

APPENDIX D XY DATA RECORD DEFINITION

1. Start Line

The initial line will consist of the XY index line defined above with the begin key of “::B-XY:”.

2. Body

The body of an XY record will contain:

(a) A date/time title line. An effective date and time should be provided for XY records. Title information should normally be provided for all XY data records.

(b) An X-parameter definition line. The record must contain one X-parameter definition line containing the X-parameter and its units.

(c) One or more Y-parameter definition lines. The record must contain at least one Y-parameter definition line containing the Y-parameter, its units, and optionally a numeric value and its units. More than one Y-parameter may be used for a family of curves or for a multiple parameter relationship. Each curve may be identified by a label.

(d) Comment lines. Any number of comment lines may be used.

(e) Data values. The values are to be written in a column format. Each data line contains one X-value and one each of the Y-values. Each data value is separated from another by a comma and/or any number of optional spaces.

3. End Line

The data record will be terminated by the end string “::E-XY:” followed by the same information on the start line.

4. Example 1

Elevation, area, storage relationship

```
::B-XY: ID=BVGA4,X=elevation,Y=area,Y=storage,NAME=Beaver Lake,ST=OH
```

```
DATE=01JUN1964, TITLE=Beaver Lake Area-Capacity Relationship
```

```
X=ELEVATION, UNITS=feet
```

```
Y=AREA, UNITS=acres, LABEL=Area
```

```
Y=STORAGE, UNITS=acre-feet,LABEL=Storage
```

```
::COM: Relationship determined before filling of lake.
```

```
::COM: Sediment may have since altered the relationship.
```

```
1115.0,    2500,    200000
```

```
1117.0,    7500,    300000
```

```
1119.0,    10000,   500000
```

ER 1110-2-8155
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1125.0, 30000, 650000
1130.0, 50000, 900000

::E-XY: ID=BVGA4,X=elevation,Y=area,Y=storage,NAME=Beaver Lake,ST=OH

5. Example 2

Family of gate discharge curves

::B-XY: ID=SVDW,X=elevation,Y=outflow,NAME=Big Bend Dam,ST=CO

DATE=21Jun1984, TITLE=BIG BEND DAM

X=ELEVATION, UNITS=feet

Y=OUTFLOW, UNITS=cfs, VALUE=2.0 feet

Y=OUTFLOW, UNITS=cfs, VALUE=6.0 feet

Y=OUTFLOW, UNITS=cfs, VALUE=12.0 feet

Y=OUTFLOW, UNITS=cfs, VALUE=24.0 feet

672.0,	0,	0,	0,	0
684.0,	8000,	25000,	35000,	35000
696.0,	10000,	32000,	50000,	112000
708.0,	15000,	43000,	86000,	180000
716.0,	18000,	49000,	95000,	192000

::E-XY: ID=SVDW,X=elevation,Y=outflow,NAME=Big Bend Dam,ST=CO