

Table A-3. Sample GLEAMS 3.0 hydrology parameter file, alfalfa hay, 4 cuttings per year.

Card No.	GLEAMS 3.0 hydrology, Morgan Co., GA, 1980-84 Cecil sandy loam soil									
	Alfalfa hay, 4 cuttings per year									
	[Assumed planting in previous year]									
1	1980000	0	0	0	0	0	0	0	0	0
2	50.0	.15	.5	3.5	78	.029	.900	28.0	810.	34.70
3	3	3	8.0	18.0	28.0					
4	0.40	0.40	0.40							
6	0.22	0.30	0.30							
7	0.08	0.18	0.18							
8	.5	.5	.5							
9	1.1	.8	.5							
10	15.0	25.0	25.0							
11	25.0	20.0	20.0							
12	49.66	55.03	62.57	72.68	80.63	86.83	89.69	89.19	83.19	73.31
13	62.48	52.99								
14	27.95	30.65	36.84	45.20	53.73	61.73	65.71	64.65	58.33	45.88
15	37.17	30.30								
16	185.	260.	346.	464.	529.	556.	535.	493.	423.	333.
17	236.	181.								
18	306.	316.	332.	329.	272.	244.	232.	226.	245.	255.
19	287.	289.								
20	33.60	33.74	37.92	47.46	57.14	65.14	68.14	67.82	61.32	50.46
21	39.46	32.92								
22	1980	1984	1							
23	2	0281	1165	1151				75	305	
24										
25	2	1152	1195	1181				75	305	
26										
27	2	1182	1240	1226				75	305	
28										
29	2	1227	1290	1274				75	305	
30										
31	2	1275	2165	2151				75	305	
32										
33	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 3.0 hydrology parameter file for tomato-squash-tomato multicrop with selected output.

Card No.										
1	GLEAMS 3.0 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	1980000	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	1980	1989	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 3.0 hydrology parameter file for 5-yr rotation: meadow-meadow-corn silage-winter wheat-soybeans.

Card No.										
1	GLEAMS 3.0 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	1980000	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	1980	1989	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	0	0	0	0						
33	0	0	0	0						
33	-1	0	0	0						

Table A-6. Sample GLEAMS 3.0 hydrology parameter file for mixed pine-hardwood forest after 5 years in forest without harvest during simulation.

Card No.										
1	GLEAMS 3.0 hydrology parameters									
2	Forest, mixed pine-hardwood, 50 acre field, Siloam, Georgia									
3	Cecil sandy loam, 3% slope [5 yrs if forest before 1980; no harvest]									
4	1980000	0	0	0	0	0	0	0	0	3
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	1980	1989	1	5						
29	71	1001	2366					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	0	0	0	0						
33	-1	0	0	0						

Table A-7. Sample GLEAMS 3.0 hydrology parameter file for pine forest planted the year simulation begins without harvest during the simulation.

Card No.										
1	GLEAMS 3.0 hydrology parameters									
2	Forest, mixed pine-hardwood, 50 acre field, Siloam, Georgia									
3	Cecil sandy loam, 3% slope [Transplanted on 01/01/1980; no harvest]									
4	1980000	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	1980	1986	7	0						
29	81	1001	8366					90	288	
30										
29	82	2001	8366					90	288	
30										
29	83	3001	8366					90	288	
30										
29	84	4001	8366					90	288	
30										
29	85	5001	8366					90	288	
30										
29	86	6001	8366					90	288	
30										
29	87	7001	8366					90	288	
30										
29	0									
31	81	7								
32	0.0	0.01	0.8							
32	0.25	0.01	0.8							
32	0.38	0.35	0.9							
32	0.50	0.65	1.0							
32	0.65	0.80	1.2							
32	0.78	0.80	1.25							
32	1.0	0.80	1.25							
31	82	7								
32	0.0	0.80	1.25							
32	0.25	0.80	1.25							
32	0.38	1.00	1.60							
32	0.50	1.30	1.90							

32	0.65	1.60	2.15
32	0.78	1.70	2.20
32	1.0	1.70	2.20
31	83	7	
32	0.0	1.70	2.2
32	0.25	1.70	2.2
32	0.38	2.00	2.9
32	0.50	2.20	3.3

Table A-7, Continued.

32	0.65	2.40	3.5
32	0.78	2.50	3.7
32	1.0	2.50	3.7
31	84	7	
32	0.0	2.50	3.7
32	0.25	2.50	3.7
32	0.38	3.00	4.5
32	0.50	3.30	4.8
32	0.65	3.50	5.5
32	0.78	3.55	5.1
32	1.0	3.55	5.1
31	85	6	
32	0.0	3.55	5.1
32	0.25	3.55	5.1
32	0.40	4.00	6.5
32	0.60	4.15	7.0
32	0.78	4.20	7.5
32	1.0	4.20	7.5
31	86	5	
32	0.0	4.20	7.5
32	0.25	4.20	7.5
32	0.40	5.00	9.0
32	0.78	5.00	9.5
32	1.0	5.00	9.5
31	87	5	
32	0.0	5.00	9.5
32	0.25	5.00	9.5
32	0.40	5.50	10.5
32	0.78	5.50	11.0
32	1.0	5.50	11.0
33	0	0	0
33	0	0	0
33	0	0	0
33	0	0	0
33	0	0	0
33	0	0	0
33	-1	0	0

Table A-8. Sample GLEAMS 3.0 hydrology parameter file for pine forest after 15 years in forest with harvest during last year of simulation.

Card No.	GLEAMS 3.0 hydrology parameters										
1	GLEAMS 3.0 hydrology parameters										
2	Forest, mixed pine-hardwood, 50 acre field, Siloam, Georgia										
3	Cecil sandy loam, 3% slope [15 yrs of forest before 1980; harvest in last year]										
4	1980000	0	0	0	0	0	0	0	0	0	3
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	1980	1984	5	15							
29	81	1001	5250					90	288		
30											
29	81	2001	5250					90	288		
30											
29	81	3001	5250					90	288		
30											
29	81	4001	5250					90	288		
30											
29	82	5001	5250					90	288		
30											

29	0			
31	81	2		
32	0.0	5.5	25.0	
32	1.0	5.5	25.0	
31	82	4		
32	0.0	5.5	25.0	
32	0.683	5.5	25.0	
32	0.686	0.0	0.0	
32	1.0	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 3.0 hydrology parameter file, hay-hay-graze, user-specified LAI.

Card No.										
1	Sample GLEAMS 3.0 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	1961000	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	1961	1966	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-10. Sample GLEAMS 3.0 hydrology parameter file for corn-soybeans rotation with rye winter cover plowed down in the spring.

Card
No.

1	GLEAMS 3.0 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	1980001	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	1980	1989	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	0	0	0	0						
33	-1	0	0	0						

Table A-11. Sample GLEAMS 3.0 erosion parameter file, overland flow with two segments (filter strip).

Card
No.

Card No.	GLEAMS 3.0 Erosion parameter file, continuous corn overland flow with 2 segments with different parameters (filter strip)								
1									
2									
3									
4	1980	1989	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-12. Sample GLEAMS 3.0 erosion parameter file, overland-channel sequence.

Card
No.

1	GLEAMS Version 3.0, 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	1973	1975	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	-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	-99.0		
22	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0		

Table A-13. Sample GLEAMS 3.0 erosion parameter file, overland-channel-channel sequence.

Card
No.

Card No.	1980	1989	0	4	0				
1	GLEAMS 3.0 erosion parameter file, terraces with grass waterway								
2	2 year corn/soybean rotation								
3	overland- channel - channel								
4	1980	1989	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-14. Sample GLEAMS 3.0 erosion parameter file, overland-pond sequence.

Card
No.

1	GLEAMS 3.0 erosion parameter file								
2	2 year corn/soybean rotation								
3	overland-impoundment								
4	1980	1989	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-15. Sample GLEAMS 3.0 sample erosion parameter file for a 2-yr rotation, overland-channel-channel-pond sequence.

Card No.	GLEAMS 2.10 Erosion parameter file								
	2 year corn/soybean rotation								
	overland- channel - channel - impoundment								
	1980	1989	0	6	0				
1	800.0								
2	1	4.0							
3	300.0	.03							
4	1	1.0	.31						
5	1	3			4.0	0.0	15.0		
6	475.0	.03							
7	15.0	.2	.02						
8	1	3			20.0	0.0	20.0		
9	1000.0	.02							
10	20.0	.2	.02						
11	20.0	.5	2.0	.02	.2	1	8.0		
12	2								
13	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-16. Sample GLEAMS 3.0 erosion parameter file for forest grown from transplanting to 7 yrs, overland flow.

Card
No.

Card No.	GLEAMS 3.0 Erosion parameter file, forest grown from transplanting, 7-yr simulation overland flow, windrowed residue on the contour						
	Transplants planted on contour						
	1980	1986	0	1	0		
1	GLEAMS 3.0 Erosion parameter file, forest grown from transplanting, 7-yr simulation overland flow, windrowed residue on the contour						
2	overland flow, windrowed residue on the contour						
3	Transplants planted on contour						
4	1980	1986	0	1	0		
5	20.0						
6	3	25.0					
7	250.0	.01	600.0	.05	1450.0	.025	
8	1	1.0	.31				
13	7						
14	001	90	150	180	225	288	
14	090	150	180	225	288		
14	090	150	180	225	288		
14	090	180	288				
14	090	288					
14	090	288					
14	090	288					
15	1	1.0					
16	.60	.55	.50	.45	.40	.40	
17	.5	.5	.5	.5	.5	.5	
18	.02	.022	.025	.025	.03	.03	
16	.40	.35	.30	.25	.25		
17	.5	.5	.5	.5	.5		
	18		.04	.045	.050	.055	.055
16	.25	.20	.15	.10	.05		
17	.5	.5	.5	.5	.5		
	18		.055	.060	.065	.070	.075
16	.05	.05	.05				
17	.5	.5	.5				
18	.075	.080	.085				
16	.05	.05					
17	.5	.5					
18	.09	.095					
16	.05	.05					
17	.5	.5					
18	.10	.105					
16	.05	.05					
17	.5	.5					
18	.105	.105					

Table A-17. Sample GLEAMS 3.0 pesticide parameter file for herbicide, nematicide with 2 metabolites, and insecticide.

Card
No.

```

-----
1      GLEAMS 3.0 pesticide parameters
2      Station Z. double crop corn-millet.
3      atrazine + fenamiphos with 2 metabolites, 3 apps of methomyl on corn
4      1980001 1989365      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-18. Sample GLEAMS 3.0 pesticide parameter file, herbicides applied on corn and soybeans in 5-yr rotation.

Card
No.

```

-----
1      GLEAMS 3.0 pesticide parameter file
2      meadow-meadow-corn-winter wheat-soybeans 5 yr rotation
3      atrazine on corn, alachlor on beans
4      1982102 1989365      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-19. Sample GLEAMS 3.0 nutrient parameter file for broiler litter applied on bermuda grass 4 times per year with multiple cuttings of grass.

Card No.	GLEAMS version 3.0, Watkinsville Broiler litter plots									
	1972-73; treatment B2--5 T BL/ac May, June, July, August									
	Bermuda grass with multiple cuttings per year; no animal waste prior to 1972									
	1972	1973	1	2	0					
1										
2										
3										
4										
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-20. Sample GLEAMS 3.0 plant nutrient parameter file, default initialization, 2-yr rotation, inorganic fertilizer and animal waste.

Card
No.

```

-----
1  GLEAMS 3.0 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  1980 1989 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

```

Table A-21. Sample GLEAMS 3.0 plant nutrient parameter file for forest, default initialization, 7-yr simulation, no harvest, no fertilizer, no tillage.

Card					
No.					

1	GLEAMS 3.0 plant nutrient parameter file, pine forest, 7-yr simulation				
2	Default N and P pool initialization				
3	Forest with 5 years in forest prior to simulation; no harvest; no fertilizer				
4	1980	1986	0	1	1
5					
6					
7					
8					
9					
10					
11					
12					
13	1001				
14	0	0	2366		
15	69				
13	0				

Table A-22. Sample GLEAMS 3.0 plant nutrient parameter file for pine forest transplanting,, 4-yr rotation, no harvest, no fertilizer, no tillage, default initialization.

Card
No.

```

-----
 1  GLEAMS 3.0 plant nutrient parameter file, pine forest, 4 yr-simulation
 2  Default N and P pool initialization
 3  Transplanting beginning yr of simulation, no harvest; no fertilizer
 4      1980      1983      0      1      4
 5
 6
 7
 8
 9
10
11
12
13      1001
14      0      0      5366
15      69      0      1000.      1.5      70.      8.0      3.0      -0.75
13      2221
14      0      0      5366
15      69      0      2000.      1.6      80.      7.0      2.5      -0.75
13      3001
14      0      0      5366
15      69      0      3000.      1.7      90.      6.0      2.0      -0.75
13      4001
14      0      0      5366
15      69      0      4000.      1.8      100.      5.0      2.0      -0.75
13      0

```

Table A-23. Sample GLEAMS 3.0 plant nutrient parameter file after 15 years in pine forest before simulation begins, 5-yr simulation, harvest in the 5th year at day 250, no fertilizer, no tillage, default initialization.

Card					
No.					

1	GLEAMS 3.0 plant nutrient parameter file, pine forest, 5 yr-simulation				
2	Default N and P pool initialization; not fertilizer				
3	15 yrs pine pre-simulation, harvest day 250 of yr 5; weeds after				
harvest					
4	1980	1983	0	1	5
5					
6					
7					
8					
9					
10					
11					
12					
13	1001				
14	0	0	5250		

15	69		
13	2001		
14	0	0	5250
15	69		
13	3001		
14	0	0	5250
15	69		
13	4001		
14	0	0	5250
15	69		
13	5001		
14	0	0	5250
15	69		
13	5251		
14	0	0	6366
15	78		
13	0		