



THE GABLES CANOPY COVER ASSUMPTIONS

Horticultural Assumptions

- + The canopy size is estimated at 20-years after planting. This considered the species, location, potential soil conditions and micro climates.
- + Coverage does not differentiate if a tree is evergreen or deciduous or if it is in full leaf or in winter dormancy.
- + No considerations have been allowed for leaf coverage per species. (i.e. if a tree has a light coverage or dense leaf coverage)
- + No shade analysis has been made, only tree canopy size and area.
- + Canopy size of trees in the individual lots have been calculated based on the species suggested in The Gables Design Guidelines. The plans do not show this level of detail as to what species is what, canopy cover has been estimated at the following sizes.
  - Front Yard: 3m and 4m canopies
  - Back Yard: 5m and 7m canopies
- + Canopies in the riparian corridors have been shown at the densities as indicated within the VMP and ranging from 4 to 18m in canopy diameter.
- + Assumed that no trees will die or be removed by residents within the next 20 years.

Drafting Assumptions

- + Drafted trees: assumed that the species that have been specified in the latest documentation (DA, CC, AFC etc) is what has or will be planted.
- + Proposed Trees: Where street tree plans have not yet been prepared species used are consistent with the Street Tree masterplan as prepared by AECOM in 2017.
- + Proposed Trees: Where open space has not yet been designed or species defined a random selection of canopies has been selected,
- + Riparian trees:
  - Use the rate provided by Cumberland Ecology: Vegetation Management Plan – Precinct E Report
  - Cumberland Plain Woodland (1 tree/30m2)
  - Riparian (1 tree/16m2)
  - SSTF (Shale Sandstone Transition Forest) (1 tree/10 m2)
  - A LISP tool was used to randomly scatter and scale trees within the parameters in the excel spreadsheet (min 3m to max 12m diameter canopy)
- + Private lot trees:
  - Less that 450m² – 2 trees
  - 450-2000m² – 3 trees
  - More than 2000m² – 4 trees
  - For areas that were not yet subdivided, a 'typical' arrangement was used to estimate the amount of trees within private lots
- + State Primary School: assumed canopy coverage of 40% is achieved.

Opportunities

- + Substitute street tree species not yet planted to increase canopy coverage
- + Canopy coverage within superlots

SPECIES AND TREE CLASSIFICATION BREAKDOWN

PUBLIC SPACE TREES		
SPECIES	SPREAD (M)	COUNT
Acacia floribunda	5	8
Acacia implexa	6	5
Acer freemanii 'Jeffersred'	7	28
Acer 'October Glory'	8	15
Acer rubrum	8	58
Acmena smithii	6	354
Acer platanoides 'Crimson Sentry'	4	32
Angophora costata	10	80
Angophora floribunda	6	12
Backhousia citriodora	3	232
Backhousia myrtifolia	4	7
Banksia integrifolia	4	5
Brachychiton populonus	8	138
Calodendrum capense	6	10
Corymbia citriodora	8	127
Corymbia ficifolia	3	6
Corymbia maculata	8	98
Corymbia citriodora 'Scentuous'	3	140
Cupaniopsis anacardioides	6	205
Elaeocarpus eumundii	4	4
Elaeocarpus reticulatus	4	49
Eucalyptus citriodora	8	61
Eucalyptus crebra	10	332
Eucalyptus eugenioides	10	68
Eucalyptus fibrosa	8	190
Eucalyptus haemastoma	7	27
Eucalyptus microcorys	10	226
Eucalyptus moluccana	8	144
Eucalyptus ovata	8	6
Eucalyptus paniculata	10	36
Eucalyptus sideroxylon 'Rosea'	5	16
Eucalyptus saligna	20	16
Eucalyptus sideroxylon	5	25
Eucalyptus tereticornis	18	151
Ficus microcarpa hillii	10	2
Ficus macrophylla	30	4

PUBLIC SPACE TREES		
SPECIES	SPREAD (M)	COUNT
Ficus rubiginosa	15	3
Franklinia axillaris	3	72
Fraxinus oxycarpa 'Raywoodii'	6	26
Fraxinus griffithii	4	57
Fraxinus pennsylvanica	7	777
Fraxinus pennsylvanica 'Urbanite'	7	29
Glochidion ferdinandi	9	17
Lagerstroemia indica	5	51
Leptospermum petersonii	3	6
Liquidambar styraciflua 'Oakville Highlight'	6	7
Lophostemon confertus	10	756
Magonia grandiflora 'Little Gem'	4	5
Melaleuca decora	4	15
Melaleuca linariifolia	5	11
Melaleuca quinquenervia	6	8
Melaleuca styphelioides	8	30
Prunus x blireana	3	35
Prunus cerasifera 'Nigra'	4	135
Pyrus calleryana	6	16
Pyrus calleryana 'Capital'	3	66
Pyrus calleryana 'Chanticleer'	5	242
Quercus palustris	8	71
Quercus palustris 'Pin Green'	3	158
Quercus rubra	9	2
Syncarpia glomulifera	12	18
Tristaniopsis laurina	5	245
Ulmus parvifolia	10	53
Waterhousia floribunda	5	514
Zelkova serrata	11	427
Drafted but not specified		195
Existing trees retained		28
TOTAL PUBLIC SPACE TREES		6992

RIPARIAN TREES		
TYPE	SPREAD (M)	COUNT
Cumberland Plain Woodland	3-18	3587
Riparian	3-18	5315
Shale Sandstone Transition Forest	3-18	8378
TOTAL RIPARIAN TREES		17280

PRIVATE LOT TREES		
TYPE	SPREAD (M)	COUNT
Front Yard A	5	2505
Front Yard B	4	1860
Back Yard C	7	1267
Back Yard D	6	1326
TOTAL PRIVATE LOT TREES		6958

TOTAL TREE COUNT		
TYPE	SPREAD (M)	COUNT
Public Space	3-30	6807
Riparian	3-18	17280
Public School	10	144
Private Lot	4-7	6958
TOTAL TREE COUNT		31374

CANOPY COVERAGE CALCULATIONS	
AREA	SIZE (ha)
Total Applicable Area (including Lake)	293.08
Total Applicable Area (not including Lake)	288.17
Total Canopy Cover	82.19
TOTAL CANOPY COVERAGE INCLUDING LAKE	28.04%
TOTAL CANOPY COVERAGE NOT INCLUDING THE LAKE	28.52%