MS-ECS-340-01 (JS)
Cover and Green Manure Crop (Ac.)

Species	Seeding Date	Seed/lb	Pure Stand Seeding Rates		Proportional Seeding Rates for Mixtures				Planting Depth (Inches)	Fert (lbs/ac)
		(x 1000)	(seeds/ft)	(lb/A)	3/4	1/2	1/3	1/4		
					lb/A					
Suggested Cover Crops for Recycling Nutrients										
Cover crop species will be selected for their ability to take up large amounts of nutrients from the rooting profile of the s										
Oats	Sept.-Nov.	15	20	60-120	49	33	22	16	1	80-40-80
Oilseed Radish	Sept.-Nov.	140	19	6	4.5	3	2	1.5	1/2	60-40-60
Sorghum/Sudan Grass	April-June	28	13	20	15	10	7	5	1	120-40-80
Cereal Rye	Sept.-Nov.	18	18	60-120	49	33	22	16	1	80-40-80
Winter Wheat	Sept.-Nov.	15	40	60-120	60	40	27	15	1	80-40-80
Pearl Millet	April-June	82	30	25	19	13	8	6	1/2	120-40-80
Suggested Cover Crops for Fixing Nitrogen										
1. Only Legume or Legume-grass mixtures will be established as cover crops										
2. Legume seed will be inoculated with the approperate rhizobium bacteria										
Alfalfa (annual)	Sept.-Nov.	227	80	15	12	8	5	4	1/2	0-80-200
Alsike Clover - Ladino Clover	Sept.-Nov.	700-800	50	4	3	2	1.3	1	1/2	0-80-200
Austrian Winter Pea	Sept.-Nov.	18	14	35	26	17	11.5	9	1	0-80-80
hairy Vetch	Sept.-Nov.	20	6	25	9	6	4	3	1	0-80-80
Red Clover	Sept.-Nov.	275	51	8	6	4	2.5	2	1/4	0-80-200
Soybeans	April-June	4	5	45	34	4	15	11	1	0-80-80
Arrowleaf Clover	Sept.-Nov.	400	50	8	6	4	2.5	2	1/2	0-80-200
Crimson Clover	Sept.-Nov.	150	50	25	19	13	8	6	1/4	0-80-200
Suggested Cover Crops for High Residue										
1. Termination of high residue crops shall be accomplished by chemical methods, non-chemical methods (such as flail mower or) a combimation of both.										
Sorghum/Sudan Grass	April-June	28	13	20	15	10	7	5	1	120-40-80
Cereal Rye	Sept.-Nov.	18	18	60-120	49	33	22	16	1	80-40-80
Winter Wheat	Sept.-Nov.	15	40	60-120	60	40	27	15	1	80-40-80
Pearl Millet	April-June	82	30	30	19	13	8	6	1/2	120-40-80
Suggested Deep Rooted Cover Crops for Soil Compaction										
1. Legume seed will be inoculated with the approperate rhizobium bacteria										
Alfalfa (annual)	Sept.-Nov.	227	80	15	12	8	5	4	1/2	0-80-200
Alsike Clover - Ladino Clover	Sept.-Nov.	700-800	50	4	3	2	1.3	1	1/2	0-80-80
Austrian Winter Pea	Sept.-Nov.	18	14	35	26	17	11.5	9	1	0-80-80
hairy Vetch	Sept.-Nov.	20	6	12	9	6	4	3	1	0-80-80
Red Clover	Sept.-Nov.	275	51	8	6	4	2.5	2	1/4	0-80-80
Soybeans	April-June	4	5	45	34	4	15	11	1	0-80-80
Arrowleaf Clover	Sept.-Nov.	400	50	8	6	4	2.5	2	1/2	0-80-80
Crimson Clover	Sept.-Nov.	150	50	25	19	13	8	6	1/4	0-80-80
Oilseed Radish	Sept.-Nov.	140	19	6	4.5	3	2	1.5	1/2	60-40-60
Brassicas	Sept.-Nov.	190	13	3	0	0	0	1	1/2	60-40-60
Ryegrass	Sept.-Nov.	228	84	25-40	15	10	7	5	1/2	180-80-20
Suggested Cover Crops for Additional Forage										
1. Species will have desired forage traits and not interfere with production of subsequent crop.										
2. Forage provided by cover crop may be hayed or grazed as long as saufficent biomass is left for resource protection.										
Oats	Sept.-Nov.	15	20	60-120	49	33	22	16	1	80-40-80
Oilseed Radish	Sept.-Nov.	140	19	6	4.5	3	2	1.5	1/2	60-40-60
Sorghum/Sudan Grass	April-June	28	13	35	0	0	0	0	1	120-40-80
Cereal Rye	Sept.-Nov.	18	18	60-120	0	0	0	0	1	80-40-80
Winter Wheat	Sept.-Nov.	15	40	60-120	0	0	0	0	1	80-40-80
Pearl Millet	April-June	82	30	30	0	0	0	0	1/2	120-40-80
Brassicas	Sept.-Nov.	190	13	3	0	0	0	1	1/2	60-40-60
Ryegrass	Sept.-Nov.	228	84	25-40	18	12	8	6	1/2	180-80-20