

! Rich Juricich & Ajay Dev 10/19/1999

! wsi\_cvp\_sys

! Copied by Dustin Jones 11/15/1999 for use in CVP NOD

!\*\*\*\*\* DEFINES  
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The Water Supply Index (WSI) for the CVP SYS is the sum of the beginning of month storages (BOM) for Trinity Lake (S1), Shasta Lake (S4), Folsom Lake (S8), and the CVP-San Luis Reservoir (S11) and the Forecast of Runoff for the Sacramento River. The sum of the CVP Storage is defined as:  $WSI\_CVP\_Storage = S1 + S4 + S8 + S11$ .

Forecast of Runoff for the CVP NOD is defined as: [ Shasta Lake Inflow forecast based on the Sacramento R. component of SRI - Sum of Shasta Lake Inflows (I4) since 1-OCT ].

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! Water Supply Index for Central Valley Project

```
define WSI_CVP_sys {
  case MarToMay {
    condition month >= MAR .and. month <= MAY
    value      WSI_CVP_Storage(-1) + frcst_sac + frcst_amr +
jbyypass_del ! Previous month storage plus forecast inflow
  }
  case JunToFeb {
    condition always
    value      0 }
}
```

```
define WSI_CVP_sysdv {alias WSI_CVP_sys kind 'water-supply-index' units
'taf'}
```

```
define WSI_CVP_SYS_IO {
  case MarToMay {
    condition month >= MAR .and. month <= MAY
    value      WSI_CVP_Storage(-1) + frcst_sac + frcst_amr +
jbyypass_del + min(SIO_CVP(-1), max_return_cvp) ! Previous month storage
plus forecast inflow
  }
  case JunToFeb {
    condition always
    value      0 }
}
```

```
define WSI_CVP_IO_ {alias WSI_CVP_sys_IO kind 'water-supply-index' units
'taf'}
```