d:\swatplus\_javaforge\Rev33\_docs

**REVISION 33 – April 27, 2017**

1. NEW\_INPUT\_FILES

Contains a list of new input files that are being tested.

1. NEW\_OUTPUT\_FILES

Contains a list of new output files being review.

1. Existing output files

List of changes in output files

1. Existing input files

List of changes in input files

1. Other

Other files that were modified in this revision.

1. **NEW INPUT FILES**

ovn\_table.lum - Manning’s N table

1. **NEW OUTPUT FILES**
2. **EXISTING OUTPUT FILES**
3. **EXISTING INPUT FILES**

-- Updated **urban.urb** file (deleted sequential number; set named to up to 16 chars and lower case;

-- Updated **Landuse.lum** -

1) USLE\_P is now named CONS\_PRAC (from cons\_practice.lum file)

2) UBR\_NAME is now named URB\_LU and is CHARACTER instead of INTEGER; crosswalked from URBAN.URB

3) URB\_FLAG is now named URB\_RO and is CHARACTER instead of INTEGER;

2 flags are: BUILDUP\_WASHOFF of USGS\_REG

4) OV\_MANN is now named OVN and is CHARACTER instead of INTEGER; crosswalked from new file OVN\_TABLE.LUM

--The inputs for: **channel.cha** changed to characters;

--CHANNEL.CHA columns are characters (with the exception of LS\_LNK and AQU\_LNK);

NAME column from:

INITIAL.CHA to INIT column in channel.cha

HYDROLOGY.CHA to HYD column in channel.cha

SEDIMENT.CHA to SED column in channel.cha

NUTRIENTS.CHA to NUT column in channel.cha

PESTICIDE.CHA to PST column in channel.cha

NOTE: rout\_unit.ru/reservoir.res are also characters (but should already be changed in all example datasets)

--**SUBBASIN.CON** changed to ROUT\_UNIT.CON

--**FILE.CIO** updated with new OVN\_TABLE.LUM file;

!! land use management

type input\_lum

character(len=25) :: landuse\_lum = "landuse.lum"

character(len=25) :: management\_sch = "management.sch"

character(len=25) :: cntable\_lum = "cntable.lum"

character(len=25) :: cons\_prac\_lum = "cons\_prac.lum"

character(len=25) :: ovn\_lum = "ovn\_table.lum" 🡨

end type input\_lum

type (input\_lum) :: in\_lum

1. **OTHER**

--New subroutines added (from splitting soft calibration out of main and time\_control routines:

CAL\_CONTROL.F90

CAL\_INIT.F90

CAL\_AVE\_OUTPUT.F90

CAL\_SUM\_OUTPUT.F90

--New subroutine to read new file ovn\_table.lum:

OVERLAND\_N\_READ.F90

--Renamed following routines when crosswalking CHANNEL:

ch\_read\_hyd.f90 ch\_hyd\_read.f90

ch\_read\_nut.f90 ch\_nut\_read.f90

ch\_read\_pst.f90 ch\_pst\_read.f90

ch\_read\_sed.f90 ch\_sed\_read.f90

--New routines added when crosswalking CHANNEL:

ch\_read.f90 (reads ch\_dat type with character names);

ch\_init\_read.f90 (split out from ch\_hyd\_read.f90)