

TECHNICAL GUIDE
ZONE 100A

SECTION I-C
Statewide
WATER 31A.3T

CROP SEQUENCE	FALL MULCH TILLAGE										NO - TILLAGE				
	PLOW		*SPRING MULCH TILLAGE								% cover				
	FP	SP	<10	10	20	30	40	50	60	<10%	10	20	30	40	
ALFALFA															
3 ton															
AFTER: seeding	0.16	0.08	0.12												
Alfalfa			.08*							0.02	-	-	-	-	
y 2	0.028	0.025	0.011											0.009	
y 3	0.013	0.013	0.011											0.006	
y 4	0.008	0.008	0.005											0.004	
y 5	0.006	0.006	--												
Corn, grain	0.19	0.11	0.16	0.13	-										
100 bu			.13*	.12*	.10*					-	0.12	0.09	0.07	-	
Corn, Silage	0.28	0.27	0.31							0.15	0.17	-	-	-	
			.27*							-	-	-	-	-	
Oats	0.4	0.37	0.19	0.16						-	-	-	-	-	
			.17*	.14*						0.03	0.02	-	-	-	
Rye 40 bu	0.23	0.18	0.15	0.13	0.1					-	-	-	-	-	
										0.02	0.02	-	-	-	

FP - Fall Plow SP - Spring plow
 Fall mulch tillage top number
 *Spring mulch tillage bottom number
 % cover- per cent residue cover immediately after planting
 y 1 - One year after alfalfa or meadow

SINGLE YEAR 'C' VALUE

ZONE 100A

TECHNICAL GUIDE
SECTION I-C
Statewide
WATER-31BR.45

CROP SEQUENCE

CROP SEQUENCE	PLOW TILLAGE		FALL MULCH TILLAGE *SPRING MULCH TILLAGE % cover							RIDGE TILL	NO - TILLAGE % cover					
	FP	SP	<10	10	20	30	40	50	60	% cover	<10	10	20	30	40	
BARLEY, spring																
45 BU																
=====																
AFTER:																
Corn, Silage 16 TON	0.21	0.21	0.18	*							*	*	0.07	0.05	*	
			.17*	.14*							*	*	*	*	*	
Oats	0.17	0.14			0.09	0.07	0.05	0.03			*	*	*	*	*	
					.08*	.06*	.05*	.04*			*	*	0.015	0.013		
Potatoes after BRx	0.15	0.13	0.14													
			.13*													
Potatoes 200 cwt.	0.24	0.24	0.23								0.18					
			.22*								-					
Red Clover	0.06	0.03	0.05	0.04	-						-	-	-	-	-	
			0.03	0.03	0.02						0.007	0.005	-	-	-	

FP - Fall Plow SP - Spring plow
 Fall mulch tillage top number
 *Spring mulch tillage bottom number
 % cover- per cent residue cover immediately after planting
 y 1 - One year after alfalfa or meadow

SINGLE YEAR 'C' VALUE

ZONE 100A

TECHNICAL GUIDE
SECTION I-C
Statewide
WATER-31BR.60

CROP SEQUENCE

CROP SEQUENCE	PLOW TILLAGE		FALL MULCH TILLAGE *SPRING MULCH TILLAGE							RIDGE TILL	NO - TILLAGE								
	FP	SP	% cover							% cover	% cover								
			0	10	20	30	40	50	60		<10	10	20	30	40				
BARLEY, spring																			
60 bu																			
=====																			
AFTER:																			
Alfalfa	0.06	0.03		0.04	-														
				-	.02*														
Barley																			
Corn, grain	0.09	0.07			-	0.04	0.03	-	-										
					.04*	.03*	.03*	.02*	.01*										
Corn, Silage	0.16	0.16	0.15	0.12															
			.13*	.10*	.08*														
Oats	0.13	0.11		-	0.07	0.05	0.04	0.03											
				-	.06*	.05*	.04*	.03*											
Potatoes after BRx	0.15	0.13	0.14																
			.12*																
Potatoes after BR	0.19	0.19	0.17																
			.17*																
Red Clover	0.05	0.03	-	0.04															
			-	.02*															

FP - Fall Plow SP - Spring plow

Fall mulch tillage top number

*Spring mulch tillage bottom number

% cover- per cent residue cover immediately after planting

y 1 - One year after alfalfa or meadow

SINGLE YEAR 'C' VALUE

ZONE 100A

TECHNICAL GUIDE
SECTION I-C
Statewide
WATER-31CG.100

CROP SEQUENCE

CORN, GRAIN	PLOW TILLAGE		FALL MULCH TILLAGE *SPRING MULCH TILLAGE % cover								RIDGE TILL	NO - TILLAGE % cover				
	FP	SP	<10	10	20	30	40	50	60	% cover	<10	10	20	30	40	
100 bu.																

AFTER:																
Alfalfa	0.19	0.12	0.18	0.16							-	0.16	0.14			
			.13*	.12*							-	-	-			
Barley	0.21	0.18				0.09	0.07				-	-	-	-		
						.08*	.05*				-	-	-	0.008		
Corn, grain	0.27	0.24	-	0.18	0.16	0.13	0.1				-	-	-	-	-	60%-.04
			.19*	.16*	.13*	.11*	.09*	.07*	.06*		-	0.04	0.03	0.02		
Corn, Silage	0.38	0.37	0.34								-	0.17	0.15	-	-	
			.31*	.27*							-	-	-	-	-	
Oats	0.34	0.26		0.17	0.13	0.1					-	-	-	-	-	
				.18*	.14*	.12*					-	-	-	0.02	-	

FP - Fall Plow SP - Spring plow
 Fall mulch tillage top number
 *Spring mulch tillage bottom number
 % cover- per cent residue cover immediately after planting
 y 1 - One year after alfalfa or meadow

SINGLE YEAR 'C' VALUE
ZONE 100A

TECHNICAL GUIDE
SECTION I-C
Statewide
WATER-31CG2X.80

CROP SEQUENCE

CROP SEQUENCE	SPRING MULCH TILLAGE										RIDGE TILL	NO - TILLAGE				
	PLOW TILLAGE		% cover								% cover	% cover				
	FP	SP	<10	10	20	30	40	50	60	% cover	<10	10	20	30	40	
Corn, Grain X 80 bu																
=====																
AFTER:																
Corn, Grain X 80 bu		0.26				-	0.12	0.11	-			-	-	-	-	-
Corn, Silage X 13 ton		0.36		-	0.23	0.21	0.16	0.13	-			-	-	-	-	-
Corn, Silage X 16 ton		0.35		-	0.22	0.21	0.16	0.12	-			-	-	-	-	-
Corn, Silage X 20 ton		0.33		-	0.21	0.19	0.15	0.12	-			-	-	-	-	-

FP - Fall Plow SP - Spring plow
C - Cover- per cent residue cover immediately after planting
% cover- per cent residue cover immediately after planting
y 1 - One year after alfalfa or meadow
X - Rye cover crop

SINGLE YEAR 'C' VALUE

ZONE 100A

TECHNICAL GUIDE
SECTION I-C
Statewide
WATER-31

CROP SEQUENCE

CORN GRAIN	PLOW TILLAGE		FALL MULCH TILLAGE *SPRING MULCH TILLAGE % cover							RIDGE TILL	NO - TILLAGE % cover				
	FP	SP	<10	10	20	30	40	50	60	% cover	<10	10	20	30	40
65 bu															
AFTER:															
Alfalfa															
Barley															
Corn, grain															
Corn, Silage															
Oats 30 bu		0.39			0.24	0.2					-	-	-	-	-
Potaotes											0.08	0.06	-	-	-
Red Clover															
Wheat															

FP - Fall Plow SP - Spring plow
 Fall mulch tillage top number
 *Spring mulch tillage bottom number
 % cover- per cent residue cover immediately after planting
 y 1 - One year after alfalfa or meadow

SINGLE YEAR 'C' VALUE

ZONE 100A

TECHNICAL GUIDE
SECTION I-C
Statewide
WATER-31CG.80

CROP SEQUENCE

CORN, GRAIN YIELD	PLOW TILLAGE		FALL MULCH TILLAGE *SPRING MULCH TILLAGE % cover							RIDGE TILL	NO - TILLAGE % cover					
	FP	SP	<10	10	20	30	40	50	60	% cover	<10	10	20	30	40	
AFTER:																
Alfalfa	0.21		0.2	0.19							-	0.18	0.16	-	-	
			.15*	.14*							-	-	-	-	-	
Corn, Grain 80 bu	0.33	0.3	-	0.23	0.19	0.16	0.12	0.1			-	-	-			
			.24*	.21*	.18*	.15*	.12*	.10*			0.05	0.04	0.03			
Corn, silage 13 ton	0.43	0.43	0.4								-	0.21				
			.34*								-	-				
Oats	0.41	0.32		0.2	0.15	0.12					*	*	*			
				.23*	.19*						0.06	0.05	0.04			

FP - Fall Plow SP - Spring plow
 Fall mulch tillage top number
 *Spring mulch tillage bottom number
 % cover- per cent residue cover immediately after planting
 y 1 - One year after alfalfa or meadow

SINGLE YEAR 'C' VALUE
ZONE 100A

TECHNICAL GUIDE
SECTION I-C
Statewide
WATER-31CGX.100

CROP SEQUENCE

CROP SEQUENCE	PLOW TILLAGE		SPRING MULCH TILLAGE							RIDGE TILL	NO - TILLAGE						
	FP	SP	% cover							% cover	% cover						
			<10	10	20	30	40	50	60		<10	10	20	30	40		
100 bu																	
=====																	
AFTER:																	
Corn, Grain X 100 bu		0.21			-	0.11	0.08	-									
Corn, Silage X 13 ton		0.33		-	0.21	0.18	0.15	0.13	-								
Corn, Silage X 16 ton		0.32		-	0.2	0.17	0.14	0.12	-								
Corn, Silage X 20 ton		0.3		-	0.19	0.16	0.13	0.11	-								

FP - Fall Plow SP - Spring plow
C - Cover- per cent residue cover immediately after planting
% cover- per cent residue cover immediately after planting
y 1 - One year after alfalfa or meadow
X - Rye cover crop

SINGLE YEAR 'C' VALUE
ZONE 100A

TECHNICAL GUIDE
SECTION I-C
Statewide
WATER-31CGX.80

CROP SEQUENCE

CROP SEQUENCE	PLOW TILLAGE		SPRING MULCH TILLAGE						RIDGE TILL	NO - TILLAGE					
	FP	SP	<10	10	20	30	40	50	60	% cover	<10	10	20	30	40
Corn, Grain 80 bu															
=====															
AFTER:															
Corn, Grain X 80 bu		0.26				-	0.14	0.11	-						
Corn, Silage X 13 ton		0.37		-	0.25	0.23	0.17	0.15	-						
Corn, Silage X 16 ton		0.36		-	0.24	0.22	0.17	0.15	-						
Corn, Silage X 20 ton		0.34		-	0.22	0.2	0.16	0.14	-						

FP - Fall Plow SP - Spring plow
C - Cover- per cent residue cover immediately after planting
% cover- per cent residue cover immediately after planting
y 1 - One year after alfalfa or meadow
X - Rye cover crop

SINGLE YEAR 'C' VALUE

ZONE 100A

TECHNICAL GUIDE
SECTION I-C
Statewide
WATER-31CS.13

CROP SEQUENCE

CORN, SILAGE	PLOW		FALL MULCH TILLAGE							RIDGE	NO - TILLAGE				
	TILLAGE		*SPRING MULCH TILLAGE							TILL	% cover				
	FP	SP	<10	10	20	30	40	50	60	% cover	<10	10	20	30	40
13 TON															
AFTER:															
Alfalfa	0.24	0.31	0.23 .28*	0.2 .26*							*	*	*	*	0.04
Barley 35 bu	0.36	0.31		0.19 .19*	0.15 .14*	*					*	*	*		
Corn, grain 80 bu.	0.37	0.34	0.27 -	0.26 -	0.21 -	-	-	-	-		-	-	-	-	0.09
Corn, Silage 13 ton	0.46	0.49	0.45 .47*							0% - 0.46	0.2	0.19			
Corn, Silage y3 13 ton	0.49	0.51	0.48 .48*								0.27	*			
Oats	0.45	0.39		0.31 .23*	0.25 .19*	0.2					*	*	*	*	0.11
Rye 20 bu	0.37			0.31	0.26									-	0.08
Wheat	0.37	0.33			0.21 .19*	0.16 .15*	0.13 .13*				*	*	*		

FP - Fall Plow SP - Spring plow
 Fall mulch tillage top number
 *Spring mulch tillage bottom number
 % cover- per cent residue cover immediately after planting
 y 1 - One year after alfalfa or meadow

SINGLE YEAR 'C' VALUE

ZONE 100A

TECHNICAL GUIDE
SECTION I-C
Statewide
WATER-31CS.16

CROP SEQUENCE

CORN, SILAGE 16 ton	PLOW TILLAGE		FALL MULCH TILLAGE *SPRING MULCH TILLAGE % cover								RIDGE TILL % cover	NO - TILLAGE % cover				
	FP	SP	<10	10	20	30	40	50	60	%	<10	10	20	30	40	
																50
AFTER:																
Alfalfa	0.23	0.31	0.2 .26*								-	-	-	-	-	
Barley 45 bu	0.32	0.28			0.17 .16*	0.14 .12*	0.11 .10*				-	-	0.04	0.03	0.02	
Corn, grain 80 bu	0.31	0.28		0.21	0.17		-	-	.11*	.09*	.07*					
Corn, silage y2	0.42	0.46	0.4 .43*								0% - 0.42	0.17	-			
Corn, silage y3	0.45	0.47	0.43 .46*								0% - 0.24	0.24	-			
Oats	0.38	0.33		-	0.21 .19*	0.16 .15*	-	.12*				-	-	-	-	
Rye	0.3				0.19	0.15						-	-			
Wheat	0.3	0.27		-	0.16 .16*	0.13 .12*	0.1	.10*				-	-	-	0.03	

FP - Fall Plow SP - Spring plow
 Fall mulch tillage top number
 *Spring mulch tillage bottom number
 % cover- per cent residue cover immediately after planting
 y 1 - One year after alfalfa or meadow

SINGLE YEAR 'C' VALUE

ZONE 100A

TECHNICAL GUIDE
SECTION I-C
Statewide
WATER-31CS.20

CROP SEQUENCE

CORN, SILAGE	PLOW TILLAGE		FALL MULCH TILLAGE *SPRING MULCH TILLAGE % cover								RIDGE TILL		NO - TILLAGE % cover				
	FP	SP	<10	10	20	30	40	50	60	cover	C	<10	10	20	30	40	
																	50
AFTER:												*	*	*	*	0.03	
Alfalfa	0.2	0.31	0.18 .28*	0.16 .26*								0.02	*	*	*	*	
Barley 60 bu	0.25	0.21			0.13 .12*	0.1 .09*	0.08 .08*	*				*	*	*	*		
Corn, grain 100 bu	0.26	0.24		0.17 -	0.14 -	-	-	-	-			-	-	-	-	-	
Corn, Silage 20 ton	y2 0.36	0.41	0.34 .39*									0.15 *	0.14 *				
Corn, Silage y3	0.38	0.39	0.37 .36*								0% -	0.35	0.19	*			
Oats 50 bu	0.32	0.27			0.17 .15*	0.14 .12*	0.11 .10*					*	*	*	*	*	
Rye 40 bu	0.26	0.23			0.14 .13*	0.11 .10*	0.09 .07*					-	-	-	-	-	
Wheat	0.26	0.23			0.14 .13*	0.11 .10*	0.08 .07*					*	*	*	*	*	

FP - Fall Plow SP - Spring plow
 Fall mulch tillage top number
 *Spring mulch tillage bottom number
 % cover- per cent residue cover immediately after planting
 y 1 - One year after alfalfa or meadow

SINGLE YEAR 'C' VALUE

ZONE 100A

TECHNICAL GUIDE
SECTION I-C
Statewide
WATER-31OT.50

CROP SEQUENCE

CROP SEQUENCE	PLOW TILLAGE		FALL MULCH TILLAGE *SPRING MULCH TILLAGE % cover							RIDGE TILL % cover	NO - TILLAGE % cover				
	FP	SP	<10	10	20	30	40	50	60	<10	10	20	30	40	
OAT															
50 bu															

AFTER:															
Alfalfa	0.32	0.31	0.1 .06*	- .04*							- 0.009	- 0.007	-	-	
Barley	0.13	0.11		0.08 .07*	0.07 .05*	0.05 .04*	0.04 .03*				-	-	-	-	
Corn, grain	0.14	0.12		- .06*	0.07 .05*	0.06 .04*	0.04 .03*	-			-	-	-	-	
Corn, Silage	0.21	0.2	0.18 .20*	- .17*							-	-	0.07	0.06	
Potatoes	0.24	0.24	0.22 .16*								0.12	-			

FP - Fall Plow SP - Spring plow
Fall mulch tillage top number
*Spring mulch tillage bottom number
% cover- per cent residue cover immediately after planting
y 1 - One year after alfalfa or meadow

CROP SEQUENCE	PLOW		FALL MULCH TILLAGE							RIDGE	STRIP - TILLAGE					
	TILLAGE		*SPRING MULCH TILLAGE							TILL	% cover					
	FP	SP	<10	10	20	30	40	50	60	% cover	<10	10	20	30	40	
POTATO																
320 cwt																

AFTER:																
Barley	0.26	0.18		0.16	0.12	0.09					-	-	-	0.07	0.05	
				.15*	.11*	.09*					0.04	-	-	-	-	
Oats	0.33	0.27		0.21	0.15						-	-	-	-	0.06	
				.13*							-	-	-	-	-	
Red Clover	0.2	0.14	0.15	0.14	0.11						-	-	0.06			
			.12*	.11*	.08*						-	-	-			
Rye	0.27		0.23	0.19							-	-	0.13	0.11	-	
											-	-	-	-	-	
Wheat	0.27	0.23	0.22	0.17	-	-					-	-	0.12	0.1	-	
				.16*	.13*	.10*					-	-	-	-	-	

FP - Fall Plow SP - Spring plow
 Fall mulch tillage top number
 *Spring mulch tillage bottom number
 % cover- per cent residue cover immediately after planting
 y 1 - One year after alfalfa or meadow

SINGLE YEAR 'C' VALUE

ZONE 100A

TECHNICAL GUIDE
SECTION I-C
Statewide
WATER-31PO.450

CROP SEQUENCE

CROP SEQUENCE	PLOW TILLAGE		FALL MULCH TILLAGE *SPRING MULCH TILLAGE % cover						RIDGE TILL	NO - TILLAGE % cover					
	FP	SP	<10	10	20	30	40	50	60	<10	10	20	30	40	
AFTER:															
Barley, spring 80 bu	0.19	0.15		0.11 .10*	0.08 .08*	0.07 .06*					- 0.02	-	-	-	0.03
Oats 60 bu	0.19	0.19		0.16	0.12										
Red Clover	0.18	0.12	0.13 .10*	0.12 .09*	0.09 .07*										
Rye	0.21		0.17	0.14						-	0.09	0.07	-	-	
Wheat	0.23	0.19	0.18	0.14 .13*	- .10*	- .08*				-	0.1	0.08	0.06	-	

FP - Fall Plow SP - Spring plow
 Fall mulch tillage top number
 *Spring mulch tillage bottom number
 % cover- per cent residue cover immediately after planting
 y 1 - One year after alfalfa or meadow

SINGLE YEAR 'C' VALUE

ZONE 100A

TECHNICAL GUIDE
SECTION I-C
Statewide
WATER-31RC.2T

CROP SEQUENCE

RED CLOVER	PLOW		FALL MULCH TILLAGE								RIDGE TILL	NO - TILLAGE				
	FP	SP	*SPRING MULCH TILLAGE									% cover				
2 ton (RC)	FP	SP	0	10	20	30	40	50	60	% cover	<10	10	20	30	40	
AFTER:																
Barley											-	-	-	-	-	
Red Clover											-	-	0.007	0.007	0.001	
Wheat											-	-	-	0.007		

FP - Fall Plow SP - Spring plow
 Fall mulch tillage top number
 *Spring mulch tillage bottom number
 % cover- per cent residue cover immediately after planting
 y 1 - One year after alfalfa or meadow

CROP SEQUENCE	SINGLE YEAR 'C' VALUE													TECHNICAL GUIDE			
	ZONE 100A													SECTION			
														Statewide			
														WATER-31WR.40			
	PLOW		FALL MULCH TILLAGE							RIDGE		NO - TILLAGE					
RYE	TILLAGE		*SPRING MULCH TILLAGE							TILL		% cover					
40 bu	FP	SP	<10	10	20	30	40	50	60	cover	C	<10	10	20	30	40	
AFTER:																	
Alfalfa	0.05	0.05	0.04	0.04								-	-		0.03		
Corn, grain	0.05	-	-	-	0.03	-	-	-				-	-	-	-	-	
Corn, Silage 20 ton	0.07	-	0.06	0.05	-							-	-	0.01	0.01		
Potato	0.08	-	0.07	-								0.06	0.05				
Red Clover																	

FP - Fall Plow SP - Spring plow
 Fall mulch tillage top number
 *Spring mulch tillage bottom number
 % cover- per cent residue cover immediately after planting
 y 1 - One year after alfalfa or meadow

SINGLE YEAR 'C' VALUE

ZONE 100A

TECHNICAL GUIDE
SECTION I-C
Statewide
WATER-31WW.30

CROP SEQUENCE

WHEAT	PLOW TILLAGE		FALL MULCH TILLAGE *SPRING MULCH TILLAGE % cover								RIDGE TILL	NO - TILLAGE % cover				
	FP	SP	<10	10	20	30	40	50	60	% cover	<10	10	20	30	40	
30 bu																
=====																
AFTER:																
Corn, Silage 13 ton	0.12	-	0.11	0.09							-	-	0.05	0.04	-	
Oats																
Potato	0.14	-	0.13													

FP - Fall Plow SP - Spring Plow
 Fall mulch tillage top number
 *Spring mulch tillage bottom number
 % cover- per cent residue cover immediately after planting
 y 1 - One year after alfalfa or meadow

SINGLE YEAR 'C' VALUE

ZONE 100A

TECHNICAL GUIDE
SECTION I-C
Statewide
WATER-31WW.45

CROP SEQUENCE

WHEAT	PLOW		FALL MULCH TILLAGE								RIDGE	NO - TILLAGE				
	FP	SP	*SPRING MULCH TILLAGE								TILL	% cover				
45 bu	FP	SP	<10	10	20	30	40	50	60	% cover	<10	10	20	30	40	
=====																
AFTER:																
Corn, Silage	0.06	-	0.06	0.05							-	0.02	0.02	-	-	
Oats																
Potatoes	0.08	-	0.07													

FP - Fall Plow SP - Spring Plow
 Fall mulch tillage top number
 *Spring mulch tillage bottom number
 % cover- per cent residue cover immediately after planting
 y 1 - One year after alfalfa or meadow

SINGLE YEAR 'C' VALUE
ZONE 100A

TECHNICAL GUIDE
SECTION I-C
Statewide
WATER-31WW.60

CROP SEQUENCE

WHEAT	PLOW TILLAGE	FALL MULCH TILLAGE						RIDGE TILL	% cover	NO - TILLAGE				
		FP	<10	10	20	30	40			50	60	<10	10	20
60 bu	FP	<10	10	20	30	40	50	60		<10	10	20	30	40
=====														
AFTER:														
Corn, Silage	0.05 -	0.04	0.03	0.03						-	-	0.02	0.01	0.008
Oats										-	-	-	-	-
Potato, early 450 cwt	0.06 -	0.05												

FP - Fall Plow SP - Spring Plow
Fall mulch tillage top number
*Spring mulch tillage bottom number
% cover- per cent residue cover immediately after planting
y 1 - One year after alfalfa or meadow

ZONE 100A

TECHNICAL GUIDE
Statewide
WATER-31OT.70

CROP SEQUENCE	PLOW		FALL MULCH TILLAGE							RIDGE TILL	NO - TILLAGE				
	TILLAGE		*SPRING MULCH TILLAGE								% cover				
	FP	SP	<10	10	20	30	40	50	60		<10	10	20	30	40
YIELD 70 bu															
AFTER:															
Alfalfa	0.32	0.31	0.08 .04*												0.007
Barley	0.06	0.05		0.03	0.02	0.02	-	-							
Corn, grain	0.09														
Corn, Silage	0.14	0.14	0.12 .11*	- .09*	- .07*										
Oats		0.07				0.04	0.03	0.02							
Potatoes	0.17	0.17	0.16												

FP - Fall Plow SP - Spring plow
Fall mulch tillage top number
*Spring mulch tillage bottom number
% cover- per cent residue cover immediately after planting
y 1 - One year after alfalfa or meadow

ZONE 100A

TECHNICAL GUIDE
SECTION I-C
Statewide
WATER-31PO.200

CROP SEQUENCE

POTATO YIELD 200 CWT.	PLOW TILLAGE		FALL MULCH TILLAGE *SPRING MULCH TILLAGE % cover							RIDGE TILL % cover	STRIP - TILLAGE % cover				
	FP	SP	<10	10	20	30	40	50	60	<10	10	20	30	40	
			50	60	70	80	90			50	60	70	80	90	
AFTER:															
Barley, spring	0.33	0.28	0.23 .21*	0.21 .20*	0.16 .16*						-	-	-	0.09	0.08
Oats	0.4	0.33	0.28	0.26	0.2										
Red Clover	0.23	0.17	0.18 .14*	0.17 .13*	0.13 .10*										
Rye 30 bu	0.35		0.3	0.25							-	-	0.18	-	-
Wheat 40 bu	0.32	0.28	0.26 -	0.21 .21*	- .17*						-	-	0.16	0.13	-

FP - Fall Plow SP - Spring plow
 Fall mulch tillage top number
 *Spring mulch tillage bottom number
 % cover- per cent residue cover immediately after planting
 y 1 - One year after alfalfa or meadow

ZONE 102A

SECTION I-C

State-wide

Water-32A.3T

SINGLE YEAR 'C' VALUE

CROP SEQUENCE

CROP SEQUENCE	PLOW TILLAGE		FALL MULCH TILLAGE * SPRING MULCH TILLAGE % cover							RIDGE TILL % cover	NO - TILLAGE % cover				
	FP	SP	<10	10	20	30	40	50	60	<10	10	20	30	40	
										50	60	70	80	90	
AFTER: seed ing	0.09	0.06	0.14		0.13	0.12					-	*	*	*	0.03
				.05*	.04*						0.02	0.02	*	*	*
Alfalfa y 2	0.04	0.03	0.04	0.03	0.02	0.02					*	*	*		0.008
Alfalfa y 3	0.01	0.01	0.01	0.01	0.01	0.01					*	*	*		0.005
Alfalfa y 4	0.008	0.008	0.008	0.008	0.008	0.008									0.004
Alfalfa y 5	0.006	0.006	0.006	0.006	0.006	0.006									0.004
Corn, Grain 100 bu	0.13	0.13													
Corn, Silage 20 ton	0.29	0.29		0.28							0.21				
				.27*							*				
Dry beans	0.12			0.09	0.06						*	*	0.04	0.03	0.02
Oats 50 bu	0.2	0.14	0.18	0.14	0.09	0.07					*	0.01			
											*	*			

FP - Fall Plow

SP - Spring Plow

* Fall mulch tillage top number. Spring mulch tillage bottom number

% cover - per cent residue cover immediately after planting

C - Cover Management Factor for a single year in a 2 year rotation

y-1 one year after alfalfa or meadow

ZONE 102A

TECHNICAL GUIDE
SECTION I-C
State-wide
WATER-32CG.100

SINGLE YEAR 'C' VALUE

CROP SEQUENCE	PLOW TILLAGE		FALL MULCH TILLAGE * SPRING MULCH TILLAGE % cover							RIDGE TILL %		NO - TILLAGE % cover					STRIP TILL
	FP	SP	<10	10	20	30	40	50	60	COVER C	<10	10	20	30	40		
100 bu																	
=====																	
AFTER:																	
Alfalfa	1	0.18	0.15	0.17	0.16										0.08	-	
	2	0.25	0.21	.12*	.12*	.10*	0.16	0.14	0.11								
Corn, Grain 80 bu.		0.26	0.22	0.2	0.19	0.16	0.14	0.12	*	30% - 0.12	-	-	-	-	-	50%-.06	
					-	.15*	.13*	.11*	.08*	40% - 0.1	-	0.03	0.02	0.01	-	60%-.05	
Corn, Silage 20 ton		0.39	0.38	0.37	-					2% - 0.33	-	0.15	0.11			10%-.18	
				.35*	.29*						-	-	-			15%-.16	
Oats 50 bu		0.32	0.24		0.16	0.12	0.1				-	-	-	-			
					.17*	.14*	.10*				-	0.04	0.03	0.02			
Potato, early 320 cwt.		0.48		0.4	-												
				.38*	-												

FP - Fall Plow SP - Spring Plow
C - Cover Management Factor for a single year in a 2 year rotation
y -1 one year after alfalfa or meadow

ZONE 102A

TECHNICAL GUIDE
SECTION I-C
State-wide
WATER-32CG.125

SINGLE YEAR 'C' VALUE

CROP SEQUENCE	PLOW TILLAGE		FALL MULCH TILLAGE * SPRING MULCH TILLAGE % cover								RIDGE TILL %		NO - TILLAGE % cover					STRIP TILL
	FP	SP	<10	10	20	30	40	50	60	COVER	C	<10	10	20	30	40		
												50	60	70	80	90		
=====																		
AFTER:																		
Alfalfa	1	0.16	0.13	0.15	0.14										0.07			
				.11*	.10*	.09*												
	2	0.21	0.17		0.13	0.11	0.09											
					.12*	.09*	.08*	.07*						0.03	0.02			
Corn, Grain 125 bu		0.21	0.17	0.16	0.15	0.12	0.11	0.09	*	*	40% - 0.08	-	-	-	-	-	60%-.03	
				-	.12*	.10*	.09*	.07*	.05*	50% - 0.07	-	0.03	0.02	0.01	-	-	70%-.02	
Corn, Silage 25 ton		0.33	0.32	0.31	-						2% - 0.26	-	-	0.09	0.07		10%-.14	
				.29*	.22*							-	-	-	-	-	20%-.12	
Oats 70 bu		0.23	0.17		0.11	0.09	0.07	0.06										
					.12*	.10*	.08*	.06*						0.02	0.02			
Potato, early 450 cwt.				0.34	-													
				.31*	-													

FP - Fall Plow SP - Spring Plow
C - Cover Management Factor for a single year in a 2 year rotation
y -1 one year after alfalfa or meadow

ZONE 102A

TECHNICAL GUIDE
SECTION I-C
State-wide
WATER-32CG.80

SINGLE YEAR 'C' VALUE

CROP SEQUENCE

CORN GRAIN	PLOW TILLAGE		FALL MULCH TILLAGE * SPRING MULCH TILLAGE % cover							RIDGE TILL	NO - TILLAGE % cover					STRIP TILL
	FP	SP	<10	10	20	30	40	50	60	% COVER	C	<10	10	20	30	40
			50	60	70	80	90									
80bu																
=====																
AFTER:																
Alfalfa	1	0.21	0.17	0.19	0.18							-	-	-	0.09	-
				.15*	.14*							-	-	-	-	-
	2	0.31	0.26	0.2	0.18	0.2	0.17					-	-	-	-	-
						.19*	.16*	.13*				0.08	0.07	0.06		
Corn, Grain 80 bu.		0.32	0.28	0.26	0.24	0.19	0.18	*	*			30% - 0.16	-	-	-	-
				-	.17*	.16*	.13*	.11*				40% - 0.14	-	0.04	0.03	-
Corn, Silage 16 ton		0.46	0.45	0.44	-							0% - 0.4	0.17	0.14	-	-
				.39*	.34*							-	-			10% - .22
Oats 40 bu		0.38	0.29		0.2	0.15	0.13					-	-			
					.21*	.16*	.14*					0.06	0.05			
Potato, early 200 cwt.				0.48	-											
				.46*	-											

FP - Fall Plow SP - Spring Plow
C - Cover Management Factor for a single year in a 2 year rotation
y -1 one year after alfalfa or meadow

ZONE 102A

TECHNICAL GUIDE
SECTION I-C
State-wide
Water-32CGX100

SINGLE YEAR 'C' VALUE

CROP SEQUENCE

CROP SEQUENCE	PLOW TILLAGE		SPRING MULCH TILLAGE							RIDGE TILL	NO - TILLAGE							
	FP	SP	% cover							cover	C	% cover						
			<10	10	20	30	40	50	60			<10	10	20	30	40		
100 bu																		
=====																		
AFTER:																		
Corn, Grain X		0.19	-	-	-	-	0.1	0.08	-									
Corn, Silage X 16 ton		0.32	-	-	0.21	0.19	0.16	0.13	-									
Field Beans X		0.31	0.29	-	-													
Potatoes, Early X			0.3	0.27	0.24	-												

FP - Fall Plow SP - Spring Plow
% cover - per cent residue cover immediately after planting
C - Cover Management Factor for a single year in a 2 year rotation
y-1 one year after alfalfa or meadow
X - Rye cover

ZONE 102A

TECHNICAL GUIDE
SECTION I-C
State-wide
Water-32CGX.125

SINGLE YEAR 'C' VALUE

CROP SEQUENCE

CROP SEQUENCE	PLOW TILLAGE		SPRING MULCH TILLAGE								RIDGE TILL	NO - TILLAGE						
	FP	SP	% cover								cover	% cover						
			<10	10	20	30	40	50	60	<10		10	20	30	40			
125 bu																		
=====																		
AFTER:																		
Corn, Grain X		0.15	-	-	-	-	0.06	0.05	-									
Corn, Silage X 16 ton		0.29	-	-	0.18	0.16	0.14	0.11	-									
Field Beans X		0.28	0.28	-	-													
Potatoes, Early X			0.26	0.23	0.19	-												

FP - Fall Plow SP - Spring Plow
% cover - per cent residue cover immediately after planting
C - Cover Management Factor for a single year in a 2 year rotation
y-1 one year after alfalfa or meadow
X - Rye cover

ZONE 102A

TECHNICAL GUIDE
SECTION I-C
State-wide
Water-32CGX80

SINGLE YEAR 'C' VALUE

CROP SEQUENCE

CROP SEQUENCE	PLOW TILLAGE		SPRING MULCH TILLAGE							RIDGE TILL	NO - TILLAGE					
	FP	SP	% cover							%	% cover					
			<10	10	20	30	40	50	60		<10	10	20	30	40	
80 bu										cover	C	50	60	70	80	90
=====																
AFTER:																
Corn, Grain X		0.24	-	-	-	-	0.14	0.11	-			-	-	-	-	-
Corn, Silage X 16 ton		0.36	-	-	0.25	0.22	0.18	0.16	-			0.16	0.13	-	-	-
Field Beans X		0.35	0.3	-	-							-	-	-	-	-
Potatoes, Early X			0.35	0.32	0.28	-						0.1	0.09	-	-	-

FP - Fall Plow SP - Spring Plow
% cover - per cent residue cover immediately after planting
C - Cover Management Factor for a single year in a 2 year rotation
y-1 one year after alfalfa or meadow
X - Rye cover

ZONE 102A

SINGLE YEAR 'C' VALUE

CROP SEQUENCE

CORN SILAGE	PLOW TILLAGE		FALL MULCH TILLAGE * SPRING MULCH TILLAGE % cover							RIDGE TILL	NO - TILLAGE % cover				
	FP	SP	<10	10	20	30	40	50	60	% cover	<10	10	20	30	40
=====															
AFTER:															
Alfalfa	y1	0.19	0.14	0.18	0.16	-							0.16	-	0.09
				.12*	.12*	.10*							-	-	-
Corn Silage 16 ton	y2	0.42	0.38	0.41									0.26	0.24	-
				.38*									-	-	-
Corn, Silage y3 16 ton		0.45	0.43	0.45						0% -	0.42	0.3	-		
				0.44								-	-		
Corn, Grain 80 bu		0.31	0.25		0.22	0.18	0.17			30% -	0.15	-	-	-	0.07
					.20*	.17*	.12*	.10*	.09*	40% -	0.13	0.04	0.04	0.03	-
Oats 50 bu		0.37	0.28			0.19	0.15								
						.17*	.14*	.11*	.06*			0.06	0.05		
Wheat		0.3	0.23			0.15	0.12	0.09							
						.13*	.10*	.08*				0.03	0.02		

FP - Fall Plow SP - Spring Plow
* Fall mulch tillage top number. Spring mulch tillage bottom number
% cover - per cent residue cover immediately after planting
C - Cover Management Factor for a single year in a 2 year rotation
y-1 one year after alfalfa or meadow

ZONE 102A

SINGLE YEAR 'C' VALUE

CROP SEQUENCE

CORN SILAGE	PLOW TILLAGE		FALL MULCH TILLAGE * SPRING MULCH TILLAGE % cover							RIDGE TILL	NO - TILLAGE % cover				
	FP	SP	<10	10	20	30	40	50	60	% cover	<10	10	20	30	40
YIELD															
=====															
AFTER:															
Alfalfa y1	0.16	0.12	0.15	0.14	-									0.08	-
			.10*	.09*											
Corn Silage 20 ton y2	0.36	0.32	0.35								0.22	0.2	-	-	-
			.32*								-	-	-	-	-
Corn, Silage y3 20 ton	0.39	0.36	0.37							0% - 0.35	0.25	0.18			
			.37*								-	-			
Corn, Grain 80 bu	0.24	0.2		0.18	0.14	0.12				30% - 0.11	-	-	-	-	-
				.15*	.13*	.10*	.08*	.06*		40% - 0.09	0.03	0.02	-	-	-
Oats 50 bu	0.31	0.23			0.16	0.12	0.1				-	-	-		
					.13*	.11*	.09*				0.04	0.04	0.03		
Wheat	0.25	0.18			0.13	0.1	0.08				-	-			
					.10*	.08*	.06*	.05*			0.03	0.02			

FP - Fall Plow SP - Spring Plow
* Fall mulch tillage top number. Spring mulch tillage bottom number
% cover - per cent residue cover immediately after planting
C - Cover Management Factor for a single year in a 2 year rotation
y-1 one year after alfalfa or meadow

ZONE 102A

TECHNICAL GUIDE
SECTION I-C
State-wide
Water-32CSX13

SINGLE YEAR 'C' VALUE

CROP SEQUENCE	PLOW TILLAGE		SPRING MULCH TILLAGE							RIDGE TILL	C	NO - TILLAGE				
	FP	SP	<10	10	20	30	40	50	60	% cover		<10	10	20	30	40
Corn Silage																
13 tons																
=====																
AFTER:																
Corn, Silage X		0.43	-	0.35	0.3	-						-	-	-	0.24	0.2
												0.21	-	-	-	-

FP - Fall Plow SP - Spring Plow
% cover - per cent residue cover immediately after planting
C - Cover Management Factor for a single year in a 2 year rotation
y-1 one year after alfalfa or meadow
X - Rye Cover Crop

(Notice 119, 3/96)

102ACSX13

ZONE 102A

TECHNICAL GUIDE
SECTION I-C
State-wide
Water-32CSX16

SINGLE YEAR 'C' VALUE

CROP SEQUENCE	PLOW TILLAGE		SPRING MULCH TILLAGE							RIDGE TILL	C	NO - TILLAGE				
	FP	SP	<10	10	20	30	40	50	60	% cover		<10	10	20	30	40
Corn Silage																
16 tons																
=====																
AFTER:																
Corn, Silage X		0.38	-	0.31	0.27	-						-	-	-	0.21	0.17
												0.19	-	-	-	-

FP - Fall Plow SP - Spring Plow
% cover - per cent residue cover immediately after planting
C - Cover Management Factor for a single year in a 2 year rotation
y-1 one year after alfalfa or meadow
X - Rye Cover Crop

(Notice 119, 3/96)

102ACSX16

ZONE 102A

TECHNICAL GUIDE
SECTION I-C
State-wide
Water-32CSX20

SINGLE YEAR 'C' VALUE

CROP SEQUENCE

CROP SEQUENCE	PLOW TILLAGE		SPRING MULCH TILLAGE							RIDGE TILL	C	NO - TILLAGE				
	FP	SP	<10	10	20	30	40	50	60	% cover		<10	10	20	30	40
Corn Silage																
20 tons																
=====																
AFTER:																
Corn, Silage X		0.32	-	0.25	0.22	-						-	-	-	0.17	0.14
												0.15	-	-	-	-

FP - Fall Plow SP - Spring Plow
 % cover - per cent residue cover immediately after planting
 C - Cover Management Factor for a single year in a 2 year rotation
 y-1 one year after alfalfa or meadow
 X - Rye Cover Crop

ZONE 102A

TECHNICAL GUIDE
SECTION I-C
State-wide
Water-32DB.12

SINGLE YEAR 'C' VALUE

CROP SEQUENCE	PLOW TILLAGE		FALL MULCH TILLAGE * SPRING MULCH TILLAGE % cover							RIDGE TILL	NO - TILLAGE % cover					
	FP	SP	<10	10	20	30	40	50	60	cover	C	<10	10	20	30	40
DRY BEANS																
YIELD																
=====																
AFTER:																
Wheat	0.42	0.29		0.26	0.2	0.16						-	-	-	-	0.07
				.22*	.19*	.14*						0.06	0.05	0.04	-	-

FP - Fall Plow SP - Spring Plow
* Fall mulch tillage top number. Spring mulch tillage bottom number
% cover - per cent residue cover immediately after planting
C - Cover Management Factor for a single year in a 2 year rotation
y-1 one year after alfalfa or meadow

ZONE 102A

TECHNICAL GUIDE
SECTION I-C
State-wide
Water-32DB.16

SINGLE YEAR 'C' VALUE

CROP SEQUENCE	PLOW TILLAGE		FALL MULCH TILLAGE * SPRING MULCH TILLAGE % cover							RIDGE TILL	C	NO - TILLAGE % cover				
	FP	SP	<10	10	20	30	40	50	60	cover		<10	10	20	30	40
DRY BEANS																
YIELD																
=====																
AFTER:																
Oats		0.32		.24*	.19*							-	-	-		
												0.04	0.03	0.02		
Wheat	0.33	0.22		0.19	0.15	0.11						-	-	-	-	-
				.16*	.13*	.08*						-	0.03	0.03	-	-

FP - Fall Plow SP - Spring Plow
* Fall mulch tillage top number. Spring mulch tillage bottom number
% cover - per cent residue cover immediately after planting
C - Cover Management Factor for a single year in a 2 year rotation
y-1 one year after alfalfa or meadow

ZONE 102A

TECHNICAL GUIDE
SECTION I-C
State-wide
Water-32

SINGLE YEAR 'C' VALUE

CROP SEQUENCE

CROP SEQUENCE	PLOW TILLAGE		SPRING MULCH TILLAGE							RIDGE TILL		NO - TILLAGE								
	FP	SP	% cover							cover	C	% cover								
			<10	10	20	30	40	50	60			<10	10	20	30	40				
Corn Grain X 100 bu																				
=====																				
AFTER:																				
Alfalfa																				
Corn, Grain 100 bu		0.13	-	-	-	-	0.09	0.07	-											
Corn, Silage 16 ton		0.29	-	-	0.18	0.16	0.14	0.11	-											
Field Beans		0.31	0.29	-	-															
Potatoes, Early			0.3	0.27	0.24	-														
Soys - 7in																				
Sugarbeets																				
Wheat																				

FP - Fall Plow SP - Spring Plow
% cover - per cent residue cover immediately after planting
C - Cover Management Factor for a single year in a 2 year rotation
y-1 one year after alfalfa or meadow
X - Rye cover

ZONE 102A

TECHNICAL GUIDE
SECTION I-C
State-wide
Water-32OT.50

SINGLE YEAR 'C' VALUE

CROP SEQUENCE	PLOW TILLAGE		FALL MULCH TILLAGE * SPRING MULCH TILLAGE % cover							RIDGE TILL	NO - TILLAGE % cover					
	FP	SP	<10	10	20	30	40	50	60	cover	C	<10	10	20	30	40
OATS																
YIELD																
=====																
AFTER:																
Alfalfa	0.11	0.07	.06*	0.08	0.06	0.05						-	-			
				.05*								0.01	0.01			
Corn, Grain 100 bu	0.15	0.12		0.08	0.06	0.05	0.04					-	-	-	-	-
				.07*	.05*	.05*	.04*					-	-	0.01	0.01	-
Corn, Silage 16 ton	0.25	0.24	0.21	0.18								0.1	0.08	0.06		
			.20*	.16*								-	-	-		

FP - Fall Plow SP - Spring Plow
* Fall mulch tillage top number. Spring mulch tillage bottom number
% cover - per cent residue cover immediately after planting
C - Cover Management Factor for a single year in a 2 year rotation
y-1 one year after alfalfa or meadow

ZONE 102A

TECHNICAL GUIDE
SECTION I-C
State-wide
Water-32OT.70

SINGLE YEAR 'C' VALUE

CROP SEQUENCE	PLOW TILLAGE		FALL MULCH TILLAGE * SPRING MULCH TILLAGE % cover							RIDGE TILL % cover	NO - TILLAGE % cover				
	FP	SP	<10	10	20	30	40	50	60	C	<10	10	20	30	40
=====															
AFTER:															
Alfalfa	0.09	0.05	.04*	.04*	0.06	0.05	0.04				-	-			
											0.008	0.007			
Corn, Grain 125 bu	0.1	0.07			0.05	0.04	0.03	0.02			-	-	-	-	-
					.04*	.03*	.03*	.02*			-	-	0.007	0.006	0.005
Corn, Silage 25 ton	0.18	0.18	0.15	0.13	0.1						-	0.05	0.04		
			.14*	.11*	.09*						-	-	-		

FP - Fall Plow SP - Spring Plow
* Fall mulch tillage top number. Spring mulch tillage bottom number
% cover - per cent residue cover immediately after planting
C - Cover Management Factor for a single year in a 2 year rotation
y-1 one year after alfalfa or meadow

ZONE 102A

TECHNICAL GUIDE
SECTION I-C
State-wide
Water-32PE.200

SINGLE YEAR 'C' VALUE

CROP SEQUENCE	PLOW TILLAGE		FALL MULCH TILLAGE * SPRING MULCH TILLAGE % cover							RIDGE TILL	C	NO - TILLAGE % cover				
	FP	SP	<10	10	20	30	40	50	60	cover		<10	10	20	30	40
POTATO																
YIELD																
=====																
AFTER:																
Alfalfa																
Corn, Grain 80 bu			0.24	0.22												
Wheat	0.32	0.27	0.26	0.21									0.16	0.14	-	
			.19*	.19*	.15*								-	-	-	

FP - Fall Plow SP - Spring Plow
* Fall mulch tillage top number. Spring mulch tillage bottom number
% cover - per cent residue cover immediately after planting
C - Cover Management Factor for a single year in a 2 year rotation
y-1 one year after alfalfa or meadow

ZONE 102A

TECHNICAL GUIDE
SECTION I-C
State-wide
Water-32PE.320

SINGLE YEAR 'C' VALUE

CROP SEQUENCE	PLOW TILLAGE		FALL MULCH TILLAGE * SPRING MULCH TILLAGE % cover							RIDGE TILL	C	NO - TILLAGE % cover				
	FP	SP	<10	10	20	30	40	50	60	cover		<10	10	20	30	40
POTATO																
YIELD																
=====																
AFTER:																
Alfalfa																
Corn, Grain 100 bu	0.28		0.19	0.16	-	-	-									
					.13*	.11*	.10*									
Wheat	0.24	0.19	0.17	0.14	0.11	0.09										
				.13*	.10*	.08*										

FP - Fall Plow SP - Spring Plow
* Fall mulch tillage top number. Spring mulch tillage bottom number
% cover - per cent residue cover immediately after planting
C - Cover Management Factor for a single year in a 2 year rotation
y-1 one year after alfalfa or meadow

ZONE 102A

TECHNICAL GUIDE
SECTION I-C
State-wide
Water-32WW.45

SINGLE YEAR 'C' VALUE

CROP SEQUENCE	PLOW TILLAGE FP	FALL MULCH TILLAGE						NO - TILLAGE					
		% cover						% cover					
WHEAT		<10	10	20	30	40	50	60	<10	10	20	30	40
YIELD									50	60	70	80	90
=====													
AFTER:													
16 ton									-	-	-	-	-
Dry beans 16 cwt.	0.12		0.08	0.06					-	-	-	0.04	0.03
Potato, Early 320 cwt.	0.13	0.1	0.09						0.02	-	-	-	-

FP - Fall Plow SP - Spring Plow
* Fall mulch tillage top number. Spring mulch tillage bottom number
% cover - per cent residue cover immediately after planting
C - Cover Management Factor for a single year in a 2 year rotation
y-1 one year after alfalfa or meadow

ZONE 102A

TECHNICAL GUIDE
SECTION I-C
State-wide
Water-32WW.60

SINGLE YEAR 'C' VALUE

CROP SEQUENCE	PLOW TILLAGE FP	FALL MULCH TILLAGE									NO - TILLAGE				
		% cover									% cover				
WHEAT		<10	10	20	30	40	50	60			<10	10	20	30	40
YIELD		50	60	70	80	90					50	60	70	80	90
=====															
AFTER:															
Corn, Silage 25 ton	0.08	0.07	0.05	0.04							-	0.02	0.02	0.01	-
Dry beans 16 cwt.	0.09	0.07	0.06	0.05	0.04						-	-	-	0.02	0.02
Potato, Early 320 cwt.	0.1	0.08	0.07								0.01	-	-	-	-

FP - Fall Plow SP - Spring Plow
* Fall mulch tillage top number. Spring mulch tillage bottom number
% cover - per cent residue cover immediately after planting
C - Cover Management Factor for a single year in a 2 year rotation
y-1 one year after alfalfa or meadow

(Notice 116, 5/95)

102aWW60

ZONE 102B

SECTION I-C
State-wide
WATER-33AA.3T

CROP SEQUENCE

CROP SEQUENCE	PLOW		FALL MULCH TILLAGE * SPRING MULCH TILLAGE							NO - TILLAGE				
	TILLAGE		% cover							% cover				
	FP	SP	<10	10	20	30	40	50	60	<10	10	20	30	40
3 ton														
=====														
AFTER:														
Alfalfa seeding	0.17	0.08	0.15	0.14										
Alfalfa			.07*	.06*										
year														
yr2		0.026								0.02	-	-	-	-
yr3		0.014								0.01				
yr4		0.008								0.006				
yr5		0.006								0.004				
Corn, Grain	0.05					0.03	0.02	0.01						
Corn, Silage	0.3	0.29	0.28											
			.28*							0.25	0.27			
Cucumbers	0.28	0.31												
Dry beans (snap beans)	or	0.25	0.23	0.26								0.08	0.07	-
			.22*									-	-	-
Oats	0.26	0.18	0.2	0.16										
			0.15	.13*						0.03	0.02	0.02	-	-
Potato, early	0.46	0.46	0.46											
			.45*											
Potato, late	0.35	0.34	0.34											
			.34*											
Soys - 30in	0.08													
Soys - 7in	0.12			0.06	0.04	0.03	0.02	0.01						
				-	-	-	-	-						
										0.01	0.008	0.006	-	-
Sugarbeets	0.32	0.31		0.31										
				.30*						0.21	0.2			
										-	-			
Wheat spring seed	0.22	0.16		0.15										
				.11*									0.01	0.01
Wheat summer seed	0.18	-	0.15	0.13										
												0.01	0.01	-

FP - Fall Plow SP - Spring Plow
Fall mulch tillage top number.
Spring mulch tillage bottom number.

% cover- per cent residue cover immediately after planting
C- Cover management factor for single year in a 2 year rotation
y 1 - One year after alfalfa or meadow

SINGLE YEAR 'C' VALUES

ZONE 102B

TECHNICAL GUIDE

SECTION I-C

State-wide

WATER-33AS

CROP SEQUENCE

CROP SEQUENCE	PLOW		FALL MULCH TILLAGE * SPRING MULCH TILLAGE							RIDGE TILL		NO - TILLAGE % cover					STRIP TILL
	FP	SP	<10	10	20	30	40	50	60	cover	C	<10	10	20	30	40	%
20 CWT												50	60	70	80	90	cover - C
=====																	
AFTER:																	
Asparagus y2			0.27	0.19								-	-	0.18	-	-	
												0.12	-	-	0.07	-	
Asparagus y3			0.33									-	-	0.18	-	-	
												0.12	-	-	0.07	-	
Corn, Grain	0.19	0.19		0.12	0.11	0.08						-	-	-	-	-	
				.12*	.10*	.08*						0.04	0.03	-	-	-	
Oats	0.23	0.19		0.15	0.12	-						-	-	-	-	-	
				.15*	.12*	.10*						0.07	0.06	-	-	-	
Wheat	0.23	0.16	0.23	-	-	-						-	-				
				.12*	.10*	.07*						0.04	0.03				
WheatX	0.18	0.16															

FP - Fall plow SP - Spring Plow
 * Fall mulch tillage top number. Spring mulch tillage bottom number.
 % cover- per cent residue cover immediately after planting
 C - Cover management factor for single year in a 2 year rotation
 y 1 - One year after alfalfa or meadow

ZONE 102B

TECHNICAL GUIDE
SECTION I-C
State-wide
WATER-33CB.400

SINGLE YEAR 'C' VALUES

CROP SEQUENCE	PLOW		FALL MULCH TILLAGE							RIDGE		NO - TILLAGE					STRIP	
	FP	SP	* SPRING MULCH TILLAGE							TILL	cover	% cover				TILL		
400 cwt.	FP	SP	<10	10	20	30	40	50	60	cover	C	<10	10	20	30	40	90	% cover - C
AFTER:																		
Oats 50 bu	0.27	0.22	0.22	0.18								-	-	-	0.09	0.07		
			.17*	.16*	.12*							0.06	-	-	-	-		
Sweet Corn	0.31	0.25	0.22															
			.20*															

FP - Fall Plow SP - Spring Plow
 * Fall mulch tillage top number. Spring mulch tillage bottom number.
 % cover- per cent residue cover immediately after planting
 C - Cover management factor for single year in a 2 year rotation
 y 1 - one year after alfalfa or meadow

ZONE 102B

SINGLE YEAR 'C' VALUES

CROP SEQUENCE

CROP SEQUENCE	PLOW		FALL MULCH TILLAGE * SPRING MULCH TILLAGE							RIDGE TILL		NO - TILLAGE				
	TILLAGE		% cover							% cover		% cover				
	FP	SP	<10	10	20	30	40	50	60	cover	C	<10	10	20	30	40
100 bu.																
=====																
AFTER:																
Cabbage		0.28	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			.23*	-	.18*	-	-	-	-	-	-	0.09	-	-	-	-
Cucumber		0.45	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			.40*	.34*	-	-	-	-	-	-	-	0.23	-	-	-	-
Corn, Silage			-	-	-	-	-	-	-	-	-	-	-	-	-	-
			-	-	.23*	.20*	.18*	.14*	-	-	-	0.15	0.13	-	-	-
Potatoes												-	-	-	-	-
												0.19	-	-	-	-
Soys - 30in		0.29	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			-	.22*	-	-	-	-	-	-	-	0.12	-	-	-	-
Soys - 7in		0.28	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			.23*	.20*	-	-	-	-	-	-	-	0.1	-	-	-	-
Sugarbeets			-	-	-	-	-	-	-	-	-	-	-	-	-	-
			.24*	-	.20*	-	-	-	-	-	-	0.11	-	-	-	-
Snap Beans		0.39	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			.33*	-	-	-	-	-	-	-	-	0.2	-	-	-	-
Tomato		0.31	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			.31*	-	-	.22*	-	-	-	-	-	0.17	-	-	-	-

FP - Fall Plow SP - Spring Plow
 * Fall mulch tillage top number. Spring mulch tillage bottom number.
 % cover- per cent residue cover immediately after planting
 C - Cover management factor for single year in a 2 year rotation
 y 1 - one year after alfalfa or meadow

SINGLE YEAR 'C' VALUES

TECHNICAL GUIDE
SECTION I-C
State-wide
WATER-33CG.125

ZONE 102B

CROP SEQUENCE

CORN, GRAIN	PLOW TILLAGE	FALL MULCH TILLAGE * SPRING MULCH TILLAGE									RIDGE TILL %	NO - TILLAGE % cover					STRIP TILL %	
		FP	SP	% cover						cover		C	<10 50	10 60	20 70	30 80		40 90
				<10	10	20	30	40	50									
125 bu.																		
=====																		
AFTER:																		
Alfalfa	y1	0.16	0.12		0.13	-												
					.10*	-												
Corn, Grn. after alfalfa	y2+	0.21	0.17		0.12	-							-	-	0.1			
					.10*	-							-	-				
Corn, Grain		0.21	0.18		-	0.14	0.11	0.09	0.07	0.06	40%	0.07	-	0.08	0.07	0.06	0.05	50%-04
					.16*	.12*	.10*	.09*	.07*	.06*	50%		0.04	0.03	0.02	0.01	-	60%-03
																		70%-03
Corn, silage		0.3	0.3	0.25							4%	0.17	0.11	0.11	0.07	-	-	10%-14
				.21*	.17*	-							-	-	-	-	-	
Cucumbers		0.46	0.47	0.43									0.32	0.3				
				.43*									-	-				
Dry beans		0.35			0.32	-							-	-	-	-	0.08	25%-14
					-	.28*							-	-	-	-	-	
Oats		0.22	0.18		-	0.12	0.09	0.08	-				-	-	-	-	-	
					-	.11*	.09*	0.07	0.06				-	0.02	0.02	0.01	-	
Potato , early		0.36	0.37	0.35									0.34	-	-	-	-	1%-21
				.35*									-	-	-	-	-	
Potato, late		0.36	0.35	0.32									0.33	-	-	-	-	10%-36
				.32*									-	-	-	-	-	
Soys - 30in		0.3	0.26	0.27	0.24	0.21	0.18	-	-	-	40%	0.17	-	-	-	0.13	0.11	40%-10
				.24*	.24*	.20*	.18*	.15*	-	-	50%	0.14	-	-	-	-	-	50%-09
											60%	0.13	-	-	-	-	-	60%-07
Soys - 7in		0.3	0.26	0.25	0.22	0.19	0.17	-	-	-			-	-	-	-	0.08	
				.25*	.22*	-	-	-	-	-			0.07	0.06	0.05	-	-	
Snap beans		0.43	0.42	0.41									-	0.15	0.13			10%-23
				.41*									-	-	-			
Sugarbeets		0.3	0.3	0.29														4%-25
				.29*														
W. wheat		0.21	0.17		-	0.11	0.09	0.07	0.06				-	-	-	-	-	
					.13*	.10*	.08*	-	-				-	0.01	0.01	0.01	-	

FP - Fall Plow SP - Spring Plow
* Fall mulch tillage top number. Spring mulch tillage bottom number.
% cover- per cent residue cover immediately after planting
C - Cover management factor for single year in a 2 year rotation
y 1 - One year after alfalfa or meadow

ZONE 102B

TECHNICAL GUIDE
SECTION I-C
State-wide
WATER-33CG.150

SINGLE YEAR 'C' VALUES

CROP SEQUENCE

CORN, GRAIN	PLOW		FALL MULCH TILLAGE * SPRING MULCH TILLAGE							RIDGE TILL		NO - TILLAGE % cover					STRIP TILL
	FP	SP	<10	10	20	30	40	50	60	cover	C	<10	10	20	30	40	% cover
150 bu.																	

AFTER:																	
Alfalfa	0.17	0.15	-	0.15	-	0.1	-					-	-	-	-	-	
			-	-	-	.09*	-					0.07	-	0.03	-	-	
Asparagus	0.43	0.43	0.4	-													
			.39*	-													
Corn, Grain	0.17	0.15	-	0.13	0.09	0.1	0.07	0.06	0.05	40% -	0.06	-	-	-	-	-	70%
			-	.11*	.10*	.08*	.07*	.06*	-	-	-	-	0.04	0.02	0.01	-	60%
Corn, Silage	0.29	0.3	0.27							2% -	0.28	0.16	0.12	0.08	-	-	10%-.13
			.22*	.23*						4% -	0.24	-	-	-	-	-	
Cucumber	0.43	0.44	0.4									-	0.27	-			
			.40*									-	-	-			
Potato, , early	0.46		0.44														<10%
			.34*														
Potato, late	0.37	0.34	0.34									0.32	-				1%-.36
			-									-	-				
Snap Beans	0.4	0.4	0.37									-	0.2	0.12	-	-	
			.37*									-	-	-	-	-	
Soys - 30in	0.29	0.25	0.25	0.22	0.2	0.13				40% -	0.14						
			.22*	.19*	.18*	.17*											
Soys - 7in	0.29	0.23	0.22	0.2	-	-						-	-				
			-	.18*	.15*	.13*						0.06	-				
Sugarbeets	0.27	0.28	0.26	-								0.22	-				
			.27*	-								-	-				
Tomatos	0.33	0.3															
W. Wheat	0.19	0.16	0.16	0.13	0.1	0.08	0.07					-	-	-	-		
			.11*	.09*	.06*	-	-					-	0.03	0.02	0.01		

FP - Fall Plow SP - Spring Plow
* Fall mulch tillage top number. Spring mulch tillage bottom number.
% cover- per cent residue cover immediately after planting
C - Cover management factor for single year in a 2 year rotation
y 1 - one year after alfalfa or meadow

ZONE 102B

TECHNICAL GUIDE
SECTION I-C
State-wide
WATER-33CG.80

SINGLE YEAR 'C' VALUES

CROP SEQUENCE	PLOW		FALL MULCH TILLAGE							RIDGE		NO - TILLAGE					STRIP
	TILLAGE		* SPRING MULCH TILLAGE							TILL	% cover					TILL	
80bu	FP	SP	<10	10	20	30	40	50	60	cover	C	<10	10	20	30	40	% cover - C
AFTER:																	
Alfalfa																	
Corn, Grain	0.33	0.28		0.22	0.18	0.14	0.12			30% - 0.17	-	-	-	-	-	-	40%-.09
				.20*	.17*	.15*	.13*			40% - 0.16	-	0.04	0.03	-	-	-	50%-.07
																	60%-.06
Corn, Silage	0.42	0.43	0.34	-						4% - 0.26	-	0.18	0.11				10%-.22
			.30*	.25*							-	-	-				
Cucumbers	0.56	0.56	0.53									0.42	0.38	-	-	-	
			.53*								-	-	-	-	-	-	
Dry beans																	
Oats	0.38	0.31			0.22	0.17	0.13					-	-				
					0.2	0.16	0.12					0.05	0.04				
Potato, early 200 cwt	0.46	0.48	0.46														1% - .31
			.47*														
Potato, late 200 cwt	0.44	0.46	0.44									0.31					
			.44*								-						1% - .44
Snap beans	0.53	0.52	0.5									-	0.22	0.19			10% -.30
			0.5								-	-	-				
Soys - 7in 20 bu	0.42	0.38	0.37	0.35	0.31							-	0.17	0.15	-	-	
			.34*	0.32	0.29						-	-	-	-	-	-	
Soys - 30in	0.43	0.38	0.39	0.35						30% - 0.27	-	0.22	0.2	-	-		
			.36*	.34*						40% - 0.24	-	-	-	-	-	-	
Tomato	0.46	0.41															
Wheat	0.32	0.26			0.17	0.14	0.11					-	-				
				.21*	.17*	.14*						0.04	0.03				

FP - Fall Plow SP - Spring Plow
 * Fall mulch tillage top number. Spring mulch tillage bottom number.
 % cover- per cent residue cover immediately after planting
 C - Cover management factor for single year in a 2 year rotation
 y 1 - one year after alfalfa or meadow

ZONE 102B

SINGLE YEAR 'C' VALUES

CROP SEQUENCE

CROP SEQUENCE	PLOW		SPRING MULCH TILLAGE							RIDGE	NO - TILLAGE					
	TILLAGE		% cover							TILL	% cover					
	FP	SP	<10	10	20	30	40	50	60	cover	C	<10	10	20	30	40
100 bu.																

AFTER:																
Cabbage X		0.28	0.23	-	0.18	-						-	-	-	-	-
												-	0.09	-	-	-
Corn, Grain X		0.18	-	0.16	0.12	0.1	0.1	-				-	-	-	-	0.12
												0.1	0.09	0.05	-	-
Corn, Silage X		0.32	-	-	0.23	0.2	0.18	0.14	-			-	-	-	-	-
												0.15	0.13	-	-	-
Cucumber X		0.45	0.4	0.34	-							-	-	-	-	-
												0.23	-	-	-	-
Potatoes X		0.51	0.39	0.36	0.34	-						-	-	-	-	-
												0.19	-	-	-	-
Snap Beans X		0.39	0.33	-								-	-	-	-	-
												0.2	-	-	-	-
Soys - 30in X		0.29	-	0.22	-							-	-	-	-	-
												0.12	-	-	-	-
Soys - 7in X		0.28	0.23	0.2	-							-	-	-	-	-
												-	0.1	-	-	-
Sugarbeets X		0.28	0.24	-	0.2	-						-	-	-	-	-
												-	0.11	-	-	-
Tomatoes X		0.31	0.31	-	-	0.22	-					-	-	-	-	-
												0.17	-	-	-	-

FP - Fall Plow SP - Spring Plow
 % cover- per cent residue cover immediately after planting
 C - Cover management factor for single year in a 2 year rotation
 y 1 - one year after alfalfa or meadow
 X - Rye cover

ZONE 102B

SINGLE YEAR 'C' VALUES

CROP SEQUENCE

CROP SEQUENCE	PLOW		SPRING MULCH TILLAGE								RIDGE	NO - TILLAGE				
	TILLAGE		% cover								TILL	% cover				
	FP	SP	<10	10	20	30	40	50	60	cover	C	<10	10	20	30	40
125 bu												50	60	70	80	90

AFTER:																
Cabbage X		0.24	0.19	-	0.15	-						-	-	-	-	-
												-	0.08	-	-	-
Corn, Grain X		0.14	-	0.13	0.1	0.08	0.07	0.06	-			-	-	-	-	0.09
												-	-	0.03	-	-
Corn, Silage X		0.28	-	-	0.19	0.17	0.15	0.13	-			-	-	-	-	-
												0.12	0.1	-	-	-
Cucumber X		0.39	0.34	0.3	-							-	-	-	-	-
												0.2	-	-	-	-
Potatoes X		0.4	0.34	0.3	-							-	-	-	-	-
												0.16	-	-	-	-
Soys - 30in X		0.24	-	0.19	-							-	-	-	-	-
												0.1	-	-	-	-
Soys - 7in X		0.24	0.2	0.16	-							-	-	-	-	-
												-	0.09	-	-	-
Sugarbeets X		0.23	0.19	-								-	-	-	-	-
												0.09	-	-	-	-
Snap Beans X		0.34	0.28	-								-	-	-	-	-
												0.17	-	-	-	-
Tomatoes X		0.27	0.27	-	-	0.19	-					-	-	-	-	-
												-	0.15	-	-	-

FP - Fall Plow SP - Spring Plow
 % cover- per cent residue cover immediately after planting
 C - Cover management factor for single year in a 2 year rotation
 y 1 - one year after alfalfa or meadow
 X - Rye cover

ZONE 102B

TECHNICAL GUIDE
SECTION I-C
State-wide
WATER-33CG>

SINGLE YEAR 'C' VALUES

CROP SEQUENCE

CROP SEQUENCE	PLOW		SPRING MULCH TILLAGE								RIDGE	NO - TILLAGE				
	TILLAGE		% cover								TILL	% cover				
	FP	SP	<10	10	20	30	40	50	60	cover	C	<10	10	20	30	40
150 bu.												50	60	70	80	90
AFTER:																
Cabbage X		0.21	0.17	-	0.13							-	-	-	-	-
												-	0.07	-	-	-
Corn, Grain X		0.12	-	0.1	0.08	0.06	0.05	-				-	-	-	-	0.07
												0.06	0.05	0.03	-	-
Corn, Silage X		0.26	-	-	0.17	0.15	0.13	0.1	-			-	-	-	-	-
												0.11	0.09	-	-	-
Cucumber X		0.36	0.31	0.27								-	-	-	-	-
												0.18	-	-	-	-
Potatoes X		0.36	0.31	0.29	0.27	-						-	-	-	-	-
						-						0.15	-	-	-	-
Snap Beans X		0.3	0.25	-								-	-	-	-	-
												0.15	-	-	-	-
Soys - 30in X		0.22	-	0.16	-							-	-	-	-	-
												0.09	-	-	-	-
Soys - 7in X		0.21	0.18	0.14	-							-	-	-	-	-
												-	0.15	-	-	-
Sugarbeets X		0.21	0.18	-	0.15	-						-	-	-	-	-
												-	0.18	-	-	-
Tomatoes X		0.24	0.24	-	-	0.17	-					-	-	-	-	-
												0.13	-	-	-	-

FP - Fall Plow SP - Spring Plow
% cover- per cent residue cover immediately after planting
C - Cover management factor for single year in a 2 year rotation
y 1 - one year after alfalfa or meadow
X - Rye Cover

ZONE 102B

SINGLE YEAR 'C' VALUES

CROP SEQUENCE

CROP SEQUENCE	PLOW		SPRING MULCH TILLAGE								RIDGE	NO - TILLAGE					
	TILLAGE		% cover								TILL	% cover					
	FP	SP	<10	10	20	30	40	50	60	cover	C	<10	10	20	30	40	
80 bu.																	

AFTER:																	
Cabbage X		0.32	0.27	-	0.21	-						-	-	-	-	-	
												-	0.11	-	-	-	
Corn, Grain X		0.24	-	0.21	0.17	0.14	0.13	-				-	-	-	-	0.15	
												0.13	0.12	0.07	-	-	
Corn, Silage X		0.37	-	-	0.26	0.23	0.21	0.18				-	-	-	-	-	
												0.18	0.15	-	-	-	
Cucumber X		0.5	0.45	0.4	-							-	-	-	-	-	
												0.27	-	-	-	-	
Potatoes X		0.45	0.45	0.42	0.39	-						-	-	-	-	-	
												0.22	-	-	-	-	
Snap Beans X		0.44	0.38	-								-	-	-	-	-	
												0.23	-	-	-	-	
Soys - 30in X		0.33	-	0.26	-							-	-	-	-	-	
												0.14	-	-	-	-	
Soys - 7in X		0.32	0.27	0.23	-							-	-	-	-	-	
												-	0.14	-	-	-	
Sugarbeets X		0.33	0.28	-								-	-	-	-	-	
												0.13	-	-	-	-	
Tomatoes X		0.36	0.36	-								-	-	-	-	-	
												0.2	-	-	-	-	

FP - Fall Plow SP - Spring Plow
% cover- per cent residue cover immediately after planting
C - Cover management factor for single year in a 2 year rotation
y 1 - one year after alfalfa or meadow
X - Rye cover

SINGLE YEAR 'C' VALUES

ZONE 102B

TECHNICAL GUIDE

SECTION I-C

State-wide

WATER-33CS.16

CROP SEQUENCE

CORN SILAGE	PLOW		FALL MULCH TILLAGE								RIDGE	NO - TILLAGE					STRIP
	TILLAGE		* SPRING MULCH TILLAGE								TILL	% cover					TILL
	FP	SP	<10	10	20	30	40	50	60	cover	C	<10	10	20	30	40	%
16 TON												50	60	70	80	90	cover - C
AFTER:																	
Alfalfa y 1	0.19	0.14	0.17	0.16	0.14							*	*	*			
			-	.12*	.10*							*	0.05	0.04			
Alfalfa y2	0.42	0.4	0.41									0.31					
			.39*														
Alfalfa y3	0.45	0.44	0.43									0.4					
			.43*														
Corn, Grain	0.31	0.28		0.18	0.15	0.13				40% - 0.16	*	*	*				50%-.07
				.20*	.17*	.15*	.13*	.12*	.10*	50% - 0.14	0.06	0.05	0.04				60%-.06
Corn, Silage	0.45	0.44	0.44	-						2% - 0.42	0.4	-					
			.42*								-	-					
Cucumbers	0.54	0.52															
Oats	0.39	0.3		-	0.2	0.17											
				-	.18*	.15*					0.08	0.07	0.06	-	-		
Soys - 30in	0.41	0.34	0.35	0.3									0.13	0.11			
			.31*	.28*													
Soys - 7in	0.4	0.33	0.36	0.3	-								0.13	0.12			
			.32*	.29*	-												
Snap beans	0.52	0.49															
Wheat	0.3	0.24		-	0.15	0.13	0.1				*	*	*	*	*		
				-	.15*	.12*	.10*				0.05	0.04	0.03	*	*		

FP - Fall Plow

SP - Spring Plow

* Fall mulch tillage top number. Spring mulch tillage bottom number.

% cover- per cent residue cover immediately after planting

C - Cover management factor for single year in a 2 year rotation

y 1 - One year after meadow or alfalfa

SINGLE YEAR 'C' VALUES

ZONE 102B

TECHNICAL GUIDE

SECTION I-C

State-wide

WATER-33CS.20

CROP SEQUENCE

CORN SILAGE	PLOW		FALL MULCH TILLAGE							RIDGE		NO - TILLAGE					STRIP
	TILLAGE		* SPRING MULCH TILLAGE							TILL	% cover					TILL	
	FP	SP	<10	10	20	30	40	50	60	cover	C	<10	10	20	30	40	%
20 TON																	
=====																	
AFTER:																	
Alfalfa y 1	0.17	0.12	0.15	0.13	-							-	-	-			
			.12*	.10*	.08*							-	0.04	0.03			
Alfalfa y2	0.36	0.34	0.35									0.25	-				
			.33*														
Alfalfa y3	0.38	0.37	0.37									0.33	0.4				
			.36*														
Corn, Grain	0.26	0.23		0.17	0.15	0.12	-	-	-	40% -	0.15	-	-	-			50%-.05
				-	.17*	.14*	.13*	.11*	.09*	50% -	0.13	0.06	0.05	0.04	0.03		60%-.05
Corn, Silage	0.37	0.36	0.35	-						2% -	0.34	0.19	-				70%-.04
			.35*									-	-				4%-.24
Cucumbers	0.49	0.47															
Oats	0.32	0.25		-	0.16	0.13	0.11	-	-			-	-	-	-	-	
				-	.14*	.12*	.09*	-	-			0.05	0.04	0.03	-	-	
Soys - 30in	0.35	0.29	0.29	0.25								-	-	-	0.09	0.08	
			.26*	.23*								0.07	-	-	-	-	
Soys - 7in	0.34	0.28	0.3	0.26	-							-	-	-	0.09	0.08	
			.26*	.23*	-							-	-	-	-	-	
Snap beans	0.47	0.44															
Wheat	0.26	0.2		-	0.12	0.1	0.08					-	-	-	-	-	
				-	.12*	.10*	.08*					0.03	0.02	-	-	-	

FP - Fall Plow

SP - Spring Plow

* Fall mulch tillage top number. Spring mulch tillage bottom number.

% cover- per cent residue cover immediately after planting

C - Cover management factor for single year in a 2 year rotation

y 1 - One year after meadow or alfalfa

ZONE 102B

SINGLE YEAR 'C' VALUES

CROP SEQUENCE

CROP SEQUENCE	PLOW		SPRING MULCH TILLAGE							RIDGE	NO - TILLAGE					
	TILLAGE		% cover							TILL	% cover					
	FP	SP	<10	10	20	30	40	50	60	cover	C	<10	10	20	30	40
16 ton												50	60	70	80	90

AFTER:																
Cabbage X		0.29	0.24	-	0.19	-						-	-	-	-	-
												-	-	0.08	-	-
Corn, Grain X		0.22	-	0.18	0.14	-						-	-	-	-	-
												-	-	0.05	-	-
Corn, Silage X		0.36	-	0.3	0.25	0.24	0.2	-				-	-	-	-	0.22
												0.18	0.14	-	-	-
Cucumber X		0.41	0.37	0.32	-							-	-	-	-	-
												0.22	-	-	-	-
Potatoes X		0.5	0.44	-								-	-	-	-	-
												0.2	-	-	-	-
Soys - 30in X		0.34	-	0.27	-							-	-	-	-	-
												0.16	-	-	-	-
Soys - 7in X		0.33	0.28	0.24	-							-	-	-	-	-
												-	0.14	-	-	-
Sugarbeets X		0.3	0.26	-								-	-	-	-	-
												0.17	-	-	-	-
Snap Beans X		0.38	0.34	-								-	-	-	-	-
												0.2	-	-	-	-
Tomato X		0.32	0.32	-	-	0.22	-					-	-	-	-	-
												0.17	-	-	-	-

FP - Fall Plow SP - Spring Plow
 % cover- per cent residue cover immediately after planting
 C - Cover management factor for single year in a 2 year rotation
 y 1 - one year after alfalfa or meadow
 X - Rye cover

ZONE 102B

SINGLE YEAR 'C' VALUES

CROP SEQUENCE

CROP SEQUENCE	PLOW		SPRING MULCH TILLAGE								RIDGE	NO - TILLAGE				
	TILLAGE		% cover								TILL	% cover				
	FP	SP	<10	10	20	30	40	50	60	cover	C	<10	10	20	30	40
20 ton												50	60	70	80	90
AFTER:																
Cabbage X		0.25	0.21	-	0.16	-						-	-	-	-	-
Corn, Grain X		0.18	-	0.15	0.12							-	-	-	-	-
Corn, Silage X		0.29	-	0.24	0.2	0.2	0.16					-	-	-	-	0.17
Cucumber X		0.35	0.32	0.28	-							-	-	-	-	-
Potatoes X		0.44	0.39	-								-	-	-	-	-
Soys - 30in X		0.29	-	0.23	-							-	-	-	-	-
Soys - 7in X		0.29	0.24	0.21	-							-	-	-	-	-
Sugarbeets X		0.26	0.22	-								-	-	-	-	-
Snap Beans X		0.33	0.29	-								-	-	-	-	-
Tomatos X		0.28	0.28	-	-	0.18						-	-	-	-	-

FP - Fall Plow SP - Spring Plow
 % cover- per cent residue cover immediately after planting
 C - Cover management factor for single year in a 2 year rotation
 y 1 - one year after alfalfa or meadow
 X - Rye cover

ZONE 102B

SINGLE YEAR 'C' VALUES

CROP SEQUENCE

CROP SEQUENCE	PLOW		SPRING MULCH TILLAGE							RIDGE	NO - TILLAGE					
	TILLAGE		% cover							TILL	% cover					
	FP	SP	<10	10	20	30	40	50	60	cover	C	<10	10	20	30	40
23 ton																

AFTER:																
Cabbage X		0.23	0.19	-	0.15	-						-	-	-	-	-
												-	0.07	-	-	-
Corn, Grain X		0.17	-	0.14	0.11	-						-	-	-	-	-
												-	-	0.03	-	-
Corn, Silage X		0.26	0.23	0.22	0.18	0.17	0.14	-				-	-	-	-	0.15
												0.13	0.1	-	-	-
Cucumber X		0.33	0.3	0.26	-							-	-	-	-	-
												0.18	-	-	-	-
Potatoes X		0.42	0.37	-								0.17	-	-	-	-
												-	-	-	-	-
Soys - 30in X		0.27	0.21	-								-	-	-	-	-
												0.13	-	-	-	-
Soys - 7in X		0.27	0.22	0.19	-							-	-	-	-	-
												-	0.11	-	-	-
Sugarbeets X		0.24	0.21	-								-	-	-	-	-
												0.14	-	-	-	-
Snap Beans X		0.31	0.23	-								-	-	-	-	-
												0.16	-	-	-	-
Tomatoes X		0.26	0.26	-	-	0.17						-	-	-	-	-
												0.14	-	-	-	-

FP - Fall Plow SP - Spring Plow
 % cover- per cent residue cover immediately after planting
 C - Cover management factor for single year in a 2 year rotation
 y 1 - one year after alfalfa or meadow
 X - Rye cover

ZONE 102B

SINGLE YEAR 'C' VALUES

CROP SEQUENCE	PLOW		FALL MULCH TILLAGE							RIDGE		NO - TILLAGE					STRIP
	TILLAGE		* SPRING MULCH TILLAGE							TILL	% cover					TILL	
	FP	SP	<10	10	20	30	40	50	60	cover	C	<10	10	20	30	40	% cover-
300 cwt.																	
=====																	
AFTER:																	
Alfalfa	0.15	0.26															
Corn, Grain	0.22	0.18		0.14	0.12	0.1						-	-	-	-	-	50%-.05
				.14*	.11*	.09*						0.05	0.04	-	-	-	
Corn, Silage	0.35	0.35															
Oats	0.36	0.3		0.21	0.17							-	-	-	-	-	
				.19*	.16*							0.07	0.06	-	-	-	
Potato	0.43		0.42									0.37					
			.41*									-					
Snap Beans	0.52	0.51	0.51									-	0.46				
			.51*									-	-				
W. Wheat	0.22	0.2	0.17	0.14	0.12	0.09						-	-				
			.14*	.12*	.09*	.08*	.06*					0.03	0.03				

FP - Fall Plow SP - Spring Plow
 * Fall mulch tillage top number. Spring mulch tillage bottom number.
 % cover- per cent residue cover immediately after planting
 C - Cover management factor for single year in a 2 year rotation
 y 1 - one year after alfalfa or meadow

SINGLE YEAR 'C' VALUES

TECHNICAL GUIDE
SECTION
State-wide
WATER-33DB.12

CROP SEQUENCE	ZONE 102B															
	PLOW		FALL MULCH TILLAGE						RIDGE		NO - TILLAGE					
	TILLAGE		* SPRING MULCH TILLAGE						TILL		% cover					
12 cwt.	FP	SP	<10	10	20	30	40	50	60	% cover	C	<10	10	20	30	40
AFTER:																
Alfalfa	0.27	0.25		0.2	0.17							-	-	-	-	0.03
				.19*	.16*	.13*						-	-	-	-	-
Corn, Grain																
Corn, Silage																
Oats	0.49	0.41		0.36	0.32							-	-	-	-	0.08
				.33*	.27*							0.07	-	-	-	-
Potato, late	0.63	0.63	0.63													
			.63*													
Soys - 30in	0.5	0.41	0.43									-	-	0.14	-	-
			0.42									-	-	-	-	-
Soys - 7in	0.51	0.41	0.45									-	-	0.17	0.14	-
			0.41									-	-	-	-	-
Sugarbeet																
Wheat	0.4			0.27	0.21	0.17						-	-	-	-	-
												-	0.02	-	-	-

FP - Fall Plow SP - Spring Plow
 * Fall mulch tillage top number. Spring mulch tillage bottom number.
 % cover- per cent residue cover immediately after planting
 C - Cover management factor for single year in a 2 year rotation
 y 1 - One year after alfalfa or meadow

SINGLE YEAR 'C' VALUES

TECHNICAL GUIDE
SECTION
State-wide
WATER-33DB.16

CROP SEQUENCE	ZONE 102B														STRIP TILL % cover			
	PLOW		FALL MULCH TILLAGE * SPRING MULCH TILLAGE % cover						RIDGE TILL %	NO - TILLAGE % cover								
	FP	SP	<10	10	20	30	40	50	60	cover	C	<10	10	20		30	40	90
16 cwt.																		
AFTER:																		
Alfalfa	0.26	0.23		0.18	0.15							-	-	-	-		0.03	
				.17*	.14*							-	-	-	-		-	
Corn, Grain	0.3			0.21	-							-	-	-			50%-.05	
				-	.17*							-	-	0.02				
Corn, Silage																		
Oats	0.39	0.32		0.25	0.2	0.16						-	-	-	-	-	4%-.35	
				.24*	.19*	.15*						0.04	0.03	0.02	-	-		
Potato, late	0.57	0.56	0.55															
			.55*															
Soys - 30in	0.45	0.36	0.37	0.33								-	-	0.14	0.09	0.06		
			.33*	.29*								0.04	-	-	-	-		
Soys - 7in	0.45	0.32	0.38	0.31								-	-	0.14	0.09	0.06		
			.34*	.27*								0.04	-	-	-	-		
Sugarbeet	0.45	0.44	0.45														4%-.34	
			.40*									-	-	-				
Wheat	0.32			0.2	0.15	0.12						-	-	0.02				
												-	-					

FP - Fall Plow SP - Spring Plow
 * Fall mulch tillage top number. Spring mulch tillage bottom number.
 % cover- per cent residue cover immediately after planting
 C - Cover management factor for single year in a 2 year rotation
 y 1 - One year after alfalfa or meadow

SINGLE YEAR 'C' VALUES

TECHNICAL GUIDE
SECTION
State-wide
WATER-33DB.20

CROP SEQUENCE	ZONE 102B														STRIP TILL % cover		
	PLOW		FALL MULCH TILLAGE * SPRING MULCH TILLAGE % cover						RIDGE TILL		NO - TILLAGE % cover						
	FP	SP	<10	10	20	30	40	50	60	cover	C	<10	10	20		30	40
20 cwt.																	
AFTER:																	
Alfalfa	0.23	0.21		0.16	0.14	0.11						-	-	-	0.03	0.03	
				.16*	.13*	10*						-	-	-	-	-	
Corn, Grain																	
Corn, Silage																	
Oats	0.31	0.25		0.19	0.15	0.12						-	-	-	-	-	
			.20*	.19*	.14*							0.02	0.02	-	-	-	
Potato, late	0.52	0.51	0.51														
			0.5														
Soys - 30in	0.4	0.32	0.35									-	-	-	0.07	0.06	
			0.3									-	-	-	-	-	
Soys - 7in	0.41	0.32	0.35									-	-	-	0.07	0.06	
			0.3									-	-	-	-	-	
Sugarbeet																	
Wheat	0.26																

FP - Fall Plow SP - Spring Plow
 * Fall mulch tillage top number. Spring mulch tillage bottom number.
 % cover- per cent residue cover immediately after planting
 C - Cover management factor for single year in a 2 year rotation
 y 1 - One year after alfalfa or meadow

ZONE 102B

SINGLE YEAR 'C' VALUES

CROP SEQUENCE

CROP SEQUENCE	PLOW		SPRING MULCH TILLAGE								RIDGE	NO - TILLAGE					
	FP	SP	% cover								TILL	% cover					
100 Bu			<10	10	20	30	40	50	60	cover	C	<10	10	20	30	40	
AFTER:																	
Corn, Grain X		0.18			-	0.12	0.1	0.08	-				-	-	-		
Corn, Silage X		0.32	-		0.21	0.19	0.16	0.13	-			-	-	-	-		
Potatoes X		0.44	0.37	0.33	0.31	-						-	-				
Soys - 30in X		0.28	-	0.22	-							-	-				
Soys - 7in X		0.28	0.23	0.19	-							-	-	-	-		
Snap Beans X		0.38	0.32	-								-	-				
Tomatoes X		0.31	0.31	-	-	0.21						-	-				

FP - Fall Plow SP - Spring Plow
% cover- per cent residue cover immediately after planting
C - Cover management factor for single year in a 2 year rotation
y 1 - one year after alfalfa or meadow
X - Rye cover crop

ZONE 102B

SINGLE YEAR 'C' VALUES

CROP SEQUENCE

CROP SEQUENCE	PLOW		SPRING MULCH TILLAGE								RIDGE	NO - TILLAGE					
	FP	SP	% cover								TILL	% cover					
125 BU	FP	SP	<10	10	20	30	40	50	60	cover	C	<10	10	20	30	40	

AFTER:																	
Corn, Grain X		0.14			-	0.09	0.07	0.06	-				-	-	-		
													-	0.03	-		
Corn, Silage X		0.27		-	0.18	0.16	0.14	0.11	-			-	-	-	-		
												0.11	0.09	-			
Potatoes X		0.38	0.32	0.29	0.27	-						-	-				
												0.16	-				
Soys - 30in X		0.24	-	0.19	-							-	-				
												0.09	-				
Soys - 7in X		0.24	0.2	0.16	-							-	-	-			
												-	0.08	-			
Snap Beans X		0.33	0.28	-								-	-				
												0.17	-				
Tomatoes X		0.27	0.27	-	-	0.18						-	-				
												0.15	-				

FP - Fall Plow SP - Spring Plow
 % cover- per cent residue cover immediately after planting
 C - Cover management factor for single year in a 2 year rotation
 y 1 - one year after alfalfa or meadow
 X - Rye cover crop

ZONE 102B

SINGLE YEAR 'C' VALUES

CROP SEQUENCE

CROP SEQUENCE	PLOW		SPRING MULCH TILLAGE								RIDGE	NO - TILLAGE					
	FP	SP	% cover								TILL	% cover					
150 Bu	FP	SP	<10	10	20	30	40	50	60	cover	C	<10	10	20	30	40	

AFTER:																	
Corn, Grain X		0.11			-	0.07	0.05	-	0.04				-	-	-		
													-	0.02	-		
Corn, Silage X		0.25		-	0.16	0.14	0.12	0.09	-			-	-	-	-		
												0.09	0.07	-			
Potatoes X		0.35	0.29	0.26	0.24	-						-	-				
												0.15	-				
Soys - 30in X		0.22	-	0.16	-							-	-				
												0.08	-				
Soys - 7in X		0.21	0.17	0.14	-							-	-	-			
												-	0.07	-			
Snap Beans X		0.3	0.25	-								-	-				
												0.15	-				
Tomatoes X		0.24	0.24	-	-	0.16						-	-				
												0.13	-				

FP - Fall Plow SP - Spring Plow
 % cover- per cent residue cover immediately after planting
 C - Cover management factor for single year in a 2 year rotation
 y 1 - one year after alfalfa or meadow
 X - Rye cover crop

ZONE 102B

SINGLE YEAR 'C' VALUES

CROP SEQUENCE

CROP SEQUENCE	PLOW		SPRING MULCH TILLAGE								RIDGE	NO - TILLAGE					
	FP	SP	% cover								TILL	% cover					
80 Bu			<10	10	20	30	40	50	60	cover	C	<10	10	20	30	40	
=====																	
AFTER:																	
Corn, Grain X		0.23			-	0.16	0.13	0.12	-				-	-	-		
Corn, Silage X		0.36	-		0.24	0.22	0.19	0.16	-			-	-	-	-		
Potatoes X		0.49	0.43	0.39	0.35	-						-	-				
Soys - 30in X		0.33	-	0.26	-							-	-				
Soys - 7in X		0.32	0.27	0.23	-							-	-	-			
Snap Beans X		0.44	0.37	-								-	-				
Tomatoes X		0.36	0.36	-	-	0.25						-	-				

FP - Fall Plow SP - Spring Plow
% cover- per cent residue cover immediately after planting
C - Cover management factor for single year in a 2 year rotation
y 1 - one year after alfalfa or meadow
X - Rye cover crop

SINGLE YEAR 'C' VALUES

ZONE 102B

TECHNICAL GUIDE

SECTION I-C

State-wide

WATER-33OT.50

CROP SEQUENCE

OATS	PLOW		FALL MULCH TILLAGE								NO - TILLAGE				
	TILLAGE		* SPRING MULCH TILLAGE								% cover				
50 bu.	FP	SP	<10	10	20	30	40	50	60	<10	10	20	30	40	
AFTER:															
Alfalfa	0.07	0.04	0.06 .04*	0.05 .04*	0.04 .03*					-	-	-	-	-	-
Cabbage	0.18	0.14	0.15 .12*							-	-	-	0.06	0.05	
Cucumbers	0.28	0.28	0.25 .24*							-	0.15	0.12			
Corn, Grain	0.11	0.08			0.05	0.05	0.03	0.03		-	-	-	-	-	
					-	-	.02*	-		-	-	0.01	0.005	-	
Corn, Silage	0.2	0.19	0.17 .16*	0.13 .12*	-					-	-	0.07	0.05	-	
					-					-	-	-	-	-	
Dry Beans	0.19	0.15		0.12 .18	.14*					-	-	-	-	0.03	
										0.03	-	-	-	-	
Potato, Early	0.33	0.33	0.31 .32*							0.31	0.23				
										-	-				
Potato, Late	0.23	0.23	0.22 .22*							0.21	0.16				
										-	-				
Soys - 30in	0.12	0.12		0.11 .10*	- .07*					-	-	-			
										-	0.02	0.01			
Soys - 7in	0.12	0.12		0.07 .06*	0.06 0.05	0.05	0.04	0.03	0.03	-	-	-	-	-	
						0.04	0.03	0.03		0.03	0.03	0.02	-	-	
Snap beans	0.3	0.29													
Sunflowers	0.14	0.11													

FP - Fall Plow

SP - Spring Plow

* Fall mulch tillage top number. Spring mulch tillage bottom number.

% cover- per cent residue cover immediately after planting

C - Cover management factor for single year in a 2 year rotation

y 1 - One year after alfalfa or meadow

SINGLE YEAR 'C' VALUES

ZONE 102B

TECHNICAL GUIDE

SECTION I-C

State-wide

WATER-33OT.70

CROP SEQUENCE

OATS	PLOW		FALL MULCH TILLAGE								NO - TILLAGE				
	TILLAGE		* SPRING MULCH TILLAGE								% cover				
	FP	SP	<10	10	20	30	40	50	60	<10	10	20	30	40	
70 bu											50	60	70	80	90

AFTER:															
Alfalfa	0.05	0.03	0.04								-	-	0.03	-	-
			.02*								0.005	0.005	-	-	-
Cabbage	0.14	0.1	0.11	-							-	-	-	0.04	0.03
			.09*	.08*							-	-	-	-	-
Corn, Grain	0.07	0.05				0.03	0.02	0.02			-	-	-	-	-
					.04*	.02*	.02*	.01*	.01*		-	-	-	0.003	0.002
Corn, Silage	0.15	0.14	0.13	-	-						-	0.04	0.03	0.03	-
			.12*	.09*	-						-	-	-	-	-
Cucumbers	0.23	0.23	0.2								-	0.11	0.08	-	-
			.19*								-	-	-	-	-
Dry Beans	0.15	0.1	0.13	0.1							-	-	-	-	-
			.09*	.08*							0.02	0.01	-	-	-
Potato, Early	0.27	0.26	0.24								0.23	0.21			
			.24*								-	-			
Potato, Late	0.17	0.17	0.16								-	0.14			
			.16*								-	-			
Snap beans	0.25	0.24													
Soys - 30in	0.11	0.08	0.09	0.08	0.06						-	-	-	-	-
			.05*	.05*	.04*	.03*	0.03				-	0.01	0.007	0.006	-
Soys - 7in	0.08	0.08		0.07	0.06	0.05	0.04	0.03			-	-	-	-	-
				.05*	.05*	.04*	.03*	0.03			-	0.03	0.02	0.01	-
Sunflowers	0.09	0.07													

FP - Fall Plow

SP - Spring Plow

* Fall mulch tillage top number. Spring mulch tillage bottom number.

% cover- per cent residue cover immediately after planting

C - Cover management factor for single year in a 2 year rotation

y 1 - One year after alfalfa or meadow

SINGLE YEAR 'C' VALUE

ZONE 102B

TECHNICAL GUIDE

SECTION I-C

State-wide

WATER-33PE.200

CROP SEQUENCE

CROP SEQUENCE	POTATO -Early	PLOW		FALL MULCH TILLAGE						RIDGE		STRIP - TILLAGE				
		TILLAGE		* SPRING MULCH TILLAGE						TILL	% cover					
		FP	SP	<10	10	20	30	40	50	60	% cover	C	<10	10	20	30
=====																
AFTER:																
Alfalfa	y1	0.12	0.07	0.07	0.07											
	y2			.06*	.05*											
Corn, Grain		0.35	0.31	0.29	0.27	-	-	-	-			-	-	-	-	0.31
				0.28	0.27	0.24	0.22	0.22	0.19			0.29	-	-	-	-
Oats		0.3	0.25	0.25	0.23	0.21						-	-	0.18	0.16	-
				.23*	.22*	.19*						-	-	-	-	-
Potato, Early		0.52	0.52	0.52	0.51											
				.52*	.51*											
Snap beans				0.41												
Soys - 30in		0.29	0.24	0.25	0.23											
				0.23	.21*											
Soys - 7in		0.21														
Sugarbeets		0.3	0.3	0.29	0.29											
				.29*	.29*											
Sunflowers		0.31	0.27													
Wheat		0.24	0.2	0.19	0.17	0.15						-	-	0.13	0.11	-
				.18*	.16*	.14*										

FP - Fall Plow

SP - Spring Plow

* Fall mulch tillage top number. Spring mulch tillage bottom number.

% cover- per cent residue cover immediately after planting

C - Cover management factor for single year in a 2 year rotation

y 1 - One year after alfalfa or meadow

SINGLE YEAR 'C' VALUE

ZONE 102B

TECHNICAL GUIDE
SECTION I-C
State-wide
WATER-33PE.320

CROP SEQUENCE

CROP SEQUENCE	POTATO -Early	PLOW		FALL MULCH TILLAGE							RIDGE		STRIP - TILLAGE				
		TILLAGE		* SPRING MULCH TILLAGE							TILL	% cover					
		FP	SP	<10	10	20	30	40	50	60	cover	C	<10	10	20	30	40
320 cwt																	
=====																	
AFTER:																	
Alfalfa	y1	0.09	0.05	0.07	0.06												
				.06*	.05*												
	y2	0.38	0.36	0.36													
				.36*													
Corn, Grain		0.28	0.25	0.23	0.21	0.09	0.08	0.06	-	-							0.06
				.23*	.22*	.19*	.17*	.15*	-	-							-
Corn, Silage																	
Oats		0.21	0.17		0.15	0.12											0.09
					.14*	.12*									0.07		-
Potato, Early		0.44	0.44	0.43													
				.44*													
Soys - 30in		0.23	0.22	0.19	0.18												
					.15*+												
Soys - 7in		0.21															
Sugarbeets		0.23	0.23	0.22													
				.22*													
Sunflowers		0.26	0.21														
Wheat		0.16	0.13	0.12	0.11	0.09											
				.12*	.11*	.09*											

FP - Fall Plow SP - Spring Plow
 * Fall mulch tillage top number. Spring mulch tillage bottom number.
 % cover- per cent residue cover immediately after planting
 C - Cover management factor for single year in a 2 year rotation
 y 1 - One year after alfalfa or meadow

ZONE 102B

TECHNICAL GUIDE
SECTION I-C
State-wide
WATER-33PE.450

SINGLE YEAR 'C' VALUES

CROP SEQUENCE	, early	PLOW		FALL MULCH TILLAGE * SPRING MULCH TILLAGE							RIDGE TILL		STRIP - TILLAGE % cover					STRIP TILL	
		FP	SP	<10	10	20	30	40	50	60	cover	C	<10	10	20	30	40	90	% cover - C
450 cwt.																			
=====																			
AFTER:																			
Alfalfa																			
Corn, Grain	0.23	0.2	0.19	0.17	-	-	-					-	-	-	-	-	0.23		
			0.19	0.18	0.15	0.14	0.13					0.2	-	-	-	-	-		
Sunflowers	0.21	0.17																	

FP - Fall Plow SP - Spring Plow
* Fall mulch tillage top number. Spring mulch tillage bottom number.
% cover- per cent residue cover immediately after planting
C - Cover management factor for single year in a 2 year rotation
y 1 - one year after alfalfa or meadow

SINGLE YEAR 'C' VALUES

ZONE 102B

TECHNICAL GUIDE

SECTION I-C

State-wide

WATER-33PL.200

CROP SEQUENCE

CROP SEQUENCE	POTATO, Late	PLOW		FALL MULCH TILLAGE						RIDGE		STRIP - TILLAGE					
		TILLAGE		* SPRING MULCH TILLAGE						TILL	% cover						
		FP	SP	<10	10	20	30	40	50	60	cover	C	<10	10	20	30	40
200 cwt.																	
=====																	
AFTER:																	
Alfalfa	y1	0.19	0.11	0.16	0.14	0.12											
				.11*	.10*												
Potato	y2	0.47	0.45	0.45	0.44												
after Alfalfa				.44*	.44*												
Corn, Grain		0.34	0.28									0.25	0.23	0.2			
100 bu				0.25	0.23	0.2	0.17	0.15	-			-	-	-			
Dry beans		0.5		0.48													
				.49*													
Oats		0.4	0.33	0.33	0.3	0.25						0.15	0.12	0.24	0.21	-	
				0.3	.28*	.24*						-	-	-	-	-	
Potato, late		0.52	0.51	0.51								0.51	-	-	-	-	
				.51*													
Soys - 30in			0.49	0.38	0.34												
Soys - 7in				0.39	0.35							0.32	0.31	0.28			
				.35*	.33*							-	-	-			
Sugarbeet		0.41	0.41	0.4													
W. Wheat			0.28	0.26	0.23	0.2						-	-	0.17	0.14	-	
				.24*	.22*	.19*						-	-	-	-	-	

FP - Fall Plow

SP - Spring Plow

* Fall mulch tillage top number. Spring mulch tillage bottom number.

% cover- per cent residue cover immediately after planting

C - Cover management factor for single year in a 2 year rotation

y 1 - One year after alfalfa or meadow

SINGLE YEAR 'C' VALUES

ZONE 102B

TECHNICAL GUIDE

SECTION I-C

State-wide

WATER-33PL.320

CROP SEQUENCE

CROP SEQUENCE	POTATO, Late	PLOW		FALL MULCH TILLAGE							RIDGE	STRIP - TILLAGE					
		TILLAGE		* SPRING MULCH TILLAGE							TILL	% cover					
		FP	SP	<10	10	20	30	40	50	60	cover	C	<10	10	20	30	40
320 cwt.																	
=====																	
AFTER:																	
Alfalfa	y1	0.16	0.08		0.12												
					.08*												
Alfalfa	y2	0.4	0.37		0.38												
					.37*												
Corn, Grain		0.23	0.18		0.13	0.11	0.09	0.07	-			-	0.13	0.11	0.08	0.07	
					.13*	.11*	-	-	-			0.06	-	-	-	-	
Dry beans		0.42	0.41	0.41													
				.41*													
Oats		0.18	0.2		0.16							-	-	-	-	0.15	
					.14*							-	-	-	-	-	
Potato		0.44	0.43	0.43								-	-	-	-	-	
				.42*													
Soys - 30in		0.34	0.25		0.25									0.17	-	-	
					.21*									-	-	-	
Soys - 7in		0.31	0.24		0.24							-	-	0.16	-	-	
					.20*							-	-	-	-	-	
Sugarbeet		0.33	0.32		0.31												
W. Wheat		0.23	0.18		0.14							-	-	0.09	-	-	
					.13*												

FP - Fall Plow

SP - Spring Plow

* Fall mulch tillage top number. Spring mulch tillage bottom number.

% cover- per cent residue cover immediately after planting

C - Cover management factor for single year in a 2 year rotation

y 1 - One year after alfalfa or meadow

ZONE 102B

TECHNICAL GUIDE
SECTION I-C
State-wide
WATER-33PL.450

SINGLE YEAR 'C' VALUES

CROP SEQUENCE	PLOW		FALL MULCH TILLAGE * SPRING MULCH TILLAGE								RIDGE TILL		STRIP - TILLAGE % cover				
	FP	SP	<10	10	20	30	40	50	60	cover	C	<10	10	20	30	40	
POTATO, LATE																	
450 cwt.																	
AFTER:																	
Alfalfa																	
Corn, Grain	0.23	0.19	-	-	-	-	-	-	-			0.16	0.14	0.12			
Corn, Silage																	
Field Beans																	
Potatoes																	
Soys - 30in																	
Soys - 7in																	
Sugarbeets																	
W. Wheat																	

FP - Fall Plow SP - Spring Plow
 * Fall mulch tillage top number. Spring mulch tillage bottom number.
 % cover- per cent residue cover immediately after planting
 C - Cover management factor for single year in a 2 year rotation
 y 1 - one year after alfalfa or meadow

SINGLE YEAR 'C' VALUES

ZONE 102B

TECHNICAL GUIDE

SECTION I-C

State-wide

WATER-33SB.35

CROP SEQUENCE

CROP SEQUENCE	PLOW		FALL MULCH TILLAGE							RIDGE		NO - TILLAGE					STRIP
	TILLAGE		* SPRING MULCH TILLAGE							TILL	% cover					TILL	
	FP	SP	<10	10	20	30	40	50	60	% cover	C	<10	10	20	30	40	%
35 bu.																	cover - C
AFTER:																	
Alfalfa																	
Corn, Grain	0.21	0.2	-	0.16	0.14	0.11	0.09	0.07			70% - 0.05	-	-				50% - .04
					.09*	.09*	.08*	.06*	-		80% - 0.04	0.04	0.03				60% - .03
Corn, Silage	0.39	0.38	0.38	-								0.19	-				
			.36*	-								-	-				
Dry Beans	0.4	0.34	0.36	0.32								-	-	0.13	0.11	-	
			0.33	.29*								-	-	-	-	-	
Oats	0.27	0.26		0.17								-	-	-	-	-	
				.19*								0.04	0.03	0.02	-	-	
Potato, Early	0.64	0.63	0.62														
			.62*														
Potato, Late	0.47	0.36	0.44														0% - .42
			.44*														
Soybeans - 30in	0.36	0.3	0.29	0.26	0.2	0.18	0.13				20% - 0.16	-	-	-	0.09	0.07	40% - .08
			.25*	.23*	.20*	.15*	-				10% - 0.22	0.05	-	-	-	-	50% - .07
Sugarbeet	0.38	0.32	0.32									0.31					
Wheat	0.24	0.24	-	-	-	-	-	-				-	-	-	-	-	50% - .04
			.15*	.11*	.09*	-	-	-				-	0.03	0.02	0.01		60% - .03

FP - Fall Plow

SP - Spring Plow

* Fall mulch tillage top number. Spring mulch tillage bottom number

% cover- per cent residue cover immediately after planting

C - Cover Management Factor for single year in a 2 year rotation

y 1 - One year after alfalfa or meadow

ZONE 102B

SINGLE YEAR 'C' VALUES

CROP SEQUENCE	PLOW		FALL MULCH TILLAGE							RIDGE TILL	NO - TILLAGE					STRIP TILL		
	FP	SP	* SPRING MULCH TILLAGE								% cover							
SOYS 30in	TILLAGE		% cover							%	% cover					% cover - C		
45 bu.	FP	SP	<10	10	20	30	40	50	60	cover	C	<10	10	20	30	40	90	% cover - C
AFTER:																		
Alfalfa																		
Corn, Grain 150 bu	0.17	0.16	-	0.1	0.08	0.07	0.05	-				-	-	-	-	-		
			.10*	.09*	.07*	.06*	.05*	.04*				0.05	0.04	0.03	0.03	-		
Corn, Silage	0.35	0.33	0.33									0.16	0.15					
			0.32									-	-					
Dry Beans	0.37	0.3	0.34	0.3										0.11	0.1			
			0.28	0.25										-	-			
Oats		0.2	0.17	0.13								-	-	-				
			0.16	0.15	0.12							-	0.02	0.02				
Potatoes	0.56	0.56	0.56															
			0.56															
Soys - 30in	0.32	0.26	0.25	0.23	0.19	0.16						10% - 0.18	-	-	-	-	0.06	
			.21*	.20*	.17*	.15*						20% - 0.16	-	-	-	-	-	
Soys - 7in																		
Sugarbeets												0.25						
W. Wheat	0.19	0.19																

FP - Fall Plow SP - Spring Plow
 * Fall mulch tillage top number. Spring mulch tillage bottom number.
 % cover- per cent residue cover immediately after planting
 C - Cover management factor for single year in a 2 year rotation
 y 1 - one year after alfalfa or meadow

ZONE 102B

TECHNICAL GUIDE
SECTION I-C
State-wide
WATER-33SC.100

SINGLE YEAR 'C' VALUES

CROP SEQUENCE

CROP SEQUENCE	PLOW		FALL MULCH TILLAGE							RIDGE		NO - TILLAGE				
	TILLAGE		* SPRING MULCH TILLAGE							TILL		% cover				
100 cwt.	FP	SP	<10	10	20	30	40	50	60	cover	C	<10	10	20	30	40
AFTER:																
Cabbage	0.32	0.26	0.27													
Corn, Grain			.21*													
Corn, Silage																
Field Beans																
Potatoes																
Soys - 30in																
Soys - 7in																
Sugarbeets																
W. Wheat																

FP - Fall Plow SP - Spring Plow PP - Plow Plant
 * Fall mulch tillage top number. Spring mulch tillage bottom number.
 % cover- per cent residue cover immediately after planting
 C - Cover management factor for single year in a 2 year rotation
 y 1 - one year after alfalfa or meadow

SINGLE YEAR 'C' VALUES

ZONE 102B

TECHNICAL GUIDE

SECTION I-C

State-wide

WATER-33SD.35

CROP SEQUENCE

SOYS, DRILL 7in	PLOW		FALL MULCH TILLAGE								NO - TILLAGE				
	TILLAGE		* SPRING MULCH TILLAGE								% cover				
	FP	SP	<10	10	20	30	40	50	60	<10	10	20	30	40	
35bu											50	60	70	80	90

AFTER:															
Alfalfa															
Corn, Grain	0.19	0.15	0.15	0.12	0.1	0.08	0.07	-			-	-	-	-	0.05
				.12*	.10*	.08*	.07*	-			0.04	0.03	-	-	-
Corn, Silage	0.32	0.31	0.31								-	0.15			
			.30*								-	-			
Dry Beans	0.33	0.25	0.28	0.25	-						-	-	0.1	0.09	-
				.24*	-						-	-	-	-	-
Oats	0.22	0.19		0.14	-						-	-			
			.11*	-							-	0.04	0.03		
Potato, Early	0.49	0.45													
Potato, late	0.34	0.29	0.35												
			.35*												
Soys Drill 7in	0.26	0.2		0.18	0.13	0.1	0.09	-			-	-	-	0.08	0.07
				.15*	.12*	.09*	.08*	-			-	-	-	-	-
Sugarbeet	0.26	0.25	0.25								0.24				
			.24*								-				
Wheat	0.19	0.1		0.13	0.1	0.08					-	-	-	-	
			.11*	.09*	.08*	.05*	.04*	.04*			-	0.02	0.02	0.02	

FP - Fall Plow SP - Spring Plow PP - Plow Plant

* Fall mulch tillage top number. Spring mulch tillage bottom number.

% cover- per cent residue cover immediately after planting

C - Cover management factor for single year in a 2 year rotation

y 1 - One year after alfalfa or meadow

SINGLE YEAR 'C' VALUES

ZONE 102B

TECHNICAL GUIDE

SECTION I-C

State-wide

WATER-33SD.40

CROP SEQUENCE

SOYS 7in	PLOW		FALL MULCH TILLAGE							RIDGE		NO - TILLAGE				
	TILLAGE		* SPRING MULCH TILLAGE							TILL	C	% cover				
40 BU	FP	SP	<10	10	20	30	40	50	60	cover	<10	<10	10	20	30	40
AFTER:																
Alfalfa																
Corn, Grain	0.17	0.13	0.13	0.11	0.09	0.07	0.06					-	-			
				.11*	.08*	.07*						0.03	0.03			
Corn, Silage	0.3	0.29	0.29	-								0.14	0.13			
			.28*	-								-	-			
Dry Beans	0.31		0.27	0.22								-	-	0.09	0.08	-
			0.23	.21*								-	-	-	-	-
Oats	0.17	0.17	0.17									-	-	-	-	-
												-	0.04	0.03	0.02	-
Potato, Early																
Potato, Late			0.34									0.34				
			.34*													
Soybeans - 30in												-	-	-	-	
												-	-	-	-	
Sugarbeet	0.24	0.23	0.23									0.21				
			0.22									-				
Wheat		0.13										-	-			
												0.04	0.05			

FP - Fall Plow

SP - Spring Plow

* Fall mulch tillage top number. Spring mulch tillage bottom number

% cover- per cent residue cover immediately after planting

C - Cover Management Factor for single year in a 2 year rotation

y 1 - One year after alfalfa or meadow

SINGLE YEAR 'C' VALUES

ZONE 102B

TECHNICAL GUIDE

SECTION I-C

State-wide

WATER-33SG.16

CROP SEQUENCE

SUGAR BEETS	PLOW TILLAGE	FALL MULCH TILLAGE * SPRING MULCH TILLAGE									RIDGE TILL % cover C	NO - TILLAGE % cover					STRIP TILLAGE % cover C	
		FP	SP	% cover						<10		10	20	30	40			
				<10	10	20	30	40	50							60		70
16 TON																		
=====																		
AFTER:																		
Alfalfa	y1	0.15	0.11	0.13	0.12	0.11												40% - .09
				.10*	0.1	0.09												50% - .07
Corn, Grain						-												30% - .05
Corn, Silage																		
Dry Beans																		
Potato, early		0.56	0.56	0.56														
				.56*														
Potato, late		0.44	0.44	0.44														20%-14
																		30%-12
Soys - 30in																		
Soys - 7in		0.35	0.29	0.31	0.28													20%-23
				.28*	.26*													30%-21
Wheat		0.25	0.21	0.19	0.18	0.15												20%-14
				.18*	.17*	.15*												30%-12

FP - Fall Plow

SP - Spring Plow

* Fall mulch tillage top number. Spring mulch tillage bottom number.

% cover- per cent residue cover immediately after planting

C - Cover management factor for single year in a 2 year rotation

y 1 - One year after alfalfa or meadow

SINGLE YEAR 'C' VALUES

ZONE 102B

TECHNICAL GUIDE

SECTION I-C

State-wide

WATER-33SG.20

CROP SEQUENCE

SUGAR BEETS	20 ton	PLOW		FALL MULCH TILLAGE						RIDGE	NO - TILLAGE					STRIP			
		TILLAGE		* SPRING MULCH TILLAGE						TILL	% cover					TILLAGE			
		FP	SP	<10	10	20	30	40	50	60	% cover	C	<10	10	20	30	40	90	% cover

AFTER:																			
Alfalfa	y1	0.12	0.08	0.13	0.12	0.11	0.1												40% - .07
Sugarbeets	y2	0.72	0.71	.08*	.08*	.07*	.05*												0% - .22
Corn, Grain		0.17	0.14		0.13	-													30% - .05
Corn, Silage					.11*	-													
Dry Beans		0.27	0.28	0.28															10% - .18
Potato, early		0.48	0.48	0.48															
Potato, late		0.37	0.37	0.36															
Soys - 30in		0.26	0.22	0.23															30% - .15
Soys - 7in		0.29	0.24	0.26	0.23														40% - .11
Wheat		0.2	0.17		0.14	0.12													30% - .09
					.14*	.12*													20% - .11

FP - Fall Plow

SP - Spring Plow

* Fall mulch tillage top number. Spring mulch tillage bottom number.

% cover- per cent residue cover immediately after planting

C - Cover management factor for single year in a 2 year rotation

y 1 - One year after alfalfa or meadow

ZONE 102B

TECHNICAL GUIDE
SECTION I-C
State-wide
WATER-33SN.60

SINGLE YEAR 'C' VALUES

CROP SEQUENCE	PLOW		FALL MULCH TILLAGE * SPRING MULCH TILLAGE % cover							RIDGE TILL	NO - TILLAGE % cover					STRIP TILL	
	FP	SP	0	10	20	30	40	50	60	cover	C	10	20	30	40	50	% cover - C
SNAP BEANS																	
60 BU																	
=====																	
AFTER:																	
Alfalfa	0.11	0.06															
Corn, Grain	0.17	0.13	0.12	0.12	0.09	0.06	0.05	0.04				-	-	-	-	0.03	
			.11*	.10*	.08*	.05*	.04*	.04*				0.02	0.01	-	-	-	
Corn, Silage	0.3	0.29															
Cucumbers	0.38	0.37	0.37									0.33	-				
			.37*									-	-				
Grain Sorghum	0.15	0.11		0.1	0.08							-	-	-	0.02	0.02	
				.08*	.07*							-	-	-	-	-	
Oats	0.22	0.17															
Potato	0.36	0.37	0.36	-								0.33	-				0%-35
			.35*	-								-	-				
Sunflowers	0.19	0.15	0.13	0.12								-	-	0.04	-	-	
			.13*	.12*								-	-	-	-	-	
Wheat	0.14	0.13	0.14	0.12	0.11							-	-	-	-	0.03	
				.12*	.09*	.07*						0.02	-	-	-	-	

FP - Fall Plow SP - Spring Plow PP - Plow Plant
 * Fall mulch tillage top number. Spring mulch tillage bottom number.
 % cover- per cent residue cover immediately after planting
 C - Cover management factor for single year in a 2 year rotation
 y 1 - one year after alfalfa or meadow

ZONE 102B

SINGLE YEAR 'C' VALUES

CROP SEQUENCE	PLOW		FALL MULCH TILLAGE							RIDGE		NO - TILLAGE				
	FP	SP	* SPRING MULCH TILLAGE							TILL	C	% cover				
SUNFLOWERS	TILLAGE		% cover							%		<10	10	20	30	40
14 cwt	FP	SP	<10	10	20	30	40	50	60	cover	C	50	60	70	80	90
AFTER:																
Alfalfa																
Corn, Grain																
Grain Sorghum	0.36	0.3	0.28	0.24	0.21							-	-	-	-	0.06
			.25*	.23*	.20*							0.05	-	-	-	-
Oats	0.4	0.32														
Potato	0.55	0.49														
Snap beans	0.66	0.63	0.63	-								0.3	-			
			0.62	-								-	-			
Soys - 7in																
Sugarbeets																
W. Wheat																

FP - Fall Plow SP - Spring Plow
 * Fall mulch tillage top number. Spring mulch tillage bottom number.
 % cover- per cent residue cover immediately after planting
 C - Cover management factor for single year in a 2 year rotation
 y 1 - one year after alfalfa or meadow

SINGLE YEAR 'C' VALUES

ZONE 102B

TECHNICAL GUIDE

SECTION I-C

State-wide

WATER-33WW.40

CROP SEQUENCE

WHEAT 40 bu	PLOW TILLAGE FP	FALL MULCH TILLAGE								NO - TILLAGE								
		% cover								% cover								
		<10	10	20	30	40	50	60	<10	10	20	30	40					
AFTER:																		
Alfalfa	0.06	-	0.06	0.05													0.02	-
Corn, Grain	0.08				0.05	0.04	0.03	0.03	0.02									
Corn, Silage	-	-	0.12	0.09														
Cucumber	0.19	-	0.19															
Dry Beans	0.12	-	0.1	0.08	0.07													
Potato, early	0.23	-	0.22															
Potato, late	0.18	-	0.18															
Soys - 30in	0.1	-																
Soys - 7in	0.08	-		0.07	0.05	0.04	0.03	0.02										0.01
Snap beans	0.17	-	0.15															
Summer fallow	0.59																	
Sugarbeet	0.08	-	0.08	0.06														
Wheat after summer fallow	0.12																	

FP - Fall Plow

SP - Spring Plow

* Fall mulch tillage top number. Spring mulch tillage bottom number.

% cover- per cent residue cover immediately after planting

C - Cover management factor for single year in a 2 year rotation

y 1 - One year after alfalfa or meadow

SINGLE YEAR 'C' VALUES

ZONE 102B

TECHNICAL GUIDE

SECTION I-C

State-wide

WATER-33WW.50

CROP SEQUENCE

WHEAT	PLOW TILLAGE FP	FALL MULCH TILLAGE								NO - TILLAGE					
		% cover								% cover					
		<10	10	20	30	40	50	60	<10	10	20	30	40		
50 bu	FP	<10	10	20	30	40	50	60	<10	10	20	30	40		

AFTER:															
Alfalfa	0.06	-	0.05	0.05								0.02	0.02	-	
Corn, Grain 125 bu	0.06	-		0.04	0.03	0.03	0.02	0.01							
											0.01	0.01	0.01	-	
Corn, Silage	0.1	-	0.09	0.07								0.03	0.02	-	
Cucumber	0.17	-	0.17									0.05	0.04	-	
Dry Beans	0.1	-	-	0.07	0.06										
												0.01			
Potato, early	0.17	-	0.16								0.15	0.11	-	-	
Potato, late	0.13	-	0.11								0.08	0.06			
Snap beans	0.16	-	0.15										0.05	0.04	
Soys - 30in	0.09	-		0.06	0.05	-	-	0.02							
											0.01	0.01	0.008	-	
Soys - 7in	0.07	-		0.06	0.04	0.03	0.02	0.01							
											0.01	0.01	0.008	-	
Sugarbeet	0.06	-	0.06	0.05							0.06	0.05	0.04		

FP - Fall Plow

SP - Spring Plow

* Fall mulch tillage top number. Spring mulch tillage bottom number.

% cover- per cent residue cover immediately after planting

C - Cover management factor for single year in a 2 year rotation

y 1 - One year after alfalfa or meadow

SINGLE YEAR 'C' VALUES
ZONE 102C

SECTION
State-wide
WATER-34AA.3T

CROP SEQUENCE

CROP SEQUENCE	ALFALFA	PLOW TILLAGE		FALL MULCH TILLAGE * SPRING MULCH TILLAGE % cover						RIDGE TILL	NO - TILLAGE % cover						
		FP	SP	<10	10	20	30	40	50	60	cover	C	<10	10	20	30	40
3 ton																	
AFTER:																	
Alfalfa	y2	0.035	0.035		0.017												0.008
	y3	0.013	0.013		0.012												0.006
Cucumbers		0.16	0.09														
Corn, Grain		0.12	0.09	0.09	0.08	0.06	0.05	0.04				-	-	-	-	-	0.02
				.07*	.06*	.05*						0.02	0.01	-	-	-	-
Corn, Silage		0.21	0.2	0.2								-	0.08	-			
				.19*								-	-	-			
Grain Sorghum		0.17	0.05	0.09	0.08	0.07	0.05	0.04	-			-	-	-	-	-	0.02
				.07*	.06*	.05*	.04*	.03*				0.02	0.02	-	-	-	-
Snap Beans		0.27	0.24									0.1	-				
												-	-				
Potato, late		0.19	0.18	0.18													
				.17*													
Soys - 30in		0.17	0.13	0.14	0.13	0.1						-	0.04	0.04	0.03		
				.12*	.11*	.09*						-	-	-	-	-	
Soys - 7in		0.17	0.13	0.15	0.12	0.1						-	0.07	0.05	0.04		
				.12*	.11*	.09*	.08*					-	-	-	-	-	
Sunflowers		0.14	0.11	0.12	0.1	0.07						-	-	-	0.03	0.03	
				.11*	.10*							0.02	-	-	-	-	
Wheat X												-	-	-	-	-	
												-	-	0.02	-	-	
Wheat												-	-	-	-	-	

FP - Fall plow SP - Spring Plow
 * Fall mulch tillage top number. Spring mulch tillage bottom number.
 % cover- per cent residue cover immediately after planting
 C - Cover management factor for single year in a 2 year rotation
 y 1 - One year after alfalfa or meadow

SINGLE YEAR 'C' VALUES

ZONE 102C

TECHNICAL GUIDE
SECTION I-C
State-wide
WATER-34AS.20T

CROP SEQUENCE

CROP SEQUENCE	PLOW TILLAGE		FALL MULCH TILLAGE * SPRING MULCH TILLAGE						RIDGE TILL	NO - TILLAGE						
	FP	SP	<10	10	20	30	40	50	60	% cover	C	<10	10	20	30	40
ASPARGUS seeding year																
Alfalfa																
Cabbage																
Corn, Grain	0.13	0.09														
Corn, Silage												-	-			
Grain Sorghum																
Oats	0.19	0.14														
Potato, late																
Soys - 30in																
Soys - 7in																
Sugar beets																
Sunflowers												-	-	-	-	
Wheat	0.2			0.14	0.1											

FP - Fall plow SP - Spring Plow
* Fall mulch tillage top number. Spring mulch tillage bottom number.
% cover- per cent residue cover immediately after planting
C - Cover management factor for single year in a 2 year rotation
y 1 - One year after alfalfa or meadow

SINGLE YEAR 'C' VALUES

ZONE 102C

TECHNICAL GUIDE
SECTION I-C
State-wide
WATER-34CB.400

CROP SEQUENCE

CABBAGE	PLOW TILLAGE		FALL MULCH TILLAGE * SPRING MULCH TILLAGE % cover							RIDGE TILL % cover	C	NO - TILLAGE % cover				
	FP	SP	<10	10	20	30	40	50	60			<10	10	20	30	40
400 CWT.																
AFTER:																
Alfalfa																
Corn, Grain		0.18	0.16	0.14	.13*	.12*	.08*							0.08		
Corn, Silage																
Oats	0.29	0.23	0.24	0.2	.18*	.13*									0.08	
Potato, late																
Soys - 30in																
Soys - 7in																
Sugarbeet																
Sweet Corn	0.33	0.28	0.27	.21*												
Wheat	0.23			0.13	.14*	.12*	.09*	.07*							0.05	

FP - Fall plow SP - Spring Plow
 * Fall mulch tillage top number. Spring mulch tillage bottom number.
 % cover- per cent residue cover immediately after planting
 C - Cover management factor for single year in a 2 year rotation
 y 1 - One year after alfalfa or meadow

SINGLE YEAR 'C' VALUES

ZONE 102C

TECHNICAL GUIDE
SECTION
State-wide
WATER-34CG.100

CROP SEQUENCE

CORN, Grain	PLOW TILLAGE		FALL MULCH TILLAGE * SPRING MULCH TILLAGE % cover								RIDGE TILL		NO - TILLAGE % cover					STRIP TILL
	FP	SP	<10	10	20	30	40	50	60	cover	C	<10	10	20	30	40	90	% cover - C
AFTER:																		
y 1	0.19	0.11	0.18									-	-	-	-	-	-	-
			.14*									0.03	0.02	0.02	0.02			
Alfalfa y 2	-	0.21	0.19	0.17	0.15													
			.17*	.16*	.14*													
Cabbage	0.37	0.33	0.34	-	-							-	-	0.2	0.17	0.15		
			.30*	.27*	.21*							-	-	-	-	-	-	-
Cabbage X	-	0.17	.15*	.13*	.11*	.08*						-	-	-	-	-	-	-
												-	-	0.04	0.03			
Corn, grain	0.26	0.23	0.2	0.19	0.15	0.13	0.11	0.08	0.07	30%	0.12	-	-	-	-	-	-	-
			.19*	.18*	.14*	.12*	.10*	.08*	.07*	40%	0.11	0.05	0.04	0.03				
Corn silage	0.39	0.39	0.36	0.3						3%	0.35	0.21	0.2	-	-	-	-	-
			.36*	.30*								-	-	-	-	-	-	-
Corn silage X	-	0.23	-	-	-	-	-	-	-			-	-	-	-	-	-	-
					.15*	.12*	.10*	.08*	.07*			0.08	0.07	0.06	0.04			
Cucumbers	-	0.49	-	-	-	-	-	-	-			-	-	-	-	-	-	-
Cucumbers X	-	0.32	-	-	-	-	-	-	-			0.16	0.13					
			.27*	.25*	.22*	.19*												
Grain Sorghum	0.27	0.24	0.22	0.19	0.17	0.14	0.11			20%	0.16	-	-	-	0.08	0.07		
			.22*	.19*	.16*	.13*	.11*			30%	0.14	0.04	-	-	-	-	-	-
Oats	0.31	0.27	0.23	0.22	0.18	0.13	0.11	0.09	-			-	-	-	-	-	0.07	
			.23*	.21*	.16*	.13*	.11*	.09*	.07*			0.05	0.04	-	-	-	-	-
Potato	0.44	0.45	0.42									0.41	-	-	-	-	-	-
			.44*									-	-	-	-	-	-	-
Potato X	-	0.24	-	-	.18*	.15*						-	-	-	-	-	-	-
					.22*	.18*						-	.10*	.09*	-	-	-	-
Snap beans	0.47	0.47	.45*									0.29	0.19					
			.45*									-	-	-	-	-	-	-
Snap beans X	-	0.25	-	-								-	-	-	-	-	-	-
			.23*	.19*								0.12	0.1	0.08				
Soys - 30in	0.36	0.32	0.32	0.27	0.21					20%	0.21	-	-	-	-	-	-	-
			.30*							30%	0.19	-	-	-	-	-	-	-
Soys - 30in X	-	0.23	.18*	.17*	.14*	.11*						-	-	-	-	-	-	-
												0.08	0.07	0.05	0.04			
Soys - 7in	0.38	0.32	0.33	0.27								-	-	0.14	0.15			
			.33*	-								-	-	-	-	-	-	-
Sugar beets	0.33	0.33	0.32									0.28	0.26					
			.30*									-	-	-	-	-	-	-
Sugar beets X			.18*	.14*	.12*	.09*						-	-	-	-	-	-	-
												-	0.06	0.05				
Sunflowers	0.32	0.29	0.27	0.24								-	-	-	0.08	0.07		
			.27*	.21*								-	-	-	-	-	-	-
Tomato	0.4	0.37	0.36	-								-	-	0.3	-	-	-	-
			.36*	.30*								-	-	-	-	-	-	-
Tomato X		0.2	.22*	.19*	.17*	.14*	.12*	.10*				-	-	-	-	-	-	-
												-	-	0.1	0.08	-	-	-
Wheat	0.26	0.23	0.22	0.19	0.13	0.11	0.09	-	-			-	-	-	-	-	-	-
			.20*	.18*	.12*	.11*	.08*	.07*	.06*			-	0.03	0.03				

SINGLE YEAR 'C' VALUES

ZONE 102C

TECHNICAL GUIDE
SECTION
State-wide
WATER-33CG.112

CROP SEQUENCE

CORN, grain	PLOW TILLAGE		FALL MULCH TILLAGE * SPRING MULCH TILLAGE								RIDGE TILL		NO - TILLAGE % cover					STRIP TILL
	FP	SP	<10	10	% cover				50	60	cover	C	<10	%			40	% cover
					20	30	40	50						60	70	80		
112 bu																		
AFTER:																		
Alfalfa	1	0.17	0.1	0.17														
				.13*														
				0.18	0.17	0.15	0.13											
				.15*	.14*	.12*												
Cabbage		0.35	0.3	0.31														
				.28*	.25*	.20*												
Cabbage X		-	0.15	.14*	.11*	.09*	.07*											
										30%	0.11							
										40%	0.1				0.04	0.03		
Corn, Grain		0.23	0.2	0.18	0.16	0.14	0.11	0.09	0.07	0.06	40%	0.1						60%-.04
				.17*	.16*	.13*	.10*	.08*	.07*	.06*			0.04	0.04	0.02	DD		
Corn, Silage		0.35	0.35	0.33	0.27													
				.33*	.27*													10%-.18
Corn, Silage X		-	0.2			.13*	.10*	.09*	.07*	.06*	3%	0.31						
													0.07	0.06	0.05	0.04		
Cucumbers		0.47	0.47															
Cucumbers X		-	0.29	.25*	.23*	.19*	.17*											
													0.15	0.13				
Grain Sorghum		0.24	0.21	0.18	0.17	0.14	0.12	0.1			20%	0.13						0.06
				.18*	.17*	.14*	.11*	.09*			30%	0.12	0.05	0.03				40%-.06
Oats		0.27	0.24	0.2	0.19	0.17	0.11	0.09	0.07									0.05
				.19*	.18*	.15*	.11*	.09*	.07*	.06*			0.04	0.04	0.03			50%-.05
Potato		0.39	0.4	0.37														
				.40*														
Potato X		-	0.2	-	-	.15*	.13*											
Snap beans		0.45	0.44		0.43													
					.42*													
Snap beans X		-	0.23	.20*	.17*													
Soys 30in		0.33	0.29	0.29	0.24	0.19	0.16				20%	0.18			0.12	0.1		
				.27*	-						30%	0.17						
Soys 30in X		-	0.2	.16*	.15*	.12*	.09*											
Soys 7in		0.35	0.29	0.3	0.24													
				.27*	-													
Sugar Beets		0.29	0.3	0.28														
				.26*														
Sugar beets X	X			.15*	.12*	.10*	.08*											
Sunflowers		0.28	0.25	0.23	0.21	-												
				.23*	.18*	.15*												
Tomato		0.37	0.33	0.33														
Tomato			0.18	.20*	.17*	-	.13*	.11*	.09*									
Wheat		0.24	0.21	0.19	0.16	0.12	0.1	-	-	-								
				.17*	.15*	.12*	.10*	.06*	.05*	.04*								

(Notice 116, 5/95)

SINGLE YEAR 'C' VALUES

ZONE 102C

TECHNICAL GUIDE
SECTION
State-wide
WATER-34CG.125

CROP SEQUENCE

CORN, Grain	PLOW TILLAGE		* FALL MULCH TILLAGE * SPRING MULCH TILLAGE % cover								RIDGE TILL		NO - TILLAGE % cover					STRIP TILL
	FP	SP	<10	10	20	30	40	50	60	cover	C	<10	10	20	30	40	90	% cover - C
AFTER:																		
y 1	0.16	0.09	0.16									-	-	-	-	-	-	-
			.12*									0.03	0.02	0.02	0.01	-	-	-
Alfalfa y 2	-	0.16	0.15	0.14	0.11													
			.13*	.13*	.11*													
Cabbage	0.33	0.29	0.29	-	-							-	-	-	0.17	0.15	0.13	-
			.27*	.24*	.18*							-	-	-	-	-	-	-
Cabbage X	-	0.13	.12*	.10*	.08*	.06*						-	-	-	-	-	-	-
												-	-	0.03	0.02	-	-	-
Corn, grain	0.2	0.18	0.16	0.15	0.12	0.1	0.08	0.06	0.05	40%	0.08	-	-	-	-	-	-	-
			.15*	.14*	.12*	.10*	.07*	.06*	.05*	50%	0.07	0.04	0.03	0.02	0.01	-	-	-
Corn silage	0.33	0.33	0.3	0.24								0.17	0.16	-	-	-	-	-
			.30*	.24*								-	-	-	-	-	-	-
Corn silage X	-	0.17	-	-	-	-	-	-	-	3%	0.28	-	-	-	-	-	-	-
					.11*	.09*	.07*	.06*	.05*			0.06	0.05	0.04	0.03	-	-	-
Cucumbers	-	0.45	-	-	-	-	-	-	-			-	-	-	-	-	-	-
Cucumbers X	-	0.26	-	-	-	-	-	-	-			-	-	-	-	-	-	-
			.22*	.21*	.18*	.15*						0.14	0.11	0.09				
Grain Sorghum	0.21	0.18	0.16	0.14	0.12	0.1	0.08			30%	0.1	-	-	-	-	-	0.05	-
			.16*	.14*	.12*	.10*	.08*			40%	0.09	0.03	0.02	-	-	-	-	-
Oats	0.24	0.2	0.17	0.16	0.13	0.09	0.08	0.06				-	-	-	-	-	-	-
			.16*	.15*	.12*	.09*	.07*	.06*	.05*			0.04	0.03	0.02	-	-	-	-
Potato	0.37	0.38	0.35									0.34	-	-	-	-	-	-
			.52*									-	-	-	-	-	-	-
Potato X	-	0.18	-	-	.13*	.11*						-	-	-	-	-	-	-
					.22*	.18*						-	0.08	0.07	-	-	-	-
Snap beans	0.43	0.42	0.41									0.25	0.16					
			.41*									-	-	-	-	-	-	-
Snap beans X	-	0.2	-	-								-	-	-	-	-	-	-
			.18*	.15*								0.1	0.08	0.07				
Soys - 30in	0.3	0.26	0.26	0.22	0.17	0.14				20%	0.17	-	-	-	0.1	0.09		
			.24*	-						30%	-	-	-	-	-	-	-	-
Soys - 30in X	-	0.17	.14*	.13*	.10*	.08*						-	-	-	-	-	-	-
												-	0.05	0.04	0.03	-	-	-
Soys - 7in	0.32	0.27	0.27	0.23								-	-	-	0.1	0.09		
			.25*									-	-	-	-	-	-	-
Sugar beets	0.26	0.27	0.25									0.22	0.21					
			.23*									-	-	-	-	-	-	-
Sugar beets X	-		.12*	.10*	.08*	.06*						-	-	-	-	-	-	-
												-	0.04	0.03				
Sunflowers	0.25	0.22	0.21	0.18								-	-	-	-	-	0.05	-
			.20*	.16*	.14*							0.04	-	-	-	-	-	-
Tomato	0.36	0.32	0.32	-								-	0.26	-	-	-	-	-
			.31*	.26*								-	-	-	-	-	-	-
Tomato X	-		0.16	.18*	.15*	.12*	.11*	.09*	.08*			-	-	-	-	-	-	-
												-	0.08	0.07	-	-	-	-
Wheat	0.2	0.18	0.16	0.14	0.1	0.07	0.06	-	-			-	-	-	-	-	-	-
			.14*	.13*	.10*	.07*	.06*	.05*	.04*			-	-	0.02	0.01	-	-	-

(Notice 116, 5/95)

SINGLE YEAR 'C' VALUES

ZONE 102C

TECHNICAL GUIDE
SECTION
State-wide
WATER-34CG.80

CROP SEQUENCE

CORN, GRAIN	PLOW TILLAGE		FALL MULCH TILLAGE * SPRING MULCH TILLAGE % cover								RIDGE TILL		NO - TILLAGE % cover					STRIP TILL
	FP	SP	<10	10	20	30	40	50	60	cover	C	<10	10	20	30	40	90	% cover - C
AFTER:																		
y 1	0.23	0.14	0.22									-	-	-	-	-	-	
			.17*									0.04	0.03	0.03	0.02	-		
Alfalfa y 2		0.26	0.25	0.23	0.2													
			.23*	.22*	.19*													
Cabbage	0.43	0.38	0.39	-	-							-	-	0.23	0.21	0.18		
			.36*	.32*	.25*							-	-	-	-	-		
Cabbage X	-	0.21	.19*	.16*	.13*	.10*						-	-	-	-	-		
												-	-	0.05	0.04	-		
Corn, grain	0.33	0.29	0.27	0.25	0.2	0.18	0.15	0.12	0.11	30% -	0.17	-	-	-	-	-	0.08	
			.25*	.24*	.20*	.15*	.14*	.11*	.10*	40% -	0.16	0.07	0.05	-	-	-	-	D
Corn silage	0.46	0.47	0.44	0.38						2% -	0.42	0.27	0.25	-	-	-	-	
			.44*	.37*								-	-	-	-	-	-	
Corn silage X	-	0.3	-	-	-	-	-	-	-			0.11	0.09	0.08	0.06	-		
					.19*	.16*	.11*	.09*	-			-	-	-	-	-		
Cucumbers	-	0.55	-	-	-	-	-	-	-			-	-	-	-	-		
Cucumbers X	-	0.37	-	-	-	-	-	-	-			-	-	-	-	-		
			.32*	0.29	.26*	.22*						0.18	0.15					
Grain Sorghum	0.34	0.31	0.28	0.25	0.22	0.18	0.16			20% -	0.21	-	-	-	0.11	0.09		
			.28*	.25*	.21*	.17*	.15*			30% -	0.19	0.06	-	-	-	-		
Oats	0.38	0.34	0.3	0.28	0.22	0.17	0.14	0.11				-	-	-	-	-	0.09	
			.29*	.27*	.22*	.17*	.14*	.11*				0.08	0.07	-	-	-	-	
Potato	0.52	0.53	0.5									0.49	-	-	-	-		
			.52*									-	-	-	-	-		
Potato X	-	0.3	-	-	-	-	-	-	-			-	-	-	-	-		
					.22*	.18*						-	.13*	.11*	-	-		
Snap beans	0.54	0.52	0.51									0.34	0.23					
			.51*									-	-	-	-	-		
Snap beans X	-	0.3	-	-	-	-	-	-	-			-	-	-	-	-		
			.27*	.23*								0.14	0.12	0.09				
Soys - 30in	0.42	0.38	0.39	0.33	0.26					20% -	0.27	-	0.2	0.17	-	-		
			.35*									-	-	-	-	-		
Soys - 30in X	-	0.28	.22*	.21*	.17*	.14*						-	-	-	-	-		
												0.1	0.08	0.06	0.05	-		
Soys - 7in	0.44	0.38	0.39									-	0.2	0.17				
			.36*									-	-	-	-	-		
Sugar beets	0.4	0.4	0.39									0.34	0.32					
			.37*									-	-	-	-	-		
Sugar beets X			.23*	.18*	.15*	.12*						-	-	-	-	-		
												-	0.08	0.06				
Sunflowers	0.38	0.34	0.33	0.29								-	-	-	0.1	-		
			.32*	.26*								-	-	-	-	-		
Tomato	0.46	0.42	0.41	-								-	0.34	-	-	-		
			.41*	.35*								-	-	-	-	-		
Tomato X			.27*	.25*	.22*	.20*	.16*	.14*	.11*			-	-	-	-	-		
												-	-	-	-	-		
Wheat	0.32	0.29	0.27	0.23	0.17	0.14	-	-	-			-	-	-	0.11	0.09	-	-
			.25*	.22*	.17*	.14*	.10*	.08*	.07*			-	0.04	0.04				

(Notice 116, 5/95)

102cCG80

SINGLE YEAR 'C' VALUES

ZONE 102C

TECHNICAL GUIDE
SECTION
State-wide
WATER-34CS.13

CROP SEQUENCE

CORN, silage	PLOW TILLAGE		FALL MULCH TILLAGE * SPRING MULCH TILLAGE % cover							RIDGE TILL		NO - TILLAGE % cover					STRIP TILL	
	FP	SP	<10	10	20	30	40	50	60	cover	C	<10	10	20	30	40	90	% COVER
13 TON																		
AFTER:																		
Alfalfa	0.22	0.16	0.22 .17*	- .14*								-	-	-	-	-	-	-
Corn, Grain	0.35	0.31	0.29 .27*	0.27 .25*	0.22 .21*	0.18 .17*	0.15 .14*	.12*				-	-	-	-	-	-	0.08
Corn, Silage	0.49	0.5	0.48 .48*							2%	0.49	0.28	-					
Corn, Silage X	-	0.26	.19*	.19*	.15*	.13*	.09*	.08*	.07*			-	-	-	-	-	-	-
Cucumbers	0.57	0.57	0.56 .56*									0.47	-					
Oats	0.43	0.38	0.37 .33*	0.31 .30*	0.27 .26*							-	-	--	0.13	0.11		
Snap Beans	0.55	0.54	0.55 .52*									0.49	-					
Soys - 30in	0.44	0.39	0.41 .38*	.32*										0.22	-	-	-	-
Soys - 7in	0.43	0.4	0.42 .39*	.34*	-							-	-	0.21	-	-	-	-
Sugarbeet	0.42	0.43	0.42 .41*	-								0.4	-	-	-	-	-	-
Sunflowers	0.4	0.37	0.35 .33*	-								-	-	0.14	-			
Wheat	0.37	0.32	0.3 .28*	0.27 .25*	0.22 .21*	0.16 .17*	.13*	.11*				-	-	-	-	-	-	0.08

FP - Fall Plow

SP - Spring Plow

* Fall mulch tillage top number. Spring mulch tillage bottom number.

% cover- per cent residue cover immediately after planting

C - Cover management factor for single year in a 2 year rotation

y 1 - One year after alfalfa or meadow

SINGLE YEAR 'C' VALUES

ZONE 102C

TECHNICAL GUIDE
SECTION
State-wide
WATER-34CS.16

CROP SEQUENCE

CORN, silage	PLOW TILLAGE		FALL MULCH TILLAGE * SPRING MULCH TILLAGE % cover								RIDGE TILL		NO - TILLAGE % cover					STRIP TILL
	FP	SP	<10	10	20	30	40	50	60	cover	C	<10	10	20	30	40	90	% COVER
16 ton																		
AFTER:																		
Alfalfa	0.21	0.15	0.2	-								-	-	-	-	-	-	
			.15*	.12*								0.03	0.02	0.02	0.02	-	-	
Corn, Grain	0.31	0.27	0.25	0.24	0.19	0.16	0.12				-	-	-	-	-	0.07	-	
			.23*	.22*	.18*	.15*	.12*	.10*	.06*			0.05	0.04	0.04	-	-	-	
Corn, Silage	0.45	0.45	0.44							2%	0.44	0.25	-					
			.44*									-	-					
Corn, Silage X	-	0.21	.15*	.15*	.12*	.10*	.07*	.06*	.05*			-	-	-	-	-	-	
												0.06	0.05	0.04	0.03	-	-	
Cucumbers	0.54	0.54	0.53									0.44	-					
			.53*									-	-					
Oats	0.37	0.32	0.3	0.26	-							-	-	--	-	0.08	-	
			.27*	.24*	.20*							0.07	-	-	-	-	-	
Snap Beans	0.52	0.51	0.52									0.46	-					
			.50*									-	-					
Soys - 30in	0.4	0.35	0.37											-	0.15	-	-	
			.34*	.28*	.25*									-	-	-	-	
Soys - 7in	0.4	0.36	0.38									-	-	0.18	-	-	-	
			.35*	.29*	.25*							-	-	-	-	-	-	
Sugarbeet	0.38	0.38	0.37	-								0.35	-	-	-	-	-	
			.36*	-								-	-	-	-	-	-	
Sunflowers	0.35	0.32	0.3	-								-	-	0.11	0.1			
			.29*	-								-	-	-	-			
Wheat	0.31	0.27	0.24	0.22	0.18	0.14						-	-	-	-	0.07	-	
			.22*	.20*	.17*	.13*	.10*	.08*	.07*			0.05	0.04	0.03	-	-	-	

FP - Fall Plow

SP - Spring Plow

* Fall mulch tillage top number. Spring mulch tillage bottom number.

% cover- per cent residue cover immediately after planting

C - Cover management factor for single year in a 2 year rotation

y 1 - One year after alfalfa or meadow

SINGLE YEAR 'C' VALUES

ZONE 102C

TECHNICAL GUIDE
SECTION
State-wide
WATER-34CS.20

CROP SEQUENCE

CORN, silage	PLOW TILLAGE		* FALL MULCH TILLAGE * SPRING MULCH TILLAGE % cover							RIDGE TILL		NO - TILLAGE % cover					STRIP TILL							
	FP	SP	<10	10	20	30	40	50	60	cover	C	<10	10	20	30	40	50	60	70	80	90	% COVER		
																							C	C
20 ton																								
AFTER:																								
Alfalfa	0.18	0.13	0.17 .13*	- .10*								-	-	-	-	-	0.03	0.02	0.02	0.01	-			
Corn, Grain	0.25	0.22	0.17 .18*	0.16 .17*	0.13 .14*	0.1 .11*	0.09 .09*	.07*	.06*			-	-	-	-	-	0.04	0.03	0.02	0.02	-	0.05		
Corn, Silage	0.38	0.39	0.37 .37*								2% - 0.37	0.2	-				-	-						
Corn, Silage X	-	0.16	.11*	.11*	.09*	.07*	.05*	.05*	.04*			-	-	-	-	-	0.05	0.04	0.03	0.02	-			
Cucumbers	0.49	0.49	0.48 .48*									0.4	-				-	-						
Oats	0.3	0.26	0.25 .21*	0.22 .19*	0.18 .15*							-	-	--	-	-	0.05	-	-	-	-	0.06		
Snap Beans	0.47	0.46	0.47 .45*									0.42	-				-	-						
Soys - 30in	0.35	0.3	0.31 .29*	.23*	.20*														0.16	0.12	-	-		
Soys - 7in	0.35	0.3	0.31 .29*	.24*	.21*							-	-	-	-	-	-	-	-	0.13	-	-		
Sugarbeet	0.32	0.27	0.31 .29*	-								0.29	-	-	-	-	-	-	-	-	-	-		
Sunflowers	0.3	0.27	0.25 .24*	-								-	-	-	0.09	0.08	-	-	-	-	-	-		
Wheat	0.26	0.22	0.2 .18*	0.16 .17*	0.14 .14*	0.11 .11*	0.09 .09*	.07*	.05*			-	-	-	-	-	0.04	0.03	0.03					

FP - Fall Plow SP - Spring Plow
* Fall mulch tillage top number. Spring mulch tillage bottom number.
% cover- per cent residue cover immediately after planting
C - Cover management factor for single year in a 2 year rotation
y 1 - One year after alfalfa or meadow

SINGLE YEAR 'C' VALUES

ZONE 102C

TECHNICAL GUIDE
SECTION
State-wide
WATER-34CS.23

CROP SEQUENCE

CORN, silage	PLOW TILLAGE		FALL MULCH TILLAGE * SPRING MULCH TILLAGE % cover								RIDGE TILL		NO - TILLAGE % cover					STRIP TILL
	FP	SP	<10	10	20	30	40	50	60	cover	C	<10	10	20	30	40	% COVER	
			50	60	70	80	90	C										
23 ton																		
AFTER:																		
Alfalfa	0.16	0.12	0.16 .12*	- .09*								-	-	-	-	-		
Corn, Grain	0.22	0.19	0.17 .16*	0.15 .15*	0.13 .13*	0.11 .10*	0.08 .08*				40% - 0.09	-	-	-	-	-	50% - .04	
Corn, Silage	0.35	0.35	0.34 .34*								3% - 0.34	0.18	-					
Corn, Silage X	-	0.14	.10*	.09*	.08*	.06*	.04*	.04*	.03*			-	-	-	-	-		
Cucumbers	0.47	0.47	0.46 .46*									0.38	-				3% - .39	
Oats	0.27	0.23	0.21 .17*	0.19 .16*	0.15 .13*							-	-	--	-	-		
Snap Beans	0.45	0.44	0.44 .43*									0.4	-					
Soys - 30in	0.32	0.28	0.28 .26*	.20*	.18*										-	0.11	0.09	
Soys - 7in	0.33	0.28	0.29 .26*	.21*	.19*							-	-	0.14	0.11	-		
Sunflower	0.27	0.24	0.21 .20*									-	-	-	0.07	-		
Sugarbeet	0.28	0.29	0.28 .26*	-								0.25	0.27					
Wheat	0.23	0.2	0.17 .16*	0.16 .15*	0.13 .12*	0.1 .10*	0.08 .07*					--	-	-				

FP - Fall Plow SP - Spring Plow
* Fall mulch tillage top number. Spring mulch tillage bottom number.
% cover- per cent residue cover immediately after planting
C - Cover management factor for single year in a 2 year rotation
y 1 - One year after alfalfa or meadow

SINGLE YEAR 'C' VALUES

ZONE 102C

TECHNICAL GUIDE
SECTION
State-wide
WATER-34CU.300

CROP SEQUENCE

CUCUMBERS	PLOW TILLAGE		FALL MULCH TILLAGE * SPRING MULCH TILLAGE % cover						RIDGE TILL % cover		NO - TILLAGE % cover					STRIP TILL % cover	
	FP	SP	<10	10	20	30	40	50	60	cover	C	10	20	30	40	50	% cover
												60	70	80	90	100	
300 cwt.																	

AFTER:																	
Alfalfa	0.16	0.09															
Corn, Grain	0.24	0.19															
Corn, Grain X	0.16				.10*	.08*	.06*	.05*				-	-	-			
												0.03	0.02	-			
Corn, Silage	0.36	0.35	0.35									0.33					4%-.35
			.35*									-					
Oats	0.28	0.23			0.15	-									-	0.06	
					.14*	.11*									-	-	
Snap beans	0.53	0.51	0.51									0.47	-	-	-	-	3%-.47
			.50*														
Soys 30in	0.3	0.26	0.28	0.22													
			-	-													
Soys 7in	0.3	0.26	0.29	0.24								-	0.15	0.11	0.09	-	30%-.11
			.25*	.21*	.17*							-	-	-	-	-	
Wheat	0.22			0.18	0.12	0.1	0.07					-	-				50%-.03
				.11*	.09*	.06*	.05*					-	0.03				

FP - Fall plow SP - Spring Plow
 * Fall mulch tillage top number. Spring mulch tillage bottom number.
 % cover- per cent residue cover immediately after planting
 C - Cover management factor for single year in a 2 year rotation
 y 1 - One year after alfalfa or meadow

SINGLE YEAR 'C' VALUES

ZONE 102C

TECHNICAL GUIDE
SECTION I-C
State-wide
WATER-34GS.65

CROP SEQUENCE	PLOW TILLAGE		FALL MULCH TILLAGE * SPRING MULCH TILLAGE % cover							RIDGE TILL		NO - TILLAGE % cover					STRIP TILL		
	FP	SP	<10	10	20	30	40	50	60	cover	C	<10	%				40	% cover	
													50	60	70	80			90
65 bu																			
AFTER:																			
Corn, Grain	0.23	0.18		0.16	0.15	0.12					40% - 0.08								
				.15*	.12*	.11*	.09*												
Grain Sorghum	0.25	0.21	0.19	0.17	0.14							-	-	-	-	0.04	40%-.03		
			.18*	.16*	.14*							0.03	0.02	-	-	-			
Oats	0.3	0.25	0.21	0.19	0.15							-	-	-	-	-	-		
			.19*	.18*	.15*							0.05	0.04	-	-	-			
Snap Beans	0.5	0.48	0.47									0.21	0.2						
			.46*									-	-						
Soys - 30in	0.33	0.26	0.27	-	-							-	-	0.08	0.07	-	20%-.12		
			.25*	.20*	.17*							-	-	-	-	-			
Soys - 7in	0.34	0.29	0.29	-	-	-						-	-	-	0.09	-			
			.25*	.22*	.18*	.09*						-	-	-	-	-			
Sugar beets	0.31	0.3	0.29									0.24	0.23	-					
			.28*									-	-	-					
Sunflowers	0.29	0.25	0.24	0.21								-	-	-	0.07	0.06			
			.22*	.20*								-	-	-	-	-			
Wheat	0.24	0.21	0.19	0.17	0.13	0.1	0.08	0.06				-	-	-	-	-	55%-.03		
			.15*	.12*	.09*	.08*	.07*	.06*				0.04	0.03	0.02					

FP - Fall plow SP - Spring Plow
 * Fall mulch tillage top number. Spring mulch tillage bottom number.
 % cover- per cent residue cover immediately after planting
 C - Cover management factor for single year in a 2 year rotation
 y 1 - One year after alfalfa or meadow

SINGLE YEAR 'C' VALUES

ZONE 102C

TECHNICAL GUIDE
SECTION
State-wide
WATER-34OT.50

CROP SEQUENCE

OATS	PLOW TILLAGE		FALL MULCH TILLAGE * SPRING MULCH TILLAGE							RIDGE TILL	C	NO - TILLAGE % cover				
	FP	SP	<10	10	% cover			60	50			60	70	80	90	
					20	30	40									
50 bu																
=====																
AFTER:																
Alfalfa																
Cabbage	0.17	0.13	0.14 .11*										0.06			
Corn, Grain	0.09	0.07			0.05 .05*	0.04 .04*	0.03		.02*	.02*			0.008			
Corn, Silage	0.18	0.18														
Cucumber	0.27	0.26	0.24 .23*								0.14					
Grain, Sorghum	0.11	0.09		0.07 -	- 0.05											
Oats	0.14	0.11			0.08 .07*							0.02				
Snap Bean	0.33	0.32														
Soybeans 30in or 7in	0.15	0.12	0.12 .11*	0.1 .09*	.08*									0.03		
Sugar beets	0.13	0.13	0.12 .12*	.09*							0.09					
Sunflower	0.13	0.11														
Wheat	0.11	-			0.05 .05*	0.04 .04*	0.03 .03*		.03*	.02*			0.01			

FP - Fall plow SP - Spring Plow
* Fall mulch tillage top number. Spring mulch tillage bottom number.
% cover- per cent residue cover immediately after planting
C - Cover management factor for single year in a 2 year rotation
y 1 - One year after alfalfa or meadow

SINGLE YEAR 'C' VALUES

ZONE 102C

TECHNICAL GUIDE
SECTION I-C
State-wide
WATER-34SB.30

CROP SEQUENCE

CROP SEQUENCE	PLOW TILLAGE		FALL MULCH TILLAGE * SPRING MULCH TILLAGE % cover							RIDGE TILL % cover	NO - TILLAGE % cover						
	FP	SP	<10	10	20	30	40	50	60	% cover	C	<10	10	20	30	40	
30 bu.																	
AFTER:																	
Alfalfa	0.19	0.11	0.17 .12*									-	-	-	-	0.01	
Corn, grain	0.28	0.23	0.23 .21*	0.2 .19*	0.15 .15*	0.13	0.11	0.08	-	30% - 0.18 40% - 0.16							
Corn, grain X	-	0.21	-	0.16	0.13	0.1	-					-	-	--	-	-	
Corn Silage	0.42	0.42	0.41 .41*									0.25	-	-	-	-	
Cucumbers	0.54	0.44	0.47 .46*									-	-	-	-	-	
Grain Sorghum	0.29	0.25	0.29 .27*	0.27 .25*	0.22 .22*	-	-					-	-	-	-	-	0.08
Oats	0.34	0.28	0.28 .24*	0.25 .22*	0.2 .19*	0.16 .15*	-	0.08*				0.07	-	-	-	-	0.08
Soys - 30in	0.37	0.31	0.33 .27*	.25*	.21*							-	-	0.12	0.11	-	
Soys - 30in X	-	0.2	0.18	0.15	0.13	0.11	0.09					0.07	0.06	0.04	-	-	0.09
Sugarbeets	0.35	0.34	0.34 .33*									0.32	-	-	-	-	
Sugarbeets rye cover	-	0.2	-	.16*	.13*	.11*						0.07	0.06	0.05	-	-	
Sunflower	0.33	0.29															
Wheat	0.28	-	0.22 .19*	0.2 .18*	0.16 .15*	0.12	-	-				-	-	-	-	-	0.06
Wheat X	0.25	-	0.2 .19*	0.16 .18*	0.12 .15*							0.04	0.03	0.03	-	-	

FP - Fall plow SP - Spring Plow
* Fall mulch tillage top number. Spring mulch tillage bottom number.
% cover- per cent residue cover immediately after planting
C - Cover management factor for single year in a 2 year rotation
y 1 - One year after alfalfa or meadow

SINGLE YEAR 'C' VALUES

ZONE 102C

TECHNICAL GUIDE
SECTION 1-C
State-wide
WATER-34SB.35

CROP SEQUENCE

SOYBEANS	PLOW TILLAGE		FALL MULCH TILLAGE * SPRING MULCH TILLAGE							RIDGE TILL		NO - TILLAGE						
	FP	SP	% cover							%	C	% cover						
			<10	10	20	30	40	50	60			<10	10	20	30	40		
35 bu.																		
AFTER:																		
Alfalfa	0.18	0.1	0.16										-	-	-	-		
			.11*										-	0.02	0.01	0.01		
Corn, grain	0.24	0.2	0.2	0.17	0.14	0.1	0.08	0.07	0.06	30% - 0.15								
			.17*	.16*	.13*					40% - 0.14								
Corn, grain X	-	0.18	-	0.13	0.11	0.08	0.07											
Corn Silage	0.38	0.37	0.37									0.25	-	-	-	-	-	
			.36*															
Cucumbers	0.51	0.42	0.46															
			.44*															
Grain Sorghum	0.26	0.22	0.27	0.24	0.2	-	-									0.07	0.06	
			.24*	.22*	.20*	.15*	.13*											
Oats	0.3	0.25		0.24	0.21	0.17	0.13											
				.22*	.19*	.16*	.10*	.08*				0.06	0.05	-	-	-	-	
Soys - 30in	0.35	0.29	0.31											0.11	0.09	-	-	
			.24*	.22*	.19*													
Soys - 30in X	-	0.18	0.16	0.13	0.11	0.1	0.08										0.08	
												0.07	0.05	0.04	-	-	-	
Sugarbeets	0.31	0.31	0.31									0.29	-					
			.30*									-	-					
Sugarbeets rye cover	-	0.18	-	.13*	.11*	.10*												
												0.06	0.05	0.04	-	-	-	
Sunflower	0.3	0.26																
Wheat	0.24	0.19	0.19	0.18	0.14	0.11	-	-									0.05	
			.17*	.16*	.13*	.09*	-	.06*				0.04	0.03	0.03	-	-	-	
Wheat X	0.22	-	0.18	0.15	0.1													
													0.02	0.02	0.02			

FP - Fall plow SP - Spring Plow
 * Fall mulch tillage top number. Spring mulch tillage bottom number.
 % cover- per cent residue cover immediately after planting
 C - Cover management factor for single year in a 2 year rotation
 y 1 - One year after alfalfa or meadow

SINGLE YEAR 'C' VALUES

TECHNICAL GUIDE
SECTION I-C
State-wide
WATER-34SB.40

ZONE 102C

CROP SEQUENCE

CROP SEQUENCE	PLOW TILLAGE		FALL MULCH TILLAGE * SPRING MULCH TILLAGE % cover							RIDGE TILL % cover		NO - TILLAGE % cover				
	FP	SP	<10	10	20	30	40	50	60	cover	C	<10	10	20	30	40
AFTER:																
Alfalfa	0.17	0.1	0.15 .10*									-	-	-	-	-
Corn, grain	0.22	0.19	0.18 .16*	0.16 .14*	0.12 .12*	0.1 .10*	0.08	0.07	0.05	30% - 0.14 40% - 0.13						
Corn, grain X	-	0.16	-	0.12	0.1	0.08	0.06					-	-	-	-	-
Corn Silage	0.36	0.35	0.36 .34*									0.23	-	-	-	-
Cucumbers	0.5	0.41	0.44 .43*									0.3	-	-	-	-
Grain Sorghum	0.23	0.19	0.24 .22*	0.22 .20*	0.19 .17*	0.16 .15*	- .12*	.11*				-	-	-	-	-
Oats	0.27	0.22	0.21 .18*	0.19 .17*	0.15 .14*	0.12 .11*	0.09 .09*	.07*	.06*			-	-	0.12	0.1	-
Soys - 30in	0.33	0.27	0.29 .22*	.21*	.18*							-	-	-	0.08	0.07
Soys - 30in X	-	0.16	0.15	0.12	0.09	0.07	0.06					-	-	-	-	0.07
Sugarbeets	0.29	0.28	0.28 .27*									0.26	-			
Sugarbeets rye cover	-	0.15	-	0.12	0.09	0.08						-	-	-	-	-
Sunflower	0.28	0.24										0.05	0.04	0.03	-	-
Wheat	0.24	-	0.18 .15*	0.16 .14*	0.13 .12*	0.1 -	-	-				-	-	-	-	0.05
Wheat X	0.2	-	0.16	0.13	0.09							-	-	-	-	-
												-	0.02	0.02	0.02	-

FP - Fall plow SP - Spring Plow
* Fall mulch tillage top number. Spring mulch tillage bottom number.
% cover- per cent residue cover immediately after planting
C - Cover management factor for single year in a 2 year rotation
y 1 - One year after alfalfa or meadow

SINGLE YEAR 'C' VALUES

ZONE 102C

TECHNICAL GUIDE
SECTION I-C
State-wide
WATER-34SB.45

CROP SEQUENCE

CROP SEQUENCE	PLOW TILLAGE		FALL MULCH TILLAGE * SPRING MULCH TILLAGE % cover							RIDGE TILL % cover		NO - TILLAGE % cover				
	FP	SP	<10	10	20	30	40	50	60	cover	C	<10	10	20	30	40
45 bu.																
AFTER:																
Alfalfa	0.16	0.09	0.15 .10*									-	-	-	-	-
Corn, grain	0.2	0.17	0.16 .14*	0.14 .13*	0.11 .10*	0.08 .09*	0.07	0.06	0.05	30% - 40% -	0.12 0.11					
Corn, grain X	-	0.15	-	0.11	0.09	0.07	0.05					-	-	--	-	-
Corn Silage	0.34	0.33	0.32 .32*									0.21	-	-	-	-
Cucumbers	0.56	0.46	0.49 .48*									-	-	-	-	-
Grain Sorghum	0.21	0.17	0.21 .19*	0.19 .18*	0.16 .15*	0.13 .13*	- .10*	.09*				-	-	-	-	-
Oats	0.24	0.2	0.18 .16*	0.17 .15*	0.13 .12*	0.1 .09*	0.08 .08*	.06*	.05*			-	-	-	-	-
Soys - 30in	0.31	0.25	0.27 .20*	0.27 .19*	.16*							-	-	-	0.07	0.06
Soys - 30in X	-	0.14	0.13	0.1	0.09	0.07	0.06					-	-	-	-	0.06
Sugarbeets	0.27	0.26	0.26 .25*									0.23	-	-	-	-
Sugarbeets	-	0.13	-	0.1	0.08	0.07						-	-	-	-	-
Sunflower	0.26	0.21										0.04	0.03	0.03	-	-
Wheat	0.2	-	0.15 .13*	0.14 .13*	0.11 .10*	0.09 .08*	0.07	-				-	-	-	-	0.04
Wheat X	0.17	-	0.14	0.11	0.08							-	-	-	-	-

FP - Fall plow SP - Spring Plow
* Fall mulch tillage top number. Spring mulch tillage bottom number.
% cover- per cent residue cover immediately after planting
C - Cover management factor for single year in a 2 year rotation
y 1 - One year after alfalfa or meadow

SINGLE YEAR 'C' VALUES

TECHNICAL GUIDE
SECTION I-C
State-wide
WATER-SC34.100

ZONE 102C

CROP SEQUENCE	PLOW TILLAGE		FALL MULCH TILLAGE * SPRING MULCH TILLAGE % cover							RIDGE TILL % cover		NO - TILLAGE % cover					STRIP TILL	
	FP	SP	<10	10	20	30	40	50	60	cover	C	<10	10	20	30	40	90	% cover
SWEET CORN																		
100 cwt.																		- C
=====																		
AFTER:																		
Alfalfa																		
Cabbage	0.29	0.23	0.24															
			.21*															
=====																		
CROP SEQUENCE																		
TOMATO																		
400 cwt.																		- C
=====																		
AFTER:																		
Corn, grain	0.29	0.25	0.22	0.17	-	-						-	-	-	-		0.08	
			.21*	.17*	.13*	.10*						0.06	-	-	-	-		

FP - Fall plow SP - Spring Plow
 * Fall mulch tillage top number. Spring mulch tillage bottom number.
 % cover- per cent residue cover immediately after planting
 C - Cover management factor for single year in a 2 year rotation
 y 1 - One year after alfalfa or meadow

SINGLE YEAR 'C' VALUES

ZONE 102C

TECHNICAL GUIDE
SECTION I-C
State-wide
WATER-34SD.30

CROP SEQUENCE

CROP SEQUENCE	PLOW TILLAGE		FALL MULCH TILLAGE * SPRING MULCH TILLAGE % cover							RIDGE TILL % cover	NO - TILLAGE % cover				
	FP	SP	<10	10	20	30	40	50	60	C	<10	10	20	30	40
30 bu.															
AFTER:															
Alfalfa	0.19	0.11	0.17 .12*								-	-	-	-	0.05
Corn, grain	0.22	0.18	0.15 .15*	0.14 .13*	0.12 .11*	0.11	0.08		-		-	-	-	-	0.05
Corn, grain X	-	0.16	-	0.12	0.1	0.08	0.07	0.05			-	-	-	-	-
Corn Silage	0.34	0.34	0.33 .33*								0.2	-	-	-	-
Cucumbers	0.54	0.44	0.47 .46*								0.33				
Grain Sorghum	0.23	0.19	- .21*	- .19*	- .16*	-	-				-	-	-	-	0.08
Oats	0.27	0.22	0.22 .18*	0.18 .17*	0.15 .14*	0.12 .11*	0.1 .09*	0.07*			-	-	-	-	0.07
Potato	0.36	0.32	0.34 .31*								-	0.29			
Soys - 7in	0.31	0.25	0.28 .24*	0.2							-	-	0.15	-	-
Soys - 7in X	-	0.16	0.14	0.12	0.1	0.08	0.06				-	-	-	-	0.07
Sugarbeets	0.35	0.34	0.27 .21*								0.25	-			
Sugarbeets	-	0.15	-	.11*	.10*	.08*	.07*				-	-	-	-	-
Sunflower	0.27	0.23	0.23 .21*	0.2 .17*							-	-	0.12		
Wheat	0.23	0.19	0.17 .15*	0.16 .14*	0.12 .11*	0.1 .09*	- .07*	- .05*			-	-	-	-	0.07
Wheat X	0.22	0.18	0.15 .13*	0.13 .11*	0.11 .08*	0.07*	0.05*				-	-	-	0.05	0.05

FP - Fall plow SP - Spring Plow
* Fall mulch tillage top number. Spring mulch tillage bottom number.
% cover- per cent residue cover immediately after planting
C - Cover management factor for single year in a 2 year rotation
y 1 - One year after alfalfa or meadow

SINGLE YEAR 'C' VALUES

ZONE 102C

TECHNICAL GUIDE
SECTION I-C
State-wide
WATER-34SD.35

CROP SEQUENCE

CROP SEQUENCE	PLOW TILLAGE		FALL MULCH TILLAGE * SPRING MULCH TILLAGE % cover							RIDGE TILL	NO - TILLAGE % cover					
	FP	SP	<10	10	20	30	40	50	60	cover	C	<10	10	20	30	40
35 bu.																
AFTER:																
Alfalfa	0.18	0.1	0.16									-	-	-	-	
			.11*									-	0.02	0.01	0.01	
Corn, grain	0.19	0.16	0.13	0.12	0.1	0.08	0.07	0.06	-			-	-	-	-	0.04
			.13*	.11*	.09*							0.04	0.02	0.02	0.02	
Corn, grain X	-	0.14	-	-	0.08	0.07	0.06	0.04				-	-	-	-	-
Corn Silage	0.32	0.31	0.31									0.2	-	-	-	-
			.30*									-				
Cucumbers	0.51	0.42	0.46									0.31				-
			.44*									-				-
Grain Sorghum	-	0.16	-	-	-	-	-	-				-	-	-	-	0.07
			.18*	.17*	.14*	.12*	-					0.06	-	-	-	-
Oats	0.24	0.19	0.18	0.16	0.13	0.1	0.08					-	-	-	-	-
			.15*	.14*	.12*	.09*	.08*	0.06	.05*			0.05	0.04	-	-	-
Potato	0.32	0.28	0.3									-	0.25			
			.27*									-	-			
Soys - 7in	0.28	0.23	0.25									-	-	0.13	0.11	-
			.18*	.17*	.15*							-	-	-	-	-
Soys - 7in X	-	0.14	0.12	0.1	0.08	0.06	0.05					-	-	-	-	0.06
												0.05	0.04	0.03	-	-
Sugarbeets	0.31	0.31	0.24									0.22	-			
			.24*									-	-			
Sugarbeets	-	0.1	-	.10*	.08*	.07*	.06*					-	-	-	-	0.06
												0.05	0.04	0.03	-	-
Sunflower	0.24	0.2	0.2	0.17								-	-	0.09		
			.18*	.14*								-	-	-		
Wheat	0.21	0.19	0.15	0.14	0.11	0.09	0.07	-				-	-	-	-	0.05
			.13*	.12*	.10*	.08*	.06*	.06*-				0.05	0.04	0.03	-	-
Wheat X	-	0.16	0.13	0.11	0.08							-	-	-	-	0.04
			.11*	.09*	.07*	.06*	.05*					0.03	0.02	0.02	0.02	-

FP - Fall plow SP - Spring Plow
 * Fall mulch tillage top number. Spring mulch tillage bottom number.
 % cover- per cent residue cover immediately after planting
 C - Cover management factor for single year in a 2 year rotation
 y 1 - One year after alfalfa or meadow

SINGLE YEAR 'C' VALUES

ZONE 102C

TECHNICAL GUIDE
SECTION I-C
State-wide
WATER-34SD.40

CROP SEQUENCE

CROP SEQUENCE	PLOW TILLAGE		FALL MULCH TILLAGE * SPRING MULCH TILLAGE % cover							RIDGE TILL % cover		NO - TILLAGE % cover				
	FP	SP	<10	10	20	30	40	50	60	cover	C	<10	10	20	30	40
AFTER:																
Alfalfa	0.14		0.12 .08*	0.12 -								-	-	-	-	0.01
Corn, grain	0.18	0.14	0.12 .12*	0.11 .10*	0.09 .09*	0.08	0.07	0.06	-			-	-	-	-	0.04
Corn, grain X	-	0.12	-	-	0.07	0.06	0.05	0.04				-	-	-	-	-
Corn Silage	0.3	0.29	0.28 .28*									0.2	-	-	-	-
Cucumbers	0.5	0.41	0.44 .43*									0.3				-
Grain Sorghum	-	0.14	- .16*	- .14*	- .13*	- .11*	-	-				-	-	-	-	-
Oats	0.21	0.17	0.16 .13*	0.14 .13**	0.11 .10*	0.08 .08*	0.07 .07*	0.05* .05*	0.05*			0.04	0.04	0.03	-	-
Potato	0.31	0.27	0.29 .26*									-	0.24			-
Soys - 7in	0.27	0.21	0.2 .18*	0.16 .15*	0.12 .11*							-	-	0.11	0.1	-
Soys - 7in X	-	0.12	0.1	0.09	0.07	0.06	0.05					0.04	0.03	0.03	-	0.05
Sugarbeets	0.29	0.28	0.22 .21*									0.2	-	-	-	-
Sugarbeets	-	0.12	-	.08*	.07*	.05*	.05*					-	-	-	-	0.05
Sunflower	0.22	0.2	0.19 .19*	0.15 .13*	0.11 .11*							-	-	0.08		-
Wheat	0.18	0.15	0.13 .13*	0.12 .08*	0.1 .07*	0.07 .06*	0.06 .05*	- .05*	0.04*			-	-	-	-	0.05
Wheat X	-	0.14	0.12 .11*	0.11 .07*	0.09 .06*	0.07 .05*	0.04*					-	-	-	-	0.03

FP - Fall plow SP - Spring Plow
* Fall mulch tillage top number. Spring mulch tillage bottom number.
% cover- per cent residue cover immediately after planting
C - Cover management factor for single year in a 2 year rotation
y 1 - One year after alfalfa or meadow

SINGLE YEAR 'C' VALUES

ZONE 102C

TECHNICAL GUIDE
SECTION I-C
State-wide
WATER-34SG.20

CROP SEQUENCE

SUGAR BEETS	PLOW TILLAGE		FALL MULCH TILLAGE * SPRING MULCH TILLAGE % cover							RIDGE TILL % cover		NO - TILLAGE % cover					STRIP TILL	
	FP	SP	<10	10	20	30	40	50	60	cover	C	<10	10	20	30	40	90	% cover
																		-C
20 ton																		

AFTER:																		
Alfalfa																		
Corn, Grain	0.24	0.2	0.19 .17*	0.18 .16*	0.15 .13*	0.12 .11*	0.1 .08*	0.08 .07*	0.07			- 0.07	- 0.05	- 0.04	- 0.03			50%-.06
Corn, Silage	0.38	0.37	0.37 .35*									0.32	-					
Grain, sorghum	0.26	0.22	0.2 .18*	0.18 .17*	0.15 .14*							- 0.08	-	-	-	-	0.1	
Oats	0.3	0.25		0.21 .19*	0.17 .16*	0.14 .13*	.11*					-	-	-	-	-	0.09	50%-.10
Soys - 30in	0.34	0.28	0.31 .27*	0.25 .23*	- .21*							-	-	-	0.19	0.17		
Soys - 30in X	-	0.25	0.23	0.2								-	-	-	-	0.12		
												0.11	0.08	0.06	0.04	-		
Soys - 7in	0.33	0.27	0.29 .26*	0.26 .24*	- .21*							-	-	-	0.19	0.17		
Sunflower	0.3	0.26																

FP - Fall plow SP - Spring Plow
 * Fall mulch tillage top number. Spring mulch tillage bottom number.
 % cover- per cent residue cover immediately after planting
 C - Cover management factor for single year in a 2 year rotation
 y 1 - One year after alfalfa or meadow

SINGLE YEAR 'C' VALUES

ZONE 102C

TECHNICAL GUIDE
SECTION I-C
State-wide
WATER-34SG.20

CROP SEQUENCE

SUGAR BEETS 20 ton	PLOW TILLAGE		* FALL MULCH TILLAGE % cover							RIDGE TILL % cover	C	NO - TILLAGE % cover					STRIP TILL % cover -C
	FP	SP	<10	10	20	30	40	50	60			<10	10	20	30	40	
												50	60	70	80	90	
AFTER:																	
Alfalfa																	
Corn, Grain	0.24	0.2	0.19 .17*	0.18 .16*	0.15 .13*	0.12 .11*	0.1 .08*	0.08 .07*	0.07			-	-	-	-	0.03	50%-.06
Corn, Silage	0.38	0.37	0.37 .35*									0.32	-				
Grain, sorghum	0.26	0.22	0.2 .18*	0.18 .17*	0.15 .14*							-	-	-	-	0.1	
Oats	0.3	0.25		0.21 .19*	0.17 .16*	0.14 .13*	.11*					-	-	-	-	0.09	50%-.10
Soys - 30in	0.34	0.28	0.31 .27*	0.25 .23*	- .21*							-	-	-	0.19	0.17	
Soys - 30in X	-	0.25	0.23	0.2								-	-	-	-	0.12	
Soys - 7in	0.33	0.27	0.29 .26*	0.26 .24*	- .21*							-	-	-	0.19	0.17	
Sunflower	0.3	0.26															

FP - Fall plow SP - Spring Plow
* Fall mulch tillage top number. Spring mulch tillage bottom number.
% cover- per cent residue cover immediately after planting
C - Cover management factor for single year in a 2 year rotation
y 1 - One year after alfalfa or meadow

SINGLE YEAR 'C' VALUES

ZONE 102C

TECHNICAL GUIDE
SECTION I-C
State-wide
WATER-34SG.24

CROP SEQUENCE

SUGAR BEETS 24 T0N	PLOW TILLAGE		* FALL MULCH TILLAGE * SPRING MULCH TILLAGE % cover								RIDGE TILL % cover C	NO - TILLAGE % cover					STRIP TILL % cover -C
	FP	SP	<10	10	20	30	40	50	60	<10		10	20	30	40		
										50		60	70	80	90		
AFTER:																	
Alfalfa																	
Corn, Grain	0.21	0.17	0.16 .14*	0.15 .13*	0.12 .11*	0.1 .10*	0.08 .08*	0.07 .07*	0.05 .05*			- 0.06	- 0.05	- 0.03	- 0.02	-	
Corn, Silage	0.34	0.33	0.33 0.31									0.29 -	-				
Grain, sorghum	0.22	0.18	0.16 .15*	0.15 .14*	0.12 .12*							- 0.06	-	-	-	-	
Soys - 30in	0.31	0.25	0.27 .23*	0.22 .20*	- .18*							-	-	-	0.16	0.13	
Soys - 30in X	-	0.22	0.2	0.17	0.15							- 0.09	- 0.07	- 0.05	- 0.03	0.1	
Soys - 7in	0.31	0.25	0.27 .24*	0.23 .20*	- .18*							-	-	-	0.16	0.13	
Sunflower	0.25	0.21															

FP - Fall plow SP - Spring Plow
* Fall mulch tillage top number. Spring mulch tillage bottom number.
% cover- per cent residue cover immediately after planting
C - Cover management factor for single year in a 2 year rotation
y 1 - One year after alfalfa or meadow

SINGLE YEAR 'C' VALUES

ZONE 102C

TECHNICAL GUIDE
SECTION I-C
State-wide
WATER-34SN

CROP SEQUENCE

SNAP BEANS	PLOW TILLAGE		FALL MULCH TILLAGE * SPRING MULCH TILLAGE % cover							RIDGE TILL % cover		NO - TILLAGE % cover					STRIP TILL % cover	
	FP	SP	<10	10	20	30	40	50	60	cover	C	<10	10	20	30	40	90	
																		50
AFTER:																		
Alfalfa																		
Cabbage																		
Corn, Grain																		
Corn, Silage		0.28	0.28									-	0.25	-				
			.27*									-	-	-				
Cucumbers	0.38	0.36	0.36									-	0.33					4%-.34
			.35*									-	-					
Grain Sorghum	0.16	0.12		0.1								-	-	-	-	-		
				.09*								0.02	-	-	-	-		
Oats	0.16	0.11																
Potato, late																		
Soys - 30in																		
Soys - 7in																		
Sugar beets																		
Sunflowers	0.19	0.15		0.1								-	-	-	0.05	-		
				.09*								-	-	-	-	-		
Wheat	0.18	0.12		0.11	0.08	0.07	0.06					-	-	-	-	-		50%-.03
				.09*	.07*	.06*	.05*	.04*	.03*			-	0.02	-	-	-		

FP - Fall plow SP - Spring Plow
 * Fall mulch tillage top number. Spring mulch tillage bottom number.
 % cover- per cent residue cover immediately after planting
 C - Cover management factor for single year in a 2 year rotation
 y 1 - One year after alfalfa or meadow

SINGLE YEAR 'C' VALUES

ZONE 102C

TECHNICAL GUIDE
SECTION
State-wide
WATER-34SU.14

CROP SEQUENCE

SUNFLOWERS 14 CWT.	PLOW TILLAGE		* FALL MULCH TILLAGE * SPRING MULCH TILLAGE % cover							RIDGE TILL % cover	C	NO - TILLAGE % cover					STRIP TILL % cover - C					
	FP	SP	<10	10	20	30	40	50	60			<10	10	20	30	40		50	60	70	80	90
AFTER:																						
Alfalfa																						
Corn, Grain	0.35	0.3	0.26 .25*	0.23 .22*	0.2 .19*	0.14 .13*								-	-						50%-.06	
Corn, Silage	0.51	0.5	0.48 .47*											0.23	-							
Grain Sorghum	0.37	0.32		0.27 .25*										-	-							
Oats	0.42	0.34																				
Snap beans	0.66	0.64	0.64 .62*											0.31	-							
Soys - 30in	0.47	0.41																				
Soys - 7in	0.46	0.39	0.36 .36*	- .27*										-	-	-	0.19	0.16			20%-.19	
Sugar Beets	0.45	0.43																				
Sunflowers	0.43	0.37	0.37 .34*	0.32 .30*										-	-	0.12	-	-		0.07		
Wheat	0.34			0.21 .20*	0.16 .15*	0.13 .12*	0.1 .10*	0.07*						-	-						50%-.05	

FP - Fall plow SP - Spring Plow
* Fall mulch tillage top number. Spring mulch tillage bottom number.
% cover- per cent residue cover immediately after planting
C - Cover management factor for single year in a 2 year rotation
y 1 - One year after alfalfa or meadow

SINGLE YEAR 'C' VALUES

ZONE 102C

TECHNICAL GUIDE
SECTION
State-wide
WATER-34TM.400

CROP SEQUENCE

TOMATO	PLOW TILLAGE		FALL MULCH TILLAGE * SPRING MULCH TILLAGE % cover						RIDGE TILL % cover		NO - TILLAGE % cover				STRIP TILL % cover			
	FP	SP	<10	10	20	30	40	50	60	cover	C	<10	10	20	30	40	90	- C
400 cwt																		
AFTER:																		
Alfalfa																		
Cabbage																		
Corn, Grain	0.28	0.25	0.23	0.18														
Corn, Silage												-	-					
Grain Sorghum												-	-					
Oats																		
Potato, late																		
Soys - 30in																		
Soys - 7in																		
Sugar beets																		
Sunflowers												-	-	-	-			
Wheat																		

FP - Fall plow SP - Spring Plow
 * Fall mulch tillage top number. Spring mulch tillage bottom number.
 % cover- per cent residue cover immediately after planting
 C - Cover management factor for single year in a 2 year rotation
 y 1 - One year after alfalfa or meadow

SINGLE YEAR 'C' VALUES

ZONE 102C

TECHNICAL GUIDE
SECTION I-C
State-wide
WATER-34WW.40

CROP SEQUENCE	PLOW TILLAGE FP	FALL MULCH TILLAGE								NO - TILLAGE								
		% cover								% cover								
		<10	10	20	30	40	50	60	<10	10	20	30	40					
40 bu																		

AFTER:																		
Alfalfa																		
Cabbage																		
Corn, Grain	0.06	0.06	0.06	0.04	0.03	0.03												
Corn, Silage	0.14	0.12	0.1															
Cucumbers																		
Grain Sorghum	0.08	0.07	0.06	0.05	0.03	0.02	0.02	0.01										
Oats																		
Potato, late	0.15	-	0.14															
Snap beans																		
Soy - 7 - 30in	0.1	0.09	0.08	0.06	0.05													
Sugar Beets																		
Sunflower																		

FP - Fall plow SP - Spring Plow
 * Fall mulch tillage top number. Spring mulch tillage bottom number.
 % cover- per cent residue cover immediately after planting
 C - Cover management factor for single year in a 2 year rotation
 y 1 - One year after alfalfa or meadow

SINGLE YEAR 'C' VALUES

ZONE 102C

TECHNICAL GUIDE
SECTION I-C
State-wide
WATER-34WW.50

CROP SEQUENCE

WHEAT	PLOW TILLAGE FP	FALL MULCH TILLAGE								NO - TILLAGE						
		% cover								% cover						
		<10	10	20	30	40	50	60	<10	10	20	30	40			
50 bu											50	60	70	80	90	

AFTER:																
Alfalfa																
Cabbage	0.12	0.1	0.07											-	0.02	
Corn, Grain	0.06	0.05	0.04	0.03	0.02	0.02					-	-	-	-	-	
Corn, Silage	0.11	0.09	0.08								-	-	-	0.03	0.02	
Cucumbers	0.19	0.17	0.12	0.07							-	-	0.06			
Grain Sorghum	0.06	0.05	0.04	0.03	0.03	0.02	0.02	0.01			-	-	-	-	-	
Oats	0.1			0.05	0.04	0.03										
Potato, late	0.12	0.11									0.08					
Snap beans	0.18	0.16	0.12								-	0.11	0.08	0.04		
Soys - 7 - 30in	0.09	0.08	0.06	0.05	0.04						-	-	-	-	0.02	
Sugar Beets											0.02	0.01	-	-	-	
Sunflower	0.08	0.07	0.05	0.03							-	-	-	-	-	
Wheat											0.01	-				

FP - Fall plow SP - Spring Plow
 * Fall mulch tillage top number. Spring mulch tillage bottom number.
 % cover- per cent residue cover immediately after planting
 C - Cover management factor for single year in a 2 year rotation
 y 1 - One year after alfalfa or meadow

