

ADDENDUM 1 (98.4)

Modifications to input format code. (version 98.4+)

Management File now has option for multiple removals or additions of residue. But the user must no longer specify residue removal in Yearly Section residue management options (option 5).

If there is a need for multiple residue additions or removals of residue the user must set the flag in the management file under the pcode option (see operations section below)

Silage calculations now based on the harvest cutting height specified in the crop parameters scenario.

English units are available for the abbreviated annual output summary. The user must place an "e" on the first line of the run file when using the DOS interface in order to generate English units.

----- Operation Section -----

Op.number:

0.1)number of unique operation types, integer (nop)

Op.loop.name:

1.1)operation name, (up to) 35 characters (opname)

Op.loop.description:

2.1)description, (up to) 55 characters (may be blank)

3.1)description, (up to) 55 characters (may be blank)

4.1)description, (up to) 55 characters (may be blank)

Op.loop.landuse:

5.1)for use on land type, integer - (iop)

- 1)crop
- 2)range
- 3)forest
- 4)roads

Op.loop.cropland:*(read when iop=1; cropland)*

6.1)interrill tillage intensity for fragile crops, real - (mfo1)

6.2)interrill tillage intensity for non-fragile crops, real - (mfo2)

6.3)number of rows of tillage implement, integer - (numof)

7.1)implement type or residue management code, integer - (code1)

- 1)planter
- 2)drill
- 3)cultivator
- 4)other
- 10) Residue addition without surface disturbance
- 11) Residue removal without disturbance
- 12) Residue addition with surface disturbance
- 13) Residue removal with surface disturbance

8.1)cultivator position, integer - (cltpos)

(only present and read when code1 = 3; cultivator; if code1 ≠ 3, omit this line)

- 1)front mounted
- 2)rear mounted

(9.x values used if code1 <5 or code1 = 12 or 13. If code1=10 or 11, use dummy values.)

- 9.1)ridge height value after tillage (m), real - (rho)
- 9.2)ridge interval (m), real - (rint)
- 9.3)rill tillage intensity for fragile crops, real - (rmfo1)
- 9.4)rill tillage intensity for non-fragile crops, real - (rmfo2)
- 9.5)random roughness value after tillage (m), real - (rro)
- 9.6)fraction of surface area disturbed (0-1), real - (surdis)
- 9.7)mean tillage depth (m), real - (tdmean)

- 10.1a) fraction of residue removed (0 – 1), real – (frmove)
(only present and read when code1 = 11 or 13)
- 10.1b)Index of residue added from plant parameters, integer - (iresad)
(only present and read when code1 = 10 or 12)

- 11.1)Amount of residue added (kg/m²), real
(only present and read when code1 = 10 or 12)

Op.loop.rangeland:*(read when iop=2; rangeland)*

*****Note***** no values; operations for Rangeland not yet supported.

Op.loop.forest:*(read when iop=3; forest)*

*****Note***** no values; operations for Forestland not yet supported.

Op.loop.roads:*(read when iop=4; roads)*

*****Note***** no values; operations for Roads not yet supported.

*****Note***** Op.loop values repeat `nop' times.

----- Yearly Section -----

Year.loop.cropland.annual/fallow:*(read when imngmt=1 or imngmt=3; annual/fallow crops)*

- 11.1)harvesting date or end of fallow period (julian day), integer - (jdharv)
- 12.1)planting date or start of fallow period (julian day), integer - (jdplt)
- 13.1)row width (m), real - (rw)
- 14.1)residue management option, integer - (resmgt)
 - 1)herbicide application
 - 2)burning
 - 3)silage
 - 4)shredding or cutting
 - 6)none

Note - entering a value of "5" for "resmgt" will cause the model to fail in execution.