

ALASKA CROP-WEATHER



Alaska Division of Agriculture
Alaska Cooperative Extension
Ag & Forestry Experiment Station

U.S. Department of Agriculture
National Agricultural Statistics Service
P.O. Box 799
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GENERAL: There were **4.0 days suitable for fieldwork** statewide last week. Daytime high temperatures were in the seventies and eighties across most of the state. Lows were generally in the forties and fifties. **Topsoil moisture** supplies were reported as 25% short and 75% adequate. **Subsoil moisture** supplies were reported as 40% short, and 60% adequate. The **barley** crop was reported as 25% in dough, compared with the five year average of 39% dough. Condition of the barley crop was reported as 10% poor, 60% fair, 30% good. The **oat** crop was 100% headed. Condition of the oat crop was 10% poor, 45% fair, 45% good. **Potatoes** were reported as 15% in bloom. Condition of the potato crop was 5% poor, 15% fair, 60% good, 20% excellent. **First cutting hay** harvest was reported as 85% complete. Condition of the **hay** crop was 10% poor, 30% fair, 50% good, 10% excellent. **Range and pasture conditions** were reported as 5% poor, 25% fair, 60% good, 10% excellent. Rain fell in the Delta Junction area last week, stopping the hay harvest but providing some much needed moisture to crops.

| CROP WEATHER SUMMARY July 14- July 20, 2003 | | |
|---|---------------------|---------------------|
| DAYS SUITABLE FOR FIELDWORK: 4.0 | | |
| CROP | TOPSOIL MOISTURE | SUBSOIL MOISTURE |
| SHORT | 25% | 40% |
| ADEQUATE | 75% | 60% |
| SURPLUS | 0% | 0% |
| PAN EVAPORATION FOR 07/14 - 07/20 MAT AES SITE: +1.222 | | |

TANANA VALLEY: An average of **1.0 days were suitable for fieldwork** due to rain falling much of the week. **Topsoil moisture** improved to 20% short, 80% adequate. **Subsoil moisture supplies** were 40% short, 60% adequate. **Barley** was 25% in the dough stage. Condition of the barley crop was reported as 10% poor, 60% fair, 30% good. The **oat** crop was 100% headed. Condition of the oat crop was 10% poor, 60% fair, 30% good. **Potatoes** were reported as 100% emerged, 0% in bloom. Condition of the potato crop was 10% poor, 20% fair, 50% good, 20% excellent. **First cutting hay** harvest was reported again as 85% complete with rain hampering harvest. Condition of the **hay** crop was 20% poor, 50% fair, 30% good. **Farm activities** for the week included tedding hay, fertilizing second cutting brome hay acres, and general maintenance.

MATANUSKA VALLEY: An average of **7.0 days were suitable for fieldwork**. **Topsoil moisture** was reported at 25% short, 75% adequate. **Subsoil moisture supplies** were 35% short, 65% adequate. **Barley** was generally in the dough stage with a few fields showing some color. The **oat** crop was 100% headed. Condition of the barley and oat crops was 100% good. **Potatoes** were reported as 20% in bloom. Condition of the potato crop was 10% fair, 70% good, 20% excellent. **First cutting hay** harvest was reported as 85% complete. Condition of the **hay** crop was 75% good, 25% excellent. Major **farm activities** during the week included harvesting hay and vegetables, weed control, fertilizing and irrigating.

KENAI PENINSULA: An average of **6.0 days were suitable for fieldwork**. **Topsoil moisture** was reported at 35% short, 65% adequate. **Subsoil moisture supplies** were 30% short, 70% adequate. **Potatoes** were reported as 35% in bloom, a correction from last week's data. Condition of the potato crop was 5% fair, 55% good, 40% excellent. **First cutting hay** harvest was reported as 80% complete. Condition of the **hay** crop was 5% fair, 50% good, 45% excellent. Major **farm activities** for the week included harvesting hay and vegetables, fertilizing hay, weed control, fencing and irrigating.

Soil Temperatures (F⁰) at 4 inch depth

| | Grass | | | Fallow land | | | Temperature | | Precip (in.) |
|------------------------|-------|------|------|-------------|------|------|-------------|-----|--------------|
| | 2003 | 2002 | 2001 | 2003 | 2002 | 2001 | High | Low | |
| UAF-AFES, Trunk Road | 55 | 64 | 54 | 70 | 65 | 60 | 82 | 47 | 0.00 |
| Sawmill Creek | 53 | na | 62 | na | na | na | 80 | 37 | 1.82 |
| Plant Materials Center | na | 63 | 60 | na | 58 | 62 | na | na | na |

PAN EVAPORATION: Pan evaporation is an indirect estimation of evapotranspiration or consumptive water use by plants. For purposes of watering or irrigation of plants, it is a good indicator of climatic effects on water use by crops. A positive reading indicates that evaporation exceeded precipitation.

Weather Summary For Alaska Agricultural Statistics Service

Prepared By AWIS, Inc.

For the Period: Monday July 14, 2003
 To: Sunday July 20, 2003

| STATION | LAST WEEK WEATHER SUMMARY | | | | | | May 1, 03 - July 20, 03 | | | | | GDD |
|-----------------|---------------------------|----|-----|---------------|-------|------|-------------------------|-------|------|--------------|------|------|
| | TEMPERATURE | | | PRECIPITATION | | | PRECIPITATION | | | GDD BASE 50F | | BASE |
| | HI | LO | AVG | DFN | TOTAL | DAYS | TOTAL | DFN | DAYS | TOTAL | DFN | TOT |
| Fairbanks_Intl | 78 | 41 | 56 | -7 | 1.17 | 5 | 2.24 | -0.83 | 17 | 550 | -49 | 1214 |
| Fairbanks/Eiels | 77 | 41 | 56 | -7 | 1.04 | 4 | 3.12 | -0.68 | 28 | 590 | +29 | 1284 |
| Nenana_Muni_AM | 77 | 38 | 55 | -7 | 1.41 | 5 | 4.63 | +1.97 | 29 | 463 | -46 | 1090 |
| Ftgreely/Allen | 77 | 36 | 54 | -8 | 2.03 | 5 | 3.48 | -1.47 | 21 | 469 | -42 | 1095 |
| Healy_River_Air | 79 | 37 | 57 | -4 | 1.57 | 5 | 4.20 | -0.61 | 42 | 466 | +63 | 1091 |
| Gulkana_Arpt_A | 83 | 39 | 61 | +4 | 0.00 | 0 | 2.46 | -0.83 | 22 | 325 | +70 | 925 |
| Sutton | 76 | 39 | 61 | +4 | 0.52 | 3 | 4.80 | +1.12 | 45 | 325 | +68 | 982 |
| Palmer_Municipa | 79 | 47 | 63 | +5 | 0.05 | 2 | 2.39 | -0.87 | 29 | 423 | +66 | 1154 |
| Talkeetna | 89 | 48 | 65 | +6 | 4.11 | 4 | 9.97 | +3.97 | 36 | 647 | +288 | 1387 |
| Willow_Airport | 81 | 46 | 65 | +7 | 0.61 | 2 | 4.16 | +1.44 | 43 | 557 | +229 | 1292 |
| Anchorage_Intl | 80 | 49 | 64 | +6 | 0.01 | 1 | 2.18 | -0.54 | 24 | 451 | +112 | 1169 |
| Kenai_Municipal | 78 | 43 | 60 | +6 | 0.00 | 0 | 3.82 | +0.74 | 27 | 250 | +79 | 883 |
| Homer | 70 | 44 | 58 | +4 | 0.01 | 1 | 2.65 | -0.26 | 28 | 174 | +37 | 803 |
| Kodiak | 79 | 47 | 57 | +3 | 0.20 | 2 | 10.35 | -4.13 | 46 | 177 | +42 | 792 |

DFN = Departure From Normal (Using 1961-90 Normals Period).
 Precipitation (Rainfall or melted snow/ice) and Pan Evap in inches.
 Precipitation Days = Days with precip of .01 inch or more.
 Air Temperatures in Degrees Fahrenheit.

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