivars
			50 Manchurain ash 50 Thunderchild crab 50 Strathmore crab 50 Schubert chokecherry 29 Japanese lilac
14	18%	128	75 American linden 25 Manchurian ash 28 Thunderchild crab
38	16%	203	100 American linden 50 Little leaf linden 30 Thunderchild crab 23 Schubert chokecherry
25	15%	266	50 Patmore ash 50 Manchurian ash 50 American linden 50 Norlin linden 36 Thunderchild crab 30 Schubert chokecherry
6	12%	124	50 American linden 25 Little leaf linden 25 Manchurian ash 24 Strathmore crab
64	11%	67	30 American linden 20 Manchurian ash 17 Thunderchild crab
72	11%	185	50 American linden 50 Patmore ash 50 Thunderchild crab 35 Schubert chokecheery
16	10%	103	50 American linden 30 Fallgold black 23 Thunderchild crab
Total		2,821	

- 7) **Residential Streets II** – After the Residential Streets I have been exhausted, vacancies in the remaining sectors (see attached list) can be planted in order of the greatest vacancy rate as identified in Appendix “B” Sector Profiles.

Number Of Trees	Species/Cultivars
3664	30% Ash – 366 Patmore, 366 Manchurian, 367 Fallgold black 30% Linden – 366 American, 366 Little leaf, 183 Dropmore, 184 Norlin 20% Crab – 183 Almey, 183 Kelsey, 183 Thunderchild, 184

	Strathmore 15% Cherry – 550 Shubert cherry 5% - Syringa - 183 Japanese lilac
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3.2 Parks, Buffers and Floodplains

Replacement of trees in parks, buffers and floodplains will occur at the rate of approximately 200 trees per year.

Table 5: Parks, Buffers and Floodplains

Number Of Trees	Species/Cultivars
200 per year x 11 years = 2200 trees	20% Ash – 220 Manchurian, 110 Patmore, 110 Fallgold black 20% Linden – 220 American, 110 Little leaf, 110 Dropmore 20% Coniferious – 220 Colorado spruce, 110 Scots pine, 110 Siberian larch 20% Ornamentals – 220 Schubert chokecherry, 110 Thunderchild crab, 110 Radiant crab 20% Shade trees – poplar (110 Assiniboine, 110 Northwest), willow (55 Laurel-leaf, 55 Prairie cascade) 50 Paper birch, 30 Burr oak, 30 Manitoba maple

3.3 Golf Courses

There are four golf courses within the city limits. The City is currently in the process of developing a Golf Course Management and Financial Plan. The identification of the tree replacement and enhancement needs for the golf courses should be done within the context of this management plan and a Master Tree Plan for each golf course.

3.4 Total Replacement Plantings

The following table shows the total replacement plantings for all sites.

Table 6: Estimated Total Replacement Plantings

Priority	Estimated Number of Trees
A. Streets	Estimated Number of Trees
1) Ceremonial Routes	Estimated Number of Trees
American linden	4
Total:	4
2) Gateways	Estimated Number of Trees
American linden	15
Total	15
3) Priority I Streets (Major Arterials)	Estimated Number of Trees
Green Ash	56

Priority	Estimated Number of Trees
American linden	9
Total:	65
4) Priority One Streets (Minor Arterials)	Estimated Number of Trees
American Linden	236
Green Ash	223
Schubert chokecherry	12
Silver Maple	154
Total:	525
5) Residential I	Estimated Number of Trees
Little-leaf linden	100
American linden	718
Norlin linden	75
Schubert chokecherry	315
Patmore ash	383
Manchurian ash	403
Bergeson ash	34
Fallgold black ash	80
Thunderchild crabapple	294
Radiant crabapple	116
Strathmore crabapple	74
Colorado spruce	100
Japanese lilac	29
Total:	2,721
6) Residential II	Estimated Number of Trees
Patmore ash	366
Manchurian ash	366
Fallgold black ash	367
American linden	366
Little leaf linden	366
Dropmore linden	183
Norlin linden	184
Thunderchild crabapple	183
Almey crabapple	183
Kelsey crabapple	183
Strathmore crabapple	184
Schubert chokecherry	550
Japanese lilac	
Total:	3,664
B. Parks, Buffers and Floodplains	Estimated Number of Trees
Manchurian ash	220
Patmore ash	110
Fallgold black ash	110
American linden	220
Little leaf linden	110

Priority	Estimated Number of Trees
Dropmore linden	110
Colorado spruce	220
Scots pine	110
Siberian larch	110
Schubert chokecherry	220
Thunderchild crabapple	110
Radiant crabapple	110
Assiniboine poplar	110
Northwest poplar	110
Laurel-leaf willow	55
Prairie cascade willow	55
Paper birch	50
Burr oak	30
Manitoba maple	30
Total:	2,200
Grand Total:	9,194

4.0 ESTIMATED TOTAL TREE PLANTINGS

The following table shows the estimated total for the new tree plantings and replacements for the city.

Table 7: Total Tree Plantings

Type of Planting	Estimated Number of Trees
New tree plantings	16,810*
Replacement plantings	9,194**
Grand Total:	26,004

* New tree plantings will require 15 years to complete.

** Replacement plantings will require 11 years to complete.