

LUNCH

Lunch facilities are available on campus at Owen Graduate Center on Shaw Lane, Kellogg Center on Harrison Road, and the Student Union on East Circle Drive. Additional eating facilities can be found near the campus.

AFTERNOON PROGRAM

1:00 P.M.

Soil Science Field Lab - Hagadorn Rd.

Viewing of Putting Green Soil Mixture Studies

1:30 P.M.

STOP 9

Dr. Milt Erdmann

Turfgrass Mixture Ecology - Eighteen entries in 5' x 9' plots. Emphasis is on higher quality mixtures of bluegrass and red fescue. Note how redtop persists in a mixture and reduces turf quality. Merion bluegrass blends better with Kent. 31 tall fescue than Common. Mixtures containing more than 25% ryegrass (on a pure seed basis) result in reduced turf quality and density.

Control of Weedy Perennial Grasses - Sources of weed infestation will be discussed as well as possible means of control.

STOP 10

Prof. Stuart Hildebrand

Bluegrass Variety Evaluations - Eighteen varieties in 5' x 9' plots. The most severe leafspot attack in three years occurred the second week of May, 1964. Some thinning of Newport and C-1 was evident for the first time since establishment.

Stop 10 Continued1963 Bluegrass Variety Evaluations  
Planted July 26, 1962.

Entry	Variety	Quality Rating (1-best, 9-poorest) Ave. of 5 ratings	<u>Helminthosporium</u> Lesion Rating 6/5/63 (1-none,9-severe)	Density 10/5/63 (Shoots per 12.5 sq. in.	Spring Greenup 4/2/63 (1-best, 9-poorest)
1	K 5(47)	2.0	2.7	182	5.0
2	Prato	2.2	6.3	219	5.3
3	Merion	2.2	1.3	175	5.0
4	Newport	2.3	4.0	151	4.3
5	C-1	2.4	4.3	167	3.7
6	Park	3.5	6.3	149	5.0
7	Delta	4.0	7.7	140	4.0
8	Common	4.7	7.7	109	3.3

The Penn State selection K 5(47) has been outstanding. Although a few Helminthosporium lesions were noted the footrot and thinning stage did not develop. K 5(47) is far superior to Merion in rate of establishment.

Prato, a selection from the D. J. van der Have Co. of the Netherlands, has a leaf width similar to common Kentucky but has twice the density. The Helminthosporium susceptibility is somewhat uncertain at this time. Numerous lesions were observed on Prato but no significant leaf thinning occurred in 1963. Prato shows good establishment vigor.

Newport has ranked similar to Merion during the initial two years. The next two years will be critical for Newport because data from Rutgers and several other states show a severe deterioration and thinning in the third year and subsequent years.

Although Park and Delta were as severely thinned by Helminthosporium as common Kentucky bluegrass their rate of recovery from thinning was superior as indicated by the fall density counts.

Common Kentucky ranks highest in both spring and fall color. The first heavy frost in the fall of 1963 produced considerable temporary yellowing and discoloration of Park, Delta, and Prato.

Stop 10 Continued

Red Fescue Variety Evaluations - Eighteen entires in 5' x 9' plots.

## 1963 Red Fescue Variety Performance.

Entry	Variety	Turf Quality Rating (1-best; 9-poorst)		Density (shoots per 12.5 sq.in.)	Spring Greenup 4/16/63 (1-best, 9-poorst)
		East Lansing Planted 6/11/62 Ave. of 4 ratings	Traverse City Planted 5/15/63 Ave. of 4 ratings		
1	S-59	2.1	----	247	3.7
2	Golfrood	2.7	----	349	5.7
3	MSU-47-Fr	2.9	4.8	231	4.7
4	Rainer	3.7	3.9	145	3.3
5	Pennlawn	3.7	3.7	140	4.3
6	Com. Creeping	4.1	5.3	127	3.3
7	Illahee	4.2	3.4	168	4.3
8	Com. Chewings	4.6	2.6	119	3.7

At East Lansing the four creeping red fescues (Rainer, Pennlawn, Common Creeping and Illahee) have performed quite similar during the initial two years. Common chewings has been slightly inferior to the creeping red fescues especially in density. At Traverse City on 91% sand common chewings red fescue has been the outstanding perennial grass during the initial establishment year. In addition to the top three selections listed above, Syn A, Syn B, Duraturf, Highlight and S.L. 3 have ranked higher than the four commercially available creeping red fescues.

STOP 11

Dr. Fred Elliott and John Schillinger

Breeding and Selection of Improved Red Fescues, Ryegrasses, and Tall Fescues - Sixty-five selections originating from the breeding program are being evaluated under turf conditions in replicated 4' x 6' plots. A number of promising selections have been observed which are superior to currently available varieties. The red fescue entries MSU-3-Fr, MSU-11-Fr and MSU-18-Fr have been outstanding. Although slow to establish, they rank high in turf quality, density, and Helminthosporium leafspot resistance. Five perennial ryegrass selections show 100% winter survival through two years and are also rust resistant. The tall fescue selections, MSU-5-Fe and MSU-6-Fe have improved texture plus 90% winter survival.