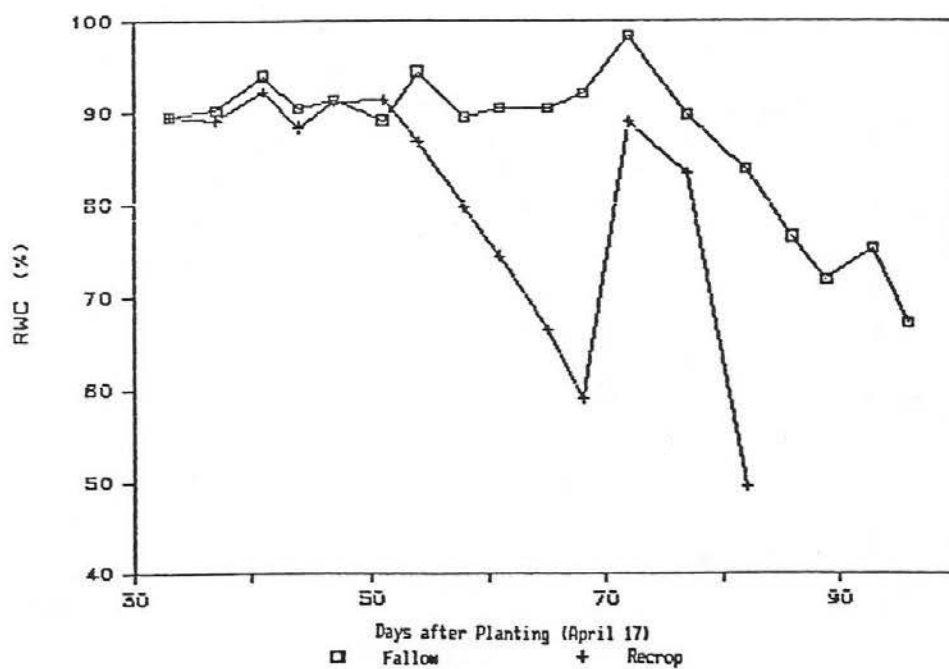


Crop Development Study

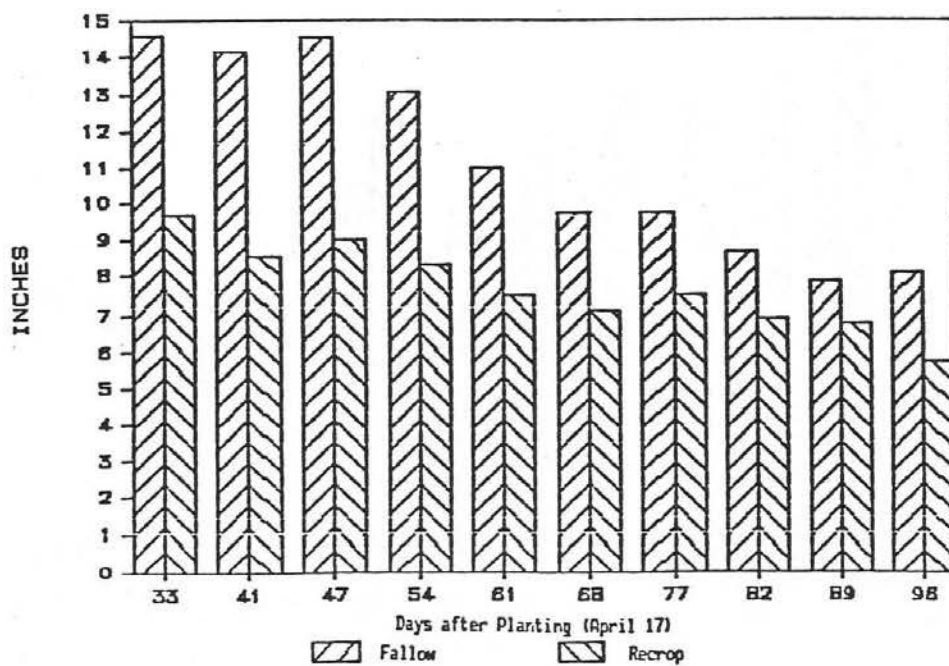
The Crop Development Study was initiated to estimate drought stress and to quantify its effects on the physiological development of wheat. Hard red spring wheat planted on fallow was compared to wheat following sunflowers. Leaves were clipped twice per week and drought stress was estimated using the Relative Water Content which is the ratio of fresh leaf weight to turgid leaf weight. Soil moisture was measured once per week to a depth of 48 inches in 12 inch increments. Approximate wilting point for 48 inches of soil is 7 inches of water.

| | Bu/A Avg. | Test Wt. Lbs. | Protein % |
|-------------|----------------------|--------------------------|----------------------|
| 1985 Fallow | 37.7 | 60.8 | 15.4 |
| Recrop | 16.9 | 57.0 | 16.4 |
| | | | |
| 1986 Fallow | 57.8 | 62.0 | 14.7 |
| Recrop | 39.5 | 62.5 | 15.1 |

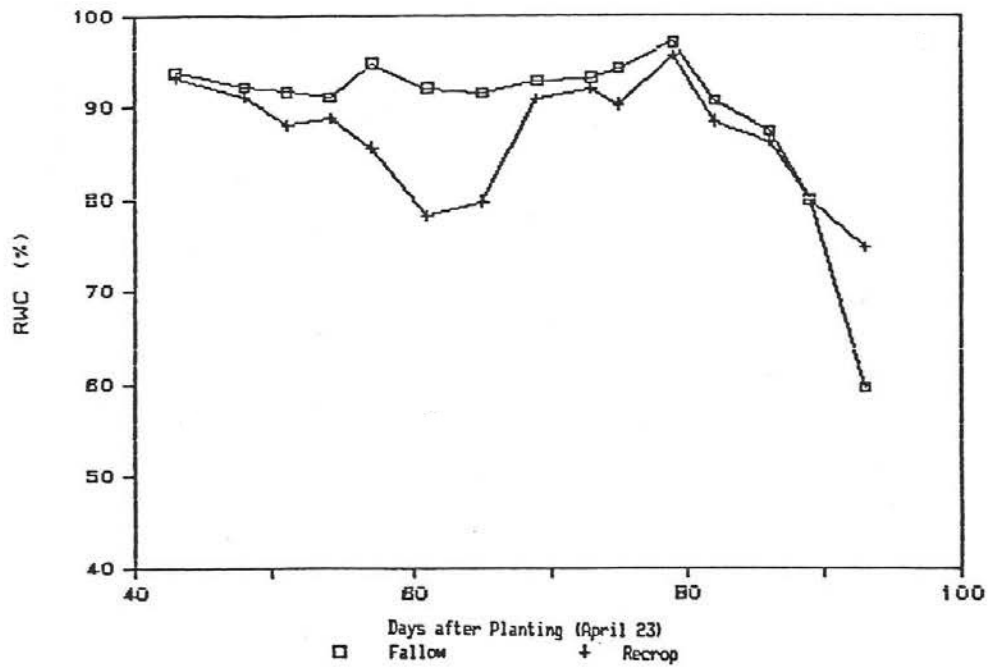
Relative Water Content, 1985



Total Soil Water, 1985



Relative Water Content, 1986



Total Soil Water, 1986

