

PLANTS, PLANTING RATES, AND PLANTING DATES FOR TEMPORARY COVER OR COMPANION CROPS 1/

SPECIES	BROADCAST RATES 2/ - PLS 3/ PER ACRE PER 1000 SF.		RESOURCE AREA 4/	PLANTING DATES												REMARKS	
				J	F	M	A	M	J	J	A	S	O	N	D		
BARLEY (<i>Hordeum vulgare</i>) ALONE IN MIXTURES	144 LBS 84 LBS	33 LBS 0.6 LBS	M-L P C														14,000 SEEDS PER POUND WINTERHARDY USE ON PRODUCTIVE SOILS.
LESPEDEZA, ANNUAL (<i>Lespedeza striata</i>) ALONE IN MIXTURES	40 LBS 10 LBS	0.9 LBS 0.2 LBS	M-L P C														300,000 SEEDS PER POUND, MAY VOLUNTEER PER SEVERAL YEARS. USE INDICULANT EL.
LOVEGRASS, WEEPING (<i>Eragrostis curvula</i>) ALONE IN MIXTURES	4 LBS 2 LBS	0.1 LBS 0.05 LBS	M-L P C														1,500,000 SEEDS PER POUND, MAY LAST FOR SEVERAL YEARS. MIX WITH SERICEA LESPEDEZA
MILLET, BROWNTOP (<i>Panicum fasciculatum</i>) ALONE IN MIXTURES	40 LBS 10 LBS	0.9 LBS 0.2 LBS	M-L P C														137,000 SEEDS PER POUND, QUICK DENSE COVER WILL PROVIDE TOO MUCH COMPETITION IN MIXTURES IF SEEDED AT HIGH RATES
MILLET, PEARL (<i>Pennisetum glaucum</i>) ALONE IN MIXTURES	50 LBS	1.1 LBS	M-L P C														88,000 SEEDS PER POUND, QUICK, DENSE COVER MAY REACH 5 FEET IN HEIGHT. NOT RECOMMENDED IN MIXTURES
DATS (<i>Avena sativa</i>) ALONE IN MIXTURES	128 LBS 32 LBS	2.9 LBS 0.7 LBS	M-L P C														13,000 SEEDS PER POUND, USE ON PRODUCTIVE SOILS NOT AS WINTERHARDY AS RYE OR BARLEY.
RYE (<i>Secale cereale</i>) ALONE IN MIXTURES	168 LBS 28 LBS	3.9 LBS 0.6 LBS	M-L P C														18,000 SEEDS PER POUND, QUICK COVER, DROUGHT TOLERANT AND WINTERHARDY.
RYEGRASS, ANNUAL (<i>Lolium temulentum</i>) ALONE	40 LBS	0.9 LBS	M-L P C														227,000 SEEDS PER POUND, DENSE COVER, VERY COMPETITIVE AND IS NOT TO BE USED IN MIXTURES.
SUDAGRASS (<i>Sorghum sudanense</i>) ALONE	60 LBS	1.4 LBS	M-L P C														55,000 SEEDS PER POUND, GOOD ON DROUGHTY SITES, NOT RECOMMENDED FOR MIXTURES.
TRITICALE (X-Triticosecale) ALONE IN MIXTURES	144 LBS 24 LBS	3.3 LBS 0.6 LBS	C														USE ON LOWER PART OF SOUTHERN COASTAL PLAIN AND IN ATLANTIC COASTAL FLATWOODS ONLY.
WHEAT (<i>Triticum aestivum</i>) ALONE IN MIXTURES	180 LBS 30 LBS	4.1 LBS 0.7 LBS	M-L P C														15,000 SEED PER POUND WINTERHARDY.

- NOTES:**
1. APPLY TO ALL EXPOSED AREAS WITHIN 14 DAYS OF DISTURBANCE.
 2. IF DISTURBED AREAS ARE TO BE LEFT UNDISTURBED FOR LESS THAN 6 MONTHS USE TEMPORARY GRASSING, OTHERWISE USE PERMANENT GRASSING.
 3. SOIL TO RECEIVE GRASSING IS TO BE SCARIFIED TO PROVIDE A PLACE FOR THE SEED TO LODGE AND GERMINATE.
 4. APPLY AGRICULTURAL LIME AT A RATE OF ONE TON PER ACRE.
 5. FOR LOW FERTILITY SOILS, APPLY 500-700 LBS OF 10-10-10 FERTILIZER PER ACRE, APPLY BEFORE LAND PREPARATION AND INCORPORATE WITH A DISK, RIPPER, OR CHISEL.
 6. APPLY SEED BY HAND, CYCLONE SEEDER, DRILL, CULTIPACER-SEEDER OR HYDRAULIC SEEDER. RAKE SOIL LIGHTLY TO COVER SEED WHEN APPLIED BY HAND.
 7. PROVIDE WATER AS REQUIRED TO GERMINATE AND MAINTAIN A HEALTHY THICK COVER OF GRASS.
- MAINTENANCE REQUIREMENTS:**
- INSPECT ALL AREAS WHERE TEMPORARY GRASSING HAS BEEN APPLIED, WHERE COVER IS SPARSE, SCARIFY THE AREA, TEST SOIL FERTILITY, AND FERTILIZER AS NECESSARY AND RESEED WHERE EROSION HAS OCCURRED, REGRADE SOIL TO ABOVE STEPS.

Du Dust Control On Disturbed Areas

Definition:
Controlling surface and air movement of dust on construction sites, roads, and demolition sites.

Purpose:
-To prevent surface and air movement of dust from exposed soil surfaces.
-To reduce the presence of airborne substances which may be harmful or injurious to human health, welfare, or safety, or to animals or plant life.

Conditions:
This practice is applicable to areas subject to surface and air movement of dust where on and off-site damage may occur without treatment.

Method & Materials:

A. Temporary Methods
Mulches: See standard Ds1 - Disturbed Area Stabilization (With Mulching Only). Synthetic resins may be used instead of asphalt to bind mulch material. Refer to standard Tb - Tackifiers & Binders. Resins such as Curasol or Terrateck should be used according to manufacturer's recommendations.
Vegetative Cover: See standard Ds2 - Disturbed Area Stabilization (With Temporary Seeding).
Spray-on Adhesives: These are used on mineral soils (not effective on muck soils). Keep traffic off these areas. Refer to standard Tb - Tackifiers & Binders.

B. Permanent Methods
Permanent Vegetation: See standard Ds3 - Disturbed Area Stabilization (With Permanent Vegetation). Existing trees and large shrubs may afford valuable protection if left in place.
Topping: This entails covering the surface with less erosive material. See Tp. Stone Cover: surface with crushed stone or coarse gravel. See standard Cr - Construction Road Stabilization.

Tillage: This practice is designed to roughen and bring clods to the surface. It is an emergency measure which should be used before wind erosion starts. Begin plowing on windward side of site. Chisel-type plows spaced about 12' apart, spring-toothed harrows, and similar plows are examples of equipment which may produce the desired effect.
Irrigation: This is generally done as an emergency treatment. Site is sprinkled with water until the surface is wet. Repeat as needed.
Barriers: Solid board fences, snowfences, burlap fences, crate walls, bales of hay and similar material can be used to control air currents and soil blowing. Barriers placed at right angles to prevailing currents at intervals of about 25 times their height are effective in controlling wind erosion.
Calcium Chloride: Apply at rate that will keep surface moist. May need re-treatment.

SPECIES	BROADCAST RATES 2/ - PLS 3/ PER ACRE PER 1000 SF.		RESOURCE AREA	PLANTING DATES												REMARKS	
				J	F	M	A	M	J	J	A	S	O	N	D		
BAHIA, PENSACOLA (<i>Paspalum notatum</i>) ALONE OR W/OTHER TEMPORARY COVER WITH OTHER PERENNIALS	60 LBS 30 LBS	1.4 LBS 0.7 LBS	P C														166,000 SEEDS PER POUND, LOW GROWING SOD FORMING SLOW TO ESTABLISH, PLANT WITH A COMPANION CROP WILL SPREAD INTO BERMUDA PASTURES AND LAWNS. MIX WITH SERICEA LESPEDEZA OR WEEPING LOVEGRASS.
BAHIA, WILMINGTON (<i>Paspalum notatum</i>) ALONE OR W/OTHER TEMPORARY COVER WITH OTHER PERENNIALS	60 LBS 30 LBS	1.4 LBS 0.7 LBS	M-L P C														166,000 SEEDS PER POUND, LOW GROWING SOD FORMING SLOW TO ESTABLISH, PLANT WITH A COMPANION CROP WILL SPREAD INTO BERMUDA PASTURES AND LAWNS. MIX WITH SERICEA LESPEDEZA OR WEEPING LOVEGRASS.
BERMUDA, COMMON (<i>Cynodon dactylon</i>) UNMULLED SEED W/ TEMP COVER WITH OTHER PERENNIALS	10 LBS 6 LBS	0.2 LBS 0.1 LBS	P C														1,787,000 SEEDS PER POUND, QUICK COVER, LOW GROWING AND SOD FORMING. FULL SUN, GOOD FOR ATHLETIC FIELDS.
BERMUDA, COMMON (<i>Cynodon dactylon</i>) UNMULLED SEED W/ TEMP COVER WITH OTHER PERENNIALS	10 LBS 6 LBS	0.2 LBS 0.1 LBS	P C														PLANT WITH WINTER ANNUALS. PLANT WITH TALL FESCUE.
BERMUDA SPRIGS (<i>Cynodon dactylon</i>) COASTAL, COMMON MOUND, OR TIFT 44 COASTAL, COMMON DR TIFT 44	40 CF. OR 500 PLUGS 3' x 3'	0.9 CF.	M-L P C														A CUBIC FOOT CONTAINS APPROXIMATELY 600 SPRIGS. A BUSHEL CONTAINS 125 CUBIC FEET OR APPROXIMATELY 800 SPRIGS. SAME AS ABOVE.
TIFT 78			C														SOUTHERN COASTAL PLAIN ONLY.
CENTIPEDE (<i>Erenochloa ophiuroides</i>)	BLACK SOD ONLY		P C														DROUGHT TOLERANT, FULL SUN OR PARTIAL SHADE, EFFECTIVE ADJACENT TO CONC. AND IN CONCENTRATED FLOW AREAS. IRRIGATION IS NEEDED UNTIL FULLY ESTABLISHED. DO NOT PLANT NEAR PASTURES. WINTERHARDY AS FAR NORTH AS ATHENS AND ATLANTA.
FESCUE, TALL (<i>Festuca arundinacea</i>) ALONE W/ OTHER PERENNIALS	50 LBS 30 LBS	1.1 LBS 0.7 LBS	M-L P														227,000 SEEDS PER POUND, USE ALONE ONLY ON BETTER SITES. NOT FOR DROUGHT SOIL. MIX WITH PERENNIAL LESPEDEZAS OR CROWNVEATCH. APPLY TOPDRESSING IN SPRING FOLLOWING FALL PLANTING. NOT FOR HEAVY USE AREAS OR ATHLETIC FIELDS.
LOVEGRASS, WEEPING (<i>Eragrostis curvula</i>) ALONE W/ OTHER PERENNIALS	4 LBS 2 LBS	0.1 LBS 0.05 LBS	M-L P C														1,500,000 SEEDS PER POUND, QUICK COVER, DROUGHT TOLERANT, GROWS WELL WITH SERICEA LESPEDEZA ON ROADBANKS.

THICK LINES INDICATE OPTIMUM DATES, THIN LINES INDICATE PERMISSIBLE BUT MARGINAL DATES.

1/ REDUCE SEEDING RATES BY 50% WHEN DRILLED.
2/ PLS IS AN ABBREVIATION FOR PURE LIVE SEED, REFER TO SECTION V.E. OF THESE SPECIFICATIONS.
3/ M-L REPRESENTS THE MOUNTAIN, BLUE RIDGE, AND RIDGES AND VALLEYS MLRA'S.
P REPRESENTS THE SOUTHERN PIEDMONT MLRA.
C REPRESENTS THE SOUTHERN COASTAL PLAIN, SAND HILLS, BLACK LANDS, AND ATLANTIC COAST FLATWOODS MLRA'S.

- NOTES:**
1. PERMANENT GRASSING SHALL BE APPLIED TO GRADED AREAS THAT WILL BE UNDISTURBED FOR MORE THAN 6 MONTHS.
 2. APPLY TO ALL AREAS IMMEDIATELY AFTER THEY HAVE REACHED FINAL GRADE.
 3. APPLY AGRICULTURAL LIME AT A RATE OF 1-2 TONS PER ACRE UNLESS SOIL TESTS INDICATE OTHERWISE.
 4. RYE GRASS SHALL NOT BE USED IN ANY SEEDING MIXTURE CONTAINING PERENNIAL SPECIES DUE TO ITS ABILITY TO OUT-COMPETE DESIRED SPECIES CHOSEN FOR PERMANENT PERENNIAL COVER.
 5. FOR HYDRAULIC SEEDING, MIX SEED, FERTILIZER AND WOOD CELLULOSE OR WOOD PULP FIBER WITH WATER AND APPLY IN SLURRY UNIFORMLY OVER THE TREATED AREA. APPLY WITHIN 1 HOUR OF MIXING. MULCH IS TO BE APPLIED AT A RATE OF 500 LBS. PER ACRE.
 6. FOR CONVENTIONAL SEEDING USE A CULTI-SEEDER, DRILL, ROTARY SEEDER, OTHER MECHANICAL SEEDER OR HAND SEED UNIFORMLY OVER THE SEED WITH 1/8" TO 1/2" OF SOIL. PROVIDE TEMPORARY MULCHING WITHIN 24 HOURS OF SPREADING SEED. MULCH SHALL COVER 75% OF THE SOIL SURFACE.
- MAINTENANCE REQUIREMENTS:**
- PROVIDE PERIODIC INSPECTIONS AND AFTER EACH RAINFALL EVENT AND REGRASS AREAS THAT ARE BARE OR HAVE ERODED. EXCLUDE TRAFFIC IN GRASSED AREAS UNTIL GRASS IS ESTABLISHED NOW AS REQUIRED.

Table 0.5.1. Fertilizer Requirements

TYPE OF SPECIES	YEAR	ANALYSIS OR EQUIVALENT N-P-K	RATE	N TOP DRESSING RATE
1. Cool season grasses	First	8-12-12	1500 lbs./ac.	50-100 lbs./ac. 1/2"
	Second	8-12-12	1000 lbs./ac.	30
	Maintenance	10-10-10	400 lbs./ac.	---
2. Warm season grasses and legumes	First	8-12-12	1500 lbs./ac.	0-50 lbs./ac. 1/2"
	Second	0-10-10	1000 lbs./ac.	---
	Maintenance	0-10-10	400 lbs./ac.	---
3. Mulch covers	First	10-10-10	1000 lbs./ac. 3'	---
	Second	10-10-10	1000 lbs./ac. 3'	---
	Maintenance	10-10-10	1000 lbs./ac.	---
4. Pine seedlings	First	20-10-5	one 21-gram pellet per seedling placed in the closing hole	---
5. Shrub Lespedeza	First	0-10-10	700 lbs./ac.	---
	Maintenance	0-10-10	700 lbs./ac. 4'	---
6. Temporary cover crops seeded alone	First	10-10-10	500 lbs./ac.	30 lbs./ac. 5'
7. Warm season grasses	First	8-12-12	1500 lbs./ac.	50-100 lbs./ac. 2 1/2"
	Second	8-12-12	800 lbs./ac.	50-100 lbs./ac. 2'
	Maintenance	10-10-10	400 lbs./ac.	30 lbs./ac.
8. Warm season grasses and legumes	First	8-12-12	1500 lbs./ac.	50 lbs./ac. 4 1/2"
	Second	0-10-10	1000 lbs./ac.	---
	Maintenance	0-10-10	400 lbs./ac.	---

- 1/ TEMPORARY COVER CROPS ARE VERY COMPETITIVE AND WILL CROWD OUT PERENNIALS IF SEEDED TOO HEAVILY.
2/ REDUCE SEEDING RATES BY 50% WHEN DRILLED.
3/ PLS IS AN ABBREVIATION FOR PURE LIVE SEED.
4/ M-L REPRESENTS THE MOUNTAIN, BLUE RIDGE, AND RIDGES AND VALLEYS MLRA'S.
P REPRESENTS THE SOUTHERN PIEDMONT MLRA.
C REPRESENTS THE SOUTHERN COASTAL PLAIN, SAND HILLS, BLACK LANDS, AND ATLANTIC COAST FLATWOODS MLRA'S.

Ds2 TEMPORARY GRASSING

REFER TO THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" FOR FURTHER DETAILS AND SPECIFICATIONS.

FOR TEMPORARY PROTECTION OF CRITICAL AREAS WITHOUT SEEDING, THIS STANDARD APPLIES TO GRADES OR CLEARED AREAS WHICH MAY BE SUBJECT TO EROSION FOR 6 MONTHS OR LESS, WHERE SEEDING MAY NOT HAVE A SUITABLE GROWING SEASON TO PRODUCE AN EROSION RETARDANT COVER, BUT WHICH CAN BE STABILIZED WITH A MULCH COVER.

MATERIALS	RATE	APPLICATION
DRY STRAW OR HAY	2 1/2 TONS PER ACRE	APPLY UNIFORMLY BY HAND OR BY MECHANICAL EQUIPMENT. FOR HAY DISK HARROW OR PLOW, OR FOR HAY WITH EMULSIFIED ASPHALT GRADE AC-5 OR 30-41 AT A RATE OF ONE GAL. PER 100 GAL. OF WATER FOR EACH TON OF MULCH.
WOOD WASTE, CHIPS, SAWDUST, OR BARK	2" TO 3" THICK, ABOUT 6 TO 9 TONS PER ACRE	ANCHOR WITH NETTING OF THE APPROPRIATE SIZE OPENINGS IN THE NETTING SHALL NOT BE LARGER THAN THE APPLICABLE SIZE OF THE WOOD CHIPS.
EROSION CONTROL MATTING OR NETTING	APPLY IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS	APPLY IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS
ASPHALT SPRAY (T-908-02)	SEE PROJECT SPECIFICATIONS	APPLY UNIFORMLY
POLYETHYLENE FILM	SEE PROJECT SPECIFICATIONS	ANCHOR FRENCH AT THE TOP OF SLOPE, AS WELL AS NECESSARILY AS NECESSARY

MAINTENANCE REQUIREMENTS:

INSPECT ALL MULCHED AREAS ON A DAILY BASIS AND AFTER EACH RAINFALL EVENT, REGRADE ERODED AREAS AND REMULCH AREAS IN WHICH THE COVER IS NO LONGER GREATER THAN 90% CONTIGUOUS.

Ds1 TEMPORARY MULCHING

REFER TO THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" FOR FURTHER DETAILS AND SPECIFICATIONS.

FILE: Ds1 - TEMPORARY MULCHING DWN: KLL CHK: JTC 10/30/06

Ds3 PERMANENT GRASSING

REFER TO THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" FOR FURTHER DETAILS AND SPECIFICATIONS.

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LEVEL 4 CERTIFIED DESIGN PROFESSIONAL
CERTIFICATION NUMBER 0000073266
ISSUED: 01/22/2018
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Project
**THE CENTER FOR
ADVANCED SURGICAL
SERVICES (CASS)**
80 GILMER STREET SE
ATLANTA, GA 30303

Prepared For
GRADY HEALTH SYSTEM
80 JESSE HILL DR. SE
ATLANTA, GA 30303

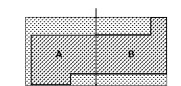


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Key Plan



Professional Seals



No.	Description	Date
1	001-GMP	2019-07-03

Project No: 18-10013.00
Sheet Title

**EROSION,
SEDIMENTATION &
POLLUTION CONTROL
DETAILS**

Original is 30 x 42. Use not scale contents of this drawing.
Sheet Number

EC301