



```

MET1F1: PROCEDURE OPTIONS(MAIN);
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00000030
*****
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00000050
DIESES PROGRAMM DIENT ZUR QUANTIFIZIERUNG DER INHALTE VON
00000060
WITTERUNGSTAGEBUCHERN.
00000070
DER OUTPUT WIRD UNMITTELBAR FUER DIE EINGABE INS SORT-PROGRAMM
00000080
AUFBEREITET, WELCHES SEINERSEITS ALS INPUT FUER DAS HAUPTPROGRAMM
00000090
SRTCLIM DIENT
00000100
00000110
*****
00000120
00000130
DCL WISH STREAM INPUT FILE;
00000140
DCL PCH STREAM OUTPUT FILE;
00000150
00000160
00000170
/* INPUT VARIABLEN: VERGLEICHE CODEBUCH */
00000180
00000190
DECLARE (JAHR, MONTH, DEC, AREA, SOURCE, WIND_1, THER_1, WETH_1, WIND_2,
00000200
THER_2, WETH_2, WIND_3, THER_3, WETH_3, WIND_4, THER_4, WETH_4, WIND_5,
00000210
THER_5, WETH_5, WIND_6, THER_6, WETH_6, WIND_7, THER_7, WETH_7, WIND_8, THER_8,
00000220
WETH_8, WIND_9, THER_9, WETH_9, WIND_10, THER_10, WETH_10, CERT, WINDDC, THERDC,
00000230
WETHDC) DECIMAL FIXED(4) INIT(0);
00000240
DECLARE YEAR DECIMAL FIXED(4);
00000250
DECLARE(NOBS, NOBSCT, NOBSGN) DECIMAL FIXED(5) INIT(0);
00000260
DECLARE(COUNTER, SUMCOUNTER, GENCOUNTER) DECIMAL FIXED(5) INIT(0);
00000270
DECLARE (TOK, SONN, WOLK, VRND, REGN, RESN, SCHN, NEBL, GEWI ) DECIMAL FIXED
00000280
(3) INIT(0); DCL KONTR DECIMAL FIXED(4,2) INIT(0);
00000290
DECLARE(PREC, DRY, SNOWY, SONNCNT, TOKCNT, GEWFRQ, WOLKCNT,
00000300
VRNDCNT, REGNCNT, RESNCNT, SCHNCNT, NEBLCNT, GEWICNT) DECIMAL FIXED(3)
00000310
INIT(0);
00000320
DECLARE(SONNGEN, TOKGEN, SNOWYGEN, GEWIGEN, WOLKGEN, VRNDGEN, REGNGEN,
00000330
RESNGEN, SCHNGEN, NEBLGEN, PRECGEN, DRYGEN) DECIMAL FIXED(5) INIT(0);
00000340
DECLARE(NOMENT, NOMENTCNT, NOMENTGEN) DECIMAL FIXED(5) INIT(0);
00000350
DECLARE(DRYCNT, SNOWYCNT, PRECCNT) DECIMAL FIXED(5) INIT(0);
00000360
DECLARE(NOTHER, HEISS, WARM, LAU, KUEHL, KALT, SKLT, STURM, REIF) DECIMAL FIXED
00000370
(3) INIT(0);
00000380
DECLARE(FOHN, WEST, BISE, NORD, MONB, FOG, HAGL) DECIMAL FIXED(3) INIT(0);
00000390
DECLARE(HEISSCNT, WARMCNT, LAUCNT, KUEHLCNT, KALTCNT, SKLTCNT, STURMCNT,
00000400
REIFCNT, NOTHERCNT, COLDCNT, MILDCNT) DECIMAL FIXED(3) INIT(0);
00000410
DECLARE(HEISSGEN, WARMGEN, LAUGEN, KUEHLGEN, KALTGEN, SKLTGEN, STURMGEN
00000420
, REIFGEN, NOTHERGEN, COLD, MILD, COLDCNT, MILDCNT) DECIMAL FIXED(5) INIT(0);
00000430
00000440
DECLARE NOWIND DECIMAL FIXED(3) INIT(0);
00000450
DECLARE (NOWINDCNT, FOHNCNT, WESTCNT, BISECNT, NORDCNT, MONBCNT, HAGLCNT,
00000460
FOGCNT) DECIMAL FIXED(3) INIT(0);
00000470
DECLARE (NOWINDGEN, FOHNGEN, WESTGEN, BISEGEN, NORDGEN, MONBGEN, HAGLGEN,
00000480
FOGGEN) DECIMAL FIXED(5) INIT(0);
00000490
DCL(SNOWCV, SNOWVCNT, SNOWCVGEN, SCHNEEDK, SCHNEEDKCNT, SNOWFRQ, SNOWFRQNT,
00000500
SNOWFRQGEN, SCHNHAEUF) DEC FIXED(5) INIT(0);
00000510
DCL(WE_1, WE_2, WE_3, WE_4, WE_5, WE_6, WE_7, WE_8, WE_9, WE_10, WE_11) CHAR(1);
00000520
DCL(CRT, K, L, M, N) DECIMAL FIXED(4) INIT(0);
00000530
00000540
00000550
*****
00000560
00000570

```

U483.CLIMHIST.METIF.CNTL

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ON ENDFILE(WISH)GO TO FI;

\*\*\*\*\*

OPEN FILE(WISH)INPUT;

/\* EINLESEN DER VARIABLEN LAUT CODEBUCH \*/

```
RD:GET EDIT (JAHR,MONTH,DEC,AREA,SOURCE,WIND_1,THER_1,WE_1,WIND_2,
  THER_2,WE_2,WIND_3,THER_3,WE_3,WIND_4,THER_4,WE_4,WIND_5,
  THER_5,WE_5,WIND_6,THER_6,WE_6,WIND_7,THER_7,WE_7,WIND_8,THER_8,
  WE_8,WIND_9,THER_9,WE_9,WIND_10,THER_10,WE_10,CERT,WINDDC,THERDC,
  WETHDC,SNOWCV)(COL(1),F(3),COL(4),F(2),
  COL(6),F(1),COL(8),F(1),COL(11),F(4),COL(16),F(1),COL(17),F(1),
  COL(18),A(1),COL(20),F(1),COL(21),F(1),COL(22),A(1),COL(24),F(1)
  ,COL(25),F(1),COL(26),A(1),COL(28),F(1),COL(29),F(1),COL(30),A(1)
  ,COL(32),F(1),COL(33),F(1),COL(34),A(1),COL(36),F(1),COL(37),F(1),
  COL(38),A(1),COL(40),F(1),COL(41),F(1),COL(42),A(1),COL(44),F(1),
  COL(45),F(1),COL(46),A(1),COL(48),F(1),COL(49),F(1),COL(50),A(1),
  COL(52),F(1),COL(53),F(1),COL(54),A(1),COL(56),F(1),COL(57),F(2),
  COL(59),F(2),COL(62),F(2),COL(64),F(1));
```

/\* FORMATLABELS \*/

```
M1: FORMAT (F(3),X(5),7(F(3),X(2)),X(2),F(3),X(2));
M2: FORMAT(6(F(3),X(2)),X(2),F(3),X(5),4(F(3),X(2)));
M3:FORMAT(X(5),4(F(3),X(2)));
```

/\* ANGABEN FUER PRINTOUT \*/

DCL NAME CHAR(3);

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IF MONTH = 1 THEN NAME = 'JAN' ;
ELSE IF MONTH = 2 THEN NAME = 'FEB' ;
ELSE IF MONTH = 3 THEN NAME = 'MRZ' ;
ELSE IF MONTH = 4 THEN NAME = 'APR' ;
ELSE IF MONTH = 5 THEN NAME = 'MAI' ;
ELSE IF MONTH = 6 THEN NAME = 'JUN' ;
ELSE IF MONTH = 7 THEN NAME = 'JUL' ;
ELSE IF MONTH = 8 THEN NAME = 'AUG' ;
  ELSE IF MONTH = 9 THEN NAME = 'SEP' ;
  ELSE IF MONTH =10 THEN NAME = 'OKT' ;
  ELSE IF MONTH =11 THEN NAME = 'NOV' ;
  ELSE IF MONTH =12 THEN NAME = 'DEZ' ;
YEAR = JAHR + 1000 ;
```

/\* ADJUSTING #DAYS TO MONTH \*/

```
IF(MONTH = 1) | (MONTH = 3) |(MONTH =5) |(MONTH =7) |(MONTH =8) |(MONTH=10)
  | (MONTH = 12) THEN VARA = 1 ;
IF(MONTH = 4) | (MONTH = 6) | (MONTH = 9) | (MONTH = 11) THEN VARA =0;
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00001120
00001130
00001140
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00000750
00000760
00000770
00000780
00000790
00000800
00000810
00000820
00000830
00000840
00000850
00000860
00000870
00000880
00000890
00000900
00000910
00000920
00000930
00000940
00000950
00000960
00000970
00000980
00000990
00001000
00001010
00001020
00001030
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00001070
00001080
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00001100
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/* ADJUSTING FOR LEAP YEAR */
IF MONTH = 2 THEN IF(YEAR / 4) = 0 THEN VARA = 3;
ELSE VARA=4;

/* CALCULATION OF 31TH DAY */
/* BEI MONATEN MIT 31 TAGEN WIRD DIE 31.BEOBACHTUNG DER 30.GLEICH */
/* GESETZT */
CO: IF DEC = 3 & VARA = 1 THEN
  DO;
    WIND_11 = WIND_10 ;
    THER_11 = THER_10 ;
    WE_11 = WE_10 ;
    IF WE_11 = ' ' THEN NOBS = NOBS - 1;
    ELSE GET STRING(WE_11) EDIT(WETH_11)(F(1));
    IF WIND_11 = 0 THEN NOWIND = NOWIND + 1;
    IF THER_11 = 0 THEN NOTHER = NOTHER + 1;
    IF WETH_11 = 0 THEN NOMENT = NOMENT + 1;
    COUNTER = COUNTER + 1;
  END;
ELSE DO;
  WIND_11 = 0;
  THER_11 = 0;
  WETH_11 = 0;
  END;
IF WE_1 = ' ' THEN NOBS = NOBS - 1;
  GET STRING(WE_1 ) EDIT (WETH_1) (F(1));
IF WE_2 = ' ' THEN NOBS = NOBS - 1;
  GET STRING(WE_2 ) EDIT (WETH_2) (F(1));
IF WE_3 = ' ' THEN NOBS = NOBS - 1;
  GET STRING(WE_3 ) EDIT (WETH_3) (F(1));
IF WE_4 = ' ' THEN NOBS = NOBS - 1;
  GET STRING(WE_4 ) EDIT (WETH_4) (F(1));
IF WE_5 = ' ' THEN NOBS = NOBS - 1;
  GET STRING(WE_5 ) EDIT (WETH_5) (F(1));
IF WE_6 = ' ' THEN NOBS = NOBS - 1;
  GET STRING(WE_6 ) EDIT (WETH_6) (F(1));
IF WE_7 = ' ' THEN NOBS = NOBS - 1;
  GET STRING(WE_7 ) EDIT (WETH_7) (F(1));
IF WE_8 = ' ' THEN NOBS = NOBS - 1;
  GET STRING(WE_8 ) EDIT (WETH_8) (F(1));
IF WE_9 = ' ' THEN NOBS = NOBS - 1;
  GET STRING(WE_9 ) EDIT (WETH_9) (F(1));
IF WE_10 = ' ' THEN NOBS = NOBS - 1;
  GET STRING(WE_10 ) EDIT (WETH_10) (F(1));

/*****/
/* AUSZAEHLUNG DER WINDBEOBACHTUNGEN: JEWEILS 1.FELD */
WI: IF WIND_1 = 0 THEN NOWIND = NOWIND + 1;

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00001160
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00001600
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00001670
00001680
00001690
00001700
00001710

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ELSE IF WIND_1 = 1 THEN FOHN = FOHN + 1 ; 00001720
IF WIND_1 = 2 THEN WEST = WEST + 1 ; 00001730
ELSE IF WIND_1 = 3 THEN BISE = BISE + 1 ; 00001740
ELSE IF WIND_1 = 4 THEN NORD = NORD + 1 ; 00001750
ELSE IF WIND_1 = 5 THEN MONB = MONB + 1 ; 00001760
ELSE IF WIND_1 = 7 THEN STURM = STURM + 1 ; 00001770
ELSE IF WIND_1 = 8 THEN REIF = REIF + 1 ; 00001780
ELSE IF WIND_1 = 9 THEN HAGL = HAGL + 1 ; 00001790
00001800
IF WIND_2 = 0 THEN NOWIND = NOWIND + 1 ; 00001810
ELSE IF WIND_2 = 1 THEN FOHN = FOHN + 1 ; 00001820
ELSE IF WIND_2 = 2 THEN WEST = WEST + 1 ; 00001830
ELSE IF WIND_2 = 3 THEN BISE = BISE + 1 ; 00001840
ELSE IF WIND_2 = 4 THEN NORD = NORD + 1 ; 00001850
ELSE IF WIND_2 = 5 THEN MONB = MONB + 1 ; 00001860
ELSE IF WIND_2 = 7 THEN STURM = STURM + 1 ; 00001870
ELSE IF WIND_2 = 8 THEN REIF = REIF + 1 ; 00001880
ELSE IF WIND_2 = 9 THEN HAGL = HAGL + 1 ; 00001890
00001900
IF WIND_3 = 0 THEN NOWIND = NOWIND + 1 ; 00001910
ELSE IF WIND_3 = 1 THEN FOHN = FOHN + 1 ; 00001920
ELSE IF WIND_3 = 2 THEN WEST = WEST + 1 ; 00001930
ELSE IF WIND_3 = 3 THEN BISE = BISE + 1 ; 00001940
ELSE IF WIND_3 = 4 THEN NORD = NORD + 1 ; 00001950
ELSE IF WIND_3 = 5 THEN MONB = MONB + 1 ; 00001960
ELSE IF WIND_3 = 7 THEN STURM = STURM + 1 ; 00001970
ELSE IF WIND_3 = 8 THEN REIF = REIF + 1 ; 00001980
ELSE IF WIND_3 = 9 THEN HAGL = HAGL + 1 ; 00001990
00002000
IF WIND_4 = 0 THEN NOWIND = NOWIND + 1 ; 00002010
ELSE IF WIND_4 = 1 THEN FOHN = FOHN + 1 ; 00002020
ELSE IF WIND_4 = 2 THEN WEST = WEST + 1 ; 00002030
ELSE IF WIND_4 = 3 THEN BISE = BISE + 1 ; 00002040
ELSE IF WIND_4 = 4 THEN NORD = NORD + 1 ; 00002050
ELSE IF WIND_4 = 5 THEN MONB = MONB + 1 ; 00002060
ELSE IF WIND_4 = 7 THEN STURM = STURM + 1 ; 00002070
ELSE IF WIND_4 = 8 THEN REIF = REIF + 1 ; 00002080
ELSE IF WIND_4 = 9 THEN HAGL = HAGL + 1 ; 00002090
00002100
IF WIND_5 = 0 THEN NOWIND = NOWIND + 1 ; 00002110
ELSE IF WIND_5 = 1 THEN FOHN = FOHN + 1 ; 00002120
ELSE IF WIND_5 = 2 THEN WEST = WEST + 1 ; 00002130
ELSE IF WIND_5 = 3 THEN BISE = BISE + 1 ; 00002140
ELSE IF WIND_5 = 4 THEN NORD = NORD + 1 ; 00002150
ELSE IF WIND_5 = 5 THEN MONB = MONB + 1 ; 00002160
ELSE IF WIND_5 = 7 THEN STURM = STURM + 1 ; 00002170
ELSE IF WIND_5 = 8 THEN REIF = REIF + 1 ; 00002180
ELSE IF WIND_5 = 9 THEN HAGL = HAGL + 1 ; 00002190
00002200
IF WIND_6 = 0 THEN NOWIND = NOWIND + 1 ; 00002210
ELSE IF WIND_6 = 1 THEN FOHN = FOHN + 1 ; 00002220
ELSE IF WIND_6 = 2 THEN WEST = WEST + 1 ; 00002230
ELSE IF WIND_6 = 3 THEN BISE = BISE + 1 ; 00002240
ELSE IF WIND_6 = 4 THEN NORD = NORD + 1 ; 00002250
ELSE IF WIND_6 = 5 THEN MONB = MONB + 1 ; 00002260
ELSE IF WIND_6 = 7 THEN STURM = STURM + 1 ; 00002270
ELSE IF WIND_6 = 8 THEN REIF = REIF + 1 ; 00002280
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ELSE IF WIND_6 = 9 THEN HAGL = HAGL + 1;
IF WIND_7 = 0 THEN NOWIND = NOWIND + 1;
ELSE IF WIND_7 = 1 THEN FOHN = FOHN + 1;
ELSE IF WIND_7 = 2 THEN WEST = WEST + 1;
ELSE IF WIND_7 = 3 THEN BISE = BISE + 1;
ELSE IF WIND_7 = 4 THEN NORD = NORD + 1;
ELSE IF WIND_7 = 5 THEN MONB = MONB + 1;
ELSE IF WIND_7 = 7 THEN STURM = STURM + 1;
ELSE IF WIND_7 = 8 THEN REIF = REIF + 1;
ELSE IF WIND_7 = 9 THEN HAGL = HAGL + 1;

IF WIND_8 = 0 THEN NOWIND = NOWIND + 1;
ELSE IF WIND_8 = 1 THEN FOHN = FOHN + 1;
ELSE IF WIND_8 = 2 THEN WEST = WEST + 1;
ELSE IF WIND_8 = 3 THEN BISE = BISE + 1;
ELSE IF WIND_8 = 4 THEN NORD = NORD + 1;
ELSE IF WIND_8 = 5 THEN MONB = MONB + 1;
ELSE IF WIND_8 = 7 THEN STURM = STURM + 1;
ELSE IF WIND_8 = 8 THEN REIF = REIF + 1;
ELSE IF WIND_8 = 9 THEN HAGL = HAGL + 1;

IF WIND_9 = 0 THEN NOWIND = NOWIND + 1;
ELSE IF WIND_9 = 1 THEN FOHN = FOHN + 1;
ELSE IF WIND_9 = 2 THEN WEST = WEST + 1;
ELSE IF WIND_9 = 3 THEN BISE = BISE + 1;
ELSE IF WIND_9 = 4 THEN NORD = NORD + 1;
ELSE IF WIND_9 = 5 THEN MONB = MONB + 1;
ELSE IF WIND_9 = 7 THEN STURM = STURM + 1;
ELSE IF WIND_9 = 8 THEN REIF = REIF + 1;
ELSE IF WIND_9 = 9 THEN HAGL = HAGL + 1;

IF WIND_10 = 0 THEN NOWIND = NOWIND + 1;
ELSE IF WIND_10 = 1 THEN FOHN = FOHN + 1;
ELSE IF WIND_10 = 2 THEN WEST = WEST + 1;
ELSE IF WIND_10 = 3 THEN BISE = BISE + 1;
ELSE IF WIND_10 = 4 THEN NORD = NORD + 1;
ELSE IF WIND_10 = 5 THEN MONB = MONB + 1;
ELSE IF WIND_10 = 7 THEN STURM = STURM + 1;
ELSE IF WIND_10 = 8 THEN REIF = REIF + 1;
ELSE IF WIND_10 = 9 THEN HAGL = HAGL + 1;

IF WIND_11 = 1 THEN FOHN = FOHN + 1;
ELSE IF WIND_11 = 2 THEN WEST = WEST + 1;
ELSE IF WIND_11 = 3 THEN BISE = BISE + 1;
ELSE IF WIND_11 = 4 THEN NORD = NORD + 1;
ELSE IF WIND_11 = 5 THEN MONB = MONB + 1;
ELSE IF WIND_11 = 7 THEN STURM = STURM + 1;
ELSE IF WIND_11 = 8 THEN REIF = REIF + 1;
ELSE IF WIND_11 = 9 THEN HAGL = HAGL + 1;

/*****/
/* AUSZAHLUNG DER THERMIKBEOBSACHTUNGEN:JEWEILS 2.FELD */
TH: IF THER_1 = 0 THEN NOTHER = NOTHER + 1;

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00002300
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ELSE IF THER_1 = 1 THEN HEISS = HEISS + 1; 00002860
ELSE IF THER_1 = 2 THEN WARM = WARM + 1; 00002870
ELSE IF THER_1 = 3 THEN LAU = LAU + 1; 00002880
ELSE IF THER_1 = 4 THEN KUEHL = KUEHL + 1; 00002890
ELSE IF THER_1 = 5 THEN KALT = KALT + 1; 00002900
ELSE IF THER_1 = 6 THEN SKLT = SKLT + 1; 00002910
ELSE IF THER_1 = 7 THEN STURM = STURM + 1; 00002920
ELSE IF THER_1 = 8 THEN REIF = REIF + 1; 00002930
ELSE IF THER_1 = 9 THEN GEWI = GEWI + 1; 00002940
00002950
IF THER_2 = 0 THEN NOTHER = NOTHER + 1; 00002960
ELSE IF THER_2 = 1 THEN HEISS = HEISS + 1; 00002970
ELSE IF THER_2 = 2 THEN WARM = WARM + 1; 00002980
ELSE IF THER_2 = 3 THEN LAU = LAU + 1; 00002990
ELSE IF THER_2 = 4 THEN KUEHL = KUEHL + 1; 00003000
ELSE IF THER_2 = 5 THEN KALT = KALT + 1; 00003010
ELSE IF THER_2 = 6 THEN SKLT = SKLT + 1; 00003020
ELSE IF THER_2 = 7 THEN STURM = STURM + 1; 00003030
ELSE IF THER_2 = 8 THEN REIF = REIF + 1; 00003040
ELSE IF THER_2 = 9 THEN GEWI = GEWI + 1; 00003050
00003060
IF THER_3 = 0 THEN NOTHER = NOTHER + 1; 00003070
ELSE IF THER_3 = 1 THEN HEISS = HEISS + 1; 00003080
ELSE IF THER_3 = 2 THEN WARM = WARM + 1; 00003090
ELSE IF THER_3 = 3 THEN LAU = LAU + 1; 00003100
ELSE IF THER_3 = 4 THEN KUEHL = KUEHL + 1; 00003110
ELSE IF THER_3 = 5 THEN KALT = KALT + 1; 00003120
ELSE IF THER_3 = 6 THEN SKLT = SKLT + 1; 00003130
ELSE IF THER_3 = 7 THEN STURM = STURM + 1; 00003140
ELSE IF THER_3 = 8 THEN REIF = REIF + 1; 00003150
ELSE IF THER_3 = 9 THEN GEWI = GEWI + 1; 00003160
00003170
IF THER_4 = 0 THEN NOTHER = NOTHER + 1; 00003180
ELSE IF THER_4 = 1 THEN HEISS = HEISS + 1; 00003190
ELSE IF THER_4 = 2 THEN WARM = WARM + 1; 00003200
ELSE IF THER_4 = 3 THEN LAU = LAU + 1; 00003210
ELSE IF THER_4 = 4 THEN KUEHL = KUEHL + 1; 00003220
ELSE IF THER_4 = 5 THEN KALT = KALT + 1; 00003230
ELSE IF THER_4 = 6 THEN SKLT = SKLT + 1; 00003240
ELSE IF THER_4 = 7 THEN STURM = STURM + 1; 00003250
ELSE IF THER_4 = 8 THEN REIF = REIF + 1; 00003260
ELSE IF THER_4 = 9 THEN GEWI = GEWI + 1; 00003270
00003280
IF THER_5 = 0 THEN NOTHER = NOTHER + 1; 00003290
ELSE IF THER_5 = 1 THEN HEISS = HEISS + 1; 00003300
ELSE IF THER_5 = 2 THEN WARM = WARM + 1; 00003310
ELSE IF THER_5 = 3 THEN LAU = LAU + 1; 00003320
ELSE IF THER_5 = 4 THEN KUEHL = KUEHL + 1; 00003330
ELSE IF THER_5 = 5 THEN KALT = KALT + 1; 00003340
ELSE IF THER_5 = 6 THEN SKLT = SKLT + 1; 00003350
ELSE IF THER_5 = 7 THEN STURM = STURM + 1; 00003360
ELSE IF THER_5 = 8 THEN REIF = REIF + 1; 00003370
ELSE IF THER_5 = 9 THEN GEWI = GEWI + 1; 00003380
00003390
IF THER_6 = 0 THEN NOTHER = NOTHER + 1; 00003400
ELSE IF THER_6 = 1 THEN HEISS = HEISS + 1; 00003410
ELSE IF THER_6 = 2 THEN WARM = WARM + 1; 00003420
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ELSE IF THER_6 = 3 THEN LAU = LAU + 1 ; 00003430
ELSE IF THER_6 = 4 THEN KUEHL = KUEHL + 1 ; 00003440
ELSE IF THER_6 = 5 THEN KALT = KALT + 1 ; 00003450
ELSE IF THER_6 = 6 THEN SKLT = SKLT + 1 ; 00003460
ELSE IF THER_6 = 7 THEN STURM = STURM + 1 ; 00003470
ELSE IF THER_6 = 8 THEN REIF = REIF + 1 ; 00003480
ELSE IF THER_6 = 9 THEN GEWI = GEWI + 1 ; 00003490
00003500
IF THER_7 = 0 THEN NOTHER = NOTHER + 1 ; 00003510
ELSE IF THER_7 = 1 THEN HEISS = HEISS + 1 ; 00003520
ELSE IF THER_7 = 2 THEN WARM = WARM + 1 ; 00003530
ELSE IF THER_7 = 3 THEN LAU = LAU + 1 ; 00003540
ELSE IF THER_7 = 4 THEN KUEHL = KUEHL + 1 ; 00003550
ELSE IF THER_7 = 5 THEN KALT = KALT + 1 ; 00003560
ELSE IF THER_7 = 6 THEN SKLT = SKLT + 1 ; 00003570
ELSE IF THER_7 = 7 THEN STURM = STURM + 1 ; 00003580
ELSE IF THER_7 = 8 THEN REIF = REIF + 1 ; 00003590
ELSE IF THER_7 = 9 THEN GEWI = GEWI + 1 ; 00003600
00003610
IF THER_8 = 0 THEN NOTHER = NOTHER + 1 ; 00003620
ELSE IF THER_8 = 1 THEN HEISS = HEISS + 1 ; 00003630
ELSE IF THER_8 = 2 THEN WARM = WARM + 1 ; 00003640
ELSE IF THER_8 = 3 THEN LAU = LAU + 1 ; 00003650
ELSE IF THER_8 = 4 THEN KUEHL = KUEHL + 1 ; 00003660
ELSE IF THER_8 = 5 THEN KALT = KALT + 1 ; 00003670
ELSE IF THER_8 = 6 THEN SKLT = SKLT + 1 ; 00003680
ELSE IF THER_8 = 7 THEN STURM = STURM + 1 ; 00003690
ELSE IF THER_8 = 8 THEN REIF = REIF + 1 ; 00003700
ELSE IF THER_8 = 9 THEN GEWI = GEWI + 1 ; 00003710
00003720
IF THER_9 = 0 THEN NOTHER = NOTHER + 1 ; 00003730
ELSE IF THER_9 = 1 THEN HEISS = HEISS + 1 ; 00003740
ELSE IF THER_9 = 2 THEN WARM = WARM + 1 ; 00003750
ELSE IF THER_9 = 3 THEN LAU = LAU + 1 ; 00003760
ELSE IF THER_9 = 4 THEN KUEHL = KUEHL + 1 ; 00003770
ELSE IF THER_9 = 5 THEN KALT = KALT + 1 ; 00003780
ELSE IF THER_9 = 6 THEN SKLT = SKLT + 1 ; 00003790
ELSE IF THER_9 = 7 THEN STURM = STURM + 1 ; 00003800
ELSE IF THER_9 = 8 THEN REIF = REIF + 1 ; 00003810
ELSE IF THER_9 = 9 THEN GEWI = GEWI + 1 ; 00003820
00003830
IF THER_10 = 0 THEN NOTHER = NOTHER + 1 ; 00003840
ELSE IF THER_10 = 1 THEN HEISS = HEISS + 1 ; 00003850
ELSE IF THER_10 = 2 THEN WARM = WARM + 1 ; 00003860
ELSE IF THER_10 = 3 THEN LAU = LAU + 1 ; 00003870
ELSE IF THER_10 = 4 THEN KUEHL = KUEHL + 1 ; 00003880
ELSE IF THER_10 = 5 THEN KALT = KALT + 1 ; 00003890
ELSE IF THER_10 = 6 THEN SKLT = SKLT + 1 ; 00003900
ELSE IF THER_10 = 7 THEN STURM = STURM + 1 ; 00003910
ELSE IF THER_10 = 8 THEN REIF = REIF + 1 ; 00003920
ELSE IF THER_10 = 9 THEN GEWI = GEWI + 1 ; 00003930
00003940
IF THER_11 = 1 THEN HEISS = HEISS + 1 ; 00003950
ELSE IF THER_11 = 2 THEN WARM = WARM + 1 ; 00003960
ELSE IF THER_11 = 3 THEN LAU = LAU + 1 ; 00003970
ELSE IF THER_11 = 4 THEN KUEHL = KUEHL + 1 ; 00003980
ELSE IF THER_11 = 5 THEN KALT = KALT + 1 ; 00003990
```



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ELSE IF THER_11 = 6 THEN SKLT = SKLT + 1;      00004000
ELSE IF THER_11 = 7 THEN STURM = STURM + 1;    00004010
ELSE IF THER_11 = 8 THEN REIF = REIF + 1;      00004020
ELSE IF THER_11 = 9 THEN GEWI = GEWI + 1;      00004030
                                                00004040
/*****/                                         00004050
                                                00004060
/* AUSZAEHLUNG DER BEOBACHTUNGEN DER HIMMELSBEDECKUNG UND NIEDER */
/* SCHLAEGE:JEWEILS 3. FELD                    */ 00004070
                                                00004080
                                                00004090
                                                00004100
FR: IF WETH_1 = 1 THEN SONN = SONN + 1;        00004110
    ELSE IF WETH_1 = 2 THEN WOLK = WOLK + 1;   00004120
    ELSE IF WETH_1 = 3 THEN VRND = VRND + 1;   00004130
    ELSE IF WETH_1 = 4 THEN REGN = REGN + 1;   00004140
    ELSE IF WETH_1 = 5 THEN RESN = RESN + 1;   00004150
    ELSE IF WETH_1 = 6 THEN SCHN = SCHN + 1;   00004160
    ELSE IF WETH_1 = 7 THEN NEBL = NEBL + 1;   00004170
    ELSE IF WETH_1 = 8 THEN TROK = TROK + 1;   00004180
    ELSE IF WETH_1 = 9 THEN GEWI = GEWI + 1;   00004190
    ELSE IF WETH_1 = 0 THEN NOMENT = NOMENT + 1; 00004200
                                                00004210
IF WETH_2 = 1 THEN SONN = SONN + 1;            00004220
ELSE IF WETH_2 = 2 THEN WOLK = WOLK + 1;      00004230
ELSE IF WETH_2 = 3 THEN VRND = VRND + 1;      00004240
ELSE IF WETH_2 = 4 THEN REGN = REGN + 1;      00004250
ELSE IF WETH_2 = 5 THEN RESN = RESN + 1;      00004260
ELSE IF WETH_2 = 6 THEN SCHN = SCHN + 1;      00004270
ELSE IF WETH_2 = 7 THEN NEBL = NEBL + 1;      00004280
ELSE IF WETH_2 = 8 THEN TROK = TROK + 1;      00004290
ELSE IF WETH_2 = 9 THEN GEWI = GEWI + 1;      00004300
ELSE IF WETH_2 = 0 THEN NOMENT = NOMENT + 1;   00004310
                                                00004320
IF WETH_3 = 1 THEN SONN = SONN + 1;            00004330
ELSE IF WETH_3 = 2 THEN WOLK = WOLK + 1;      00004340
ELSE IF WETH_3 = 3 THEN VRND = VRND + 1;      00004350
ELSE IF WETH_3 = 4 THEN REGN = REGN + 1;      00004360
ELSE IF WETH_3 = 5 THEN RESN = RESN + 1;      00004370
ELSE IF WETH_3 = 6 THEN SCHN = SCHN + 1;      00004380
ELSE IF WETH_3 = 7 THEN NEBL = NEBL + 1;      00004390
ELSE IF WETH_3 = 8 THEN TROK = TROK + 1;      00004400
ELSE IF WETH_3 = 9 THEN GEWI = GEWI + 1;      00004410
ELSE IF WETH_3 = 0 THEN NOMENT = NOMENT + 1;   00004420
                                                00004430
IF WETH_4 = 1 THEN SONN = SONN + 1;            00004440
ELSE IF WETH_4 = 2 THEN WOLK = WOLK + 1;      00004450
ELSE IF WETH_4 = 3 THEN VRND = VRND + 1;      00004460
ELSE IF WETH_4 = 4 THEN REGN = REGN + 1;      00004470
ELSE IF WETH_4 = 5 THEN RESN = RESN + 1;      00004480
ELSE IF WETH_4 = 6 THEN SCHN = SCHN + 1;      00004490
ELSE IF WETH_4 = 7 THEN NEBL = NEBL + 1;      00004500
ELSE IF WETH_4 = 8 THEN TROK = TROK + 1;      00004510
ELSE IF WETH_4 = 9 THEN GEWI = GEWI + 1;      00004520
ELSE IF WETH_4 = 0 THEN NOMENT = NOMENT + 1;   00004530
                                                00004540
IF WETH_5 = 1 THEN SONN = SONN + 1;            00004550
ELSE IF WETH_5 = 2 THEN WOLK = WOLK + 1;      00004560
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ELSE IF WETH_5 = 3 THEN VRND = VRND + 1 ; 00004570
ELSE IF WETH_5 = 4 THEN REGN = REGN + 1 ; 00004580
ELSE IF WETH_5 = 5 THEN RESN = RESN + 1 ; 00004590
ELSE IF WETH_5 = 6 THEN SCHN = SCHN + 1 ; 00004600
ELSE IF WETH_5 = 7 THEN NEBL = NEBL + 1 ; 00004610
ELSE IF WETH_5 = 8 THEN TROK = TROK + 1 ; 00004620
ELSE IF WETH_5 = 9 THEN GEWI = GEWI + 1 ; 00004630
ELSE IF WETH_5 = 0 THEN NOMENT = NOMENT + 1 ; 00004640
                                         00004650
IF WETH_6 = 1 THEN SONN = SONN + 1 ; 00004660
ELSE IF WETH_6 = 2 THEN WOLK = WOLK + 1 ; 00004670
ELSE IF WETH_6 = 3 THEN VRND = VRND + 1 ; 00004680
ELSE IF WETH_6 = 4 THEN REGN = REGN + 1 ; 00004690
ELSE IF WETH_6 = 5 THEN RESN = RESN + 1 ; 00004700
ELSE IF WETH_6 = 6 THEN SCHN = SCHN + 1 ; 00004710
ELSE IF WETH_6 = 7 THEN NEBL = NEBL + 1 ; 00004720
ELSE IF WETH_6 = 8 THEN TROK = TROK + 1 ; 00004730
ELSE IF WETH_6 = 9 THEN GEWI = GEWI + 1 ; 00004740
ELSE IF WETH_6 = 0 THEN NOMENT = NOMENT + 1 ; 00004750
                                         00004760
IF WETH_7 = 1 THEN SONN = SONN + 1 ; 00004770
ELSE IF WETH_7 = 2 THEN WOLK = WOLK + 1 ; 00004780
ELSE IF WETH_7 = 3 THEN VRND = VRND + 1 ; 00004790
ELSE IF WETH_7 = 4 THEN REGN = REGN + 1 ; 00004800
ELSE IF WETH_7 = 5 THEN RESN = RESN + 1 ; 00004810
ELSE IF WETH_7 = 6 THEN SCHN = SCHN + 1 ; 00004820
ELSE IF WETH_7 = 7 THEN NEBL = NEBL + 1 ; 00004830
ELSE IF WETH_7 = 8 THEN TROK = TROK + 1 ; 00004840
ELSE IF WETH_7 = 9 THEN GEWI = GEWI + 1 ; 00004850
ELSE IF WETH_7 = 0 THEN NOMENT = NOMENT + 1 ; 00004860
                                         00004870
IF WETH_8 = 1 THEN SONN = SONN + 1 ; 00004880
ELSE IF WETH_8 = 2 THEN WOLK = WOLK + 1 ; 00004890
ELSE IF WETH_8 = 3 THEN VRND = VRND + 1 ; 00004900
ELSE IF WETH_8 = 4 THEN REGN = REGN + 1 ; 00004910
ELSE IF WETH_8 = 5 THEN RESN = RESN + 1 ; 00004920
ELSE IF WETH_8 = 6 THEN SCHN = SCHN + 1 ; 00004930
ELSE IF WETH_8 = 7 THEN NEBL = NEBL + 1 ; 00004940
ELSE IF WETH_8 = 8 THEN TROK = TROK + 1 ; 00004950
ELSE IF WETH_8 = 9 THEN GEWI = GEWI + 1 ; 00004960
ELSE IF WETH_8 = 0 THEN NOMENT = NOMENT + 1 ; 00004970
                                         00004980
IF WETH_9 = 1 THEN SONN = SONN + 1 ; 00004990
ELSE IF WETH_9 = 2 THEN WOLK = WOLK + 1 ; 00005000
ELSE IF WETH_9 = 3 THEN VRND = VRND + 1 ; 00005010
ELSE IF WETH_9 = 4 THEN REGN = REGN + 1 ; 00005020
ELSE IF WETH_9 = 5 THEN RESN = RESN + 1 ; 00005030
ELSE IF WETH_9 = 6 THEN SCHN = SCHN + 1 ; 00005040
ELSE IF WETH_9 = 7 THEN NEBL = NEBL + 1 ; 00005050
ELSE IF WETH_9 = 8 THEN TROK = TROK + 1 ; 00005060
ELSE IF WETH_9 = 9 THEN GEWI = GEWI + 1 ; 00005070
ELSE IF WETH_9 = 0 THEN NOMENT = NOMENT + 1 ; 00005080
                                         00005090
IF WETH_10 = 1 THEN SONN = SONN + 1 ; 00005100
ELSE IF WETH_10 = 2 THEN WOLK = WOLK + 1 ; 00005110
ELSE IF WETH_10 = 3 THEN VRND = VRND + 1 ; 00005120
ELSE IF WETH_10 = 4 THEN REGN = REGN + 1 ; 00005130
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ELSE IF WETH_10 = 5 THEN RESN = RESN + 1; 00005140
ELSE IF WETH_10 = 6 THEN SCHN = SCHN + 1; 00005150
ELSE IF WETH_10 = 7 THEN NEBL = NEBL + 1; 00005160
ELSE IF WETH_10 = 8 THEN TROK = TROK + 1; 00005170
ELSE IF WETH_10 = 9 THEN GEWI = GEWI + 1; 00005180
ELSE IF WETH_10 = 0 THEN NOMENT = NOMENT + 1; 00005190
                                           00005200
IF WETH_11 = 1 THEN SONN = SONN + 1; 00005210
ELSE IF WETH_11 = 2 THEN WOLK = WOLK + 1; 00005220
ELSE IF WETH_11 = 3 THEN VRND = VRND + 1; 00005230
ELSE IF WETH_11 = 4 THEN REGN = REGN + 1; 00005240
ELSE IF WETH_11 = 5 THEN RESN = RESN + 1; 00005250
ELSE IF WETH_11 = 6 THEN SCHN = SCHN + 1; 00005260
ELSE IF WETH_11 = 7 THEN NEBL = NEBL + 1; 00005270
ELSE IF WETH_11 = 8 THEN TROK = TROK + 1; 00005280
ELSE IF WETH_11 = 9 THEN GEWI = GEWI + 1; 00005290
                                           00005300
/*****/ 00005310
/* AUSZAEHLUNG DER ANGABEN UEBER SCHNEEBEDECKUNG: CODEBUCH COL 64 */ 00005320
                                           00005330
IF SNOWCV = 1 THEN SNOWVCNT = SNOWVCNT + 1; 00005340
ELSE IF (SNOWCV = 2) | (SNOWCV = 3) THEN SNOWVCNT = SNOWVCNT + 2; 00005350
ELSE IF (SNOWCV = 4) | (SNOWCV = 5) THEN DO; 00005360
  IF WETHDC > 49 & WETHDC < 59 THEN SNOWVCNT = SNOWVCNT + 6; 00005370
  ELSE IF WETH_5 = 6 THEN SNOWVCNT = SNOWVCNT + 5; 00005380
  ELSE IF WETH_6 = 6 THEN SNOWVCNT = SNOWVCNT + 4; 00005390
  ELSE IF WETH_7 = 6 THEN SNOWVCNT = SNOWVCNT + 3; 00005400
  ELSE IF WETH_8 = 6 THEN SNOWVCNT = SNOWVCNT + 2; 00005410
  ELSE SNOWVCNT = SNOWVCNT + 1; 00005420
  END; 00005430
ELSE IF SNOWCV = 6 THEN DO; 00005440
  IF DEC = 3 & VARA = 1 THEN SNOWVCNT = SNOWVCNT + 11; 00005450
  ELSE IF DEC = 3 & VARA = 3 THEN SNOWVCNT = SNOWVCNT + 9; 00005460
  ELSE IF DEC = 3 & VARA = 4 THEN SNOWVCNT = SNOWVCNT + 8; 00005470
  ELSE SNOWVCNT = SNOWVCNT + 10; 00005480
  CRT = CRT + (CERT * 2); K = K + 2; 00005490
  END; 00005500
ELSE IF SNOWCV = 7 THEN DO; 00005510
  IF THERDC > 19 & THERDC < 39 THEN SNOWVCNT = SNOWVCNT + 2; 00005520
  ELSE IF THERDC > 39 THEN SNOWVCNT = SNOWVCNT + 4; 00005530
  ELSE IF THERDC < 19 THEN SNOWVCNT = SNOWVCNT + 4; 00005540
  END; 00005550
ELSE IF SNOWCV = 8 THEN SNOWVCNT = SNOWVCNT + 5; 00005560
IF SNOWCV = 0 THEN DO; 00005570
  K = K + 1; 00005580
  CRT = CRT + CERT; 00005590
  END; 00005600
                                           00005610
                                           00005620
                                           00005630
COUNTER = COUNTER + 10; 00005640
                                           00005650
/*****/ 00005660
                                           00005670
/* BERECHNUNG VON MONATSSUMMEN */ 00005680
                                           00005690
                                           00005700

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LE: IF COUNTER >= 30 THEN DO;                                00005710
  VRND = VRND + GEWI;                                        00005720
  DRY = TROK + WOLK + SONN + NEBL ;                        00005730
  SNOWY = RESN + SCHN ;                                    00005740
  PREC = VRND + REGN + SNOWY;                              00005750
  COLD = KUEHL + KALT + SKLT ;                             00005760
  MILD = HEISS + WARM + LAU;                               00005770
  FOG = NEBL + MONB ;                                      00005780
  NOWIND = NOWIND + NOBS; /* NOBS = #BLANKS(NEG VALUE)*/    00005790
  NOTHER = NOTHER + NOBS;                                  00005800
  NOMENT = NOMENT + NOBS;                                  00005810
  NOBS = COUNTER + NOBS; /*NOBS=#DAYS IN MONTH - #BLANKS = #OBS */00005820
  IF VARA = 3 THEN SUMCOUNTER = SUMCOUNTER +(COUNTER - 1); 00005830
  ELSE IF VARA =4 THEN SUMCOUNTER=SUMCOUNTER+(COUNTER - 2); 00005840
  ELSE IF VARA =0 THEN SUMCOUNTER = SUMCOUNTER + COUNTER ; 00005850
  ELSE IF VARA =1 THEN SUMCOUNTER = SUMCOUNTER + COUNTER ; 00005860
  IF GEWI >0 THEN GEWI =(GEWI/PREC)*100 ;                 00005870
  IF SNOWY > 0 THEN SNOWFRQ = (SNOWY / PREC ) * 100;     00005880
  IF(DRY + PREC + NOMENT) > NOBS THEN DO WHILE((DRY + PREC + 00005890
  NOMENT) -= NOBS);
    PREC = PREC - 1;                                     00005900
  END;                                                    00005920
  IF VRND > PREC THEN DO WHILE(VRND > PREC);VRND = VRND - 1;END;00005930
  00005940
  /*****/00005950
  00005960
  /* PRINT OF MONTHLY MEANS */00005970
  00005980
  00005990
  IF MONTH = 1 & DEC = 3 THEN DO;00006000
  PUT PAGE EDIT00006010
  ('JAHR MON   PRC   VRD REG GW% HAG SNO RES SNE   ',00006020
  'DRY TRK WLK SON  FOG MNB NEB  STM   FHN WES BIS NOR',00006030
  '   MLD   HSS WRM LAU  CLD SKT KLT KHL   RIF',00006040
  '   NWI NTH NWE  NOB SDK   SF%')00006050
  (A(56),A(63),A(61),A(42));00006060
  PUT EDIT(YEAR,NAME,PREC,   VRND,REGN,GEWI,00006070
  HAGL,SNOWY,RESN,SCHN,DRY,TROK,WOLK,SONN,00006080
  FOG,MONB,NEBL,STURM ,FOHN,WEST,BISE,NORD,00006090
  MILD,HEISS,WARM,LAU,COLD,SKLT,KALT,KUEHL,00006100
  REIF,NOWIND,NOTHER,NOMENT,NOBS,SNOWVCNT,SNOWFRQ)00006110
  (SKIP(2),F(4),X(1), A,X(3),R(M1),R(M2),SKIP,X(11),00006120
  R(M1),R(M3),X(1),F(2),X(4),F(3));00006130
  END;00006140
  ELSE DO;00006150
  PUT EDIT(   NAME,PREC,   VRND,REGN,GEWI,00006160
  HAGL,SNOWY,RESN,SCHN,DRY,TROK,WOLK,SONN,00006170
  FOG,MONB,NEBL,STURM ,FOHN,WEST,BISE,NORD,00006180
  MILD,HEISS,WARM,LAU,COLD,SKLT,KALT,KUEHL,00006190
  REIF,NOWIND,NOTHER,NOMENT,NOBS,SNOWVCNT,SNOWFRQ)00006200
  (SKIP(2), X(5),A,X(3),R(M1),R(M2),SKIP,X(11),00006210
  R(M1),R(M3),X(1),F(2),X(4),F(3));00006220
  END;00006230
  IF GEWI=100 THEN GEWI = GEWI - 1;00006240
  IF SNOWFRQ=100 THEN SNOWFRQ = SNOWFRQ -1;00006250
  00006260
  /*****/00006270
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00006280
00006290
/* AUSGABE DER MONATSWERTE AUF FILE */
00006300
00006310
00006320
00006330
00006340
00006350
00006360
00006370
00006380
00006390
00006400
00006410
00006420
00006430
00006440
00006450
00006460
00006470
00006480
00006490
00006500
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00006580
00006590
00006600
00006610
00006620
00006630
00006640
00006650
00006660
00006670
00006680
00006690
00006700
00006710
00006720
00006730
00006740
00006750
00006760
00006770
00006780
00006790
00006800
00006810
00006820
00006830
00006840

DEC=0; /* DEC=0 MEANS MONTHLY VALUES*/
PUT FILE(PCH)EDIT(JAHR,MONTH,DEC,AREA,SOURCE,PREC,
VRND,REGN,GEWI,HAGL,SNOWY,RESN,SCHN,DRY,TROK,WOLK,
SONN,FOG,MONB,NEBL,STURM,FOHN,WEST,BISE,NORD,MILD,
HEISS,WARM,LAU,COLD,SKLT,KALT,KUEHL,REIF,NOWIND,
NOTHER,NOMENT,NOBS,SNOWVCNT,SNOWFRQ)(COL(1),F(3),
COL(4),F(2),COL(6),F(1),COL(8),F(1),COL(11),F(4),
COL(16),19(F(2)),COL(1),16(F(2)));
L = L + 1; /* COUNTS #MONTHS */

/* COMPUTATIONS FOR ANNUAL MEANS */

SONNCNT = SONNCNT + SONN ;
WOLKCNT = WOLKCNT + WOLK ;
VRNDCNT = VRNDCNT + VRND ;
REGNCNT = REGNCNT + REGN;
RESNCNT = RESNCNT + RESN ;
SCHNCNT = SCHNCNT + SCHN;
NEBLCNT = NEBLCNT + NEBL ;
TROKCNT = TROKCNT + TROK ;
IF GEWI >0 & ((MONTH > 4) & (MONTH -> 9)) THEN GEWICHT
= GEWICHT + GEWI;
PRECCNT = PRECCNT + PREC ;
SNOWYCNT = SNOWYCNT + SNOWY;
IF ((MONTH > 10) | (MONTH < 5)) THEN
SNOWFRQCNT = SNOWFRQCNT + SNOWFRQ;
SCHNEEDKCNT = SCHNEEDKCNT + SNOWVCNT;
DRYCNT = DRYCNT + DRY;
NOMENTCNT = NOMENTCNT + NOMENT ;
HEISSCNT = HEISSCNT + HEISS;
WARMCNT = WARMCNT + WARM;
LAUCNT = LAUCNT + LAU;
KUEHLCNT = KUEHLCNT + KUEHL;
KALTCNT = KALTCNT + KALT;
SKLTCNT = SKLTCNT + SKLT ;
STURMCNT = STURMCNT + STURM ;
REIFCNT = REIFCNT + REIF ;
MILDCNT = MILDCNT + MILD;
COLDCNT = COLDCNT + COLD;
NOTHERCNT = NOTHERCNT + NOTHER;
FOHNCNT = FOHNCNT + FOHN ;
WESTCNT = WESTCNT + WEST ;
BISECNT = BISECNT + BISE ;
NORDCNT = NORDCNT + NORD ;
MONBCNT = MONBCNT + MONB ;
HAGLCNT = HAGLCNT + HAGL ;
NOWINDCNT = NOWINDCNT + NOWIND ;
FOGCNT = FOGCNT + FOG ;
NOBSCNT = NOBSCNT + NOBS ;
COUNTER = 0;

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TROK=0;SONN=0;WOLK=0;VRND=0;REGN=0;RESN=0;SCHN=0;NEBL=0;GEWI=0;00006850
PREC=0;SNOWY=0;DRY=0;NOMENT=0;NOBS=0;00006860
HEISS=0;WARM=0;LAU=0;KUEHL=0;KALT=0;SKLT=0;STURM=0;REIF=0;00006870
COLD=0;MILD=0;NOTHER=0;SNOWCVCNT=0;SNOWFRQ=0;00006880
NOWIND=0;FOHN=0;WEST=0;BISE=0;NORD=0;MONB=0;HAGL=0;FOG=0;00006890
/*****/00006900
/* COMPUTATION OF SNOWCOVER AND SNOWFREQUENCY FOR PAST WINTER */00006910
IF MONTH = 7 THEN DO;00006920
  IF K > 1 THEN KONTR = CRT / K;00006930
  SCHNHAEUF = SNOWFRQCNT / 6;00006940
  SCHNEEDK=SCHNEEDKCNT;00006950
  SCHNEEDKCNT=0;SNOWFRQCNT=0;CRT=0;K=0;00006960
END;00006970
/*****/00006980
/* PRINT OF ANNUAL SUM */00006990
IF MONTH = 12 THEN DO;00007000
PUT EDIT('JAHR PRC VRD REG GW% HAG SNO RES SNE ',00007010
'DRY TRK WLK SON FOG MNB NEB STM FHN WES BIS NOR',00007020
' MLD HSS WRM LAU CLD SKT KLT KHL RIF',00007030
' NWI NTH NWE NOB SF% SDK')00007040
(SKIP(3),A(56),A(63),A(61),A(42));00007050
PUT EDIT(YEAR,PRECNT,VRNDCNT,REGNCNT,GEWICNT / 5,00007060
HAGLCNT,SNOWYCNT,RESNCNT,SCHNCNT,DRYCNT,00007070
TROKCNT,WOLKCNT,SONNCNT,FOGCNT,MONBCNT,NEBLCNT,00007080
STURMCNT,FOHNCNT,WESTCNT,BISECNT,NORDCNT,00007090
MILDCNT,HEISSCNT,WARMCNT,LAUCNT,COLDCNT,00007100
SKLTCNT,KALTCNT,KUEHLCNT,REIFCNT,NOWINDCNT,00007110
NOTHERCNT,NOMENTCNT,NOBSCNT,SCHNHAEUF,SCHNEEDK)00007120
(SKIP(3),F(4),X(7),R(M1),R(M2),SKIP,X(11),00007130
R(M1),R(M3),X(1),F(2),X(4),F(3));00007140
IF KONTR < 8.2 THEN PUT EDIT ('*')(A) ;00007150
00007160
00007170
00007180
00007190
00007200
00007210
00007220
00007230
00007240
00007250
00007260
00007270
00007280
00007290
00007300
00007310
00007320
00007330
00007340
00007350
00007360
00007370
00007380
00007390
00007400
00007410
PUT PAGE LIST('L E G E N D E ');
PUT SKIP(3)LIST('PRC','ANZAHL TAGE MIT NIEDERSCHLAG');
PUT SKIP LIST('VRD','ANZAHL TAGE MIT VEREINZELTEN REGENSCHAUERN');
PUT SKIP LIST('REG','ANZAHL TAGE MIT LANGDAUERNDEN REGEN');
PUT SKIP LIST('GW%', 'ANTEIL DER REGENTAGE MIT GEWITTERN IN %');
PUT SKIP LIST(' ', 'JAHRESWERTE=DURCHSCHNITT MAI - SEPT');
PUT SKIP(2)LIST('HAG','ANZAHL TAGE MIT HAGEL');
PUT SKIP(2)LIST('SNO','ANZAHL TAGE MIT SCHNEEFALL');
PUT SKIP LIST('RES','ANZAHL TAGE MIT SCHNEE UND REGEN');
PUT SKIP LIST('SNE','ANZAHL TAGE MIT AUSSCHLIESSLICH SCHNEEFALL');
PUT SKIP(2)LIST('DRY','ANZAHL TAGE OHNE NIEDERSCHLAG');
PUT SKIP LIST('TRK','ANZAHL TAGE MIT VERMERK <TROCKEN>');

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PUT SKIP LIST('WLK','ANZAHL TAGE MIT UEBERWIEGENDER BEWOELKUNG'); 00007420
PUT SKIP LIST('SON','ANZAHL TAGE MIT UEBERWIEGENDEM SONNENSCHNEIN'); 00007430
PUT SKIP(2)LIST('FOG','ANZAHL TAGE MIT NEBEL(TOTAL)'); 00007440
PUT SKIP LIST('MNB','ANZAHL TAGE MIT MORGENNEBEL UND AUFLUESUNG'); 00007450
PUT SKIP LIST('NEB','ANZAHL TAGE MIT NEBEL OHNE AUFLUESUNG'); 00007460
PUT SKIP(2)LIST('STM','ANZAHL TAGE MIT STUERMISCHEN WINDEN'); 00007470
PUT SKIP(2)LIST('FHN','ANZAHL TAGE MIT FOEHN'); 00007480
PUT SKIP LIST('WES','ANZAHL TAGE MIT WESTWIND'); 00007490
PUT SKIP LIST('BIS','ANZAHL TAGE MIT BISE'); 00007500
PUT SKIP LIST('NOR','ANZAHL TAGE MIT NORDWIND'); 00007510
PUT SKIP(2)LIST('MLD','ANZAHL ALLGEMEIN WARMER TAGE'); 00007520
PUT SKIP LIST('HSS','ANZAHL HEISSE TAGE'); 00007530
PUT SKIP LIST('WRM','ANZAHL WARMER TAGE'); 00007540
PUT SKIP LIST('LAU','ANZAHL LAUE TAGE'); 00007550
PUT SKIP(2)LIST('CLD','ANZAHL ALLGEMEIN KALTE TAGE'); 00007560
PUT SKIP LIST('SKT','ANZAHL SEHR KALTE TAGE'); 00007570
PUT SKIP LIST('KLT','ANZAHL KALTE TAGE'); 00007580
PUT SKIP LIST('KHL','ANZAHL KUEHLE TAGE'); 00007590
PUT SKIP(2)LIST('RIF','ANZAHL TAGE MIT REIF'); 00007600
PUT SKIP(2)LIST('NWI','ANZAHL TG OHNE WINDBEOBACHTG'); 00007610
PUT SKIP(2)LIST('NTH','ANZAHL TG OHNE TEMP.-CHARAKTERISIERG'); 00007620
PUT SKIP(2)LIST('NWE','ANZAHL TG OHNE BEOB.DER HIMMELSBEDECKG'); 00007630
PUT SKIP LIST(' ','UND NIEDERSCHLAG'); 00007640
PUT SKIP LIST('NOB','ANZAHL DER BEOBACHTUNGSTAGE'); 00007650
PUT SKIP(2)LIST('SF%', 'SCHNEEHAEUFIGKEIT:ANTEIL DER SCHNEETAGE'); 00007660
PUT SKIP LIST(' ','AN DEN NIEDERSCHLAGSTAGEN IN % (JAHRESWERTE=)'); 00007670
PUT SKIP LIST(' ','DURCHSCHNITT NOV DES VORJAHRES BIS APR)'); 00007680
PUT SKIP(2)LIST('SDK','GESCHAETZTE DAUER DER SCHNEEDECKE IN TAGEN'); 00007690
PUT SKIP LIST(' ','JAHRESWERTE UMFASSEN WINTERHALBJ.INKL.ANT.VORJAHR'); 00007700
/* COMPUTATIONS FOR TOTALS */
GENCOUNTER = GENCOUNTER + SUMCOUNTER; 00007710
SONNGEN = SONNGEN + SONNCNT; 00007720
WOLKGEN = WOLKGEN + WOLKCNT; 00007730
VRNDGEN = VRNDGEN + VRNCNT; 00007740
REGNGEN = REGNGEN + REGNCNT; 00007750
RESNGEN = RESNGEN + RESNCNT; 00007760
SCHNGEN = SCHNGEN + SCHNCNT; 00007770
NEBLGEN = NEBLGEN + NEBLCNT; 00007780
TROKGEN = TROKGEN + TROKCNT; 00007790
GEWIGEN = GEWIGEN + (GEWICHT / 5); 00007800
NOMENTGEN = NOMENTGEN + NOMENTCNT; 00007810
PRECGEN = PRECGEN + PRECCNT; 00007820
DRYGEN = DRYGEN + DRYCNT; 00007830
SNOWYGEN = SNOWYGEN + SNOWYCNT; 00007840
HEISSGEN = HEISSGEN + HEISSCNT; 00007850
WARMGEN = WARMGEN + WARMCNT; 00007860
LAUGEN = LAUGEN + LAUCNT; 00007870
KUEHLGEN = KUEHLGEN + KUEHLCNT; 00007880
KALTGEN = KALTGEN + KALTCNT; 00007890
SKLTGEN = SKLTGEN + SKLTCNT; 00007900
STURMGEN = STURMGEN + STURMCNT; 00007910
REIFGEN = REIFGEN + REIFCNT; 00007920
COLDGEN = COLDGEN + COLDCNT; 00007930

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MILDGEN = MILDGEN + MILD CNT ; 00007990
NOTHERGEN = NOTHERGEN + NOTHERCNT ; 00008000
FOHNGEN = FOHNGEN + FOHNCNT ; 00008010
WESTGEN = WESTGEN + WESTCNT ; 00008020
BISEGEN = BISEGEN + BISECNT ; 00008030
NORDGEN = NORDGEN + NORDCNT ; 00008040
MONBGEN = MONBGEN + MONBCNT ; 00008050
HAGLGEN = HAGLGEN + HAGLCNT ; 00008060
FOGGEN = FOGGEN + FOGCNT ; 00008070
NOWINDGEN = NOWINDGEN + NOWINDCNT ; 00008080
NOBSGEN = NOBSGEN + NOBSCNT ; 00008090
SNOWCVGEN = SNOWCVGEN + SCHNEEDK ; 00008100
SNOWFRQGEN = SNOWFRQGEN + SCHNHAEUF ; 00008110
HEISSCNT=0;WARMCNT=0;LAUCNT=0;KUEHLCNT=0;KALTCNT=0;SKLTCNT=0; 00008120
=0;STURMCNT=0;REIFCNT=0;COLDCNT=0;MILDCNT=0;NOTHERCNT=0; 00008130
TROKCNT=0;SONNCNT=0;WOLKCNT=0;VRNDCNT=0;REGNCNT=0; 00008140
RESNCNT=0;SCHNCNT=0;NEBLCNT=0;GEWICNT=0;DRYCNT=0;SNOWYCNT 00008150
=0;PRECCNT=0;NOMENTCNT=0;NOBSCNT=0; 00008160
NOWINDCNT=0;FOHNCNT=0;WESTCNT=0;BISECNT=0;NORDCNT=0; 00008170
MONBCNT=0;HAGLCNT=0;FOGCNT=0; 00008180
SCHNEEDK=0;KONTR=0;SCHNHAEUF=0; 00008190
M = M + 1; /* COUNTS #YEARS */ 00008200
END; 00008210
END; 00008220
GO TO RD ; 00008230
00008240
/*****/ 00008250
00008260
/* PRINT OF ANNUAL AVERAGES */ 00008270
00008280
00008290
FI: IF (NOBSGEN + NOBSCNT + NOBS) > 0 THEN DO; 00008300
N = NOBSGEN + NOBSCNT + NOBS ; 00008310
SONNGEN = ((SONNGEN + SONNCNT + SONN) / N ) * 365 ; 00008320
WOLKGEN = ((WOLKGEN + WOLKCNT + WOLK) / N ) * 365 ; 00008330
VRNDGEN = (( VRNDGEN + VRNDCNT + VRND ) / N ) * 365 ; 00008340
REGNGEN = ((REGNGEN + REGNCNT + REGN ) / N ) * 365 ; 00008350
RESNGEN = ((RESNGEN + RESNCNT + RESN ) / N ) * 365 ; 00008360
SCHNGEN = ((SCHNGEN + SCHNCNT + SCHN ) / N ) * 365 ; 00008370
NEBLGEN = ((NEBLGEN + NEBLCNT + NEBL) / N ) * 365 ; 00008380
TROKGEN = ((TROKGEN + TROKCNT + TROK ) / N ) * 365 ; 00008390
GEWIGEN = GEWIGEN / M; /* M = #YEARS */ 00008400
NOMENTGEN = ((NOMENTGEN + NOMENTCNT + NOMENT) / N ) * 365 ; 00008410
HEISSGEN = ((HEISSGEN + HEISSCNT + HEISS) / N ) * 365 ; 00008420
WARMGEN = ((WARMGEN + WARMCNT + WARM ) / N ) * 365 ; 00008430
LAUGEN = ((LAUGEN + LAUCNT + LAU) / N ) * 365 ; 00008440
KUEHLGEN = ((KUEHLGEN + KUEHLCNT + KUEHL) / N ) * 365 ; 00008450
KALTGEN = ((KALTGEN + KALTCNT + KALT) / N ) * 365 ; 00008460
SKLTGEN = ((SKLTGEN + SKLTCNT + SKLT) / N ) * 365 ; 00008470
STURMGEN = ((STURMGEN + STURMCNT + STURM) / N ) * 365 ; 00008480
REIFGEN = ((REIFGEN + REIFCNT + REIF) / N ) * 365 ; 00008490
NOTHERGEN = ((NOTHERGEN + NOTHERCNT + NOTHER) / N)* 365; 00008500
NOWINDGEN = ((NOWINDGEN + NOWINDCNT + NOWIND) / N ) * 365; 00008510
PRECCGEN = ((PRECCGEN + PRECCNT + PREC) / N ) * 365 ; 00008520
SNOWYGEN = ((SNOWYGEN + SNOWYCNT + SNOWY) / N ) * 365 ; 00008530
SNOWFRQGEN = SNOWFRQGEN / M; /* M = #YEARS */ 00008540
DRYGEN = ((DRYGEN + DRYCNT + DRY) / N ) * 365 ; 00008550

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FOGGEN =((FOGGEN + FOGCNT + FOG) / N ) * 365 ; 00008560
SNOWCVGEN =((SNOWCVGEN + SNOWVCNT) / N ) * 365 ; 00008570
IF FOHNGEN > 0 THEN FOHNGEN =((FOHNGEN + FOHNCNT + FOHN) / 00008580
  N ) * 365 ; 00008590
IF WESTGEN > 0 THEN WESTGEN =((WESTGEN + WESTCNT + WEST) / 00008600
  N ) * 365 ; 00008610
IF BISEGEN > 0 THEN BISEGEN =((BISEGEN + BISECNT + BISE) / 00008620
  N ) * 365 ; 00008630
IF NORDGEN > 0 THEN NORDGEN =((NORDGEN + NORDCNT + NORD) / 00008640
  N ) * 365 ; 00008650
END; 00008660
00008670
00008680
PUT PAGE LIST(' A N N U A L A V E R A G E S '); 00008690
PUT SKIP(3) LIST('N OF OBSERVATIONS',N); 00008700
PUT SKIP(2) LIST('NO WIND OBSERVATION',NOWINDGEN); 00008710
PUT SKIP LIST('NO THERMAL INDICATIONS',NOTHERGEN); 00008720
PUT SKIP LIST('NO SKY OBSERVATION',NOMENTGEN); 00008730
PUT SKIP(3)LIST('WITHOUT PRECIPITATION',DRYGEN); 00008740
PUT SKIP LIST ('SUNNY',SONNGEN); 00008750
PUT SKIP LIST('CLOUDY',WOLKGEN); 00008760
PUT SKIP LIST('NO RAIN ONLY',TROKGEN); 00008770
PUT SKIP LIST('FOGGY',NEBLGEN); 00008780
PUT SKIP(3)LIST('DAYS WITH PRECIPITATION',PRECGEN); 00008790
PUT SKIP LIST('SOME SHOWERS',VRNDGEN); 00008800
PUT SKIP LIST('RAINY',REGNGEN); 00008810
PUT SKIP LIST('%THUNDERSTORMS(MAY-SEP)',GEWIGEN); 00008820
PUT SKIP LIST('DAYS WITH SNOWFALL',SNOWYGEN); 00008830
PUT SKIP LIST('RAIN AND SNOW',RESNGEN); 00008840
PUT SKIP LIST('SNOW ONLY',SCHNGEN); 00008850
PUT SKIP LIST('SNOWFRQ % (NOV-APR)',SNOWFRQGEN); 00008860
PUT SKIP(2)LIST('HOT',HEISSGEN); 00008870
PUT SKIP LIST('WARM',WARMGEN); 00008880
PUT SKIP LIST('MILD',LAUGEN); 00008890
PUT SKIP(2)LIST('COOL',KUEHLGEN); 00008900
PUT SKIP LIST('COLD',KALTGEN); 00008910
PUT SKIP LIST('VERY COLD',SKLTGEN); 00008920
PUT SKIP(2)LIST('STORM',STURMGEN); 00008930
PUT SKIP LIST('HOAR-FROST',REIFGEN); 00008940
PUT SKIP LIST('DAYS WITH SNOWCOVER',SNOWCVGEN); 00008950
PUT SKIP LIST('FOEHN',FOHNGEN); 00008960
PUT SKIP LIST('BISE',BISEGEN); 00008970
PUT SKIP LIST('WEST',WESTGEN); 00008980
PUT SKIP LIST('NORD',NORDGEN); 00008990
PUT SKIP(20) LIST(' '); 00009000
00009010
00009020
CLOSE FILE(WISH); 00009030
END METIF1; 00009040
00009050

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