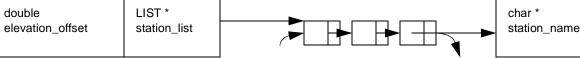
## **Annual Hydroperiod Data Structure**





Annual Hydroperiod Algorithm

For each station:

Threshold = Ground Surface Elevation + Elevation Offset

For each Year between Begin Year and End Year:

\_\_\_\_\_

Begin Wetting Event = Date such that

- 1) Date >= January 1, Year and
- 2) Date <= December 31, Year and
- 3) Average stage for Day >= Threshold and
- 4) Average stage for yesterday < Threshold

End Wetting Event = Date such that

- 1) Date > Begin Wetting Event and
- 2) Date <= December 31, Year and
- 3) Averge stage for Day < Threshold

Wetting Event = Period of Days between
Begin Wetting Event and End Wetting Event

Wetting Event Count = Number of Wetting Events in Year. Discontinous = Count( days above threshold for Year )
Averge = Discontinous / Wetting Event Count
Minimum = Number of days of the shortest Wetting Event.

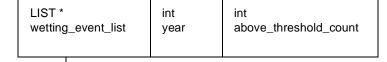
Maximum = Number of days of the longest Wetting Event.

char \*

ANNUAL HYDROPERIOD STATION

stage\_datatype\_name

### ANNUAL\_HYDROPERIOD\_YEAR



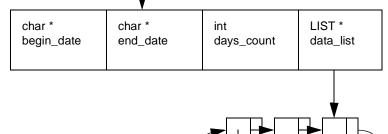
LIST \*

vear list

double

threshold

# ANNUAL\_HYDROPERIOD\_WETTING\_EVENT



## ANNUAL\_HYDROPERIOD\_DATA

char \* measurement\_date

double measurement\_value