Table A-3. Sample GLEAMS 2.10 hydrology parameter file, alfalfa hay, 4 cuttings per year.

```
Card
 No.
----
  1       GLEAMS 2.10 hydrology, Morgan Co., GA, 1980-84  Cecil sandy loam soil
  2       Alfalfa hay, 4 cuttings per year
  3       [Assumed planting in previous year]
  4          80000       0       0       0       0       0       0       0       0
  6           50.0     .15      .5     3.5      78    .029    .900    28.0    810.   34.70
  7              3       3     8.0    18.0    28.0
  8           0.40    0.40    0.40
  9           0.22    0.30    0.30
 10           0.08    0.18    0.18
 11             .5      .5      .5
 12            1.1      .8      .5
 13           15.0    25.0    25.0
 14           25.0    20.0    20.0
 18          49.66   55.03   62.57   72.68   80.63   86.83   89.69   89.19   83.19   73.31
 19          62.48   52.99
 20          27.95   30.65   36.84   45.20   53.73   61.73   65.71   64.65   58.33   45.88
 21          37.17   30.30
 22           185.    260.    346.    464.    529.    556.    535.    493.    423.    333.
 23           236.    181.
 24           306.    316.    332.    329.    272.    244.    232.    226.    245.    255.
 25           287.    289.
 26          33.60   33.74   37.92   47.46   57.14   65.14   68.14   67.82   61.32   50.46
 27          39.46   32.92
 28             80      84       1
 29              2    0281    1165    1151                            75     305
 30
 29              2    1152    1195    1181                            75     305
 30
 29              2    1182    1240    1226                            75     305
 30
 29              2    1227    1290    1274                            75     305
 30
 29              2    1275    2165    2151                            75     305
 30
 29              0
 33              0       0       0       0
 33              0       0       0       0
 33              0       0       0       0
 33              0       0       0       0
 33             -1       0       0       0
```

Table A-4. Sample GLEAMS 2.10 hydrology parameter file for tomato-squash-tomato multicrop with selected output.

```
Card
 No.
----
  1       GLEAMS 2.10 hydrology paramters, Homestead, Fl., Priestley-Taylor for ET
  2       Tomato-Squash-Tomato multicrop, with tomatoes set in plastic, selectec var.
  3       6-inch rooting depth over limestone, sandy loam soil, 20% organic matter.
  4            80       0       0       0       0       0       0       0       1       0
  5             2       3       6     611     612     613     711     712     713
  5
  6          50.0     .10      .5     3.5      85    .002    .900     6.0     10.   25.50
  7             3       1     6.0
  8          0.40
  9          0.22
 10          0.08
 11           6.0
 12          20.0
 13          15.0
 14          25.0
 18         76.80   77.99   81.06   84.13   86.88   88.94   90.21   90.58   89.13   85.73
 19         81.18   77.99
 20         53.64   54.25   57.54   61.31   65.53   69.78   70.95   71.36   71.22   67.23
 21         60.61   55.73
 22          346.    412.    487.    540.    558.    537.    532.    504.    441.    386.
 23          353.    314.
 24          368.    393.    399.    414.    379.    324.    307.    292.    319.    347.
 25          359.    362.
 26         57.00   58.77   61.00   63.00   68.00   72.00   73.23   74.00   74.00   68.77
 27         62.77   57.77
 28            80      89       1
 29            68    1002    1074
 30             1    1002    1072                      .5     .95
 29            61    1079    1135
 30             1    1079    1133                      .5     .95
 29            68    1274    1349
 30             1    1274    1347                      .5     .95
 29             0
 33             0       0       0       0
 33             0       0       0       0
 33             0       0       0       0
 33             0       0       0       0
 33             0       0       0       0
 33             0       0       0       0
 33             0       0       0       0
 33             0       0       0       0
 33             0       0       0       0
 33            -1       0       0       0
```

Table A-5. Sample GLEAMS 2.10 hydrology parameter file for 5-yr rotation: meadow-
meadow-corn silage-winter wheat-soybeans.

Card No.										
1	GLEAMS 2.10 hydrology parameters, Penman-Monteith ET									
2	5-yr rotation, Meadow-meadow-corn-winter wheat-soybeans									
3	Contoured rows on 6.5% slope. Keene silt loam									
4	80	0	1	0	0	0	0	0	0	0
6	50.0	.15	.8	4.5	84	.065	1.95	28.0	850.	40.57
7	3	4	8.0	13.0	19.0	28.0				
8	0.44	0.41	0.43	0.37						
9	0.40	0.36	0.34	0.32						
10	0.13	0.23	0.20	0.23						
11	1.11	0.31	.505	0.51						
12	3.5	2.5	1.0	0.5						
13	20.0	20.0	20.0	35.0						
14	60.0	60.0	60.0	50.0						
18	32.29	36.29	48.24	62.07	73.06	81.63	84.72	83.13	77.42	65.22
19	50.46	37.56								
20	16.77	19.31	29.04	39.70	50.18	59.21	62.99	60.90	54.34	43.41
21	33.92	22.92								
22	129.	199.	301.	384.	473.	537.	530.	476.	398.	280.
23	166.	120.								
24	446.	444.	458.	441.	383.	352.	324.	303.	334.	362.
25	438.	432.								
26	21.25	22.47	28.12	37.25	48.47	57.78	61.78	61.00	54.00	43.78
27	32.78	23.34								
28	80	89	5							
29	66	1110	1365					105	274	
30										
29	66	2001	2365					105	274	
30										
29	66	3001	3365	3100				105	274	
30										
29	22	3105	3274	3214						
30										
29	74	3258	4200							
30										
29	58	5121	5285							
30										
29	0									
33	0	0	0	0						
33	0	0	0	0						
33	0	0	0	0						
33	0	0	0	0						
33	0	0	0	0						
33	0	0	0	0						
33	0	0	0	0						
33	0	0	0	0						
33	-1	0	0	0						

Table A-6. Sample GLEAMS 2.10 hydrology parameter file for mixed pine-hardwood forest.

Card No.										
1	GLEAMS 2.10 hydrology parameters									
2	Forest, mixed pine-hardwood, 50 acre field, Siloam, Georgia									
3	Cecil sandy loam, 3% slope									
4	80	0	0	0	0	0	0	0	0	1
6	50.0	.15	.5	3.5	68	.03	2.54	28.0	690.	33.53
7	3	3	8.0	18.0	28.0					
8	0.40	0.40	0.40							
9	0.22	0.30	0.30							
10	0.08	0.18	0.18							
11	.5	.5	.5							
12	4.5	2.0	.5							
13	15.0	25.0	25.0							
14	25.0	20.0	20.0							
18	53.91	58.68	67.56	75.34	82.30	88.37	90.54	89.67	84.74	75.94
19	66.66	57.30								
20	32.94	35.18	42.86	49.91	57.70	64.79	68.43	67.96	62.69	51.28
21	43.31	35.80								
22	232.	298.	384.	506.	551.	568.	538.	511.	420.	351.
23	278.	211.								
24	362.	382.	385.	374.	321.	309.	295.	281.	304.	312.
25	332.	346.								
26	34.48	35.73	40.49	49.23	59.26	65.50	69.50	68.75	63.75	52.75
27	42.50	35.23								
28	80	89	1							
29	71	1001	1366					90	288	
30										
29	0									
33	0	0	0	0						
33	0	0	0	0						
33	0	0	0	0						
33	0	0	0	0						
33	0	0	0	0						
33	0	0	0	0						
33	0	0	0	0						
33	0	0	0	0						
33	-1	0	0	0						

Table A-7. Sample GLEAMS 2.10 hydrology parameter file, hay-hay-graze, user-specified LAI.

Card No.										
1	Sample GLEAMS 2.10 hydrology parameter file, Tillamook, OR									
2	Nehalem silt loam, irrigated pasture; Penman-Monteith ET									
3	User defined LAI - Monthly hay harvests and grazing late in year									
4	61000	0	1	0	0	0	0	0	0	0
6	40.0	.3	1.0	4.5	70	.005	1.0	30.0	40.	45.48
7	3	3	8.0	17.0	30.0					
8	.43	.43	.4							
9	.32	.32	.3							
10	.12	.12	.18							
11	.5	.4	.35							
12	8.3	3.7	3.5							
13	37.6	38.5	34.7							
14	56.7	56.8	58.5							
18	49.03	52.28	53.78	56.91	61.00	64.65	67.21	68.26	68.28	62.62
19	54.91	50.26								
20	35.23	36.64	36.53	38.50	42.57	46.93	49.07	49.44	46.52	42.44
21	39.12	36.62								
22	91.	152.	278.	389.	504.	513.	599.	504.	374.	221.
23	126.	81.								
24	388.	369.	372.	356.	350.	342.	349.	327.	313.	317.
25	357.	376.								
26	35.57	39.20	38.97	41.44	45.69	50.31	53.17	54.03	51.69	48.06
27	42.24	39.72								
28	61	66	1							
29	79	1001	1185	1182		1	091	310		
30	1	1091	1177			.25	.95			
29	80	1183	1220	1213		1	091	310		
30	1	1183	1210			.25	.95			
29	81	1214	1365			1	091	310		
30	1	1214	1365			.25	.95			
29	0									
31	79	8								
32	0.0	.2	.3							
32	.5	.2	.3							
32	.6	.5	.5							
32	.7	1.0	.7							
32	.8	2.0	1.2							
32	.9	3.4	2.0							
32	.95	4.0	2.0							
32	1.0	0.5	2.0							
31	80	4								
32	0.0	.5	.5							
32	.5	1.0	.7							
32	.99	2.0	1.2							
32	1.0	0.5	1.2							
21	81	2								
32	0.0	.5	.5							
32	1.0	.5	.5							
33	0	0	0	0						
33	0	0	0	0						
33	0	0	0	0						
33	0	0	0	0						
33	0	0	0	0						
33	-1	0	0	0						

Table A-8. Sample GLEAMS 2.10 hydrology parameter file for corn-soybeans rotation with rye winter cover plowed down in the spring.

Card No.										
1	GLEAMS 2.10 sample hydrology parameter file									
2	Corn-Soybeans, with winter rye cover/plowed down in spring									
3	Contoured rows on 3% slope. Tifton sandy loam									
4	80001	0	0	0	0	0	0	0	0	0
6	72.0	.10	.75	3.5	79	.03	1.87	28.0	300.	33.
7	3	3	8.0	18.0	28.0					
8	0.40	0.40	0.40							
9	0.22	0.30	0.30							
10	0.08	0.18	0.18							
11	3.0	.5	.5							
12	1.1	.8	.5							
13	15.0	25.0	25.0							
14	25.0	20.0	20.0							
18	59.37	62.67	70.08	78.58	86.04	91.76	93.09	92.54	87.99	79.41
19	69.68	61.09								
20	35.94	37.46	43.66	51.00	59.15	66.47	69.38	68.37	63.45	51.50
21	41.97	36.40								
22	238.	300.	387.	522.	568.	576.	551.	520.	431.	364.
23	285.	206.								
24	332.	353.	361.	347.	300.	286.	274.	264.	288.	297.
25	321.	322.								
26	38.03	38.75	42.82	51.34	60.10	66.62	70.41	69.89	65.10	54.31
27	44.03	37.54								
28	80	89	2							
29	51	0310	1130	1110						
30										
29	20	1120	1244							
30	1	1120	1190			.25	.90			
29	51	1300	2130	2110						
30										
29	58	2140	2300							
30	1	2140	2270			.25	.90			
29	51	2310	3130	3110						
30										
29	0									
33	0	0	0	0						
33	0	0	0	0						
33	0	0	0	0						
33	0	0	0	0						
33	0	0	0	0						
33	0	0	0	0						
33	0	0	0	0						
33	0	0	0	0						
33	0	0	0	0						
33	-1	0	0	0						

Table A-9. Sample GLEAMS 2.10 erosion parameter file, overland flow with two segments (filter strip).

```
Card
 No.
----
  1       GLEAMS 2.10 Erosion parameter file, continuous corn
  2       overland flow with 2 segments with different parameters (filter strip)
  3
  4            80      89       0       1       0
  5          20.0
  6             3    20.0
  7         250.0     .01   600.0     .03  1450.0    .015
  8             1     1.0     .31
 13             1
 14           001     110     121     135     150     175     210     244
 15             2     .95     1.0
 16           .47      .6     .78     .65     .51     .30     .25     .40
 17           1.0     1.0     1.0     1.0     1.0     1.0     1.0     1.0
 18           .02    .014     .01    .015     .02    .025     .05    .025
 16           .35     .35     .35     .25     .25     .25     .20     .35
 17           1.0     1.0     1.0     1.0     1.0     1.0     1.0     1.0
 18          .074    .074    .074    .074    .074    .074    .074    .074
```

Table A-10. Sample GLEAMS 2.10 erosion parameter file, overland-channel sequence.

```
Card
 No.
----
  1       GLEAMS Version 2.10, erosion parameters, Watkinsville, GA, Watershed P-2
  2       1973-75  continuous corn with winter weeds after harvest, overland-channel seq.
  3       Cecil sandy loam (Typic Hapludults)  Hydrologic soil group B
  4            73      75       0       3       0
  5          20.0
  6             4     3.2
  7          98.0     .02   125.0     .04   175.0     .03   206.0    .024
  8             1     1.0     .23
  9             5       4     2.4    2.25     3.2      .2    20.0
 10          46.0    .021   102.0    .032   217.0    .014   302.0    .018   371.0    .024
 11          20.0     .03     .02
 13             3
 14           001     108     131     155     180     200     302     309
 14           113     119     140     160     200     259     268
 14           114     141     160     200     250     276     288
 15             1     1.0
 16           .26     .62     .54     .42     .30     .20     .20     .20
 17           1.0     1.0     1.0     1.0     1.0     1.0     1.0     1.0
 18           .03     .03     .01     .01     .01     .02     .03     .04
 16           .62     .54     .42     .30     .20     .20     .20
 17           1.0     1.0     1.0     1.0     1.0     1.0     1.0
 18           .03     .01     .01     .01     .01     .02     .03
 16           .62     .54     .42     .30     .20     .20     .20
 17           1.0     1.0     1.0     1.0     1.0     1.0     1.0
 18           .03     .01     .01     .01     .01     .02     .03
 19             1     1.0
 20          .065     .04     .03     .03     .03     .03    .065    .065
 21           .33     .33    -99.   -99.0   -99.0   -99.0   -99.0   -99.0
 22         -10.0   -99.0   -99.0   -99.0   -99.0   -99.0   -99.0   -99.0
 20          .065     .04     .03     .03     .03     .03    .065
 21           .33     .33   -99.0   -99.0   -99.0   -99.0   -99.0
 22          10.0   -99.0   -99.0   -99.0   -99.0   -99.0   -99.0
 20          .065     .04     .03     .03     .03     .03    .065
 21           .33     .33   -99.0   -99.0   -99.0   -99.0   -99.0
 22         -99.0   -99.0   -99.0   -99.0   -99.0   -99.0   -99.0
```

Table A-11. Sample GLEAMS 2.10 erosion parameter file, overland-channel-channel sequence.

```
Card
 No.
----
  1       GLEAMS 2.10 erosion parameter file, terraces with grass waterway
  2       2 year corn/soybean rotation
  3       overland-channel-channel
  4            80      89       0       4       0
  5          800.0
  6               1     4.0
  7           200.0    .025
  8               1     1.0     .31
  9               1       3                     4.0     0.0    15.0
 10           870.0    .005
 11            15.0     .06     .03
  9               1       3                    50.0     0.0    20.0
 10          1000.0     .03
 11            20.0     .08     .04
 13               2
 14             001     110     121     135     150     175     210     244
 14             140     145     160     180     210     240     265     300
 15               1     1.0
 16             .47      .6     .78     .65     .51     .30     .25     .40
 17             1.0     1.0     1.0     1.0     1.0     1.0     1.0     1.0
 18             .02    .014     .01    .015     .02    .025     .05    .025
 16              .6     .65      .6     .56     .45      .3     .25     .47
 17             1.0     1.0     1.0     1.0     1.0     1.0     1.0     1.0
 18            .014     .01    .015     .02    .025     .04     .05     .02
 19               1     1.0
 20             .04     .03    .035     .04     .04     .05     .06     .05
 21              -.5      .5   -99.0   -99.0   -99.0   -99.0   -99.0     .33
 22           -10.0   -99.0   -99.0   -99.0   -99.0   -99.0   -99.0   -99.0
 20             .04     .03    .035     .04     .04     .04     .05     .05
 21              -.5      .5   -99.0   -99.0   -99.0   -99.0   -99.0     .33
 22           -99.0   -99.0   -99.0   -99.0   -99.0   -99.0   -99.0   -99.0
 19               1     1.0
 20             .05     .05     .06     .06     .08     .08     .08     .08
 21              -.5   -99.0   -99.0   -99.0   -99.0   -99.0   -99.0   -99.0
 22           -20.0   -99.0   -99.0   -99.0   -99.0   -99.0   -99.0   -99.0
 20             .05     .05     .06     .06     .08     .08     .08     .08
 21           -99.0   -99.0   -99.0   -99.0   -99.0   -99.0   -99.0   -99.0
 22           -99.0   -99.0   -99.0   -99.0   -99.0   -99.0   -99.0   -99.0
```

Table A-12. Sample GLEAMS 2.10 erosion parameter file, overland-pond sequence.

```
Card
 No.
----
  1       GLEAMS 2.10 erosion parameter file
  2       2 year corn/soybean rotation
  3       overland-impoundment
  4            80      89       0       2       0
  5          800.0
  6             1    10.0
  7        1400.0     .03
  8             1     1.0     .31
 12          10.0      .5      .2     .03     .03       1    10.0
 13             2
 14           001     110     121     135     150     175     210     244
 14           140     145     160     180     210     240     265     300
 15             1     1.0
 16           .47      .6     .78     .65     .51     .30     .25     .40
 17           1.0     1.0     1.0     1.0     1.0     1.0     1.0     1.0
 18           .02    .014     .01    .015     .02    .025     .05    .025
 16           .6      .65      .6     .56     .45      .3     .25     .47
 17           1.0     1.0     1.0     1.0     1.0     1.0     1.0     1.0
 18          .014     .01    .015     .02    .025     .04     .05     .02
```

Table A-13. Sample GLEAMS 2.10 sample erosion parameter file for a 2-yr rotation, overland-channel-channel-pond sequence.

```
Card
 No.
----
  1       GLEAMS 2.10 Erosion parameter file
  2       2 year corn/soybean rotation
  3       overland-channel-channel-impoundment
  4            80      89       0       6       0
  5          800.0
  6               1     4.0
  7          300.0     .03
  8               1     1.0     .31
  9               1       3                     4.0     0.0    15.0
 10          475.0     .03
 11           15.0      .2     .02
  9               1       3                    20.0     0.0    20.0
 10         1000.0     .02
 11           20.0      .2     .02
 12           20.0      .5     2.0     .02      .2       1     8.0
 13              2
 14            001     110     121     135     150     175     210     244
 14            140     145     160     180     210     240     265     300
 15              1     1.0
 16            .47      .6     .78     .65     .51     .30     .25     .40
 17            1.0     1.0     1.0     1.0     1.0     1.0     1.0     1.0
 18            .02    .014     .01    .015     .02    .025     .05    .025
 16             .6     .65      .6     .56     .45      .3     .25     .47
 17            1.0     1.0     1.0     1.0     1.0     1.0     1.0     1.0
 18           .014     .01    .015     .02    .025     .04     .05     .02
 19              1     1.0
 20            .05     .05     .06     .06     .08     .08     .13     .08
 21            -.5   -99.0   -99.0   -99.0   -99.0   -99.0   -99.0   -99.0
 22          -10.0   -99.0   -99.0   -99.0   -99.0   -99.0   -99.0   -99.0
 20            .05     .05     .06     .06     .08     .08     .13     .08
 21          -99.0   -99.0   -99.0   -99.0   -99.0   -99.0   -99.0   -99.0
 22          -99.0   -99.0   -99.0   -99.0   -99.0   -99.0   -99.0   -99.0
 19              1     1.0
 20            .05     .05     .06     .06     .08     .08     .13     .08
 21            -.5   -99.0   -99.0   -99.0   -99.0   -99.0   -99.0   -99.0
 22          -15.0   -99.0   -99.0   -99.0   -99.0   -99.0   -99.0   -99.0
 20            .05     .05     .06     .06     .08     .08     .13     .08
 21          -99.0   -99.0   -99.0   -99.0   -99.0   -99.0   -99.0   -99.0
 22          -99.0   -99.0   -99.0   -99.0   -99.0   -99.0   -99.0   -99.0
```

Table A-14. Sample GLEAMS 2.10 pesticide parameter file for herbicide, nematicide with 2 metabolites, and insecticide.

```
Card
 No.
----
  1       GLEAMS 2.10 pesticide parameters
  2       Station Z.  double crop corn-millet.
  3       atrazine + fenamiphos with 2 metabolites, 3 apps of methomyl on corn
  4          80001   89365       5       1       0
  5              1        Atrazine       0
  5              2      Fenamiphos       2
  5              3    F. Sulfoxide       0
  5              4      F. Sulfone       0
  5              5        Methomyl       0
  6              1    33.0     5.0   100.0             .45
  7           60.0
  6              2   400.0           240.0                     1.0
  7            2.0
  6              3   400.0            40.0                     1.0
  7           42.0
  6              4   400.0            45.0                     1.0
  7           18.0
  6              5 58000.0     0.5    72.0             .55
  7           30.0
  8           1110       2
  9              1     1.5     1.0     0.0     1.0       0
  9              2     1.0    10.0     0.0     1.0       1
  8           1145       1
  9              5     1.0     1.0     .85     .10       0
  8           1150       1
  9              5     1.0     1.0     .85     .10       0
  8           1155       1
  9              5     1.0     1.0     .85     .10       0
  8              0
```

Table A-15. Sample GLEAMS 2.10 pesticide parameter file, herbicides applied on corn and soybeans in 5-yr rotation.

```
Card
 No.
----
  1       GLEAMS 2.10 pesticide parameter file
  2       meadow-meadow-corn-winter wheat-soybeans 5 yr rotation
  3       atrazine on corn, alachlor on beans
  4            80      89       2       5       0
  5             1        Atrazine       0
  5             2        Alachlor       0
  6             1    33.0     5.0   100.0             .45
  7          60.0
  6             2   240.0     3.0   170.0             .40
  7          15.0
  8          3103       1
  9             1     5.0     1.0     0.0     .95       0
  8          5116       1
  9             2     5.0     1.0     0.0     .95       0
  8             0
```

Table A-16. Sample GLEAMS 2.10 nutrient parameter file for broiler litter applied on bermuda grass 4 times per year with multiple cuttings of grass.

```
Card
No.
----
 1        GLEAMS version 2.10, Watkinsville Broiler litter plots
 2        1972-73; treatment B2--5 T BL/ac May, June, July, August
 3        Bermuda grass with multiple cuttings per year; no animal waste prior
to 1972
 4             72      73       1       2       0
 5          750.0     0.8
 6          0.055   0.055   0.043   0.043   0.021
 7           10.0    10.0     7.0     7.0     3.0
 8          150.0   150.0   230.0   230.0   115.0
 9            0.0
10
11            3.0     3.0     2.0     2.0     1.0
12            0.0
13           1001
14              1       0    1188
15             10       0  2500.0
16           1159       1       0      15
18           8.81     0.0    2.81    2.08    0.72    1.50    1.47    78.0
  1
13           1189
14              2       0    1220
15             10       0  3000.0
16           1192       1       0      15
18           8.18     0.0    3.08    2.26    0.81    1.35    1.32    78.0
  1
16           1220       1       0      15
18           6.27     0.0    3.41    2.48  1.1209    1.51    1.48    78.0
  1
13           1221
14              0       0    1249
15             10       0  2500.0
13           1250
14              0       0    1284
15             10       0  2000.0
13           1285
14              0       0    2100
15             10       0  1000.0
13           2101
14              0       0    2136
15             10       0  2000.0
13           2137
14              1       0    2164
15             10       0  2500.0
16           2138       1       0      15
18           8.30     0.0    3.35    2.44    0.90    1.51    1.48    78.0
  1
13           2165
14              1       0    2192
15             10       0  3500.0
16           2171       1       0      15
18           8.21     0.0    1.85    1.44    0.40    1.15    1.13    78.0
  1
13           2193
14              1       0    2218
15             10       0  4000.0
16           2199       1       0      15
18           8.36     0.0    2.11    1.61    0.49    0.96    0.94    78.0
  1
13           2219
14              1       0    2247
15             10       0  3500.0
16           2226       1       0      15
18           8.03     0.0    2.67    1.98    0.68    1.24    1.22    78.0
  1
```

```
13           2248
14              0       0    2277
15             10       0  2500.0
13           2278
14              0       0    3105
15             10       0  1000.0
13              0
```

Table A-17. Sample GLEAMS 2.10 plant nutrient parameter file, default initialization, 2-yr rotation, inorganic fertilizer and animal waste.

```
Card
 No.
----
  1       GLEAMS 2.10 plant nutrient parameter file
  2       2 year corn-soybean rotation; default N and P pool initialization
  3       2 animal waste apps on corn, starter fertilizer on soybeans
  4            80      89       0       2       1
  5
  6
  7
  8
  9
 10
 11
 12
 13          1001
 14             2       3    1244
 15            20
 16          1091       1       1       2
 18           5.0    10.0     4.4    3.32    1.06     .82     .79    86.0
  1
 16          1140       1       0       2
 18           3.0     0.0     4.4    3.32    1.06     .82     .79    86.0
  1
 19          1091      10    10.0
 19          1091      22     4.0
 19          1255      10    15.0
 13          2001
 14             1       3    2300
 15            58
 16          2100       0       1
 17           0.0    33.0    45.0    10.0
 19          2100       4    15.0
 19          2100      22     4.0
 19          2305      10    15.0
 13             0
```