CHAPTER 12

SWAT INPUT DATA: .WGN

SWAT requires daily precipitation, maximum/minimum air temperature, solar radiation, wind speed and relative humidity. Values for all these parameters may be read from records of observed data or they may be generated.

The weather generator input file contains the statistical data needed to generate representative daily climate data for the subbasins. Ideally, at least 20 years of records are used to calculate parameters in the .wgn file. Climatic data will be generated in two instances: when the user specifies that simulated weather will be used or when measured data is missing.

Following is a brief description of the variables in the weather generator input file. They are listed in the order they appear within the file.

Variable name	Definition
TITLE	The first line of the .wgn file is reserved for user comments. The comments may take up to 80 spaces. The title line is not processed by the model and may be left blank.
	Optional.
WLATITUDE	Latitude of weather station used to create statistical parameters (degrees).
	The latitude is expressed as a real number with minutes and seconds converted to fractions of a degree.
	Required.
WLONGITUDE	Longitude of weather station (degrees).
	This variable is not used by the model and may be left blank.
	Optional.
WELEV	Elevation of weather station (m).
	Required if elevation bands are modeled in watershed.
RAIN_YRS	The number of years of maximum monthly 0.5 h rainfall data used to define values for RAIN_HHMX(1) - RAIN_HHMX(12).
	If no value is input for RAIN_YRS, SWAT will set RAIN_YRS = 10.
	Required.
TMPMX(mon)	Average or mean daily maximum air temperature for month (ºC).
	This value is calculated by summing the maximum air temperature for every day in the month for all years of record and dividing by the number of days summed:

Variable name	Definition
TMPMX(mon), cont.	$$\mu mx_{mon} = \frac{\sum_{d=1}^{N} T_{mx,mon}}{N}$$ where μmx_{mon} is the mean daily maximum temperature for the month (°C), $T_{mx,mon}$ is the daily maximum temperature on record d in month mon (°C), and N is the total number of daily maximum temperature records for month mon. Required.
TMPMN(mon)	Average or mean daily minimum air temperature for month (ºC). This value is calculated by summing the minimum air temperature for every day in the month for all years of record and dividing by the number of days summed: $$\mu mn_{mon} = \frac{\sum_{d=1}^{N} T_{mn,mon}}{N}$$ where μmn_{mon} is the mean daily minimum temperature for the month (°C), $T_{mn,mon}$ is the daily minimum temperature on record d in month mon (°C), and N is the total number of daily minimum temperature records for month mon. Required.
TMPSTDMX(mon)	Standard deviation for daily maximum air temperature in month (ºC). This parameter quantifies the variability in maximum temperature for each month. The standard deviation is calculated: $$\sigma mx_{mon} = \sqrt{\left(\frac{\sum_{d=1}^{N} \left(T_{mx,mon} - \mu mx_{mon} \right)^2}{N-1} \right)}$$

Variable name	Definition
TMPSTDMX(mon), cont.	where σmx_{mon} is the standard deviation for daily maximum temperature in month *mon* (ºC), $T_{mx,mon}$ is the daily maximum temperature on record *d* in month *mon* (°C), μmx_{mon} is the average daily maximum temperature for the month (°C), and *N* is the total number of daily maximum temperature records for month *mon*.
	Required.
TMPSTDMN(mon)	Standard deviation for daily minimum air temperature in month (ºC).
	This parameter quantifies the variability in minimum temperature for each month. The standard deviation is calculated:
	$$\sigma mn_{mon} = \sqrt{\left(\frac{\sum\limits_{d=1}^{N} \left(T_{mn,mon} - \mu mn_{mon} \right)^2}{N-1} \right)}$$
	where σmn_{mon} is the standard deviation for daily minimum temperature in month *mon* (ºC), $T_{mn,mon}$ is the daily minimum temperature on record *d* in month *mon* (°C), μmn_{mon} is the average daily minimum temperature for the month (°C), and *N* is the total number of daily minimum temperature records for month *mon*.
	Required.
PCPMM(mon)	Average or mean total monthly precipitation (mm H_2O).
	$$\overline{R}_{mon} = \frac{\sum\limits_{d=1}^{N} R_{day,mon}}{yrs}$$
	where $\overline{R}_{mon}$ is the mean monthly precipitation (mm H_2O), $R_{day,mon}$ is the daily precipiation for record *d* in month *mon* (mm H_2O), *N* is the total number of records in month *mon* used to calculate the average, and *yrs* is the number of years of daily precipitation records used in calculation.
	Required.

Variable name	Definition
PCPSTD(mon)	Standard deviation for daily precipitation in month (mm H_2O/day).

This parameter quantifies the variability in precipitation for each month. The standard deviation is calculated:

$$\sigma_{mon} = \sqrt{\left(\frac{\sum_{d=1}^{N} \left(R_{day,mon} - \overline{R}_{mon} \right)^2}{N-1} \right)}$$

where σ_{mon} is the standard deviation for daily precipitation in month *mon* (mm H_2O), $R_{day,mon}$ is the amount of precipitation for record *d* in month *mon* (mm H_2O), $\overline{R}_{mon}$ is the average precipitation for the month (mm H_2O), and *N* is the total number of daily precipitation records for month *mon*. (Note: daily precipitation values of 0 mm are included in the standard deviation calculation).

Required.

Variable name	Definition
PCPSKW(mon)	Skew coefficient for daily precipitation in month.

This parameter quantifies the symmetry of the precipitation distribution about the monthly mean. The skew coefficient is calculated:

$$g_{mon} = \frac{N \cdot \sum_{d=1}^{N} \left(R_{day,mon} - \overline{R}_{mon} \right)^3}{(N-1) \cdot (N-2) \cdot (\sigma_{mon})^3}$$

where g_{mon} is the skew coefficient for precipitation in the month, *N* is the total number of daily precipitation records for month *mon*, $R_{day,mon}$ is the amount of precipitation for record *d* in month *mon* (mm H_2O), $\overline{R}_{mon}$ is the average precipitation for the month (mm H_2O), and σ_{mon} is the standard deviation for daily precipitation in month *mon* (mm H_2O). (Note: daily precipitation values of 0 mm are included in the skew coefficient calculation).

Required.

Variable name	Definition
PR_W(1,mon)	Probability of a wet day following a dry day in the month.

This probability is calculated:

$$P_i(W/D) = \frac{days_{W/D,i}}{days_{dry,i}}$$

where $P_i(W/D)$ is the probability of a wet day following a dry day in month i, $days_{W/D,i}$ is the number of times a wet day followed a dry day in month i for the entire period of record, and $days_{dry,i}$ is the number of dry days in month i during the entire period of record. A dry day is a day with 0 mm of precipitation. A wet day is a day with > 0 mm precipitation.

Required.

Variable name	Definition
PR_W(2,mon)	Probability of a wet day following a wet day in the month.

This probability is calculated:

$$P_i(W/W) = \frac{days_{W/W,i}}{days_{wet,i}}$$

where $P_i(W/W)$ is the probability of a wet day following a wet day in month i, $days_{W/W,i}$ is the number of times a wet day followed a wet day in month i for the entire period of record, and $days_{wet,i}$ is the number of wet days in month i during the entire period of record. A dry day is a day with 0 mm of precipitation. A wet day is a day with > 0 mm precipitation.

Required.

Variable name	Definition
PCPD(mon)	Average number of days of precipitation in month.

This parameter is calculated:

$$\overline{d}_{wet,i} = \frac{days_{wet,i}}{yrs}$$

where $\overline{d}_{wet,i}$ is the average number of days of precipitation in month i, $days_{wet,i}$ is the number of wet days in month i during the entire period of record, and yrs is the number of years of record.

Required.

Variable name	Definition
RAINHHMX(mon)	Maximum 0.5 hour rainfall in entire period of record for month (mm H_2O).
	This value represents the most extreme 30-minute rainfall intensity recorded in the entire period of record.
	Required.
SOLARAV(mon)	Average daily solar radiation for month ($MJ/m^2/day$).
	This value is calculated by summing the total solar radiation for every day in the month for all years of record and dividing by the number of days summed:

$$\mu rad_{mon} = \frac{\sum_{d=1}^{N} H_{day,mon}}{N}$$

where μrad_{mon} is the mean daily solar radiation for the month ($MJ/m^2/day$), $H_{day,mon}$ is the total solar radiation reaching the earth's surface for day d in month *mon* ($MJ/m^2/day$), and N is the total number of daily solar radiation records for month *mon*.

Required.

Variable name	Definition
DEWPT(mon)	Average daily dew point temperature for each month (ºC) or relative humidity (fraction) can be input.
	If all twelve months are less than one, the model assumes relative humidity is input. Relative humidity is defined in equation 1:3.5.1 in the SWAT Theoretical documentation as the amount of water vapor in the air as a fraction of saturation humidity. If any month has a value greater than 1.0, the model assumes dewpoint temperature is input.
	Dew point temperature is the temperature at which the actual vapor pressure present in the atmosphere is equal to the saturation vapor pressure. This value is calculated by summing the dew point temperature for every day in the month for all years of record and dividing by the number of days summed:
	$$\mu dew_{mon} = \frac{\sum_{d=1}^{N} T_{dew,mon}}{N}$$
	where μdew_{mon} is the mean daily dew point temperature for the month (ºC), $T_{dew,mon}$ is the dew point temperature for day d in month mon (ºC), and N is the total number of daily dew point records for month mon. Dew point is converted to relative humidity using equations 1:3.5.1 and 1:3.5.2 in the Theoretical Documentation.
	Required for Penman-Monteith potential evaporation equation.
WNDAV(mon)	Average daily wind speed in month (m/s).
	This value is calculated by summing the average or mean wind speed values for every day in the month for all years of record and dividing by the number of days summed:
	$$\mu wnd_{mon} = \frac{\sum_{d=1}^{N} \mu_{wnd,mon}}{N}$$
	where μwnd_{mon} is the mean daily wind speed for the month (m/s), $\mu_{wnd,mon}$ is the average wind speed for day d in month mon (m/s), and N is the total number of daily wind speed records for month mon.
	Required.

The format of the weather generator input file is:

Variable name	Line #	Position	Format	F90 Format
TITLE	1	space 1-80	character	a80
WLATITUDE	2	space 13-19	decimal(xxxx.xx)	f7.2
WLONGITUDE	2	space 32-38	decimal(xxxx.xx)	f7.2
WELEV	3	space 13-19	decimal(xxxx.xx)	f7.2
RAIN_YRS	4	space 13-19	decimal(xxxx.xx)	f7.2
TMPMX(1)	5	space 1-6	decimal(xxx.xx)	f6.2
TMPMX(2)	5	space 7-12	decimal(xxx.xx)	f6.2
TMPMX(3)	5	space 13-18	decimal(xxx.xx)	f6.2
TMPMX(4)	5	space 19-24	decimal(xxx.xx)	f6.2
TMPMX(5)	5	space 25-30	decimal(xxx.xx)	f6.2
TMPMX(6)	5	space 31-36	decimal(xxx.xx)	f6.2
TMPMX(7)	5	space 37-42	decimal(xxx.xx)	f6.2
TMPMX(8)	5	space 43-48	decimal(xxx.xx)	f6.2
TMPMX(9)	5	space 49-54	decimal(xxx.xx)	f6.2
TMPMX(10)	5	space 55-60	decimal(xxx.xx)	f6.2
TMPMX(11)	5	space 61-66	decimal(xxx.xx)	f6.2
TMPMX(12)	5	space 67-72	decimal(xxx.xx)	f6.2
TMPMN(1)	6	space 1-6	decimal(xxx.xx)	f6.2
TMPMN(2)	6	space 7-12	decimal(xxx.xx)	f6.2
TMPMN(3)	6	space 13-18	decimal(xxx.xx)	f6.2
TMPMN(4)	6	space 19-24	decimal(xxx.xx)	f6.2
TMPMN(5)	6	space 25-30	decimal(xxx.xx)	f6.2
TMPMN(6)	6	space 31-36	decimal(xxx.xx)	f6.2
TMPMN(7)	6	space 37-42	decimal(xxx.xx)	f6.2
TMPMN(8)	6	space 43-48	decimal(xxx.xx)	f6.2
TMPMN(9)	6	space 49-54	decimal(xxx.xx)	f6.2
TMPMN(10)	6	space 55-60	decimal(xxx.xx)	f6.2
TMPMN(11)	6	space 61-66	decimal(xxx.xx)	f6.2
TMPMN(12)	6	space 67-72	decimal(xxx.xx)	f6.2
TMPSTDMX(1)	7	space 1-6	decimal(xxx.xx)	f6.2
TMPSTDMX(2)	7	space 7-12	decimal(xxx.xx)	f6.2
TMPSTDMX(3)	7	space 13-18	decimal(xxx.xx)	f6.2

Variable name	Line #	Position	Format	F90 Format
TMPSTDMX(4)	7	space 19-24	decimal(xxx.xx)	f6.2
TMPSTDMX(5)	7	space 25-30	decimal(xxx.xx)	f6.2
TMPSTDMX(6)	7	space 31-36	decimal(xxx.xx)	f6.2
TMPSTDMX(7)	7	space 37-42	decimal(xxx.xx)	f6.2
TMPSTDMX(8)	7	space 43-48	decimal(xxx.xx)	f6.2
TMPSTDMX(9)	7	space 49-54	decimal(xxx.xx)	f6.2
TMPSTDMX(10)	7	space 55-60	decimal(xxx.xx)	f6.2
TMPSTDMX(11)	7	space 61-66	decimal(xxx.xx)	f6.2
TMPSTDMX(12)	7	space 67-72	decimal(xxx.xx)	f6.2
TMPSTDMN(1)	8	space 1-6	decimal(xxx.xx)	f6.2
TMPSTDMN(2)	8	space 7-12	decimal(xxx.xx)	f6.2
TMPSTDMN(3)	8	space 13-18	decimal(xxx.xx)	f6.2
TMPSTDMN(4)	8	space 19-24	decimal(xxx.xx)	f6.2
TMPSTDMN(5)	8	space 25-30	decimal(xxx.xx)	f6.2
TMPSTDMN(6)	8	space 31-36	decimal(xxx.xx)	f6.2
TMPSTDMN(7)	8	space 37-42	decimal(xxx.xx)	f6.2
TMPSTDMN(8)	8	space 43-48	decimal(xxx.xx)	f6.2
TMPSTDMN(9)	8	space 49-54	decimal(xxx.xx)	f6.2
TMPSTDMN(10)	8	space 55-60	decimal(xxx.xx)	f6.2
TMPSTDMN(11)	8	space 61-66	decimal(xxx.xx)	f6.2
TMPMN(3)	6	space 13-18	decimal(xxx.xx)	f6.2
TMPSTDMN(12)	8	space 67-72	decimal(xxx.xx)	f6.2
PCPMM(1)	9	space 1-6	decimal(xxx.xx)	f6.2
PCPMM(2)	9	space 7-12	decimal(xxx.xx)	f6.2
PCPMM(3)	9	space 13-18	decimal(xxx.xx)	f6.2
PCPMM(4)	9	space 19-24	decimal(xxx.xx)	f6.2
PCPMM(5)	9	space 25-30	decimal(xxx.xx)	f6.2
PCPMM(6)	9	space 31-36	decimal(xxx.xx)	f6.2
PCPMM(7)	9	space 37-42	decimal(xxx.xx)	f6.2
PCPMM(8)	9	space 43-48	decimal(xxx.xx)	f6.2
PCPMM(9)	9	space 49-54	decimal(xxx.xx)	f6.2
PCPMM(10)	9	space 55-60	decimal(xxx.xx)	f6.2
PCPMM(11)	9	space 61-66	decimal(xxx.xx)	f6.2
PCPMM(12)	9	space 67-72	decimal(xxx.xx)	f6.2

Variable name	Line #	Position	Format	F90 Format
PCPSTD(1)	10	space 1-6	decimal(xxx.xx)	f6.2
PCPSTD(2)	10	space 7-12	decimal(xxx.xx)	f6.2
PCPSTD(3)	10	space 13-18	decimal(xxx.xx)	f6.2
PCPSTD(4)	10	space 19-24	decimal(xxx.xx)	f6.2
PCPSTD(5)	10	space 25-30	decimal(xxx.xx)	f6.2
PCPSTD(6)	10	space 31-36	decimal(xxx.xx)	f6.2
PCPSTD(7)	10	space 37-42	decimal(xxx.xx)	f6.2
PCPSTD(8)	10	space 43-48	decimal(xxx.xx)	f6.2
PCPSTD(9)	10	space 49-54	decimal(xxx.xx)	f6.2
PCPSTD(10)	10	space 55-60	decimal(xxx.xx)	f6.2
PCPSTD(11)	10	space 61-66	decimal(xxx.xx)	f6.2
PCPSTD(12)	10	space 67-72	decimal(xxx.xx)	f6.2
PCPSKW(1)	11	space 1-6	decimal(xxx.xx)	f6.2
PCPSKW(2)	11	space 7-12	decimal(xxx.xx)	f6.2
PCPSKW(3)	11	space 13-18	decimal(xxx.xx)	f6.2
PCPSKW(4)	11	space 19-24	decimal(xxx.xx)	f6.2
PCPSKW(5)	11	space 25-30	decimal(xxx.xx)	f6.2
PCPSKW(6)	11	space 31-36	decimal(xxx.xx)	f6.2
PCPSKW(7)	11	space 37-42	decimal(xxx.xx)	f6.2
PCPSKW(8)	11	space 43-48	decimal(xxx.xx)	f6.2
PCPSKW(9)	11	space 49-54	decimal(xxx.xx)	f6.2
PCPSKW(10)	11	space 55-60	decimal(xxx.xx)	f6.2
PCPSKW(11)	11	space 61-66	decimal(xxx.xx)	f6.2
PCPSKW(12)	11	space 67-72	decimal(xxx.xx)	f6.2
PR_W(1,1)	12	space 1-6	decimal(xxx.xx)	f6.2
PR_W(1,2)	12	space 7-12	decimal(xxx.xx)	f6.2
PR_W(1,3)	12	space 13-18	decimal(xxx.xx)	f6.2
PR_W(1,4)	12	space 19-24	decimal(xxx.xx)	f6.2
PR_W(1,5)	12	space 25-30	decimal(xxx.xx)	f6.2
PR_W(1,6)	12	space 31-36	decimal(xxx.xx)	f6.2
PR_W(1,7)	12	space 37-42	decimal(xxx.xx)	f6.2
PR_W(1,8)	12	space 43-48	decimal(xxx.xx)	f6.2
PR_W(1,9)	12	space 49-54	decimal(xxx.xx)	f6.2
PR_W(1,10)	12	space 55-60	decimal(xxx.xx)	f6.2
PR_W(1,11)	12	space 61-66	decimal(xxx.xx)	f6.2

Variable name	Line #	Position	Format	F90 Format
PR_W(1,12)	12	space 67-72	decimal(xxx.xx)	f6.2
PR_W(2,1)	13	space 1-6	decimal(xxx.xx)	f6.2
PR_W(2,2)	13	space 7-12	decimal(xxx.xx)	f6.2
PR_W(2,3)	13	space 13-18	decimal(xxx.xx)	f6.2
PR_W(2,4)	13	space 19-24	decimal(xxx.xx)	f6.2
PR_W(2,5)	13	space 25-30	decimal(xxx.xx)	f6.2
PR_W(2,6)	13	space 31-36	decimal(xxx.xx)	f6.2
PR_W(2,7)	13	space 37-42	decimal(xxx.xx)	f6.2
PR_W(2,8)	13	space 43-48	decimal(xxx.xx)	f6.2
PR_W(2,9)	13	space 49-54	decimal(xxx.xx)	f6.2
PR_W(2,10)	13	space 55-60	decimal(xxx.xx)	f6.2
PR_W(2,11)	13	space 61-66	decimal(xxx.xx)	f6.2
PR_W(2,12)	13	space 67-72	decimal(xxx.xx)	f6.2
PCPD(1)	14	space 1-6	decimal(xxx.xx)	f6.2
PCPD(2)	14	space 7-12	decimal(xxx.xx)	f6.2
PCPD(3)	14	space 13-18	decimal(xxx.xx)	f6.2
PCPD(4)	14	space 19-24	decimal(xxx.xx)	f6.2
PCPD(5)	14	space 25-30	decimal(xxx.xx)	f6.2
PCPD(6)	14	space 31-36	decimal(xxx.xx)	f6.2
PCPD(7)	14	space 37-42	decimal(xxx.xx)	f6.2
PCPD(8)	14	space 43-48	decimal(xxx.xx)	f6.2
PCPD(9)	14	space 49-54	decimal(xxx.xx)	f6.2
PCPD(10)	14	space 55-60	decimal(xxx.xx)	f6.2
PCPD(11)	14	space 61-66	decimal(xxx.xx)	f6.2
PCPD(12)	14	space 67-72	decimal(xxx.xx)	f6.2
RAINHHMX(1)	15	space 1-6	decimal(xxx.xx)	f6.2
RAINHHMX(2)	15	space 7-12	decimal(xxx.xx)	f6.2
RAINHHMX(3)	15	space 13-18	decimal(xxx.xx)	f6.2
RAINHHMX(4)	15	space 19-24	decimal(xxx.xx)	f6.2
RAINHHMX(5)	15	space 25-30	decimal(xxx.xx)	f6.2
RAINHHMX(6)	15	space 31-36	decimal(xxx.xx)	f6.2
RAINHHMX(7)	15	space 37-42	decimal(xxx.xx)	f6.2
RAINHHMX(8)	15	space 43-48	decimal(xxx.xx)	f6.2
RAINHHMX(9)	15	space 49-54	decimal(xxx.xx)	f6.2
RAINHHMX(10)	15	space 55-60	decimal(xxx.xx)	f6.2

Variable name	Line #	Position	Format	F90 Format
RAINHHMX(11)	15	space 61-66	decimal(xxx.xx)	f6.2
RAINHHMX(12)	15	space 67-72	decimal(xxx.xx)	f6.2
SOLARAV(1)	16	space 1-6	decimal(xxx.xx)	f6.2
SOLARAV(2)	16	space 7-12	decimal(xxx.xx)	f6.2
SOLARAV(3)	16	space 13-18	decimal(xxx.xx)	f6.2
SOLARAV(4)	16	space 19-24	decimal(xxx.xx)	f6.2
SOLARAV(5)	16	space 25-30	decimal(xxx.xx)	f6.2
SOLARAV(6)	16	space 31-36	decimal(xxx.xx)	f6.2
SOLARAV(7)	16	space 37-42	decimal(xxx.xx)	f6.2
SOLARAV(8)	16	space 43-48	decimal(xxx.xx)	f6.2
SOLARAV(9)	16	space 49-54	decimal(xxx.xx)	f6.2
SOLARAV(10)	16	space 55-60	decimal(xxx.xx)	f6.2
SOLARAV(11)	16	space 61-66	decimal(xxx.xx)	f6.2
SOLARAV(12)	16	space 67-72	decimal(xxx.xx)	f6.2
DEWPT(1)	17	space 1-6	decimal(xxx.xx)	f6.2
DEWPT(2)	17	space 7-12	decimal(xxx.xx)	f6.2
DEWPT(3)	17	space 13-18	decimal(xxx.xx)	f6.2
DEWPT(4)	17	space 19-24	decimal(xxx.xx)	f6.2
DEWPT(5)	17	space 25-30	decimal(xxx.xx)	f6.2
DEWPT(6)	17	space 31-36	decimal(xxx.xx)	f6.2
DEWPT(7)	17	space 37-42	decimal(xxx.xx)	f6.2
DEWPT(8)	17	space 43-48	decimal(xxx.xx)	f6.2
DEWPT(9)	17	space 49-54	decimal(xxx.xx)	f6.2
DEWPT(10)	17	space 55-60	decimal(xxx.xx)	f6.2
DEWPT(11)	17	space 61-66	decimal(xxx.xx)	f6.2
DEWPT(12)	17	space 67-72	decimal(xxx.xx)	f6.2
WNDAV(1)	18	space 1-6	decimal(xxx.xx)	f6.2
WNDAV(2)	18	space 7-12	decimal(xxx.xx)	f6.2
WNDAV(3)	18	space 13-18	decimal(xxx.xx)	f6.2
WNDAV(4)	18	space 19-24	decimal(xxx.xx)	f6.2
WNDAV(5)	18	space 25-30	decimal(xxx.xx)	f6.2
WNDAV(6)	18	space 31-36	decimal(xxx.xx)	f6.2
WNDAV(7)	18	space 37-42	decimal(xxx.xx)	f6.2
WNDAV(8)	18	space 43-48	decimal(xxx.xx)	f6.2
WNDAV(9)	18	space 49-54	decimal(xxx.xx)	f6.2

Variable name	Line #	Position	Format	F90 Format
WNDAV(10)	18	space 55-60	decimal(xxx.xx)	f6.2
WNDAV(11)	18	space 61-66	decimal(xxx.xx)	f6.2
WNDAV(12)	18	space 67-72	decimal(xxx.xx)	f6.2