

#### I.4-DATAUNIT DATA UNIT CODES

The data unit codes are used to indicate the units of the data.

Each unit is assigned a data dimension code to allow conversion from one unit to another. Units can be converted only to another unit with the same dimension.

The following tables are included in this Chapter:

- o data units sorted by description
- o data units sorted by unit code
- o data units and attributes sorted by unit code
- o data units and attributes sorted by dimension code

The following headings and abbreviations are used in the tables:

- o Unit Code (code for data unit)
- o Description (description of data unit)
- o DIMN Code (code for data dimension):
  - DIR = direction
  - DLES = dimension less
  - E = energy
  - E/L2 = energy per unit area
  - E/T = power
  - L = length
  - L/T = velocity
  - L2 = area
  - L3 = volume
  - L3/T = discharge
  - PRES = pressure
  - TEMP = temperature
  - TIME = time
- o Form Code:
  - BASE = base unit used for conversion to other allowable units
  - OTHR = other allowable units
- o Conversion Factor 1 (factor to convert from base unit)
- o Conversion Factor 1 (additional factor to convert TEMP data from base unit)

Table 1. Data Units Sorted by Description

<u>Unit Code</u>	<u>Description</u>
ACRE	ACRE
ACFT	ACRE-FOOT
AF/D	ACRE-FOOT PER DAY
ATM	ATMOSPHERE
BTF2	BTU PER SQUARE FOOT
CM	CENTIMETER
CM/S	CENTIMETER PER SECOND
CC	CUBIC CENTIMETER
CC/S	CUBIC CENTIMETER PER SECOND
FT3	CUBIC FOOT
CFS	CUBIC FOOT PER SECOND
CFSD	CUBIC FOOT PER SECOND-DAY
CHM	CUBIC HECTOMETERS
IN3	CUBIC INCH
M3	CUBIC METER
CM/H	CUBIC METER PER HOUR
CMS	CUBIC METER PER SECOND
CMSD	CUBIC METER PER SECOND-DAY
DAY	DAY
DEG	DEGREE
DEGC	DEGREE CENTIGRADE
DEGF	DEGREE FAHRENHEIT
DEGK	DEGREE KELVIN
DEGR	DEGREE RANKINE
FT	FOOT
FT/M	FOOT PER MINUTE
FT/S	FOOT PER SECOND
GAL	GALLON (US)
GPM	GALLON PER MINUTE
HECT	HECTARE
HR	HOUR
IN	INCH
INHG	INCH OF MERCURY
INT	INTEGER NUMBER
JCM2	JOULE PER SQUARE CENTIMETER
KM	KILOMETER
KM/D	KILOMETER PER DAY
KM/H	KILOMETER PER HOUR
KHM2	KILOWATT HOUR PER SQUARE METER
KWH	KILOWATT HOURS
KW	KILOWATTS
KIND	KIND OF OCCURRENCE
KNOT	KNOT
LY	LANGLEY
LITR	LITER
M	METER
M/S	METER PER SECOND
NM	MILE (NAUTICAL)
MI	MILE (STATUTE)
MI/D	MILE PER DAY

Table 1. Data Units Sorted by Description

<u>Unit Code</u>	<u>Description</u>
MI/H	MILE PER HOUR
MB	MILLIBAR
MM	MILLIMETER
MMHG	MILLIMETER OF MERCURY
MCM	MILLION CUBIC METERS
MGD	MILLION GALLON PER DAY
MIN	MINUTE
PCT	PERCENT
PCTD	PERCENT/100
RAD	RADIAN
REAL	RATIONAL NUMBER
SEC	SECOND
CM2	SQUARE CENTIMETER
FT2	SQUARE FOOT
IN2	SQUARE INCH
KM2	SQUARE KILOMETER
M2	SQUARE METER
NM2	SQUARE MILE (NAUTICAL)
MI2	SQUARE MILE (STATUTE)
MM2	SQUARE MILLIMETER
KKWH	THOUSAND KILOWATT HOURS
KKW	THOUSAND KILOWATTS

Table 2. Data Units Sorted by Unit Code

<u>Unit Code</u>	<u>Description</u>
ACFT	ACRE-FOOT
ACRE	ACRE
AF/D	ACRE-FOOT PER DAY
ATM	ATMOSPHERE
BTF2	BTU PER SQUARE FOOT
CC	CUBIC CENTIMETER
CC/S	CUBIC CENTIMETER PER SECOND
CFS	CUBIC FOOT PER SECOND
CFSD	CUBIC FOOT PER SECOND-DAY
CHM	CUBIC HECTOMETERS
CM	CENTIMETER
CM/H	CUBIC METER PER HOUR
CM/S	CENTIMETER PER SECOND
CM2	SQUARE CENTIMETER
CMS	CUBIC METER PER SECOND
CMSD	CUBIC METER PER SECOND-DAY
DAY	DAY
DEG	DEGREE
DEGC	DEGREE CENTIGRADE
DEGF	DEGREE FAHRENHEIT
DEGK	DEGREE KELVIN
DEGR	DEGREE RANKINE
FT	FOOT
FT/M	FOOT PER MINUTE
FT/S	FOOT PER SECOND
FT2	SQUARE FOOT
FT3	CUBIC FOOT
GAL	GALLON (US)
GPM	GALLON PER MINUTE
HECT	HECTARE
HR	HOUR
IN	INCH
IN2	SQUARE INCH
IN3	CUBIC INCH
INHG	INCH OF MERCURY
INT	INTEGER NUMBER
JCM2	JOULE PER SQUARE CENTIMETER
KHM2	KILOWATT HOUR PER SQUARE METER
KIND	KIND OF OCCURRENCE
KKW	THOUSAND KILOWATTS
KKWH	THOUSAND KILOWATT HOURS
KM	KILOMETER
KM/D	KILOMETER PER DAY
KM/H	KILOMETER PER HOUR
KM2	SQUARE KILOMETER
KNOT	KNOT
KW	KILOWATTS
KWH	KILOWATT HOURS
LITR	LITER
LY	LANGLEY

Table 2. Data Units Sorted by Unit Code

<u>Unit Code</u>	<u>Description</u>
M	METER
M/S	METER PER SECOND
M2	SQUARE METER
M3	CUBIC METER
MB	MILLIBAR
MCM	MILLION CUBIC METERS
MGD	MILLION GALLON PER DAY
MI	MILE (STATUTE)
MI/D	MILE PER DAY
MI/H	MILE PER HOUR
MI2	SQUARE MILE (STATUTE)
MIN	MINUTE
MM	MILLIMETER
MM2	SQUARE MILLIMETER
MMHG	MILLIMETER OF MERCURY
NM	MILE (NAUTICAL)
NM2	SQUARE MILE (NAUTICAL)
PCT	PERCENT
PCTD	PERCENT/100
RAD	RADIAN
REAL	RATIONAL NUMBER
SEC	SECOND

Table 3. Data Units and Attributes

Unit Code	DIMN Code	Form Code	Conversion Factor 1	Conversion Factor 2
ACFT	L3	OTHR	1233.4800000	0.00000
ACRE	L2	OTHR	4046.8600000	0.00000
AF/D	L3/T	OTHR	0.0143000	0.00000
ATM	PRES	OTHR	1013.2500000	0.00000
BTF2	E/L2	OTHR	0.0271330	0.00000
CC	L3	OTHR	0.0000010	0.00000
CC/S	L3/T	OTHR	0.0000010	0.00000
CFS	L3/T	OTHR	0.0283165	0.00000
CFSD	L3	OTHR	2446.6000000	0.00000
CHM	L3	OTHR	0.0000000	0.00000
CM	L	OTHR	10.0000000	0.00000
CM/H	L3/T	OTHR	0.0002800	0.00000
CM/S	L/T	OTHR	0.0100000	0.00000
CM2	L2	OTHR	0.0001000	0.00000
CMS	L3/T	BASE	1.0000000	0.00000
CMSD	L3	OTHR	86400.0000000	0.00000
DAY	TIME	OTHR	86400.0000000	0.00000
DEG	DIR	BASE	1.0000000	0.00000
DEGC	TEMP	BASE	1.0000000	0.00000
DEGF	TEMP	OTHR	0.5555560	-17.77780
DEGK	TEMP	OTHR	1.0000000	-273.00000
DEGR	TEMP	OTHR	0.5555560	-273.00000
FT	L	OTHR	304.8000000	0.00000
FT/M	L/T	OTHR	0.0050800	0.00000
FT/S	L/T	OTHR	0.3048000	0.00000
FT2	L2	OTHR	0.0929000	0.00000
FT3	L3	OTHR	0.0283165	0.00000
GAL	L3	OTHR	0.0037900	0.00000
GPM	L3/T	OTHR	0.0000630	0.00000
HECT	L2	OTHR	1000.0000000	0.00000
HR	TIME	OTHR	3600.0000000	0.00000
IN	L	OTHR	25.4000000	0.00000
IN2	L2	OTHR	0.0006500	0.00000
IN3	L3	OTHR	0.0000164	0.00000
INHG	PRES	OTHR	33.8640000	0.00000
INT	DLES	OTHR	1.0000000	0.00000
JCM2	E/L2	OTHR	0.2389200	0.00000
KHM2	E/L2	OTHR	86.0280000	0.00000
KIND	DLES	OTHR	1.0000000	0.00000
KKW	E/T	OTHR	0.0000000	0.00000
KKWH	E	OTHR	0.0000000	0.00000
KM	L	OTHR	100000.0000000	0.00000
KM/D	L/T	OTHR	0.00038595	0.00000
KM/H	L/T	OTHR	0.2777800	0.00000
KM2	L2	OTHR	100000.0000000	0.00000
KNOT	L/T	OTHR	0.5157900	0.00000
KW	E/T	BASE	0.0000000	0.00000
KWH	E	BASE	0.0000000	0.00000
LITR	L3	OTHR	0.0010000	0.00000
LY	E/L2	BASE	1.0000000	0.00000

Table 3. Data Units and Attributes

<u>Unit Code</u>	<u>DIMN Code</u>	<u>Form Code</u>	<u>Conversion Factor 1</u>	<u>Conversion Factor 2</u>
M	L	OTHR	1000.000000	0.00000
M/S	L/T	BASE	1.000000	0.00000
M2	L2	BASE	1.000000	0.00000
M3	L3	BASE	1.000000	0.00000
MB	PRES	BASE	1.000000	0.00000
MCM	L3	OTHR	0.000000	0.00000
MGD	L3/T	OTHR	22.800000	0.00000
MI	L	OTHR	1609344.000000	0.00000
MI/D	L/T	OTHR	0.0006210	0.00000
MI/H	L/T	OTHR	0.4470400	0.00000
MI2	L2	OTHR	2588999.000000	0.00000
MIN	TIME	OTHR	60.000000	0.00000
MM	L	BASE	1.000000	0.00000
MM2	L2	OTHR	0.0000010	0.00000
MMHG	PRES	OTHR	1.3332200	0.00000
NM	L	OTHR	1853248.000000	0.00000
NM2	L2	OTHR	3434528.000000	0.00000
PCT	DLES	OTHR	0.0100000	0.00000
PCTD	DLES	OTHR	1.0000000	0.00000
RAD	DIR	OTHR	57.2958000	0.00000
REAL	DLES	BASE	1.0000000	0.00000
SEC	TIME	BASE	1.0000000	0.00000

Table 4. Data Units Sorted by Dimension and Type Codes

<u>Unit Code</u>	<u>DIMN Code</u>	<u>Form Code</u>
DEG	DIR	BASE
RAD	DIR	OTHR
REAL	DLES	BASE
INT	DLES	OTHR
KIND	DLES	OTHR
PCT	DLES	OTHR
PCTD	DLES	OTHR
KWH	E	BASE
KKWH	E	OTHR
LY	E/L2	BASE
BTF2	E/L2	OTHR
JCM2	E/L2	OTHR
KHM2	E/L2	OTHR
KW	E/T	BASE
KKW	E/T	OTHR
MM	L	BASE
CM	L	OTHR
FT	L	OTHR
IN	L	OTHR
KM	L	OTHR
M	L	OTHR
MI	L	OTHR
NM	L	OTHR
M/S	L/T	BASE
CM/S	L/T	OTHR
FT/M	L/T	OTHR
FT/S	L/T	OTHR
KM/D	L/T	OTHR
KM/H	L/T	OTHR
KNOT	L/T	OTHR
MI/D	L/T	OTHR
MI/H	L/T	OTHR
M2	L2	BASE
ACRE	L2	OTHR
CM2	L2	OTHR
FT2	L2	OTHR
HECT	L2	OTHR
IN2	L2	OTHR
KM2	L2	OTHR
MI2	L2	OTHR
MM2	L2	OTHR
NM2	L2	OTHR
M3	L3	BASE
ACFT	L3	OTHR
CC	L3	OTHR
CFSD	L3	OTHR
CHM	L3	OTHR
CMSD	L3	OTHR
FT3	L3	OTHR
GAL	L3	OTHR



Table 4. Data Units Sorted by Dimension and Type Codes

<u>Unit Code</u>	<u>DIMN Code</u>	<u>Form Code</u>
IN3	L3	OTHR
LITR	L3	OTHR
MCM	L3	OTHR
CMS	L3/T	BASE
AF/D	L3/T	OTHR
CC/S	L3/T	OTHR
CFS	L3/T	OTHR
CM/H	L3/T	OTHR
GPM	L3/T	OTHR
MGD	L3/T	OTHR
MB	PRES	BASE
ATM	PRES	OTHR
INHG	PRES	OTHR
MMHG	PRES	OTHR
DEGC	TEMP	BASE
DEGF	TEMP	OTHR
DEGK	TEMP	OTHR
DEGR	TEMP	OTHR
SEC	TIME	BASE
DAY	TIME	OTHR
HR	TIME	OTHR
MIN	TIME	OTHR