## CITY OF DARDENNE PRAIRIE NOTES

- 30. SEEDED AREAS SHALL BE RE-FERTILIZED 4 WEEKS AFTER INITIAL SEEDING. ALL AREAS IDENTIFIED AS BARE AND SPARSE (LESS THAN 30% GROUND COVER) DURING THE INSPECTION SHALL BE RE-SEEDED AND MULCHED. GRASS SHALL NOT BE CUT UNTIL 4 INCHES OF GROWTH OCCURS.
- 31. SEED MUST BE CLEAN, RELATIVELY FREE OF WEED SEED AND OTHER CONTAMINANTS, AND COMPLY WITH THE FEDERAL SEED ACT AND THE MISSOURI STATE SEED LAW. SEED THAT HAS BECOME WET, MOLDY, OR OTHERWISE DAMAGED IN TRANSIT OR STORAGE IS NOT ACCEPTABLE. TURF MIXES CAN BE USED WITH NO MORE THAN 10% KENTUCKY BLUEGRASS AND AT LEAST 20% PERENNIAL RYE.
- 32. SEEDBED PREPARATION IS ESSENTIAL FOR THE SEED TO GERMINATE AND GROW. FOR BROADCAST SEEDING AND DRILLING, LOOSEN THE TOP 3 TO 6 INCHES OF SOIL. LIME AND FERTILIZER SHOULD BY INCORPORATED BY DISKING. IF RECENT TILLAGE OR GRADING OPERATIONS HAVE RESULTED IN A LOOSE SURFACE, ADDITIONAL TILLAGE MAY NOT BE REQUIRED. IF RAINFALL CAUSED THE SOIL SURFACE TO BECOME SEALED OR CRUSTED, SURFACE TILLING WILL BE REQUIRED PRIOR TO SEEDING.
- 33. THE SEEDBED AREA SHALL BE TESTED BY AN APPROVED NURSERY FOR PROPER APPLICATION RATES OF LIME AND FERTILIZER. RESULTS OF THE TEST ARE TO BE SENT TO THE CITY ENGINEER WITH THE RECOMMENDED APPLICATION RATES. MULCHING OR THE ADDITION OF STOCKPILED TOPSOIL IS REQUIRED ON ALL SEEDBEDS PRIOR TO THE PLACEMENT OF SEED WHEREVER THERE ARE INADEQUATE AMOUNTS OF TOPSOIL. MULCH SHALL BE APPLIED AFTER SEEDING FOR PROTECTION AND TO AID IN SEED GERMINATION. MULCH SHALL BE USED AFTER SEEDING.
- 34. IN LIEU OF SOIL TESTING FOR LAND DISTURBANCE SITES LESS THAN TWO (2) ACRES, THE FOLLOWING FERTILIZER AND LIME RATES SHALL BE APPLIED:

  Soil Amendment Rates

Soil Amendment Material		Application Rate (Lb per Acre)	
	Nitrogen (N)	30 <sup>1</sup>	
Fertilizer	Phosphate (P <sub>2</sub> O <sub>5</sub> )	90 <sup>1</sup>	
	Potash (K <sub>2</sub> O)	90 <sup>1</sup>	
Lime		1,000 <sup>2</sup>	

<sup>1</sup>Increase the rate by 25% for slopes steeper than 5:1. <sup>2</sup>Rate is in effective neutralizing material (ENM) units.

- 35. IN AREAS THAT ARE ON SLOPES FLATTER THAN 4:1 AND THAT ARE NOT WITHIN WATERCOURSES, SEEDING SHALL BE APPLIED AT THE RATES AND TIMES SPECIFIED IN THE "TEMPORARY FALL SEEDING" AND "TEMPORARY SPRING SEEDING" TABLES BELOW. SEED SHALL BE EVENLY SPREAD WITH A BROADCAST SEEDER, DRILL, OR HYDRO SEEDER. THE PROPER DEPTH IS 1/4 TO 1/2 INCHES DEEP FOR LEGUMES AND GRASSES SUCH AS ANNUAL RYEGRASS AND UP TO 1 AND 1/2 INCHES FOR CEREAL GRAINS. IF THE SEED IS APPLIED BY A BROADCAST METHOD, THE AREA WILL BE ROLLED OR CULTI-PACKED IMMEDIATELY AFTER SEEDING ON A PREPARED SEEDBED ONLY. ROLLING OR CULTI-PACKING IS NOT REQUIRED IF THE BROADCAST SEEDING RATE IS INCREASED BY 50 PERCENT.
- 36. THE FOLLOWING SUBMITTALS ARE REQUIRED PRIOR TO TEMPORARY & PERMANENT SEEDING:
- a. SOIL TEST REPORT
- b. SEEDING DATE
- c. FERTILIZATION MIXTURE & RATE
- d. SEED MIXTURE(S) AND RATE(S), SUPPLIER, PURITY PERCENTAGE
- e. MULCHING MATERIAL(S) AND APPLICATION RATE(S)
- f. MOWING HEIGHT AND SCHEDULE
- g. SEEDED AREAS SHALL BE RE-FERTILIZED 4 WEEKS AFTER INITIAL SEEDING. ALL AREAS IDENTIFIED AS BARE AND SPARSE (LESS THAN 30% GROUND COVER) DURING THE INSPECTION SHALL BE RE-SEEDED AND MULCHED. GRASS SHALL NOT BE CUT UNTIL 4 INCHES OF GROWTH OCCURS.
- h. CHANNELS, EMBANKMENTS, AND SLOPES OF 4:1 OR STEEPER, SEEDING SHALL BE A MIXTURE OF K31 FESCUE AND RYE AT A RATE OF 400 POUNDS PER ACRE.

## Temporary Fall Seeding

Plant Species	Rate 1 (lb/acre)	Seeding Times
Side-Oats	65	8/16 - 9/30
Winter Rye	50	8/01 – 10/15
Winter Wheat	60	8/01 - 10/15
Orchard Grass	120	8/01 - 10/15
Perennial Ryegrass	80	8/01 - 10/15
Tall fescue, Smooth Brome	80	8/01 - 10/15
K-31 Fescue	120	9/01 – 11/15
Ladino Clover	2 2	8/15 - 9/15
Crimson Clover	6 <sup>2</sup>	8/15 – 9/15
Orchard Grass and Oats or Rye	15 <sup>2</sup> 40 <sup>2</sup>	8/15 - 9/15

<sup>1</sup>If using aerial seeding or other broadcast method to apply seed without rolling or cultipacking, increase seeding rates by 50 percent.

<sup>2</sup>Pure live seed (PLS)

## Temporary Spring Seeding

remporary spring seeding				
Plant Species	Rate <sup>1</sup> (lb/acre)	Seeding Dates		
Winter Rye	50	3/15 - 5/31		
Spring Oats	65	3/15 - 5/31		
Annual Ryegrass	4 2	3/15 – 6/15		
Sudangrass	16 <sup>2</sup>	4/15 - 6/15		
K-31 Fescue	30 <sup>2</sup>	3/15 - 5/31		
Red Clover	2 2	3/15 – 5/31		
& Oats	30 <sup>2</sup>	3/13 - 3/31		

<sup>1</sup>If using aerial seeding or other broadcast method to apply seed without rolling or cultipacking, increase seeding rates by 50 percent.

<sup>2</sup>Pure live seed (PLS)

- 37. MULCHING AND HYDRO MULCH ARE THE APPLICATION OF PLANT RESIDUES SUCH AS STRAW OR OTHER SUITABLE MATERIALS TO THE SOIL SURFACE. MULCH PROTECTS THE SOIL SURFACE FROM THE EROSIVE FORCE OF RAINDROP IMPACT AND REDUCES THE VELOCITY OF OVERLAND FLOW. IT HELPS SEEDLINGS GERMINATE AND GROW BY CONSERVING MOISTURE, PROTECTING AGAINST TEMPERATURE EXTREMES, AND CONTROLLING WEEDS. MULCH ALSO MAINTAINS THE INFILTRATION CAPACITY OF THE SOIL.
- 38. MULCH SHALL BE APPLIED TO SEEDED AREAS TO HELP ESTABLISH PLANT COVER. IT CAN ALSO BE USED AS TEMPORARY COVER IN UNSEEDED AREAS TO PROTECT AGAINST EROSION OVER THE WINTER OR UNTIL FINAL GRADING AND SHAPING CAN BE ACCOMPLISHED. APPLICATION RATES ARE SHOWN IN THE "MULCHING MATERIALS" TABLE BELOW.

## **Mulching Materials**

	Material	Rate	Requirements	Installation/Uses
	Straw	1.5-2.5 tons/ac (3-4 tons, if roller punched)	Dry, unchopped, unweathered; free of weed seeds & rot.	Spread by machine 1.5-2.5 inches deep; must be tacked or tied down.
	Compost Blanket	1" thick	Double the application rate for embankments	Follow manufacturer's application method.
	Wood fiber, wood cellulose, paper	1-2 tons/ac	Double the application rate in critical areas	Use with power mulcher of hydroseeder; may be used to tack straw on steep slopes. Cannot be used in hot dry weather.

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