

## CHAPTER 37

# SWAT INPUT DATA: LUP.DAT

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The landuse update (hardwired filename = lup.dat) file is an optional file which allows HRU fraction updating during a simulation run. The lup.dat file is particularly useful to initialize conservation measures mid-simulation. After their initialization, the practices remain in effect for the remainder of the simulation. The day and relevant operational parameters must be specified.

## **37.1 LAND USE UPDATE FILE (LUP.DAT)**

The lup.dat file is an optional file

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<b>Variable name</b>	<b>Definition</b>
NO_UP	Sequential number of update
MO	Month of update
IDAY	Day of update
IYEAR	Year of update
FNAM	The filename of the file that contains the fraction update parameters (see description of file in section 37.2.2)

The format of the landuse update file is:

<b>Variable name</b>	<b>Position</b>	<b>Format</b>	<b>F90 Format</b>
NO_UP	space 1-5	5-digit integer	i5
MO	space 6-10	5-digit integer	i5
IDAY	space 11-15	5-digit number	i5
IYEAR	space 16-20	5-digit integer	i5
FNAM	space 22-34	character	a13

## **37.2 DESCRIPTION OF FNAM FILE**

This file contains the updated fraction values for any HRU. When adjusting the HRU fractions, keep in mind that all of the fractions in the HRU's should add up equal to 1.

<b>Variable name</b>	<b>Definition</b>
TITLDUM	The first line is reserved for user comments. This line is not processed by the model and may be left blank.
HRU	HRU number that has fraction update
HRU_FR	Updated HRU fraction value

The format of the fnam input file is free format. At least one space should be inserted between input variables on the same line.

<b>Variable name</b>	<b>Line #</b>	<b>Format</b>	<b>F90 Format</b>
TITLDUM	1	character	a13
HRU	2	integer	free
HRU_FR	2	real	free

