Appendix A
LABCON NORTH AMERICA
Maximum Applied Water Allowance

The following calculations will help you determine your site specific water budget and establish a planting mix that will allow you to meet your water budget. Your Estimated Total Water Use must be less than your Maximum Applied Water Allowance.

1.) Maximum Applied Water Allowance (MAWA)

MAWA = (ETo) (0.62)[(0.6x LA) + (0.4 x SLA)]

Where:
ETo = Annual Net Reference Evapotranspiration (inches)
0.6 = ET Adjustment Factor
LA = Landscaped Area (square feet)
0.62 = Conversion factor (to gallons per square foot)
SLA = Portion of the landscape area identified as Special Landscape Area (square feet)
0.4 = the additional ET adjustment factor for Special Landscape Area (1.0 - 0.6 = 0.4)

A.) Net Evapotranspiration Calculation

39.46				
(Annual ETo)				
29.12 *(Annual Rainfall)*	x	.25	=	7.28 *(Effective Rainfall)*

Net Evapotranspiration Calculation = Annual ETo - Effective Rainfall = **32.18**

B.) Adjusted Landscape Area Calculation

44015 *(Landscaped Area)*	x 0.45 *Adjustment Factor*	= 26409
0 *(Special Landscaped Area)*	x 0.4 *Adjustment Factor*	= 0

Sum of Adjusted Landscape Area = **26409**

MAWA = 32.18 x 0.62 x 26409 = **526902 gallons**

2.) Estimated Total Water Use (ETWU)

A.) Net Evapotranspiration Calculation

Net Evapotranspiration Calculation = Annual ETo - Effective Rainfall = **32.18**

B.) Adjusted Landscape Area Calculation

44015 *(Low water use plant sqft)*	x 0.3	= 13204.5
0 *(Mod water use plant sqft)*	x 0.6	= 0
0 *(High water use plant sqft)*	x 1.0	= 0

Sum of Adjusted Landscape Area = **13,205**

ETWU = 32.18 x 0.62 x 13,205 / 0.81 = **325248 gallons**

Irrigation Efficiency Factor		
Percent of total landscape Irrigated with Drip		
0-25%		0.71
26-50%		0.75
51-75%		0.80
76-100%		0.81