TABLE 3 **C FACTORS FOR CROPLAND (Single Year) - MITCHELL (87E) - HIGH YIELDS**

CROP SEQUENCE	CLEAN TILL PLOW		SPRING PLOW	FALL MULCH TILLAGE % COVER AFTER PLANTING							SPRING MULCH TILLAGE % COVER AFTER PLANTING							RIDGE TILL (Cultivated) % COVER AFTER PLANTING							NO-TILL % COVER AFTER PLANTING									STRIP TILL % COVER AFTER PLANTING								
	FALL	SPRING	PLANT	5	10	20	30	40	50	60	5	10	20	30	40	50	60	5	10	20	30	40	50	60	10	20	30	40	50	60	70	80	90.00	10	20	30	40	50	60	70	80.00	90.00
ESTABLISHED ALFALFA																																											
CROP TO BE PLANTED: **ALFALFA**																																											
Previous Crop Was:																																											
Alfalfa Dir. Seeded	.03																																										
Alf/Oats (silaged)	.03																																										
Alfalfa 1st yr	.009																																										
Alfalfa 2nd yr	.006																																										
Alfalfa >=3rd yr	.004																																										
ALFALFA ESTABLISHMENT																																											
CROP TO BE PLANTED: **DIRECT SEEDED ALFALFA**																																											
Previous Crop Was:																																											
Corn	.09	.07			.05	.04	.03	.03	.02			.05	.04	.03	.02	.02	.01												.01	.008	.006											
Corn Silage	.16	.14		.13							.13														.07																	
Grain Sorghum	.09	.07			.05	.04	.03	.03				.05	.04	.03	.02													.01	.01	.008												
Sorgh/Sudan																																											
Soybeans	.13	.10			.08	.07					.09	.08	.06	.05													.03	.02														
Spring Wheat	.12	.09			.07	.06	.05	.04	.03			.07	.05	.04	.03	.03	.02											.02	.02	.02	.01											
Watemellons		.18									.17																															
Winter Wheat	.09	.07				.04	.04	.03	.02	.02		.05	.03	.03	.02	.02													.01	.01	.007	.005										
ALFALFA ESTABLISHMENT																																											
CROP TO BE PLANTED: **ALFALFA / OAT (SILAGE)**																																											
Previous Crop Was:																																											
Corn	.04	.03			.02	.02	.01	.01	.008	.006		.02	.02	.01	.008	.006	.005												.004	.003	.002	.002											
Corn Silage	.09	.09		.08																					.04																	
Grain Sorghum																																											
Sorgh/Sudan																																											
Soybeans	.05	.05			.03	.03						.03	.02	.02													.01	.009	.004	.003												
Spring Wheat	.07	.05			.04	.03	.03	.02	.02			.04	.03	.02	.02	.02	.02											.01	.01	.01	.008											
Winter Wheat																																											

NOTE: Y2 The crop to be planted is the 2nd year after alfalfa.

NOTE: .00 Underlined numbers indicate C factors when 2.5 tons of solid manure was applied in the fall after harvest of the previous crop.

TABLE 3 **C FACTORS FOR CROPLAND (Single Year) - MITCHELL (87E) - HIGH YIELDS**

CROP SEQUENCE	CLEAN TILL PLOW		SPRING PLOW	FALL MULCH TILLAGE % COVER AFTER PLANTING							SPRING MULCH TILLAGE % COVER AFTER PLANTING							RIDGE TILL (Cultivated) % COVER AFTER PLANTING							NO-TILL % COVER AFTER PLANTING									STRIP TILL % COVER AFTER PLANTING								
	FALL	SPRING	PLANT	5	10	20	30	40	50	60	5	10	20	30	40	50	60	5	10	20	30	40	50	60	10	20	30	40	50	60	70	80	90.00	10	20	30	40	50	60	70	80.00	90.00
CROP TO BE PLANTED:																																											
BARLEY																																											
Previous Crop Was:																																											
Alfalfa																																											
Barley	.06	.05			.03	.03	.02	.02	.01	.01		.03	.02	.02	.02	.009	.008										.009	.008	.006	.005	.005	.002										
Corn	.06	.05			.04	.03	.02	.02	.01			.04	.03	.02	.01	.01	.009										.01	.008	.006	.005	.004	.002										
Corn Silage	.10	.10			.07							.07	.05												.04	.03	.02	.02	.008	.006	.005											
Dry Beans																																											
Flax																																											
Grain Sorghum	.06	.05			.04	.03	.02	.02	.01			.04	.03	.02	.01	.01	.008										.01	.009	.007	.005	.004	.002										
Sorghum Silage	.09	.09			.06	.05	.04					.06	.04	.03												.03	.02	.02	.01	.007	.005											
Millet																																											
Oats	.07	.06			.04	.03	.03	.02	.02	.02			.03	.03	.02	.01	.01											.01	.009	.008		.004										
Potatoes																																											
Rapeseed																																											
Rye																																											
Safflower																																											
Sorghum/Sudan	.08	.07			.05	.04	.03					.05	.04	.03												.03	.02	.02	.007	.005	.004											
Soybeans (Narrow row)	.07	.07			.05	.04						.05	.04	.03	.02												.02	.02	.01	.008	.005	.004										
Soybeans (Wide row)	.08	.08			.05	.04						.05	.04	.03	.02												.01	.01	.01	.008	.005	.003										
Spring Wheat	.08	.07			.05	.04	.03	.03	.02			.05	.04	.03	.02	.02	.01										.02	.01	.01	.01		.004										
S. Fallow (Barley)	.17	.17			.10	.08						.08	.06	.05												.05	.03	.02	.01	.008	.007											
S. Fallow (Millet)																																											
S. Fallow (Oats)	.17	.17			.10	.08	.05					.09	.06	.05												.05	.03	.02	.01	.009	.007											
S.Fallow (Sp. Wheat)	.18	.18			.11	.08						.10	.07													.05	.03	.03	.01	.01	.008											
Sunflowers	.07	.07			.05	.03						.04	.03	.02											.02	.02	.01	.01	.009	.005	.003											
Winter Wheat	.07	.06			.04	.03	.03	.02	.02	.02		.04	.03	.03	.02	.01	.01											.01	.009	.008												

NOTE: Y2 The crop to be planted is the 2nd year after alfalfa.

NOTE: .00 Underlined numbers indicate C factors when 2.5 tons of solid manure was applied in the fall after harvest of the previous crop.

TABLE 3 **C FACTORS FOR CROPLAND (Single Year) - MITCHELL (87E) - HIGH YIELDS**

CROP SEQUENCE	CLEAN TILL PLOW		SPRING PLOW	FALL MULCH TILLAGE % COVER AFTER PLANTING							SPRING MULCH TILLAGE % COVER AFTER PLANTING							RIDGE TILL (Cultivated) % COVER AFTER PLANTING							NO-TILL % COVER AFTER PLANTING									STRIP TILL % COVER AFTER PLANTING								
	FALL	SPRING	PLANT	5	10	20	30	40	50	60	5	10	20	30	40	50	60	5	10	20	30	40	50	60	10	20	30	40	50	60	70	80	90.00	10	20	30	40	50	60	70	80.00	90.00
CROP TO BE PLANTED:																																										
CORN FOR GRAIN																																										
Previous Crop Was:																																										
Alfalfa	.23	.16			.18	.15	.13					.13	.11	.09	.07													.04	.02													
Barley	.21	.18			.14	.11	.08	.07	.05	.04		.13	.10	.08	.05	.04	.03				.08	.07	.07						.03	.02	.02	.01				.05	.04	.03	.03	.02		
Corn	.25	.25			.18	.15	.12	.10	.08			.18	.15	.12	.09	.07	.06			.13	.12	.11						.06	.05	.04	.02	.02				.08	.06	.05	.04			
Corn Y2	.25	.23			.19	.15	.13	.10	.08			.17	.14	.12	.09	.07												.05	.04	.03	.02											
Corn Silage	.36	.34			.27	.18	.14					.27	.17	.14	.12			.28			.14				.18	.11	.09							.18								
Dry Beans																																										
Flax																																										
Grain Sorghum	.24	.23			.18	.15	.12	.10				.18	.15	.11	.10				.14	.12								.06	.04	.03	.02					.08	.06	.05				
Sorghum Silage	.33	.32			.25	.21						.25	.20						.24							.13	.08	.07														
Millet	.20	.18			.13	.10	.08	.06	.05			.12	.10	.08	.05	.04	.03				.09	.08	.06					.04	.03	.03	.02	.01										
Oats	.26	.23			.17	.14	.11	.09	.07			.17	.13	.10	.07	.06	.05											.05	.04	.03	.03	.02					.05	.04	.04	.03		
Potatoes																																										
Rapeseed																																										
Rye																																										
Safflower	.32	.31			.25							.23	.19												.19	.14	.12	.09														
Sorghum/Sudan	.34	.34			.27							.26							.26						.20	.16	.15															
Soybeans (Narrow row)	.33	.31			.26	.22						.25	.20	.17	.14				.23	.21						.15	.13	.10	.08	.05	.04				.16	.13	.11					
Soybeans (Wide row)	.34	.32			.26	.22						.25	.20	.17					.23	.21						.12	.10	.07	.06	.05					.14	.11	.10					
Spring Wheat	.28	.25			.19	.15	.12	.09	.08			.18	.15	.10	.08	.07				.15	.13	.12						.06	.05	.04	.03	.02				.08	.06	.05	.04			
S. Fallow (Barley)	.35	.35			.23	.18	.14					.22	.17	.13													.09	.07	.04	.03	.02											
S. Fallow (Corn)	.38	.38			.29	.24						.29	.24	.19											.16	.14	.09	.07														
S. Fallow (Millet)																																										
S. Fallow (Oats)	.38	.38			.26	.21	.15					.26	.19	.15													.10	.08	.04	.03												
S.Fallow (Sp. Wheat)	.40	.40			.28	.21	.15					.27	.20													.15	.12	.06	.04													
Sunflowers	.29	.27			.22	.18						.21	.16	.13					.18							.10	.08	.06	.05					.14	.12	.09	.07					
Watermellons		.40		.35							.35																															
Winter Wheat		.24			.18	.14	.11	.09	.07			.17	.14	.11	.08	.06	.05				.12	.11						.06	.05	.04	.04						.07	.05	.04			
CROP TO BE PLANTED:																																										
CULTIVATED CORN FOR GRAIN																																										
Previous Crop Was:																																										
Corn	*.24*	*.23*			*.18*	*.15*	*.13*	*.11*	*.09*			*.18*	*.15*	*.12*	*.11*	*.09*												*.08*	*.07*	*.07*	*.06*	*.04*										
Corn Silage	*.34*	*.34*		*.30*							*.30*														*.26*	*.21*																
Grain Sorghum	*.23*	*.22*				*.14*	*.12*	*.10*				*.16*	*.14*	*.12*	*.10*	*.08*												*.09*	*.07*	*.06*	*.05*											
Soybeans (Wide row)	*.33*	*.31*		*.28*	*.27*	*.23*					*.28*	*.26*	*.23*	*.19*												*.21*	*.18*	*.17*	*.15*	*.12*												
Spring Wheat	*.28*	*.25*			*.20*	*.16*	*.13*	*.11*	*.08*			*.19*	*.15*	*.13*	*.10*	*.08*												*.08*	*.07*	*.06*	*.05*											
Sunflowers	*.28*	*.27*		*.23*	*.22*	*.19*					*.23*	*.22*	*.17*	*.15*												*.15*	*.13*	*.12*	*.10*													

NOTE: Y2 The crop to be planted is the 2nd year after alfalfa.

NOTE: .00 Underlined numbers indicate C factors when 2.5 tons of solid manure was applied in the fall after harvest of the previous crop.

TABLE 3 **C FACTORS FOR CROPLAND (Single Year) - MITCHELL (87E) - HIGH YIELDS**

CROP SEQUENCE	CLEAN TILL PLOW		SPRING PLOW	FALL MULCH TILLAGE % COVER AFTER PLANTING							SPRING MULCH TILLAGE % COVER AFTER PLANTING							RIDGE TILL (Cultivated) % COVER AFTER PLANTING							NO-TILL % COVER AFTER PLANTING									STRIP TILL % COVER AFTER PLANTING								
	FALL	SPRING	PLANT	5	10	20	30	40	50	60	5	10	20	30	40	50	60	5	10	20	30	40	50	60	10	20	30	40	50	60	70	80	90.00	10	20	30	40	50	60	70	80.00	90.00
CROP TO BE PLANTED: **CORN SILAGE**																																										
Previous Crop Was:																																										
Alfalfa	.21	.14				.14	.11					.11	.10	.07	.06													.03	.02													
Barley	.20	.18			.13	.10	.08	.07	.05			.12	.10	.08	.06	.05	.04				.08	.07	.06						.03	.02	.02	.01					.04	.03	.02	.02		
Corn	.24	.23			.18	.14	.12	.10	.08				.14	.11	.08	.07					.11	.10					.07	.06	.05	.03	.02	.01				.08	.06	.05	.04			
Corn Silage	.34	.34		.31	.20	.17	.13				.31	.19	.16	.13	.11			.32			.13				.18																	
Corn Silage Y2	.33	.31		.28							.27	.25													.12																	
Dry Beans																																										
Flax																																										
Grain Sorghum	.23	.23			.17	.14	.12	.10				.17	.14	.11	.09					.14	.12						.07	.06	.04	.03					.10	.08	.06	.05			
Sorghum Silage	.33	.32			.26							.26							.26						.19	.12																
Millet	.19	.17			.12	.10	.08	.06	.05			.12	.09	.07	.05	.04					.08	.07						.04	.03	.02	.02	.01										
Oats	.25	.22			.17	.13	.10	.08	.07			.16	.13	.10	.08	.06	.05				.12	.11						.05	.04	.04	.03	.02				.07	.06	.05	.04			
Potatoes																																										
Rapeseed																																										
Rye																																										
Safflower																																										
Sorghum/Sudan	.34	.33			.28							.27							.28						.23																	
Soybeans (Narrow row)	.33	.33			.26	.22						.26	.21	.18					.24	.22						.16	.13	.11	.07					.21	.18	.14						
Soybeans (Wide row)	.33	.31			.26							.25	.20	.17					.24	.22						.13	.09	.08	.07					.18	.16	.12						
Spring Wheat	.28	.24			.19	.15	.12	.10				.18	.14	.11	.09					.15	.13							.07	.05	.04	.02				.10	.08	.07	.05			
S. Fallow (Sorn Sil.)	.41	.41			.31							.31	.24												.17	.12																
Sunflowers	.28	.28		.23	.21						.22	.20	.16						.18								.10	.07						.15	.13	.10						
Winter Wheat	.26	.23			.17	.13	.11	.08	.07			.16	.13	.10	.08	.06	.05				.11	.10						.06	.05	.04	.03	.03				.08	.06	.05	.04			
CROP TO BE PLANTED: ***CULTIVATED CORN SILAGE***																																										
Previous Crop Was:																																										
Corn	*.26*	*.25*		*.32*	*.20*	*.16*	*.14*	*.11*				*.19*	*.16*	*.12*	*.10*												*.12*	*.10*	*.09*	*.07*	*.06*										
Corn Silage	*.34*	*.34*		*.31*							*.31*																															
Soybeans	*.33*	*.31*		*.28*	*.27*						*.27*	*.26*														*.22*	*.18*	*.17*	*.15*													
Spring Wheat	*.28*	*.25*			*.20*	*.15*	*.13*	*.10*				*.18*	*.15*	*.12*	*.10*													*.09*	*.07*	*.06*	*.05*										

NOTE: Y2 The crop to be planted is the 2nd year after alfalfa.

NOTE: .00 Underlined numbers indicate C factors when 2.5 tons of solid manure was applied in the fall after harvest of the previous crop.

TABLE 3 **C FACTORS FOR CROPLAND (Single Year) - MITCHELL (87E) - HIGH YIELDS**

CROP SEQUENCE	CLEAN TILL PLOW		SPRING PLOW	FALL MULCH TILLAGE % COVER AFTER PLANTING							SPRING MULCH TILLAGE % COVER AFTER PLANTING							RIDGE TILL (Cultivated) % COVER AFTER PLANTING							NO-TILL % COVER AFTER PLANTING									STRIP TILL % COVER AFTER PLANTING								
	FALL	SPRING	PLANT	5	10	20	30	40	50	60	5	10	20	30	40	50	60	5	10	20	30	40	50	60	10	20	30	40	50	60	70	80	90.00	10	20	30	40	50	60	70	80.00	90.00
CROP TO BE PLANTED: **GRAIN SORGHUM**																																										
Previous Crop Was:																																										
Alfalfa	.21	.15			.16	.13	.10					.11	.09	.07													.03	.02	.02													
Barley	.19	.17			.12	.09	.07	.06	.05			.11	.09	.07	.05	.04	.03				.06	.05	.04					.03	.02	.02	.02	.01										
Corn	.23	.22			.16	.13	.10	.08	.06			.16	.13	.10	.07	.06					.09	.08						.04	.03	.02	.02	.01				.06	.05	.04	.03			
Corn Silage	.34	.31										.25													.17	.10								.17								
Dry Beans																																										
Flax																																										
Grain Sorghum	.23	.23			.16	.13	.10	.08	.07			.16	.13	.10	.07	.06				.10	.08	.08						.04	.03	.02	.02	.01			.08	.07	.05	.04			
Grain Sorghum Y2																																										
Sorghum Silage	.32	.32			.24							.24							.21							.12	.08														
Millet	.18	.16			.12	.09	.07	.06	.04			.11	.09	.07	.05	.04					.06	.05						.03	.02	.02	.01	.007										
Oats	.24	.21			.15	.12	.09	.07	.06			.15	.11	.09	.06	.05					.08	.07							.03	.03	.02	.01										
Potatoes																																										
Rapeseed																																										
Rye																																										
Safflower	.31	.29			.24							.22													.18	.15	.09															
Sorghum/Sudan	.33	.33			.26							.25							.23						.19	.14																
Soybeans (Narrow row)	.32	.30			.23							.23	.18	.15					.19	.17						.14	.11	.08	.05													
Soybeans (Wide row)	.32	.31			.24							.23	.18	.15					.19	.17						.11	.09	.06	.05					.15	.13	.09						
Spring Wheat	.27	.24			.17	.13	.11	.08				.17	.13	.09	.07	.06					.10	.09						.05	.04	.03	.02										
S. Fallow(G. Sor.)	.38	.38			.27	.22						.27	.22												.17	.11	.08															
Sunflowers	.27	.26			.19							.19	.14						.15							.08		.05	.04													
Winter Wheat	.26	.23			.17	.13	.10	.08	.06			.16	.12	.10	.08	.05	.04				.09	.08						.06	.05	.04	.03	.03				.06	.05	.04			
CROP TO BE PLANTED: ***CULTIVATED GRAIN SORGHUM***																																										
Previous Crop Was:																																										
Barley	*.23*	*.20*		*.15*	*.11*							*.14*	*.11*	*.09*	*.07*	*.06*												*.05*	*.04*	*.03*	*.03*	*.02*										
Corn	*.26*	*.25*		*.18*	*.15*	*.12*	*.10*					*.18*	*.14*	*.12*	*.09*																											
Sunflowers	*.27*	*.26*		*.22*	*.20*						*.21*	*.19*														*.13*	*.11*	*.10*														

NOTE: Y2 The crop to be planted is the 2nd year after alfalfa.

NOTE: .00 Underlined numbers indicate C factors when 2.5 tons of solid manure was applied in the fall after harvest of the previous crop.

TABLE 3 **C FACTORS FOR CROPLAND (Single Year) - MITCHELL (87E) - HIGH YIELDS**

CROP SEQUENCE	CLEAN TILL PLOW		SPRING PLOW	FALL MULCH TILLAGE % COVER AFTER PLANTING							SPRING MULCH TILLAGE % COVER AFTER PLANTING							RIDGE TILL (Cultivated) % COVER AFTER PLANTING							NO-TILL % COVER AFTER PLANTING									STRIP TILL % COVER AFTER PLANTING								
	FALL	SPRING	PLANT	5	10	20	30	40	50	60	5	10	20	30	40	50	60	5	10	20	30	40	50	60	10	20	30	40	50	60	70	80	90.00	10	20	30	40	50	60	70	80.00	90.00
CROP TO BE PLANTED: **SORGHUM (Wide Row) FOR SILAGE**																																											
Previous Crop Was:																																											
Alfalfa																																											
Barley	.23	.20			.14	.11	.09	.07	.05			.14	.11	.08	.06	.04	.04				.08	.07	.06						.03	.02	.02	.01	.008									
Corn	.28	.28			.20	.16	.12	.10				.19	.15	.11	.09	.07					.11	.10						.06	.04	.03	.02											
Corn Silage	.40	.40																							.17																	
Dry Beans																																											
Flax																																											
Grain Sorghum	.27	.26			.19	.16	.13					.19	.15	.12	.10					.14	.12						.07	.06	.04	.03												
Sorghum Silage																																											
Millet																																											
Oats	.29	.25			.19	.14	.11	.08	.07			.18	.14	.11	.08						.11	.09							.04	.03	.03	.01										
Potatoes																																											
Rapeseed																																											
Rye																																											
Safflower																																											
Sorghum/Sudan	.41	.41			.32							.32							.31						.25	.14																
Soybeans (Narrow row)	.38	.36			.29							.28	.22						.25	.22						.18	.13	.09	.07													
Soybeans (Wide row)	.38	.37			.29							.28	.23						.25	.23						.14	.10	.08	.07													
Spring Wheat																																											
S. Fallow (Sor. Sil.)																																											
Sunflowers	.33	.31			.24							.23	.18						.19						.14	.12	.08	.06														
Winter Wheat	.27	.24			.17	.13	.11	.08	.07			.17	.13	.10	.08	.06	.05				.10	.09						.06	.05	.04	.03											

NOTE: Y2 The crop to be planted is the 2nd year after alfalfa.

NOTE: .00 Underlined numbers indicate C factors when 2.5 tons of solid manure was applied in the fall after harvest of the previous crop.

TABLE 3 **C FACTORS FOR CROPLAND (Single Year) - MITCHELL (87E) - HIGH YIELDS**

CROP SEQUENCE	CLEAN TILL PLOW		SPRING PLOW	FALL MULCH TILLAGE % COVER AFTER PLANTING							SPRING MULCH TILLAGE % COVER AFTER PLANTING							RIDGE TILL (Cultivated) % COVER AFTER PLANTING							NO-TILL % COVER AFTER PLANTING									STRIP TILL % COVER AFTER PLANTING								
	FALL	SPRING	PLANT	5	10	20	30	40	50	60	5	10	20	30	40	50	60	5	10	20	30	40	50	60	10	20	30	40	50	60	70	80	90.00	10	20	30	40	50	60	70	80.00	90.00
CROP TO BE PLANTED: **MILLET**																																											
Previous Crop Was:																																											
Alfalfa																																											
Barley																																											
Corn	.18	.16			.11	.08	.06	.05	.04			.11	.08	.06	.04	.03										.05	.04	.03	.02	.01	.01											
Corn Silage	.25	.25			.17	.13						.16	.12												.12	.08	.06	.04														
Dry Beans																																											
Flax																																											
Grain Sorghum	.17	.16			.11	.08	.06	.05				.11	.08	.06	.04												.04	.03	.02	.01	.009											
Sorghum Silage																																											
Millet																																											
Oats																																											
Potatoes																																											
Rapeseed																																											
Rye																																											
Safflower	.24	.22			.16	.13																			.12	.08	.07	.04															
Sorghum/Sudan	.25	.24			.17	.13						.15	.12												.13	.09	.07	.03	.03														
Soybeans (Narrow row)																																											
Soybeans (Wide row)																																											
Spring Wheat	.20	.17			.12	.09	.07	.06	.04			.12	.09	.06	.05	.04										.06	.05	.03	.03	.02	.01	.009										
S. Fallow (Barley)	.28	.28			.16	.13						.16	.11													.08	.06	.04	.03	.02	.01											
S. Fallow (Millet)	.31	.30			.20	.13	.09					.18	.12	.08											.13	.10	.06	.05	.03	.02	.01											
S. Fallow (Oats)	.32	.32			.19	.14						.19	.13													.10	.06	.05	.02	.02	.01											
S. Fallow (Sp. Wht.)	.33	.33			.20	.15						.20	.14													.11	.07	.05	.03	.02												
Sunflowers	.21	.19			.13							.11	.09	.07											.08	.06	.04	.03	.02	.01												
Winter Wheat	.17	.15			.10	.08	.06	.05	.04			.10	.08	.06	.04	.03	.02										.03	.03	.02	.02	.008	.006	.005									

NOTE: Y2 The crop to be planted is the 2nd year after alfalfa.

NOTE: .00 Underlined numbers indicate C factors when 2.5 tons of solid manure was applied in the fall after harvest of the previous crop.

TABLE 3 **C FACTORS FOR CROPLAND (Single Year) - MITCHELL (87E) - HIGH YIELDS**

CROP SEQUENCE	CLEAN TILL PLOW		SPRING PLOW	FALL MULCH TILLAGE % COVER AFTER PLANTING							SPRING MULCH TILLAGE % COVER AFTER PLANTING							RIDGE TILL (Cultivated) % COVER AFTER PLANTING							NO-TILL % COVER AFTER PLANTING									STRIP TILL % COVER AFTER PLANTING								
	FALL	SPRING	PLANT	5	10	20	30	40	50	60	5	10	20	30	40	50	60	5	10	20	30	40	50	60	10	20	30	40	50	60	70	80	90.00	10	20	30	40	50	60	70	80.00	90.00
CROP TO BE PLANTED: **OATS**																																											
Previous Crop Was:																																											
Alfalfa																																											
Barley	.06	.04				.03	.02	.02	.01	.01			.03	.02	.02	.01	.009											.008	.007	.006	.005											
Corn	.06	.05			.04	.03	.02	.02	.01	.01		.04	.03	.02	.01	.01	.009										.03	.02	.008	.007	.005	.004										
Corn Silage	.10	.10			.07	.05						.07	.05												.04	.03	.03	.02	.02	.008												
Dry Beans																																											
Flax																																											
Grain Sorghum					.04	.03	.02	.02	.02			.04	.03	.02	.01	.01	.009										.01	.01	.008	.006	.004	.003	.002									
Sorghum Silage	.09	.09			.07	.05	.04					.07	.05	.04												.03	.02	.02	.01	.008	.006											
Millet																																											
Oats	.06	.05																																									
Potatoes																																											
Rapeseed																																											
Rye																																											
Safflower	.09	.08			.06							.05	.04												.04	.03	.03	.02	.01														
Sorghum/Sudan	.08	.07			.06	.04						.05	.04	.03													.02		.008	.007													
Soybeans (Narrow row)	.07	.07			.05	.04						.05	.04	.03	.02											.03	.02	.02	.02	.008	.006	.004										
Soybeans (Wide row)	.07	.07			.06	.04						.06	.04	.03	.02											.03	.02	.02	.01	.008	.006	.004										
Spring Wheat	.09	.07			.05	.04	.03	.03	.02			.05	.04	.03	.02	.02	.02										.02	.02	.01	.01	.007	.005										
S. Fallow (Oats)	.18	.18			.11	.09						.08	.07													.05	.04	.03	.01	.01	.009											
Sunflowers	.07	.06			.05	.04						.04	.03	.02												.02	.02	.01	.01	.005	.004											
Winter Wheat	.08	.06			.05	.04	.03	.03	.02	.02			.03	.03	.02	.02	.01											.01	.01	.01	.007	.005										

NOTE: Y2 The crop to be planted is the 2nd year after alfalfa.

NOTE: .00 Underlined numbers indicate C factors when 2.5 tons of solid manure was applied in the fall after harvest of the previous crop.

TABLE 3 **C FACTORS FOR CROPLAND (Single Year) - MITCHELL (87E) - HIGH YIELDS**

CROP SEQUENCE	CLEAN TILL PLOW		SPRING PLOW	FALL MULCH TILLAGE % COVER AFTER PLANTING							SPRING MULCH TILLAGE % COVER AFTER PLANTING							RIDGE TILL (Cultivated) % COVER AFTER PLANTING							NO-TILL % COVER AFTER PLANTING									STRIP TILL % COVER AFTER PLANTING								
	FALL	SPRING	PLANT	5	10	20	30	40	50	60	5	10	20	30	40	50	60	5	10	20	30	40	50	60	10	20	30	40	50	60	70	80	90.00	10	20	30	40	50	60	70	80.00	90.00
CROP TO BE PLANTED:																																											
SAFFLOWER																																											
Previous Crop Was:																																											
Alfalfa																																											
Barley																																											
Corn	.22	.21			.16	.13	.10					.16	.13	.09	.08											.09	.07	.06	.05	.03	.03											
Corn Silage																																											
Dry Beans																																											
Flax																																											
Grain Sorghum	.21	.21			.16	.13	.10					.15	.11	.10												.09	.08	.07	.06													
Sorghum Silage																																											
Millet	.17	.16			.11	.09	.07	.05				.11	.09	.06	.05												.05	.04	.03	.02	.02											
Oats	.23	.20			.15	.12	.09	.07				.15	.12	.08	.06												.06	.05	.04	.03	.02											
Potatoes																																											
Rapeseed																																											
Rye																																											
Safflower																																											
Sorghum/Sudan	.31	.30			.24							.24													.22																	
Soybeans (Narrow row)																																											
Soybeans (Wide row)																																											
Spring Wheat	.25	.22			.17	.13	.11					.16	.13	.09													.08	.06	.05	.03												
S. Fallow (Safflowers)	.36	.37																							.13																	
Sunflowers																																											
Winter Wheat	.24	.20			.16	.12	.09					.15	.12	.08	.07	.05											.07	.06	.05	.04												

NOTE: Y2 The crop to be planted is the 2nd year after alfalfa.

NOTE: .00 Underlined numbers indicate C factors when 2.5 tons of solid manure was applied in the fall after harvest of the previous crop.

TABLE 3 **C FACTORS FOR CROPLAND (Single Year) - MITCHELL (87E) - HIGH YIELDS**

CROP SEQUENCE	CLEAN TILL PLOW		SPRING PLOW	FALL MULCH TILLAGE % COVER AFTER PLANTING							SPRING MULCH TILLAGE % COVER AFTER PLANTING							RIDGE TILL (Cultivated) % COVER AFTER PLANTING							NO-TILL % COVER AFTER PLANTING									STRIP TILL % COVER AFTER PLANTING								
	FALL	SPRING	PLANT	5	10	20	30	40	50	60	5	10	20	30	40	50	60	5	10	20	30	40	50	60	10	20	30	40	50	60	70	80	90.00	10	20	30	40	50	60	70	80.00	90.00
CROP TO BE PLANTED:																																											
SORGHUM / SUDAN (DRILLED)																																											
Previous Crop Was:																																											
Alfalfa																																											
Barley	.21	.19			.13	.10	.08	.06				.13	.10	.06	.05												.05	.04	.03	.02	.01	.01										
Corn	.25	.24			.17	.13	.11					.16	.11	.09													.07	.06	.05	.04	.03											
Corn Silage	.36	.36		.32							.32														.17																	
Dry Beans																																											
Flax																																											
Grain Sorghum	.25	.23			.17	.13						.17	.12	.10												.10	.07	.06	.03	.03												
Sorghum Silage	.31	.30			.23							.22													.14	.10																
Millet	.20	.18			.12	.09	.07					.12	.09	.06	.05											.06	05	.04	.03	.02	.01	.009										
Oats	.27	.24			.17	.13	.10					.16	.12	.09	.07													.05	.04		.02	.01										
Potatoes																																											
Rapeseed																																											
Rye																																											
Safflower	.34	.33																							.21																	
Sorghum/Sudan	.36	.35		.31							.31														.24																	
Sorghum/Sudan y2																																											
Soybeans (Narrow row)	.35	.33			.25							.24	.20												.21	.16	.12	.08														
Soybeans (Wide row)	.35	.33			.25							.24														.16	.15	.08	.07													
Spring Wheat	.30	.26			.18	.14	.11					.18	.13	.10													.08	.07	.05	.03	.02											
S. Fallow (Barley)	.35	.35			.22	.16						.22	.16													.12	.09	.06	.03	.02	.02											
S. Fallow (Millet)																																											
S. Fallow (Oats)	.39	.39			.25	.18						.23	.18													.14	.09	.07	.04	.03												
S. Fallow (Sor./Sudan)	.43				.29							.29													.22	.12																
S. Fallow (Sp. Wht.)	.40	.40			.26	.19						.26	.19													.13	.11	.06	.04													
Sunflowers	.29	.29		.23								.18													.15	.12	.07															
Winter Wheat	.25	.22			.16	.12	.10	.08	.06			.14	.11	.09	.06	.05											.06	.05	.04		.02	.01										

NOTE: Y2 The crop to be planted is the 2nd year after alfalfa.

NOTE: .00 Underlined numbers indicate C factors when 2.5 tons of solid manure was applied in the fall after harvest of the previous crop.

TABLE 3 **C FACTORS FOR CROPLAND (Single Year) - MITCHELL (87E) - HIGH YIELDS**

CROP SEQUENCE	CLEAN TILL PLOW		SPRING PLOW	FALL MULCH TILLAGE % COVER AFTER PLANTING							SPRING MULCH TILLAGE % COVER AFTER PLANTING							RIDGE TILL (Cultivated) % COVER AFTER PLANTING							NO-TILL % COVER AFTER PLANTING									STRIP TILL % COVER AFTER PLANTING								
	FALL	SPRING	PLANT	5	10	20	30	40	50	60	5	10	20	30	40	50	60	5	10	20	30	40	50	60	10	20	30	40	50	60	70	80	90.00	10	20	30	40	50	60	70	80.00	90.00
CROP TO BE PLANTED:																																											
SOYBEANS (NARROW ROW)																																											
Previous Crop Was:																																											
Alfalfa																																											
Barley	.15	.14			.10	.08	.06	.05	.04			.10	.08	.06	.04	.03	.03											.03	.02	.01	.009	.007										
Corn	.22	.21			.16	.13	.10	.08				.15	.12	.10	.08	.06												.06	.05	.03	.02											
Corn Silage	.29	.28		.25							.25														.13																		
Dry Beans																																											
Flax																																											
Grain Sorghum	.19	.17			.13	.10	.09	.07				.13	.10	.08	.06												.06	.05	.03	.02												
Sorghum Silage	.27	.26			.20							.20													.14	.09																	
Millet																																											
Oats	.19	.17			.13	.10	.08	.06	.05			.13	.10	.08	.06	.05												.04	.03	.02	.02	.01										
Potatoes																																											
Rapeseed																																											
Rye																																											
Safflower																																											
Sorghum/Sudan	.28	.27			.22							.22													.18	.10																	
Soybeans (Narrow row)	.26	.24			.19							.18	.15												.18	.12	.10	.06	.05														
Soybeans (Wide row)	.27	.25			.19								.15														.09	.06															
Spring Wheat	.21	.20			.14	.11	.09	.07				.14	.11	.08	.07													.05	.04	.02	.02											
S. Fallow (Soybeans)																																											
Sunflowers	.23	.21			.16							.14	.12													.09	.06	.04														
Winter Wheat	.21	.18			.13	.10	.08	.07	.05			.13	.10	.08	.06	.05	.04											.05	.04	.03	.03	.02										

NOTE: Y2 The crop to be planted is the 2nd year after alfalfa.

NOTE: .00 Underlined numbers indicate C factors when 2.5 tons of solid manure was applied in the fall after harvest of the previous crop.

TABLE 3 **C FACTORS FOR CROPLAND (Single Year) - MITCHELL (87E) - HIGH YIELDS**

CROP SEQUENCE	CLEAN TILL PLOW		SPRING PLOW	FALL MULCH TILLAGE % COVER AFTER PLANTING							SPRING MULCH TILLAGE % COVER AFTER PLANTING							RIDGE TILL (Cultivated) % COVER AFTER PLANTING							NO-TILL % COVER AFTER PLANTING									STRIP TILL % COVER AFTER PLANTING								
	FALL	SPRING	PLANT	5	10	20	30	40	50	60	5	10	20	30	40	50	60	5	10	20	30	40	50	60	10	20	30	40	50	60	70	80	90.00	10	20	30	40	50	60	70	80.00	90.00
CROP TO BE PLANTED: **SOYBEANS(WIDE ROW)**																																										
Previous Crop Was:																																										
Alfalfa	.21	.14			.16	.13	.11					.11	.09	.07	.06														.02													
Barley	.21	.19			.13	.10	.08	.07	.05			.13	.10	.08	.05	.04	.04				.08	.07	.06								.02	.02					.03	.03	.02			
Corn	.25	.24			.18	.14	.11	.09				.17	.14	.11	.08	.07				.12	.11	.09								.03	.02							.05	.04			
Corn Y2	.24	.22				.13	.11	.09	.07			.16	.13	.10	.08	.06														.02	.02											
Corn Silage	.37	.36		.32	.21	.17	.14				.32	.20	.17	.14				.38			.14				.16																	
Dry Beans																																										
Flax																																										
Grain Sorghum	.24	.23			.18	.14	.12					.17	.14	.11	.09					.13	.12								.04	.03							.06	.05			
Sorghum Silage	.35	.33			.26							.26							.27							.12															
Millet																																										
Oats	.27	.23			.17	.13	.11	.08	.07			.17	.13	.10	.07	.06					.10	.09								.03	.03	.02						.04	.03			
Potatoes																																										
Rapeseed																																										
Rye																																										
Safflower																																										
Sorghum/Sudan	.36	.35			.29							.28								.20						.13																
Soybeans (Narrow row)	.35	.33			.26								.21	.17					.24	.21								.10	.07						.13	.13						
Soybeans (Wide row)	.35	.33			.26								.21	.17					.24									.08	.06							.11						
Soybeans (WR) y2	.33	.29			.24	.21					.25	.23	.18	.15														.06	.05													
Spring Wheat	.29	.26			.19	.15	.12	.10				.19	.15	.11	.09					.14	.12								.05	.04	.02						.06	.05			
S. Fallow (Soybeans)																																										
Sunflowers	.32	.28		.27								.21	.16						.18								.07	.06							.12	.09						
Winter Wheat	.26	.23			.17	.13	.10	.09	.07			.16	.13	.10	.08	.06	.05				.10	.09								.04	.03	.03				.07	.06	.05	.04			
CROP TO BE PLANTED: ***CULTIVATED SOYBEANS (WIDE ROW)***																																										
Previous Crop Was:																																										
Corn	*.25*	*.23*			*.18*	*.14*	*.12*	*.10*				*.17*	*.14*	*.12*	*.10*	*.08*														*.06*	*.05*											
Corn Silage	*.36*	*.36*		*.33*							*.32*														*.28*																	
Soybeans (Wide row)																																										
Spring Wheat	*.30*	*.26*			*.20*	*.16*	*.13*	*.10*				*.19*	*.15*	*.12*	*.09*														*.07*	*.06*	*.04*											

NOTE: Y2 The crop to be planted is the 2nd year after alfalfa.

NOTE: .00 Underlined numbers indicate C factors when 2.5 tons of solid manure was applied in the fall after harvest of the previous crop.

TABLE 3 **C FACTORS FOR CROPLAND (Single Year) - MITCHELL (87E) - HIGH YIELDS**

CROP SEQUENCE	CLEAN TILL PLOW		SPRING PLOW	FALL MULCH TILLAGE % COVER AFTER PLANTING							SPRING MULCH TILLAGE % COVER AFTER PLANTING							RIDGE TILL (Cultivated) % COVER AFTER PLANTING							NO-TILL % COVER AFTER PLANTING									STRIP TILL % COVER AFTER PLANTING								
	FALL	SPRING	PLANT	5	10	20	30	40	50	60	5	10	20	30	40	50	60	5	10	20	30	40	50	60	10	20	30	40	50	60	70	80	90.00	10	20	30	40	50	60	70	80.00	90.00
CROP TO BE PLANTED:																																											
SPRING WHEAT																																											
Previous Crop Was:																																											
Alfalfa	.07	.04			.05	.04	.04					.03	.03														.01	.01	.006													
Barley	.08	.06			.04	.03	.02	.02	.01			.03	.03	.02	.02	.01	.01											.01	.01	.008	.007	.003										
Corn	.08	.07			.05	.04	.03	.03	.02	.02		.05	.04	.03	.02	.02	.01										.02	.01	.01	.009	.007	.004										
Corn Silage	.13	.13			.09	.07	.05					.09	.07	.04	.03										.06	.05	.03	.02														
Dry Beans																																											
Flax																																											
Grain Sorghum	.08	.07			.05	.04	.03	.03	.02			.05	.04	.03	.02	.02											.02	.02.	01	.009	.005	.004										
Sorghum Silage	.12	.12			.09	.07	.05					.09	.06	.05												.05	.03	.03	.01	.01												
Millet	.07	.06			.04	.03	.02	.02	.01	.01		.04	.03	.02	.02	.01	.009										.01	.01	.008	.007	.005	.003	.002									
Oats	.10	.08			.06	.05	.04	.03	.03	.02			.04	.04	.02	.02	.02											.02	.01	.01		.005										
Potatoes																																											
Rapeseed																																											
Rye																																											
Safflower	.12	.11			.08							.07	.06												.06	.05	.04	.02	.02													
Sorghum/Sudan	.10	.10			.07	.06						.07	.05													.04	.03	.02	.01													
Soybeans (Narrow row)	.10	.10			.08	.06						.08	.05	.04	.03												.03	.03	.02	.01	.008											
Soybeans (Wide row)	.10	.10			.08	.05	.04					.06	.05													.04	.03	.02	.02	.01	.008											
Spring Wheat	.11	.09			.07	.05	.04	.04	.03			.06	.05	.04	.03	.02	.02										.03	.02	.02	.02	.007	.007										
Spring Wheat y2																																											
S. Fallow (Barley)	.17	.17			.10	.08	.06					.10	.06	.05												.05	.04	.02	.02	.009	.008											
S. Fallow (Millet)																																											
S. Fallow (Oats)	.20	.20			.12	.09						.11	.08	.06												.06	.04	.03	.02	.01	.01											
S. Fallow (Sp. Wht.)	.23	.23			.15	.10						.11	.10													.07	.05	.03	.02													
Sunflowers	.09	.09			.06	.05						.06	.04	.03												.03	.02	.02		.008												
Watermellons		.16		.13							.12																															
Winter Wheat	.10	.08			.06	.05	.04	.03	.03	.02			.05	.04	.02	.02	.02											.02	.02	.01		.006										

NOTE: Y2 The crop to be planted is the 2nd year after alfalfa.

NOTE: .00 Underlined numbers indicate C factors when 2.5 tons of solid manure was applied in the fall after harvest of the previous crop.

TABLE 3 **C FACTORS FOR CROPLAND (Single Year) - MITCHELL (87E) - HIGH YIELDS**

CROP SEQUENCE	CLEAN TILL PLOW		SPRING PLOW	FALL MULCH TILLAGE % COVER AFTER PLANTING							SPRING MULCH TILLAGE % COVER AFTER PLANTING							RIDGE TILL (Cultivated) % COVER AFTER PLANTING							NO-TILL % COVER AFTER PLANTING									STRIP TILL % COVER AFTER PLANTING								
	FALL	SPRING	PLANT	5	10	20	30	40	50	60	5	10	20	30	40	50	60	5	10	20	30	40	50	60	10	20	30	40	50	60	70	80	90.00	10	20	30	40	50	60	70	80.00	90.00
CROP TO BE PLANTED:																																											
SUMMER FALLOW																																											
Crop before / after:																																											
Alfalfa / WW	.40	.29		.29	.25	.19					.19	.17	.14													.06	.05																
Barley / Barley	.40	.34			.18	.13	.10	.07	.06	.05		.17	.13	.10	.07	.06	.05											.03	.02	.02	.02	.02										
Barley / WW	.35	.30			.15	.11	.08	.06	.05	.04		.11	.09	.07	.06	.04	.04												.02	.02	.01	.01	.007									
Barley / Corn	.44	.38			.20	.15	.12	.08	.06	.05		.17	.13	.10	.08	.06	.05												.02	.02	.01	.01										
Barley / Millet	.36	.32			.16	.12	.09	.07	.05	.04		.13	.10	.08	.07	.05	.04											.03	.02	.02	.02	.01	.008									
Barley / Sorhum Sudan	.46	.40			.21	.16	.13	.09	.07	.06		.18	.14	.11	.09	.07	.06											.04	.03	.03	.02	.02	.01									
Barley / Sp Wht	.36	.31			.16	.12	.09	.06	.05	.04		.13	.10	.08	.07	.05	.04												.02	.02	.02	.02	.009									
Corn / Corn	.58	.54			.32	.28	.20	.16	.12			.25	.21	.17	.14	.12											.05															
Corn / WW	.38	.37			.17	.15	.11	.10	.08	.06		.15	.11	.11	.09	.07	.06											.03	.03													
Corn Silage / Corn Silage	.75	.73			.66	.49	.41	.36				.60	.49	.41	.36										.31																	
Dry Beans / Dry Beans																																											
Flax / Flax																																											
Grain Sorg / Grain Sorg	.58	.53			.33	.29	.20	.17				.27	.26	.20	.16											.08	.07															
Grain Sorg / WW	.37	.36			.18	.14	.12	.10	.09			.16	.14	.12	.10	.07	.06										.04	.04	.03	.02	.02											
Sorg Silage / Sorg Silage																																											
Millet / Millet	.40	.40			.19	.18	.17	.10	.09	.06		.19	.14	.13	.10	.08	.06											.04	.04	.03	.02	.01										
Millet / WW	.31	.28			.13	.10	.07	.06	.06	.05		.11	.08	.07	.06	.06	.05											.02	.02	.02	.02	.01	.007									
Oats / Oats	.51	.42			.24	.18	.13	.10	.08	.08		.23	.17	.13	.10	.08	.07											.04	.03	.03	.03	.02										
Oats / Barley	.40	.34			.17	.13	.10	.07	.06	.06		.14	.11	.08	.07	.06	.05											.02	.02	.02	.02	.01	.01									
Oats / Corn	.54	.46			.26	.20	.14	.11	.09	.08		.23	.17	.13	.11	.09	.08												.03	.03	.02	.02										
Oats / Millet	.44	.39			.21	.15	.12	.09	.07	.06		.17	.13	.10	.09	.07	.06											.03	.03	.03	.02	.01										
Oats / Sorg Sudan	.57	.48			.29	.21	.15	.12	.09	.08		.24	.18	.14	.12	.09	.08											.05	.05	.04	.03	.02										
Oats / Sp. Wht.	.45	.38			.21	.15	.12	.08	.07	.07		.17	.13	.10	.08	.07	.06											.03	.03	.03	.03	.02										
Potatoes / Potatoes																																											
Rapeseed / Rapeseed																																											
Rye / Rye																																											
Safflower / Safflower	.72	.70			.55	.42	.38					.51	.42	.38	.38										.33	.27	.14															
Sorg Sudan / Sorg Sudan	.75				.62	.45	.39	.31				.55	.45	.39	.31										.34																	
Sorg Sudan / WW	.51	.50			.36	.27	.23	.19	.16			.33	.27	.23	.19	.16										.15	.13	.09	.06	.04												
S.beans(NR)/S.beans(NR)																																											
S.beans(WR)/S.beans(WR)																																											
Sp. Wheat / Sp. Wheat	.56	.46			.29	.22	.15	.12	.11	.09		.27	.20	.15	.11	.10												.05	.05	.04	.03											
Sp. Wht. / WW	.46	.39			.22	.16	.12	.10	.09	.07		.18	.14	.11	.09	.08	.07											.04	.04	.04	.02	.01										
Sp. Wht. / Barley	.43	.37			.20	.15	.12	.08	.07	.06		.17	.13	.10	.08	.07	.06											.03	.03	.03	.02	.01										
Sp. Wht. / Corn	.58	.50			.30	.24	.16	.13	.11	.10		.26	.20	.16	.13	.10	.09										.05	.05	.04	.03	.02											
Sp. Wht. / Millet	.48	.42			.24	.18	.13	.10	.09	.07		.20	.15	.12	.10	.08	.07											.04	.04	.04	.02	.02										
Sp. Wht / Sorg Sudan	.62	.55			.33	.25	.18	.14	.12	.10		.28	.22	.18	.14	.12											.08	.07	.05	.04	.03											
Sunflowers / Sunflowers	.67	.63			.48	.35	.28					.41	.34	.28											.15	.12	.09															
W. Wheat / W. Wheat	.48	.39			.23	.17	.15	.11	.07			.19	.14	.11	.09	.07												.03	.03	.02	.02	.01										

NOTE: Crop before / after describes the crop before summer fallow and the crop to be planted after summer fallow.

NOTE: Y2 The crop to be planted is the 2nd year after alfalfa.

NOTE: .00 Underlined numbers indicate C factors when 2.5 tons of solid manure was applied in the fall after harvest of the previous crop.

TABLE 3 **C FACTORS FOR CROPLAND (Single Year) - MITCHELL (87E) - HIGH YIELDS**

CROP SEQUENCE	CLEAN TILL PLOW		SPRING PLOW	FALL MULCH TILLAGE % COVER AFTER PLANTING							SPRING MULCH TILLAGE % COVER AFTER PLANTING							RIDGE TILL (Cultivated) % COVER AFTER PLANTING							NO-TILL % COVER AFTER PLANTING									STRIP TILL % COVER AFTER PLANTING								
	FALL	SPRING	PLANT	5	10	20	30	40	50	60	5	10	20	30	40	50	60	5	10	20	30	40	50	60	10	20	30	40	50	60	70	80	90.00	10	20	30	40	50	60	70	80.00	90.00
CROP TO BE PLANTED: **SUNFLOWERS**																																										
Previous Crop Was:																																										
Alfalfa																																										
Barley	.24	.21			.15	.12	.09	.07	.06			.14	.11	.09	.06	.05					.08	.07							.03	.03	.02	.02										
Corn	.31	.30			.21	.16	.13	.11				.20	.16	.12	.09					.14	.12	.11						.06	.05	.03	.02					.08	.07	.05				
Corn Silage	.43	.43		.38							.37							.39							.19																	
Dry Beans																																										
Flax																																										
Grain Sorghum	.30	.29			.21	.17	.14					.21	.16	.13					.15									.05	.04						.11	.09	.06					
Sorghum Silage	42	.40			.31							.30							.30						.20	.13																
Millet	.23	.21			.15	.12	.09	.07				.14	.11	.08	.06	.05				.10	.08	.07					.06	.05	.04	.02	.02	.01										
Oats	.30	.27			.19	.15	.12	.10				.19	.14	.11	.08	.06					.11	.10						.06	.04	.03	.03	.02										
Potatoes																																										
Rapeseed																																										
Rye																																										
Safflower																																										
Sorghum/Sudan	.43	.42			.33							.32						.35																								
Soybeans (Narrow row)	.42	.38			.30							.29	.23						.27						.22	.18	.14	.11														
Soybeans (Wide row)	.42	.39			.29							.29	.23															.08						.21	.14	.12						
Spring Wheat	.32	.29				.17	.14	.11				.20	.16	.12	.09					.15	.13							.07	.05	.04	.02										
S. Fallow (Sunflowers)	.49	.49									.40														.18																	
Sunflowers					.22	.17													.27																							
Winter Wheat	.33	.29			.20	.16	.12	.10				.19	.15	.12	.09	.07	.06				.11	.10								.04	.04					.09	.07	.05	.05		
CROP TO BE PLANTED: ***CULTIVATED SUNFLOWERS***																																										
Previous Crop Was:																																										
Corn	*.31*	*.29*			*.21*	*.17*	*.14*	*.11*				*.20*	*.16*	*.12*	*.10*													*.09*	*.07*	*.06*	*.05*										
Grain Sorghum	*.30*	*.29*		*.22*	*.21*	*.17*	*.14*					*.21*	*.17*	*.14*														*.10*	*.08*													
Spring Wheat	*.33*	*.30*			*.22*	*.17*	*.15*	*.11*				*.21*	*.17*	*.13*	*.11*													*.08*	*.07*	*.05*	*.04*										

NOTE: Y2 The crop to be planted is the 2nd year after alfalfa.

NOTE: .00 Underlined numbers indicate C factors when 2.5 tons of solid manure was applied in the fall after harvest of the previous crop.

TABLE 3 **C FACTORS FOR CROPLAND (Single Year) - MITCHELL (87E) - HIGH YIELDS**

CROP SEQUENCE	CLEAN TILL PLOW		SPRING PLOW	FALL MULCH TILLAGE % COVER AFTER PLANTING							SPRING MULCH TILLAGE % COVER AFTER PLANTING							RIDGE TILL (Cultivated) % COVER AFTER PLANTING							NO-TILL % COVER AFTER PLANTING									STRIP TILL % COVER AFTER PLANTING								
	FALL	SPRING	PLANT	5	10	20	30	40	50	60	5	10	20	30	40	50	60	5	10	20	30	40	50	60	10	20	30	40	50	60	70	80	90.00	10	20	30	40	50	60	70	80.00	90.00
CROP TO BE PLANTED: **WATERMELLONS**																																											
Previous Crop Was:																																											
Alfalfa		.13		.16	.14	.11						.09	.07																													
Corn		.21		.17	.15							.14	.11																													
Spring Wheat		.23			.17	.13						.16	.12																													
Watermellons		.41		.37							.37																															
Watermellons Y2		.35		.32							.30																															

NOTE: Y2 The crop to be planted is the 2nd year after alfalfa.

NOTE: .00 Underlined numbers indicate C factors when 2.5 tons of solid manure was applied in the fall after harvest of the previous crop.

TABLE 3 **C FACTORS FOR CROPLAND (Single Year) - MITCHELL (87E) - HIGH YIELDS**

CROP SEQUENCE	CLEAN TILL PLOW		SPRING PLOW	FALL MULCH TILLAGE % COVER AFTER PLANTING							SPRING MULCH TILLAGE % COVER AFTER PLANTING							RIDGE TILL (Cultivated) % COVER AFTER PLANTING							NO-TILL % COVER AFTER PLANTING									STRIP TILL % COVER AFTER PLANTING								
	FALL	SPRING	PLANT	5	10	20	30	40	50	60	5	10	20	30	40	50	60	5	10	20	30	40	50	60	10	20	30	40	50	60	70	80	90.00	10	20	30	40	50	60	70	80.00	90.00
CROP TO BE PLANTED:																																											
WINTER WHEAT																																											
Previous Crop Was:																																											
Alfalfa																																											
Barley	.05				.03	.02	.02	.01	.01	.008																		.005	.004	.003	.003	.001										
Corn Silage																																											
Dry Beans																																											
Flax																																											
Sorghum Silage																																											
Millet	.04					.02	.02	.01	.009	.007																	.008	.006	.005	.003	.003	.002	.001									
Oats	.06					.03	.02	.02	.01	.01																		.008	.007	.005	.004											
Rapeseed																																											
Rye																																											
Sorghum/Sudan	.08				.06	.04	.03																			.03	.02	.02		.006	.005											
Soybeans (Narrow row)																												.02	.01	.01												
Spring Wheat	.07				.04	.03	.03	.02	.02	.01																		.01	.008	.007	.005	.003										
S. Fallow (Alfalfa)	.16	.14		.13	.11						.11	.10													.07	.04	.03															
S. Fallow (Barley)	.11				.06	.05	.04	.03																		.03	.02	.02	.01	.01	.004	.003										
S. Fallow (Corn)	.15				.10	.07	.05	.04																		.05	.04	.02	.01	.01												
S. Fallow (Corn Sil.)																																											
S. Fallow (G. Sorgh.)	.14				.11	.07	.05	.04																	.06	.05	.03	.02	.02	.01												
S. Fallow (Millet)	.11				.07	.05	.04	.03	.02																	.03	.03	.02	.01	.006	.005	.004										
S. Fallow (Sor/Sudan)	.16				.10	.08	.06																		.08	.06	.03	.02	.02													
S. Fallow (Soybeans)																																											
S. Fallow (Sp. Wht)	.14				.08	.06	.05	.03																		.04	.03	.02	.01	.008	.006	.006										
S. Fallow (Sunflowers)																																											
S. Fallow (W. Wht.)	.14				.08	.06	.05																			.04	.03	.02	.01	.008	.006											
Winter Wheat	.06				.04	.03	.02	.01	.01																		.01	.009	.008	.006	.005	.004	.002									
Winter Wheat y2																																											