APPENDIX D
SAMPLE CALCULATION/ESTIMATED TOTAL WATER USE (by Hydrozone)
Using the following formula from Appendix C: 7

| ETWU | $=(\mathrm{ETo}) \times(\mathrm{PF}) \times(\mathrm{LA}) \times(.62)] /(748) /(\mathrm{IE})$ |
| :--- | :--- |
| ETWU | $=$ Estimated Water Use (hundred cubic feet $)$ |
| ETo | $=$ Reference Evapotranspiration (inches) |
|  | $\quad[$ for period of estimate $]$ |
| PF | $=$ Plant Factor (Kc) |
| LA | $=$ Landscaped Area (in square feet) |
| .62 | $=$ Conversion Factor (to gallons per square foot) |
| 748 | $=$ Conversion Factor (to hundred cubic feet) |
| IE | $=$ Irrigation System Efficiency |

Project Site Example: Total landscaped area 60,000 square feet in Palm Desert near the intersection of Cook Street and Country Club Drive in Zone No. 2 (64.0" Annual ETo).

- 12,000 square feet of turf grass overseeded with rye grass in winter, irrigated with low angle rotor sprinklers.
- 32,700 square feet of "low" desert native plantings on drip irrigation.
- 15,300 square feet of "moderate" water using plantings on drip irrigation.

See Appendix C for formula factors. ETo is totaled for season. Turf grass plant factors are the average for the season and tree/shrub/groundcover plant factors are considered constant annually.

Plant Factors

| Turf <br> Grass | Low Native <br> Plants | Moderate <br> Shrubs |
| :--- | :---: | :---: |
|  | 0.20 |  |

$\mathrm{ETWU}=[(\mathrm{ETo}) \times(\mathrm{PF}) \times(\mathrm{LA}) \times(.62) /(748)] /(\mathrm{IE})=\mathrm{CCF}$
Overseeded Turf Grass: Season $=64.0 \times 0.7 \times 12,000 \times 0.62 \div 748 \div 0.80=557$ CCF Seasonal Turf ETWU $=557 \mathrm{CCF}$
"Low" Native Plants: Annual $=64.0 \times 0.2 \times 32,700 \times 0.62 \div 748 \div 0.90=385$ CCF
"Low" Native ETWU $=385$ CCF
"Moderate" Shrubs and Ground Cover: Annual $=64.0 \times 0.5 \times 15,300 \times 0.62 \div 748 \div 0.90=451$ CCF

$$
\begin{aligned}
& \text { "Moderate" ETWU }=451 \mathrm{CCF} \\
& \hline \text { Project Total ETWU }=1,393 \mathrm{CCF}
\end{aligned}
$$

## APPENDIX D

## SAMPLE CALCULATION

Maximum Applied Water Allowance (MAWA)

Using the following formula:

$$
\begin{array}{ll}
\mathrm{MAWA}= & {[(\mathrm{ETo}) \times(0.45) \times(\mathrm{LA}) \times(0.62)] /(748)} \\
\mathrm{MAWA}= & \text { Maximum Applied Water Allowance (CCF or hundred cubic feet) } \\
\text { ETo } & =\text { Reference Evapotranspiration (inches per year) } \\
0.45 & =\text { ET adjustment factor } \\
\text { LA } & =\text { Landscaped Area (square feet) } \\
0.62 & =\text { Conversion Factor (to gallons per square foot) } \\
748 & =\text { Conversion Factor (to hundred cubic feet) }
\end{array}
$$

Using the project for the Estimated Total Water Use example:
Landscaped area of 60,000 square feet in Palm Desert near the intersection of Cook Street and Country Club Drive in Zone No. 3 (64.0" Annual ETo).

$$
\begin{aligned}
\text { MAWA }= & 64.0(\mathrm{ETo}) \times(0.45) \times(\mathrm{LA}) \times(0.62) \div(748) \\
& =[64.0(0.45)(60,000)(0.62)] /(748) \\
\text { MAWA }= & 1,432 \mathrm{CCF}
\end{aligned}
$$

ETWU total of $1,393 \mathrm{CCF}$ is $<$ the MAWA of 1,432 CCF

