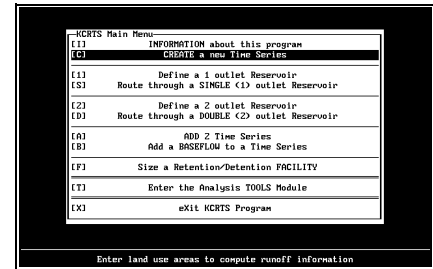
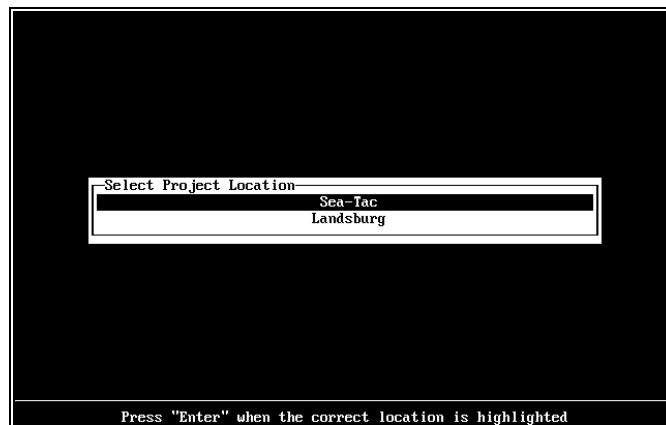


This menu item can be selected with the C key while in the Main Menu.



This routine generates a new time series by scaling and summing the HSPF-generated unit-area runoff files based upon user-specified input. The user may simulate existing, or predict future, runoff conditions from a catchment based on the catchments geographical location, soils, and land-use conditions. This basin information should be collected prior to using the program.



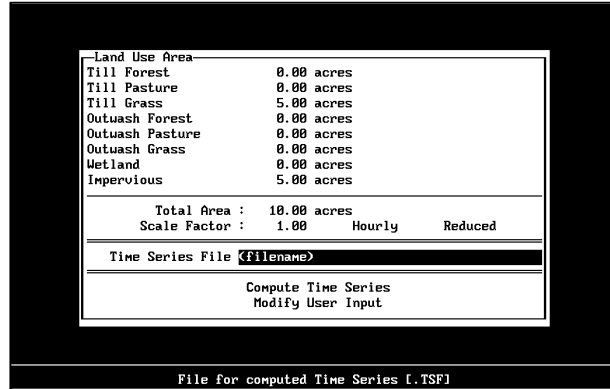
- **Project Location:** The user specifies the region in which the catchment is located by highlighting the rain gauge to be used for this analysis and pressing Enter. See Design Manual Figure 3.2-D for regional boundaries.

Land Use Area			
Till Forest	0.00	acres	
Till Pasture	0.00	acres	
Till Grass	5.00	acres	
Outwash Forest	0.00	acres	
Outwash Pasture	0.00	acres	
Outwash Grass	0.00	acres	
Wetland	0.00	acres	
Impervious	5.00	acres	
Total Area :	10.00	acres	
Scale Factor :	1.00	Hourly	Reduced
Time Series File <filename>			
Compute Time Series			
Modify User Input			
File for computed Time Series (.TSF)			

- **Land-Use Areas:** Specify the acreages for each of the soil/land-use combinations for the catchment being analyzed. Refer to Design Manual Table 3.2.2C to determine acceptable land-use assumptions.
- **Regional Scale Factor:** Specify the regional scale factor. Refer to Design Manual Figure 3.2-D, Regional Scale Factor Map. Scale factors are used to account for the spatial variability of rainfall volumes across the County.
- **Time Step:** Logical choice between hourly and 15-minute to change the timestep, highlight the timestep line and press Enter. To continue, use the up/down arrow keys.
 - Hourly timesteps: To be used for all new detention facility analysis. Also, appropriate for use with other volume-sensitive level-pool routing situations. Hourly timesteps are not acceptable for determining peak flows to be used for sizing of conveyance and overflow structures.
 - 15-minute timesteps: To be used for analysis of peak sensitive drainage features, such as conveyance and overflow structures. The 15-minute runoff records were developed using 15-minute precipitation records, synthetically created from the historical hourly records based on distributions from shorter 15-minute records at meteorologically similar rain gauges. 15-minute timesteps are not acceptable for determining allowable release rates from new detention facilities. 15-minute timesteps may be used for all developed conditions time series since R/D performance is mostly insensitive to the inflow timesteps.
- **Data Type:** Logical choice between reduced and historical records. To change the data format type, highlight the Data Type line and press <Enter>. To continue, use the up/down arrow keys.
 - Reduced: Runoff files containing a set of 8 water years, selected for being statistically similar to the full historical record. The reduced records may be used for all hydrologic analyses except for the downstream volume sensitive point-of-compliance analysis.
 - Historical: These are 40+ year records which include the full period of rain data available. These records will be updated periodically as additional meteorological data is obtained. These records are required to be used for downstream volume sensitive point-of-compliance analysis.

Compute Total Area: Select this option and press Enter when all entries have been made.

KCRTS will now sum the areas inputted by the user and display the areas along with the total acreage. The next screen prompts the user to verify that the correct land use acreages were inputted and allows the user to return to the previous screen if corrections are needed.



- **Edit Flow Paths (not shown):** Only available with 15-minute timesteps. For representative peak flows from the catchment, specify the lengths and slopes of the longest unconcentrated flowpath for each developed land use area. Leaving the data as zeroes will result in the program using the regular runoff files with default values shown in Table 2.1. Some soil-land use types may not have a prompt for the length and slope, in which case representative peak flows can be obtained from the regionalized parameters without site-specific calibration. When flowpath data has been entered, KCRTS utilizes a special set of runoff files containing the “rainfall excess” for each land-use type. The rainfall excess is the portion of the total rainfall that is available for surface runoff, but which has not been routed across the landscape to the point of concentration for the catchment being analyzed. KCRTS uses standard linear routing procedures in performing the surface routing.
- **Time Series File:** Specify a DOS filename for the time series to be generated. The extension is optional. If no filename extension is specified the program will add a TSF extension.
- **Compute Time Series:** Once the input data has been verified, select Compute Time Series to generate the time series file. The program will return to the KCRTS Main Menu.
- **Modify User Input:** This option returns the user to the previous screen. Select this option to edit data on the previous input screen.

Land-Use Type	Length (Feet)	Slope (Percent)
Till Grass	400	10%
Outwash Grass	400	5%
Impervious	200	2%