

STATE OF OHIO  
DEPARTMENT OF TRANSPORTATION  
SUPPLEMENTAL SPECIFICATION 870  
SEEDING AND MULCHING  
March 27, 2001

870.01	Description
870.02	Testing of Soil
870.03	Agricultural Lime
870.04	Testing of Agricultural Liming Materials
870.05	Lime Application Rates
870.06	Commercial Fertilizer
870.07	Topsoil
870.08	Compost
870.09	Seeds
870.10	Legumes
870.11	Native Grasses and Wildflowers
870.12	Site Preparation
870.13	Placing Topsoil
870.14	Seeding Methods
870.15	Mulching Operation
870.16	Wood Fiber Mulch
870.17	Compost
870.18	Watering
870.19	Maintenance
870.20	Mowing
870.21	Fertilization: 2 <sup>nd</sup> Application
870.22	Repair Seeding and Mulching
870.23	Inter-seeding
870.24	Method of Measurement
870.25	Performance
870.26	Basis of Payment

**870.01 Description.** This work shall consist of placing topsoil, preparing the seed bed, furnishing all seed, agricultural lime, commercial fertilizer, mulching material and placing and incorporating as specified. Seeding and mulching shall be performed in stages as per Supplemental Specification 877 or CMS 207 which ever is in the contract.

This specification replaces Item 659 in the 1997 CMS and applies to all areas so designated on the project and areas designated or accepted as waste and borrow areas on or off the project limits.

The Contractor shall place the seed and mulch within 7 days of obtaining final grade. If it is anticipated that the areas will be disturbed by future work, the area shall be temporary seeded (Class 7) and mulched as per Supplemental Specification 877.

Areas to be seeded shall include all areas within the right of way and as described in the plans. All

areas outside the specified limits where the vegetation has been disturbed or destroyed by the Contractor including those defined in CMS 104.06 shall be restored and seeded in accordance with these specifications by the Contractor at no additional cost to the Department.

**870.02 Testing of Soil.** , The Contractor shall have a Standard Test performed on the soil. This test measures soil acidity or alkalinity and will indicate if additional lime is required above the standard. The tests should be taken near final grade but prior to seeding. There shall be at least one test per 20 acres (8.1 hectares). The test may be taken in the topsoil stock piles. One test is required for every 10,000 c.y. of topsoil.. Take a minimum of two tests per project.

How to Take a Soil Sample: In a random pattern, 15-20 cores should be taken at a depth of 6 to 7 inches (150 to 180 mm). Cores should be mixed together with one pint retained for testing. Large sites having different soil conditions may require more than one test. Submit these test results to the Department. Corrections to any deficiencies in nutrients or pH shall be made by following the test report recommendations.

Ohio County Extension offices can provide the Contractor with a soil sample kit and testing locations.

The standard application rates for lime, in 870.05, and Fertilizer, in 870.06 shall be used when the soil analysis test not in the contract.

**870.03 Agricultural Lime.** Agricultural lime shall be obtained by the Contractor from a dealer or manufacturer whose brands and grades are registered or licensed by the State of Ohio, Department of Agriculture.

**870.04 Testing of Agricultural Liming Materials.** Liming materials shall be tested in accordance with Supplement 1007.

**870.05 Lime Application Rates.** For the basis of quality control agricultural ground limestone, having a minimum total neutralizing power (TNP) of 90+ percent, at least 40 percent passing a No. 100 (150  $\mu$ m) sieve and 95 percent passing a No. 8 (2.36 mm) sieve, 100 percent of Ag-ground shall be applied. Application shall be at 92 pounds per 1000 sq ft (2 ton/acre). This rate shall be standard grade and rate.

Other available forms of liming materials may be applied depending on their potential to neutralize soil acidity. An increase or decrease in the application rates, depending on the form used, are determined from the Table 7-10 "Equivalent Amounts of Liming Materials" found in Bulletin 472, "Ohio Agronomy Guide", published by the Cooperative Extension Service, The Ohio State University.

Changes to the lime requirements will be determined by the pH test, as indicated on the soil analysis results. A slightly acid soil (pH 6.5) is recommended. Agricultural lime shall be applied to the surface.

**870.06 Commercial Fertilizer.** Commercial fertilizer shall be obtained by the Contractor from a dealer or manufacturer whose brands and grades are registered or licensed by the State of Ohio,