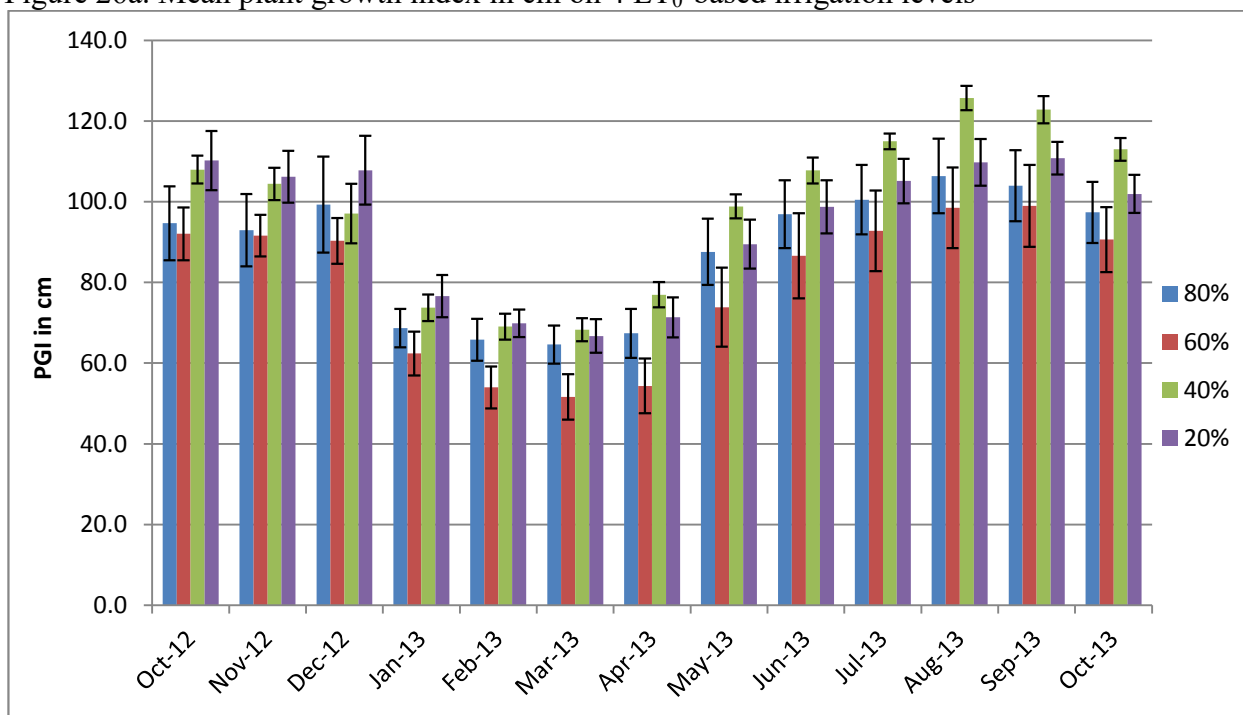


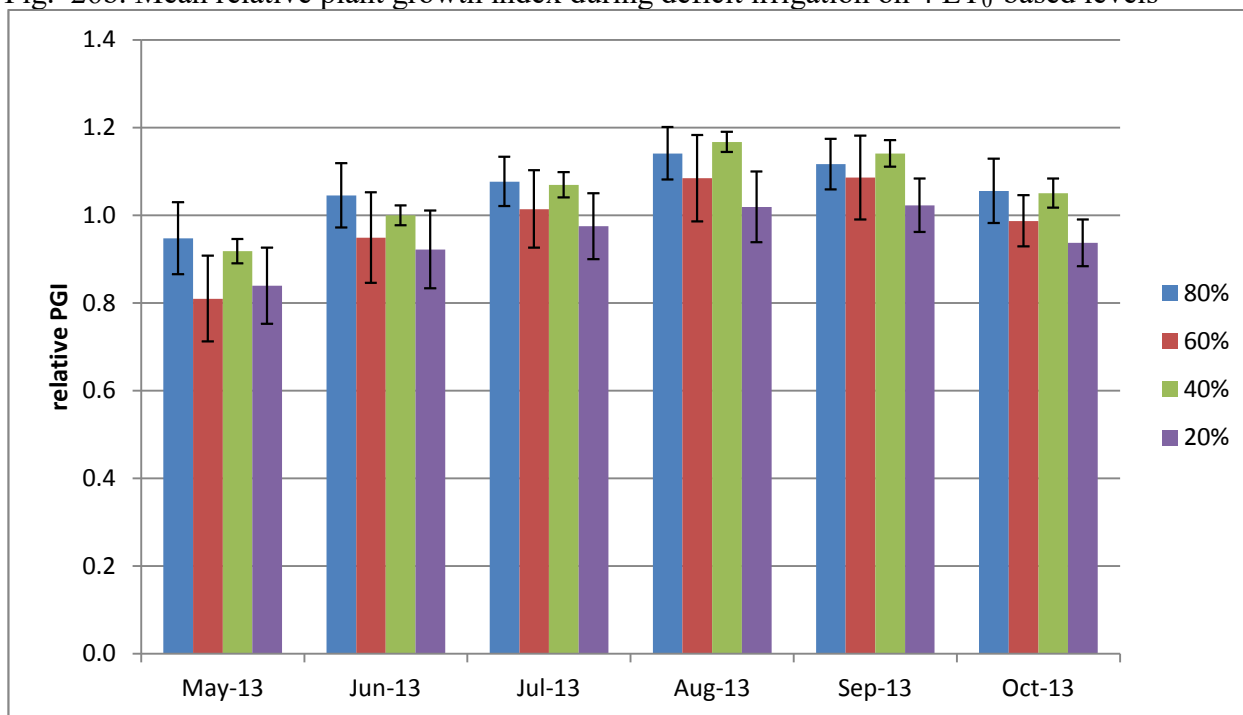
Kniphofia ‘Christmas Cheer’

Figure 26a. Mean plant growth index in cm on 4 ET₀-based irrigation levels



Error bars represent \pm 1 SE

Fig. 26b. Mean relative plant growth index during deficit irrigation on 4 ET₀-based levels



Error bars represent \pm 1 SE

Table 18. Mean quality ratings in 6 categories on 4 ET₀-based irrigation levels

| <i>Kniphofia</i> 'Christmas Cheer' | | | | | | | | | | | | | | |
|------------------------------------|------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------------|
| foliage | | OCT | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | AVG |
| | 80% | 3.7 | 3.0 | 2.0 | 2.0 | 2.8 | 3.7 | 4.0 | 3.8 | 3.5 | 3.7 | 3.5 | 3.3 | 3.3 |
| | 60% | 3.3 | 2.9 | 2.1 | 2.0 | 2.7 | 4.0 | 4.0 | 3.9 | 3.4 | 3.0 | 2.9 | 3.3 | 3.1 |
| | 40% | 3.3 | 2.9 | 2.0 | 2.0 | 3.2 | 4.0 | 3.8 | 3.8 | 3.8 | 3.7 | 3.3 | 3.5 | 3.3 |
| | 20% | 3.3 | 3.3 | 2.0 | 2.0 | 2.8 | 4.2 | 4.0 | 4.0 | 3.2 | 3.6 | 3.4 | 3.0 | 3.2 |
| flowering | | | | | | | | | | | | | | |
| | 80% | 3.3 | 5.0 | 1.5 | | | | | | | | | 4.0 | 3.5 |
| | 60% | 2.7 | 4.3 | 1.0 | | 3.0 | | | | | | | 1.0 | 2.4 |
| | 40% | 2.3 | 5.0 | 1.0 | | 2.0 | | | | | | | | 2.6 |
| | 20% | 1.0 | 4.2 | | | 1.0 | | | | | | | | 2.1 |
| pest tolerance | | | | | | | | | | | | | | |
| | 80% | 5.0 | 5.0 | | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 3.8 | 5.0 | 5.0 | 4.9 |
| | 60% | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 2.8 | 4.7 | 4.7 | 4.8 |
| | 40% | 4.7 | 5.0 | | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 3.7 | 5.0 | 5.0 | 4.8 |
| | 20% | 4.8 | 4.7 | | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 3.6 | 5.0 | 5.0 | 4.8 |
| disease resistance | | | | | | | | | | | | | | |
| | 80% | 4.0 | 3.0 | | 5.0 | 4.5 | 4.5 | 5.0 | 4.5 | 4.3 | 4.7 | 4.7 | 5.0 | 4.5 |
| | 60% | 3.7 | 2.9 | 5.0 | 5.0 | 5.0 | 4.7 | 5.0 | 4.6 | 4.1 | 4.7 | 4.7 | 4.4 | 4.5 |
| | 40% | 4.3 | 2.8 | | 5.0 | 5.0 | 4.8 | 5.0 | 4.7 | 4.5 | 5.0 | 5.0 | 5.0 | 4.7 |
| | 20% | 3.5 | 3.7 | | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 4.4 | 5.0 | 4.8 | 5.0 | 4.7 |
| vigor | | | | | | | | | | | | | | |
| | 80% | 4.2 | 4.3 | 4.3 | 4.0 | 3.3 | 3.5 | 3.5 | 4.2 | 4.3 | 4.5 | 4.3 | 4.3 | 4.1 |
| | 60% | 3.6 | 3.9 | 3.1 | 3.0 | 3.0 | 3.3 | 3.3 | 3.7 | 3.6 | 3.7 | 3.6 | 3.3 | 3.4 |
| | 40% | 4.2 | 4.3 | 4.0 | 3.7 | 4.0 | 4.0 | 4.3 | 4.3 | 4.2 | 4.5 | 4.3 | 4.5 | 4.2 |
| | 20% | 3.8 | 3.5 | 3.2 | 3.4 | 3.4 | 4.2 | 4.2 | 4.8 | 4.2 | 4.4 | 4.6 | 4.6 | 4.0 |
| overall appearance | | | | | | | | | | | | | | |
| | 80% | 4.3 | 4.9 | 1.8 | 2.0 | 2.7 | 3.0 | 3.3 | 3.3 | 3.7 | 3.7 | 3.7 | 3.5 | 3.3 |
| | 60% | 3.6 | 4.5 | 2.1 | 2.0 | 2.7 | 3.0 | 3.4 | 3.2 | 3.1 | 2.9 | 2.9 | 3.1 | 3.0 |
| | 40% | 3.8 | 4.7 | 2.0 | 2.0 | 2.8 | 3.0 | 3.5 | 3.5 | 3.8 | 3.7 | 3.3 | 3.5 | 3.3 |
| | 20% | 3.8 | 4.3 | 2.0 | 2.0 | 2.8 | 3.4 | 4.0 | 3.7 | 3.2 | 3.7 | 3.6 | 3.0 | 3.3 |

Table 19. Master Gardener average annual quality ratings and 2-year growth for *Kniphofia* ‘Christmas Cheer’

| COUNTY | Alameda | Nevada | Orange | SD inland | SD coastal | San Joaquin | Shasta | Ventura |
|--------------------|------------|------------|----------------|---------------------|------------|-------------|------------|---------------|
| Sunset Zone | 9 | 7 | 23 | 21/23 | 24 | 14 | 9 | 21 |
| foliage | 3.8 | 3.5 | 3.2 | 3.5 | 3.4 | 4.0 | 2.7 | 3.4 |
| flower | 2.9 | 3.4 | 2.8 | 3.3 | 3.7 | 3.2 | 2.7 | 1.8 |
| bloom period | Sep-Jan | Nov-Dec | Jul-Sep Jan | Jul-Aug, Nov-Dec | Nov-Dec | Sep-Mar | Nov-Jan | year round |
| pest tolerance | 4.9 | 5.0 | 4.9 | 4.0 | 3.9 | 4.8 | 5.0 | 5.0 |
| disease resistance | 4.9 | 5.0 | 5.0 | 4.1 | 4.9 | 6.0 | 5.0 | 5.0 |
| vigor | 4.3 | 3.8 | 3.2 | 3.7 | 3.5 | 4.0 | 2.9 | 3.4 |
| overall appearance | 3.9 | 3.4 | 3.1 | 3.2 | 3.1 | 4.1 | 2.7 | 3.1 |
| MSMTS | | | | | | | | |
| relative PGI | 2.7 | 2.1 | 7.4 | 0.7 | 1.0 | 1.2 | 2.5 | 1.5 |
| avg ht (cm) | 91 | 91 | 43 | 36 | 51 | 86 | 67 | 80 |
| avg wd (cm) | 161 | 158 | 88 | 81 | 89 | 133 | 118 | 152 |
| AVG HT (in) | 36 | 36 | 17 | 14 | 20 | 34 | 27 | 31 |
| AVG WD (in) | 63 | 62 | 35 | 32 | 35 | 52 | 46 | 60 |