

LARSPEC Identification Record Codes

1. Experimenters Parameters

Experimenter parameter 09: Air temperature as measured by a probe attached to the boom supporting the multiband radiometer in degrees Celsius.

Experimenter parameter 10: Radiant temperature as measured by a precision radiation thermometer (PRT-5) obliquely viewing the top surface of the canopy in degrees Celsius.

Dates Spectral Data Collected (Exotech 20C)

| Plot Number | Crop | Number of Observations Collected | |
|-------------|------------|----------------------------------|-----|
| | | 6/26 | 8/7 |
| 91 | Alfalfa | 2 | - |
| 92 | Alfalfa | 2 | - |
| 93 | Sunflowers | 3 | 1 |
| 94 | Sunflowers | - | 2 |

| Date | Day of Year | Time Period (GMT) | | Solar Zenith Angle Range (degrees) max-min-max | Solar Azimuth Angle Range (degrees) | Cloud Cover (%) |
|------|-------------|-------------------|-------|---|-------------------------------------|-----------------|
| | | Start | Stop | | | |
| 6/26 | 177 | 17:50 | 18:21 | 17 - 18 | 180-203 | 10 |
| 8/7 | 219 | 20:21 | 20:26 | 40 - 41 | 244-245 | 0 |

Dates Spectral Data Collected: (Exotech 100)

| Plot Number | Crop | Number of Observations Collected | | | | | | | | | | |
|-------------|-----------------|----------------------------------|-----|------|------|------|------|-----|-----|------|------|-------|
| | | 6/26 | 7/2 | 7/10 | 7/16 | 7/18 | 8/12 | 9/4 | 9/9 | 9/17 | 9/24 | 10/29 |
| 91 | Alfalfa | 2 | 2 | 2 | 2 | - | - | 2 | 2 | 2 | - | 2 |
| 92 | Alfalfa | 2 | 2 | 2 | 2 | - | - | 2 | 2 | 2 | 2 | 2 |
| 93 | Sunflowers | 2 | 2 | - | - | - | - | 2 | 2 | 2 | 2 | 2 |
| 94 | Sunflowers | - | 2 | - | - | - | - | 2 | 2 | 2 | 2 | 2 |
| 95 | Late Sunflowers | - | - | - | - | - | - | 2 | 2 | 2 | 2 | 2 |
| 96 | Late Sunflowers | - | - | - | - | - | - | 2 | 2 | 2 | - | 2 |
| 97 | Soybean | - | - | - | - | - | - | - | - | - | - | 2 |
| 98 | Corn | - | - | - | - | - | - | - | - | - | - | 2 |
| 99 | Corn | - | - | - | - | - | - | - | - | - | - | 2 |
| | Weeds | - | - | - | - | 2 | 2 | - | - | - | - | - |

Illumination Conditions for Spectral Data Collection (Exotech 100)

| Date | Day of Year | Time Period (GMT) | | Solar Zenith Angle Range (degrees) | Solar Azimuth Angle Range (degrees) | Cloud Cover (%) |
|-------|-------------|-------------------|-------|------------------------------------|-------------------------------------|-----------------|
| | | Start | Stop | max-min-max | | |
| 6/26 | 177 | 16:19 | 17:54 | 26 - 17 | 125-183 | 10 |
| 7/2 | 183 | 15:53 | 17:37 | 30 - 18 | 116-169 | 5 |
| 7/10 | 191 | 16:20 | 16:21 | 27 - 27 | 126-126 | 15 |
| 7/16 | 197 | 15:47 | 15:48 | 33 - 33 | 116-116 | 5 |
| 7/18 | 199 | 17:03 | 17:03 | 22 - 22 | 147-147 | 5 |
| 8/12 | 224 | 16:45 | 16:45 | 29 - 29 | 145-145 | 0 |
| 9/4 | 247 | 17:47 | 17:53 | 33 - 33 | 180-183 | 5 |
| 9/9 | 252 | 16:34 | 16:38 | 38 - 38 | 151-152 | 0 |
| 9/17 | 260 | 19:07 | 19:14 | 42 - 43 | 212-215 | ? |
| 9/24 | 267 | 17:06 | 17:12 | 41 - 41 | 167-169 | ? |
| 10/29 | 302 | 17:06 | 17:39 | 54 - 53 | 172-182 | 0 |