

STOP 14

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Soil mixtures for putting greens. Forty-eight soil mixtures with 2 replications are under study on Cohansey creeping bentgrass. Soil cores were removed from these plots in November, 1968, and analyzed under laboratory conditions for compaction, infiltration, and water holding capacity. Data are still being analyzed.

Field infiltration data obtained in 1967 with the double-ring infiltrometer and the 1967-69 visual turfgrass quality ratings are given in Table 14 for some of the mixtures. Future studies will include compaction treatments under field conditions.

Table 14. Visual quality ratings for Cohansey bentgrass during 1967-69 and double-ring infiltration values for several soil mixtures.

Coarse sand	Soil mix		Visual Quality rating (1-best; 9-poorest)	Infiltration rate, (in./hr.)
	Fine sandy loam	Peat		
0	1	0	1.6	0.7
1	1	1	2.6	7.2
1	2	1	2.0	2.5
1	1	2	2.1	1.7
2	1	1	2.5	8.2
2	2	1	2.1	4.2
2	1	2	2.5	12.5
3	1	1	2.9	14.9
3	2	1	3.0	10.6
3	1	2	3.0	11.7
4	1	1	4.7	18.5
4	2	1	3.2	16.4
4	1	2	3.1	17.3
6	1	1	5.0	19.3
6	2	1	4.4	18.8
6	1	2	4.2	15.4
8	1	1	6.7	17.5
8	2	1	5.6	16.0
8	1	2	4.7	17.0
3	1	1	2.9	14.9
3	0	1	6.9	20.3
3	1	0	5.3	21.3