Climatography of the United States No. 20 1971-2000

National Climatic Data Center Federal Building 151 Patton Avenue Asheville, North Carolina 28801 www.ncdc.noaa.gov

COOP ID: 455231

Lon: 119°18W

Station: MCNARY DAM, WA

Climate Division: WA 8 NWS Call Sign:

Temperature (°F) Degree Days (1) Mean (1) Mean Number of Days (3) **Extremes** Base Temp 65 Max Max Max Max Min Min Highest Lowest Daily Daily Highest Lowest Month(1) Month(1) Cooling >= >= >= <= <= <= Month Mean Year Day Year Year Day Year Heating Max Min Daily(2) Daily(2) Mean Mean 100 90 50 32 32 0 39.5 28.6 34.1 67 +1990 10 40.8 1990 -22 1957 27 18.4 1979 960 0 .0 .0 5.8 6.7 19.6 .2 Jan 45.9 30.8 38.4 70 +1982 16 43.2 1999 -7+ 1996 3 26.3 1989 747 0 .0 .0 11.9 2.7 15.3 .4 Feb Mar 55.6 35.4 45.5 79 1960 25 49.4 1983 12 +1993 2 40.6 1993 604 0 .0 .0 26.9 .2 7.2 0. 29+1975 Apr 63.4 40.8 52.1 90 1977 24 56.1 1987 1997 13 46.6 388 .0 @ 29.8 .0 1.0 0. May 71.1 47.8 59.5 104 1983 30 63.1 1993 34 1986 23 55.6 1977 191 17 .1 1.1 31.0 .0 .0 .0 54.1 17 35 61.9 78.0 66.1 106 1961 71.8 1992 1974 8 1981 66 98 .2 4.6 30.0 .0 .0 .0 Jun Jul 85.9 60.1 73.0 17 79.4 1998 43 1963 31 67.4 1993 10 258 2.1 14.0 31.0 0. 110 1960 .0 .0 1975 85.8 60.1 73.0 111 1961 4 77.6 1986 43 +1964 11 68.3 11 257 1.5 12.5 31.0 .0 .0 .0 Aug 7 34 Sep 76.4 52.2 64.3 103 1955 70.2 1990 1983 30 59.6 1985 105 83 .0 1.7 30.0 .0 .0 .0 2 50.6 1984 Oct 63.7 42.8 53.3 87+ 1991 59.2 1988 20 1971 29 366 1 .0 .0 30.5 .0 1.4 .0 49.0 35.8 42.4 75+ 1999 13 47.6 1998 -2 1955 30.3 1985 678 0 .0 .0 17.2 1.0 8.3 .0 Nov 16 Dec 40.5 30.0 35.3 67 1982 4 40.9 1973 -9 1983 24 22.9 1985 924 0 .0 .0 6.6 5.4 18.7 .5 Aug Jul Jan Jan 62.9 43.2 53.1 111 1961 4 79.4 1998 -22 1957 27 18.4 1979 5050 715 3.9 33.9 281.7 71.5 16.0 1.1 Ann

Complete documentation available from: www.ncdc.noaa.gov/oa/climate/normals/usnormals.html

Issue Date: February 2004 056-A

Elevation: 361 Feet Lat: 45°56N

- (2) Derived from station's available digital record: 1954-2001
- (3) Derived from 1971-2000 serially complete daily data

⁺ Also occurred on an earlier date(s)

[@] Denotes mean number of days greater than 0 but less than .05

⁽¹⁾ From the 1971-2000 Monthly Normals

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COOP ID: 455231

Station: MCNARY DAM, WA

Climate Division: WA 8

NWS Call Sign: Elevation: 361 Feet Lat: 45°56N Lon: 119°18W

| | | | | | | | | | | Pı | ecipi | tation | (incl | nes) | | | | | | | | | | | |
|-------|------|---|------------------|-------------|-----|-----------------------|-------------|----------------------|-------------|------------|------------|-----------------|------------|--|------|------|------|------|------|------|------|------|-------|-------|--|
| | - | Precipitation Totals Means/ Medians(1) Extremes | | | | | | | | | | Jumbo ays (3 |) | Precipitation Probabilities (1) Probability that the monthly/annual precipitation will be equal to or less than the indicated amount Monthly/Annual Precipitation vs Probability Levels These values were determined from the incomplete gamma distribution | | | | | | | | | | | |
| Month | Mean | Med- ian | Highest Daily(2) | Year | Day | Highest Monthly(1) | Year | Lowest Monthly(1) | Year | >= 0.01 | >= 0.10 | >= 0.50 | >= 1.00 | .05 | .10 | .20 | .30 | .40 | .50 | .60 | .70 | .80 | .90 | .95 | |
| Jan | 1.01 | .86 | .92 | 1975 | 26 | 2.28 | 1975 | .03 | 1977 | 10.7 | 3.6 | .1 | .0 | .21 | .31 | .45 | .59 | .72 | .87 | 1.03 | 1.23 | 1.49 | 1.90 | 2.29 | |
| Feb | .77 | .61 | .70 | 1997 | 1 | 1.77 | 1983 | .00 | 1988 | 9.5 | 2.6 | .1 | .0 | .16 | .26 | .39 | .50 | .60 | .70 | .81 | .95 | 1.12 | 1.38 | 1.63 | |
| Mar | .75 | .69 | .58 | 1957 | 2 | 2.06 | 1983 | .04 | 1994 | 9.1 | 2.5 | @ | .0 | .14 | .21 | .32 | .42 | .52 | .63 | .76 | .91 | 1.11 | 1.43 | 1.74 | |
| Apr | .62 | .44 | 1.13 | 1988 | 21 | 1.89 | 1988 | .02 | 1977 | 6.2 | 1.9 | .2 | @ | .03 | .06 | .13 | .21 | .31 | .42 | .56 | .74 | 1.00 | 1.45 | 1.90 | |
| May | .65 | .59 | 1.01 | 1994 | 16 | 1.61 | 1994 | .09 | 1992 | 6.1 | 2.3 | .1 | @ | .14 | .21 | .30 | .39 | .47 | .56 | .67 | .79 | .95 | 1.21 | 1.46 | |
| Jun | .43 | .37 | .57 | 1996 | 28 | 1.22 | 1984 | .00 | 1986 | 4.4 | 1.4 | .1 | .0 | .01 | .03 | .09 | .15 | .22 | .30 | .40 | .52 | .70 | 1.00 | 1.31 | |
| Jul | .25 | .20 | .62 | 1989 | 1 | 1.00 | 1992 | .00+ | 2000 | 2.3 | .8 | .1 | .0 | .00 | .02 | .06 | .10 | .14 | .18 | .24 | .30 | .40 | .55 | .71 | |
| Aug | .37 | .25 | .88 | 1979 | 14 | 1.62 | 1978 | .00+ | 2000 | 2.9 | 1.0 | .2 | .0 | .00 | .00 | .00 | .05 | .12 | .20 | .30 | .44 | .63 | .98 | 1.32 | |
| Sep | .39 | .32 | .83 | 1982 | 26 | 1.79 | 1982 | .00+ | 1991 | 4.0 | 1.4 | .1 | .0 | .00 | .00 | .01 | .07 | .14 | .23 | .33 | .47 | .67 | 1.01 | 1.36 | |
| Oct | .59 | .54 | 2.12 | 1957 | 1 | 1.93 | 1982 | .00+ | 1988 | 5.7 | 1.9 | .1 | @ | .00 | .06 | .16 | .26 | .36 | .46 | .59 | .73 | .94 | 1.27 | 1.60 | |
| Nov | 1.18 | 1.14 | 1.68 | 1996 | 19 | 3.23 | 1973 | .06 | 1993 | 11.0 | 4.0 | .2 | @ | .18 | .28 | .45 | .61 | .78 | .97 | 1.18 | 1.43 | 1.78 | 2.34 | 2.88 | |
| Dec | 1.12 | .93 | 1.02 | 1964 | 22 | 3.61 | 1973 | .20 | 1997 | 11.1 | 3.9 | .2 | .0 | .21 | .30 | .47 | .62 | .77 | .94 | 1.13 | 1.36 | 1.66 | 2.15 | 2.62 | |
| Ann | 8.13 | 8.16 | 2.12 | Oct 1957 | 1 | 3.61 | Dec 1973 | .00+ | Aug 2000 | 83.0 | 27.3 | 1.5 | .0 | 4.76 | 5.36 | 6.16 | 6.78 | 7.35 | 7.90 | 8.48 | 9.14 | 9.95 | 11.14 | 12.19 | |

⁺ Also occurred on an earlier date(s)

Complete documentation available from:

www.ncdc.noaa.gov/oa/climate/normals/usnormals.html

[#] Denotes amounts of a trace

[@] Denotes mean number of days greater than 0 but less than .05

^{**} Statistics not computed because less than six years out of thirty had measurable precipitation

⁽¹⁾ From the 1971-2000 Monthly Normals

⁽²⁾ Derived from station's available digital record: 1954-2001

⁽³⁾ Derived from 1971-2000 serially complete daily data

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COOP ID: 455231

Station: MCNARY DAM, WA

Climate Division: WA 8 NWS Call Sign: Elevation: 361 Feet Lat: 45°56N Lon: 119°18W

| | | | | | | | | | | Snov | w (incl | nes) | | | | | | | | | | | |
|-------|----------------------|------------------------|-----------------------|-------------------------|----------------------------------|-------------|-------|------------------------------------|-------------|-----------------------------------|-------------|------|---|-------------|-----|-----|-------|--------------------------|------|--------|---------------|----|----|
| | | | | | | Sno | ow To | tals | | | | | | | | | Mea | n Nu | mber | of Day | VS (1) | | |
| | Mean | s/Medi | ans (1) | 1 | Extremes (2) | | | | | | | | | | | | ow Fa | Snow Depth >= Thresholds | | | | | |
| Month | Snow Fall Mean | Snow Fall Median | Snow Depth Mean | Snow Depth Median | Highest Daily Snow Fall | Year | Day | Highest Monthly Snow Fall | Year | Highest Daily Snow Depth | Year | Day | Highest Monthly Mean Snow Depth | Year | 0.1 | 1.0 | 3.0 | 5.0 | 10.0 | 1 | 3 | 5 | 10 |
| Jan | .8 | .0 | # | 0 | 3.0 | 1978 | 3 | 3.0 | 1974 | 12 | 1993 | 19 | 6 | 1993 | 1.1 | .6 | .1 | .0 | .0 | .2 | .1 | .1 | .0 |
| Feb | .5 | .0 | # | 0 | 3.8 | 1973 | 11 | 4.3 | 1973 | 4 | 1993 | 28 | 1 | 1993 | .4 | .2 | .1 | .0 | .0 | .0 | .0 | .0 | .0 |
| Mar | .1 | .0 | # | 0 | .4 | 1993 | 2 | .8 | 1993 | 5 | 1993 | 3 | 1 | 1993 | .1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| Apr | .0 | .0 | 0 | 0 | .0 | 0 | 0 | .0 | 0 | 0 | 0 | 0 | 0 | 0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| May | .0 | .0 | 0 | 0 | .0 | 0 | 0 | .0 | 0 | 0 | 0 | 0 | 0 | 0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| Jun | .0 | .0 | 0 | 0 | .0 | 0 | 0 | .0 | 0 | 0 | 0 | 0 | 0 | 0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| Jul | .0 | .0 | 0 | 0 | .0 | 0 | 0 | .0 | 0 | 0 | 0 | 0 | 0 | 0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| Aug | .0 | .0 | 0 | 0 | .0 | 0 | 0 | .0 | 0 | 0 | 0 | 0 | 0 | 0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| Sep | .0 | .0 | 0 | 0 | .0 | 0 | 0 | .0 | 0 | 0 | 0 | 0 | 0 | 0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| Oct | .0 | .0 | 0 | 0 | .0 | 0 | 0 | .0 | 0 | 0 | 0 | 0 | 0 | 0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| Nov | .5 | .0 | 0 | 0 | 4.0 | 1977 | 22 | 6.0 | 1977 | 6 | 1977 | 24 | 1 | 1977 | .2 | .2 | .1 | .0 | .0 | .2 | .2 | .1 | .0 |
| Dec | .6 | .0 | # | 0 | 5.0 | 1972 | 12 | 5.0 | 1972 | 1 | 1987 | 31 | # | 1987 | .4 | .2 | .1 | .1 | .0 | .2 | .0 | .0 | .0 |
| Ann | 2.5 | .0 | N/A | N/A | 5.0 | Dec 1972 | 12 | 6.0 | Nov 1977 | 12 | Jan 1993 | 19 | 6 | Jan 1993 | 2.2 | 1.2 | .4 | .1 | .0 | .6 | .3 | .2 | .0 |

⁺ Also occurred on an earlier date(s) #Denotes trace amounts

Complete documentation available from: www.ncdc.noaa.gov/oa/climate/normals/usnormals.html

[@] Denotes mean number of days greater than 0 but less than .05

^{-9/-9.9} represents missing values Annual statistics for Mean/Median snow depths are not appropriate

⁽¹⁾ Derived from Snow Climatology and 1971-2000 daily data

⁽²⁾ Derived from 1971-2000 daily data

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Station: MCNARY DAM, WA

Climate Division: WA 8 NWS Call Sign:

16

>365

>365

Freeze Data Spring Freeze Dates (Month/Day) Probability of later date in spring (thru Jul 31) than indicated(*) Temp (F) .10 .20 .30 .40 .60 .70 .80 .90 36 5/11 5/04 4/29 4/24 4/20 4/16 4/12 4/07 3/30 32 4/09 4/04 4/15 4/01 3/28 3/25 3/21 3/17 3/11 28 3/28 3/19 3/13 3/08 3/02 2/25 2/20 2/13 2/05 24 3/13 2/28 2/18 2/10 2/03 1/26 1/18 1/07 12/23 20 2/23 2/14 2/08 2/02 1/28 1/22 1/16 1/07 0/00 16 2/17 2/08 2/01 1/26 1/21 1/15 1/07 12/24 0/00 Fall Freeze Dates (Month/Day) Probability of earlier date in fall (beginning Aug 1) than indicated(*) Temp (F) .20 .30 .40 .50 .70 .10 .60 .80 .90 36 10/05 10/09 10/12 10/15 10/18 10/20 10/23 10/26 10/31 32 10/16 10/23 10/27 10/31 11/04 11/07 11/11 11/16 11/22 28 10/27 11/05 11/11 11/17 11/22 11/27 12/02 12/09 12/17 24 11/06 11/15 11/21 11/27 12/02 12/07 12/13 12/20 12/31 20 11/17 11/28 12/07 12/14 12/21 12/29 1/06 1/18 0/00 11/29 12/20 12/28 1/05 16 12/11 1/14 1/26 0/00 0/00 Freeze Free Period **Probability of longer than indicated freeze free period (Days)** Temp (F) .10 .20 .30 .40 .50 .60 .70 .80 .90 197 190 185 180 175 153 36 206 169 162 32 247 238 231 225 220 214 209 202 192 28 303 290 280 271 264 256 247 237 224 24 >365 332 318 308 299 291 282 272 258 357 319 310 20 >365 >365 340 329 299 286

>365

0/00 Indicates that the probability of occurrence of threshold temperature is less than the indicated probability. Derived from 1971-2000 serially complete daily data

Complete do

>365

Complete documentation available from:

326

337

Elevation: 361 Feet

315

301

352

^{*} Probability of observing a temperature as cold, or colder, later in the spring or earlier in the fall than the indicated date.

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Station: MCNARY DAM, WA

COOP ID: 455231

Climate Division: WA 8 NWS Call Sign: Elevation: 361 Feet Lat: 45°56N Lon: 119°18W

| | | | | Deg | ree Days t | o Selected | Base Tem | peratures | (°F) | | | | |
|-------|-----|-----|-----|-----|------------|------------|------------|-----------|------|-----|-----|-----|------|
| Base | | | | | | Heatin | g Degree l | Days (1) | | | | | |
| Below | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Ann |
| 65 | 960 | 747 | 604 | 388 | 191 | 66 | 10 | 11 | 105 | 366 | 678 | 924 | 5050 |
| 60 | 805 | 607 | 449 | 247 | 86 | 18 | 1 | 1 | 40 | 218 | 531 | 769 | 3772 |
| 57 | 717 | 523 | 357 | 172 | 44 | 6 | 0 | 0 | 18 | 142 | 447 | 676 | 3102 |
| 55 | 660 | 470 | 296 | 129 | 26 | 3 | 0 | 0 | 10 | 99 | 392 | 616 | 2701 |
| 50 | 516 | 340 | 160 | 51 | 4 | 0 | 0 | 0 | 0 | 33 | 267 | 473 | 1844 |
| 32 | 142 | 45 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 27 | 99 | 314 |

| Base | | | | | | Coolin | g Degree l | Days (1) | | | | | |
|-------|-----|-----|-----|-----|-----|--------|------------|----------|-----|-----|-----|-----|------|
| Above | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Ann |
| 32 | 206 | 223 | 420 | 603 | 850 | 1022 | 1271 | 1269 | 968 | 658 | 339 | 198 | 8027 |
| 55 | 10 | 3 | 2 | 43 | 162 | 335 | 558 | 556 | 288 | 44 | 14 | 2 | 2017 |
| 57 | 6 | 0 | 0 | 25 | 119 | 278 | 496 | 494 | 236 | 25 | 9 | 0 | 1688 |
| 60 | 0 | 0 | 0 | 10 | 68 | 200 | 404 | 403 | 168 | 8 | 3 | 0 | 1264 |
| 65 | 0 | 0 | 0 | 1 | 17 | 98 | 258 | 257 | 83 | 1 | 0 | 0 | 715 |
| 70 | 0 | 0 | 0 | 0 | 2 | 35 | 137 | 135 | 31 | 0 | 0 | 0 | 340 |

| | | | | | | | | | | Gro | wing] | Degre | e Uni | ts (2) | | | | | | | | | | | |
|-------|---|---|-----|-----|--------|----------|----------|----------|-----|-----|--------|-------|--|--------|-----|---------|----------|-----------|----------|---------|---------|------|------|------|--|
| Base | | | | | Growin | g Degree | Units (M | Ionthly) | | | | | Growing Degree Units (Accumulated Monthly) | | | | | | | | | | | | |
| | Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec | | | | | | | | | | | | | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | |
| 40 | 41 | 74 | 206 | 390 | 636 | 820 | 1068 | 1067 | 768 | 449 | 148 | 52 | 41 | 115 | 321 | 711 | 1347 | 2167 | 3235 | 4302 | 5070 | 5519 | 5667 | 5719 | |
| 45 | 4 | 21 | 82 | 245 | 481 | 670 | 913 | 912 | 618 | 298 | 57 | 10 | 4 | 25 | 107 | 352 | 833 | 1503 | 2416 | 3328 | 3946 | 4244 | 4301 | 4311 | |
| 50 | 0 | 0 | 17 | 119 | 327 | 520 | 758 | 757 | 468 | 165 | 15 | 0 | 0 | 0 | 17 | 136 | 463 | 983 | 1741 | 2498 | 2966 | 3131 | 3146 | 3146 | |
| 55 | 0 | 0 | 0 | 45 | 189 | 371 | 603 | 602 | 320 | 70 | 1 | 0 | 0 | 0 | 0 | 45 | 234 | 605 | 1208 | 1810 | 2130 | 2200 | 2201 | 2201 | |
| 60 | 0 | 0 | 0 | 8 | 83 | 230 | 448 | 447 | 185 | 20 | 0 | 0 | 0 | 0 | 0 | 8 | 91 | 321 | 769 | 1216 | 1401 | 1421 | 1421 | 1421 | |
| Base | | Growing Degree Units for Corn (Monthly) | | | | | | | | | | | | | Gr | owing D | egree Un | its for C | orn (Acc | umulate | d Month | ly) | | | |
| 50/86 | 14 33 112 226 369 509 689 694 477 251 54 18 | | | | | | | | | | | | 14 | 47 | 159 | 385 | 754 | 1263 | 1952 | 2646 | 3123 | 3374 | 3428 | 3446 | |

(1) Derived from the 1971-2000 Monthly Normals

(2) Derived from 1971-2000 serially complete daily data

Note: For corn, temperatures below 50 are set to 50, and temperatures above 86 are set to 86

Notes

- a. The monthly means are simple arithmetic averages computed by summing the monthly values for the period 1971-2000 and dividing by thirty. Prior to averaging, the data are adjusted if necessary to compensate for data quality issues, station moves or changes in station reporting practices. Missing months are replaced by estimates based on neighboring stations.
- b. The median is defined as the middle value in an ordered set of values. The median is being provided for the snow and precipitation elements because the mean can be a misleading value for precipitation normals.
 - c. Only observed validated values were used to select the extreme daily values.
 - d. Extreme monthly temperature/precipitation means were selected from the monthly normals data.

Monthly snow extremes were calculated from daily values quality controlled to be consistent with the Snow Climatology.

e. Degree Days were derived using the same techniques as the 1971-2000 normals.

Compete documentation for the 1971-2000 Normals is available on the internet from:

www.ncdc.noaa.gov/oa/climate/normals/usnormals.html

f. Mean "number of days statistics" for temperature and precipitation were calculated from a serially complete daily data set .

Documentation of the serially complete data set is available from the link below:

g. Snowfall and snow depth statistics were derived from the Snow Climatology.

Documentation for the Snow Climatology project is available from the link under references.

Data Sources for Tables

Several different data sources were used to create the Clim20 climate summaries. In some cases the daily extremes appear inconsistent with the monthly extremes and or the mean number of days statistics. For example, a high daily extreme value may not be reflected in the highest monthly value or the mean number of days threshold that is less than and equal to the extreme value. Some of these difference are caused by different periods of record. Daily extremes are derived from the station's entire period of record while the serial data and normals data were are for the 1971-2000 period. Therefore extremes observed before 1971 would not be included in the 1971-2000 normals or the 1971-2000 serial daily data set. Inconsistencies can also occur when monthly values are adjusted to reflect the current observing conditions or were replaced during the 1971-2000 Monthly Normals processing and are not reconciled with the Summary of the Day data.

- a. Temperature/ Precipitation Tables
 - 1. 1971-2000 Monthly Normals
 - 2. Cooperative Summary of the Day
 - 3. National Weather Service station records
 - 4. 1971-2000 serially complete daily data

- c. Snow Tables
 - 1. Snow Climatology
 - 2. Cooperative Summary of the Day
- d. Freeze Data Table

1971-2000 serially complete daily data

- b. Degree Day Table
 - 1. Monthly and Annual Heating and Cooling Degree Days Normals to Selected Bases derived from 1971-2000 Monthly Normals
 - 2. Daily Normal Growing Degree Units to Selected Base Temperatures derived from 1971-2000 serially complete daily data

References

U.S. Climate Normals 1971-2000, www.ncdc.noaa.gov/normals.html

U.S. Climate Normals 1971-2000-Products Clim20, www.ncdc.noaa.gov/oa/climate/normals/usnormalsprods.html

Snow Climatology Project Description, www.ncdc.noaa.gov/oa/climate/monitoring/snowclim/mainpage.html

Eischeid, J. K., P. Pasteris, H. F. Diaz, M. Plantico, and N. Lott, 2000: Creating a serially complete, national daily time series of temperature and precipitation for the Western United States. J. Appl. Meteorol., 39, 1580-1591,

www1.ncdc.noaa.gov/pub/data/special/ serialcomplete_jam_0900.pdf