d:\swatplus\_code\Rev43\_docs

**REVISION 43 – February 28, 2018**

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

* PARAMETERS.BSN input file: removed RDIST and REXP from the end of the file--no longer being read;

1. **OTHER**

* Revamp of **mgt\_out.txt file**; New headers and style;

The write statements are writing the same outputs to a point (up to SOL\_SUMSOLP in example below), then it depends on the operation type (see variable list).

The only difference would be the number and operation name in each write up to the SOL\_SUMSOLP variable.

MGT\_SCHED.F90 write example:

write (2612, \*) j, time%yrc, time%mo, time%day\_mo, pldb(idp)%plantnm, "PLANT ", &

phubase(ihru), pcom(ihru)%plcur(ipl)%phuacc, soil(ihru)%sw, &

pcom(ihru)%plm(ipl)%mass, soil(ihru)%ly(1)%rsd, sol\_sumno3(ihru), &

sol\_sumsolp(ihru),pcom(ihru)%plg(ipl)%lai, pcom(ihru)%plcur(ipl)%laimx\_pop

After SOL\_SUMSOLP, the variables written are specific to the **OPERATION**:

**OPERATION OP\_VAR (operation variable) VAR1 VAR2 VAR3 VAR4 VAR5**

PLANT LAI LAIMX\_POP

HARV, KILL, HARVKILL YIELD STRSN\_SUM STRSP\_SUM STRSTMP\_SUM STRSW\_SUM STRSA\_SUM

TILLAGE EFFMIX

FERTILIZER FRT\_KG FERTNO3 FERTNH3 FERTORGN FERTSOLP FERTORGP

PESTICIDE PST\_KG

IRRIGATE IRRAMT IRR\_SRC IRR\_NO

BURN NONE AFTER SOL\_SUMSOLP

SWEEP NONE AFTER SOL\_SUMSOLP

GRAZE MANURE\_KG

START\_DORM NONE AFTER SOL\_SUMSOLP

END\_DORM NONE AFTER SOL\_SUMSOLP

RELEASE/IMPOUND NONE AFTER SOL\_SUMSOLP

PLANT COMMUNITY LAI LAIMX\_POP

DRAINAGE WATER MGT SDR\_DEP

* Renamed stress variables in modparm:

OLD NEW

strsw\_sum pcom(j)%plstr(ipl)%sum\_w

strstmp\_sum pcom(j)%plstr(ipl)%sum\_tmp

strsn\_sum pcom(j)%plstr(ipl)%sum\_n

strsp\_sum pcom(j)%plstr(ipl)%sum\_p

strsa\_sum pcom(j)%plstr(ipl)%sum\_a

* Deleted continuous fertilizer and pesticide variables and routines
* Removed following subroutines:

pl\_confert.f90

pl\_conapply.f90

read\_rechour.f90

bmp\_sed\_pond.f90

bmp\_sand\_filter.f90

bmp\_ri\_pond.f90

bmp\_det\_pond.f90

bmp\_ri\_pond.f90

bmp\_wet\_pond.f90

bmpinit.f90

ero\_alph.f90

climate\_parms.f90

pl\_anfert.f90

* Cleanup of modparm and allocate\_parms in the channel and climate routines;

* RENAMED MODPARM to HRU\_MODULE (requires all ‘USE PARM’ to be changed to ‘USE HRU\_MODULE’

(involves many routines);