d:\swatplus\_code\Rev51\_docs

**REVISION 51 – June 15, 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**

* Added ‘time%mo’ and ‘time%day\_mo’ to be printed to all output files;

1. **EXISTING INPUT FILES**

* **1) PLANTS.PLT** – Added plants (Karim A.) that were included in QSWAT (Chris G.)

**2) PLANTS.PLT – Two new inputs for each crop was added to this file:**

**-- phenology trigger (trig)**

**‘moisture\_gro’**

**‘temp\_gro’**

* **-- n fixation coefficient (nfix\_co)**

**0.5 legume; 0.0 non-legume**

**NOTE:** In this process of adding these inputs, some of the crops other properties were altered

within the file. All ‘plants.plt’ files were updated in each commit dataset;

* **ROUT\_UNIT.CON** file containing ‘sub’ should be changed to ‘ru’

Note: in commit datasets, only LREW and Coon Creek

* **HRU.CON** file containing ‘sub’ should be changed to ‘ru’

Note: in commit dataset, only Coon Creek

* **OBJECT.CNT** – ‘SUB’ header changed to ‘RU’

1. **OTHER**

* Replaced single quotes (‘) with double quotes (“) in all routines

(only exceptions are the G0.3 formats for all CSV writes)

* **New subroutines added**

(splitting the pl\_grow.f90 subroutine into other subroutines):

PL\_LEAF\_GRO.F90

PL\_BIOMASS\_GRO.F90

PL\_PARTITION.F90

PL\_ROOT\_GRO.F90

PL\_LEAF\_SCEN.F90

PL\_SEED\_GRO.F90

PL\_COMMUNITY.F90

PL\_DORMANT.F90

PL\_LEAF\_DROP.F90

PL\_MORTALITY.F90

PL\_MOISTURE\_GRO.F90

PL\_MOISTURE\_SENES.F90

PL\_LEAF\_SENES.F90 (Formally PL\_LEAF\_SCEN.F90)

* Remove

MGT\_DORMANT.F90

MGT\_BIO\_DROP.F90

* **New subroutines added**

(splitting of the main.f90 routine into other subroutines):

PROC\_DATE\_TIME.F90

PROC\_BSN.F90

PROC\_READ.F90

PROC\_DB.F90

PROC\_RES.F90

PROC\_CHA.F90

PROC\_HRU.F90

PROC ALLO.F90

PROC\_CAL.F90

PROC\_COND.F90

* There were code problems when reading in daily climate data (precip, temp, solar, hum, wind) when these files contained data after the starting year in time.sim. This has been corrected in this revision. (James Celray)