Sampling protocol for monthly diurnal curves.

Measure diurnal changes in:

* Stomatal conductance (Li600)
* øPSII (Li600)
* Leaf temperature (li600)
* Assimilation (Li6800 – lower intensity)
* JO (rate of photorespiratory electron flux, from measurement of A, Rd and ETR – dependent on øPSII to øCO2 model derived from non-photorespiratory conditions)

Sampling intensity:

-For Li6800 measurement, per 2-hour block:

|  |  |  |  |
| --- | --- | --- | --- |
|  | Group 1 | Group 2 | Group 3 |
| Non-irrigated | 6 | 9 | 9 |

-For Li600 measurement, per 2-hour block:

|  |  |  |  |
| --- | --- | --- | --- |
|  | Group 1 | Group 2 | Group 3 |
| Non-irrigated | 12 | 18 | 18 |

w/ complete overlap of the Li6800 samples to aid in double sampling.

Groups being defined as: high PLGG1, low PLGG1, control.

When # of samples > 3, divide equally between events in group so that each event has at least three.

**If** we decide to go with irrigation treatment:

-For Li6800 measurement, per 2-hour block:

|  |  |  |  |
| --- | --- | --- | --- |
|  | Group 1 | Group 2 | Group 3 |
| Irrigated | 2 | 3 | 3 |
| Non-irrigated | 6 | 9 | 9 |

-For Li600 measurement, per 2-hour block:

|  |  |  |  |
| --- | --- | --- | --- |
|  | Group 1 | Group 2 | Group 3 |
| Irrigated | 6 | 6 | 6 |
| Non-irrigated | 12 | 15 | 15 |