

## "C" Factor Values for Kansas Crops

**Crop: Corn Grain**

**Zone: 89B**

### Fall Mulch\*

Percent Ground Cover After Planting

Corn Grain, After	0	10	20	30	40	50	60	70
Alfalfa	.26	.23	.20	.17	.15	.13	.11	.10
Corn	.35	.30	.25	.21	.18	.15	.13	.11
Corn Silage	.55	.44	.36	.29	.23			
Drilled Beans	.41	.34	.27	.22	.18			
Grain Sorghum	.29	.25	.21	.17	.15	.13	.11	.09
Oats	.39	.31	.24	.19	.15	.12	.10	.08
Sorghum/Sudan	.44	.37	.31	.26	.22			
Soybeans	.40	.33	.27	.22	.18			
Sunflowers	.34	.27	.22	.18	.15			
Wheat	.32	.26	.21	.17	.13	.11	.09	.07

\*First primary tillage operation performed in the fall

### Spring Mulch\*\*

Percent Ground Cover After Planting

Corn Grain, After	0	10	20	30	40	50	60	70
Alfalfa	.21	.19	.17	.15	.13	.12	.10	.09
Corn	.37	.32	.27	.23	.20	.17	.15	.13
Corn Silage	.59	.47	.37	.29	.23			
Drilled Beans	.37	.32	.28	.25	.22			
Grain Sorghum	.31	.27	.23	.20	.17	.15	.13	.11
Oats	.39	.31	.26	.21	.17	.14	.12	.09
Sorghum/Sudan	.48	.40	.33	.28	.23			
Soybeans	.43	.38	.33	.29	.26			
Sunflowers	.35	.31	.26	.23	.19			
Wheat	.32	.26	.22	.17	.14	.12	.09	.08

\*\*First primary tillage operation performed in the spring.

### Other Tillage Types

Corn Grain, After	FP	SP	NT
Alfalfa	.28	.22	.05
Corn, dryland	.38	.39	.13
Corn, Silage	.56	.61	.35
Drilled Beans	.40	.38	.18
Grain Sorghum	.32	.35	.12
Oats	.45	.42	.16
Sorghum/Sudan	.46	.49	.36
Soybeans	.42	.45	.22
Sunflowers	.37	.39	.18
Wheat	.38	.36	.09

FP = Fall Plow  
 SP = Spring Plow  
 NT = No-till

Table provides cover factor ("C") for crop to be planted into selected residue levels of the prior crop, i.e. corn silage after oats.

## "C" Factor Values for Kansas Crops

Crop: **Corn Silage**

Zone: **89B**

### Fall Mulch\*

Percent Ground Cover After Planting

Corn Silage, After	0	10	20	30	40	50	60	70
Alfalfa	.26	.22	.19	.17	.15	.13	.11	.09
Corn	.29	.24	.20	.17	.14	.12	.10	.08
Corn Silage	.49	.42	.36	.30	.26			
Drilled Beans								
Grain Sorghum	.28	.24	.20	.17	.14	.12	.10	.09
Oats	.33	.26	.21	.16	.13	.10	.08	.06
Sorghum/Sudan	.43	.36	.30	.25	.21			
Soybeans	.34	.27	.22	.18	.14			
Sunflowers	.27	.22	.18	.15	.12			
Wheat	.27	.21	.17	.13	.11	.08	.07	.05

\* First primary tillage operation performed in the fall.

### Spring Mulch\*\*

Percent Ground Cover After Planting

Corn Silage, After	0	10	20	30	40	50	60	70
Alfalfa	.15	.14	.12	.11	.09	.08	.07	.07
Corn	.27	.22	.19	.15	.13	.11	.09	.07
Corn Silage	.51	.43	.37	.31	.27			
Drilled Beans	.35	.30	.26	.23	.20			
Grain Sorghum	.26	.22	.19	.17	.15	.13	.11	.09
Oats	.30	.24	.20	.16	.13	.11	.09	.07
Sorghum/Sudan	.42	.36	.32	.28	.25			
Soybeans	.33	.27	.23	.19	.16			
Sunflowers	.26	.22	.19	.16	.14			
Wheat	.24	.20	.16	.13	.10	.08	.06	.05

\*\*First primary tillage operation performed in the spring.

### Other Tillage Types

Corn Silage, After	FP	SP	NT
Alfalfa	.24	.17	.04
Corn, dryland	.31	.29	.09
Corn, Silage	.51	.49	.33
Drilled Beans	.38	.36	.18
Grain Sorghum	.31	.29	.10
Oats	.39	.33	.13
Sorghum/Sudan	.43	.43	.25
Soybeans	.35	.34	.17
Sunflowers	.30	.29	.13
Wheat	.33	.27	.09

FP = Fall Plow  
 SP = Spring Plow  
 NT = No-till

Table provides cover factor ("C") for crop to be planted into selected residue levels of the prior crop, i.e. corn silage after oats.

# "C" Factor Values for Kansas Crops

Crop: **Drilled Beans**

Zone: **89B**

## Fall Mulch\*

Percent Ground Cover After Planting

Drilled Beans, After	0	10	20	30	40	50	60	70
Alfalfa	.18	.15	.12	.10	.08	.07	.05	.04
Corn	.28	.22	.18	.14	.11	.09	.07	.06
Corn Silage								
Drilled Beans	.29	.23	.18	.14	.11			
Grain Sorghum	.22	.18	.14	.11	.09	.07	.06	.05
Oats	.30	.23	.18	.14	.11	.09	.07	.05
Sorghum/Sudan	.37	.29	.23	.18	.15			
Soybeans								
Sunflowers	.24	.19	.15	.12	.09			
Wheat	.25	.20	.15	.12	.09	.07	.06	.04

\* First primary tillage operation performed in the fall

## Spring Mulch\*\*

Percent Ground Cover After Planting

Drilled Beans, After	0	10	20	30	40	50	60	70
Alfalfa	.17	.14	.12	.10	.08	.07	.06	.05
Corn	.25	.21	.17	.14	.12	.10	.08	.07
Corn Silage	.43	.39	.36	.33	.30			
Drilled Beans	.28	.23	.19	.16	.13			
Grain Sorghum	.20	.17	.14	.12	.10	.08	.07	.06
Oats	.27	.22	.18	.15	.12	.10	.08	.07
Sorghum/Sudan	.36	.31	.27	.23	.20			
Soybeans								
Sunflowers	.24	.19	.16	.13	.11			
Wheat	.21	.18	.14	.12	.10	.08	.06	.05

\*\*First primary tillage operation performed in the spring.

## Other Tillage Types

Drilled Beans, After	FP	SP	NT
Alfalfa		.19	.06
Corn, dryland	.30	.27	.08
Corn, Silage	.44	.43	.26
Drilled Beans	.33	.31	.10
Grain Sorghum	.24	.23	.05
Oats	.37	.29	.10
Sorghum/Sudan	.43	.36	.17
Sunflowers	.27	.25	.12
Wheat	.34	.25	.04

FP = Fall Plow

SP = Spring Plow

NT = No-till

Table provides cover factor ("C") for crop to be planted into selected residue levels of the prior crop, i.e. corn silage after oats.

## "C" Factor Values for Kansas Crops

**Crop: Sorghum Silage**  
**Zone: 89B**

### Fall Mulch\*

Percent Ground Cover After Planting

Sorghum Silage, After	0	10	20	30	40	50	60	70
Alfalfa								
Corn	.40	.29	.21	.15	.11	.08	.06	.04
Corn Silage								
Drilled Beans	.38	.28	.20	.15	.11			
Grain Sorghum	.32	.24	.18	.14	.10	.08	.06	.04
Oats								
Sorghum/Sudan								
Soybeans	.48	.24	.12	.06	.03			
Sunflowers	.37	.28	.21	.16	.12			
Wheat								

\* First primary tillage operation performed in the fall.

### Spring Mulch\*\*

Percent Ground Cover After Planting

Sorghum Silage, After	0	10	20	30	40	50	60	70
Alfalfa								
Corn	.40	.29	.21	.15	.11	.08	.06	.04
Corn Silage	.51	.45	.39	.34	.30			
Drilled Beans	.38	.28	.20	.15	.11			
Grain Sorghum	.32	.24	.18	.14	.10	.08	.06	.04
Oats	.41	.31	.23	.17	.13	.09	.07	.05
Sorghum/Sudan	.52	.38	.28	.21	.15			
Soybeans	.48	.24	.12	.06	.03			
Sunflowers	.37	.28	.21	.16	.12			
Wheat	.34	.25	.19	.14	.11	.08	.06	.04

\*\*First primary tillage operation performed in the spring.

### Other Tillage Types

Sorghum Silage, After	FP	SP	NT
Alfalfa			
Corn, dryland	.45	.27	.18
Corn, Silage	.52	.51	.34
Drilled Beans	.41	.38	.12
Grain Sorghum	.38	.24	.16
Oats	.53	.31	.19
Sorghum/Sudan	.54	.37	.45
Soybeans	.51	.32	.30
Sunflowers	.42	.27	.23
Wheat	.44	.25	.11

FP = Fall Plow  
SP = Spring Plow  
NT = No-till

Table provides cover factor ("C") for crop to be planted into selected residue levels of the prior crop, i.e. corn silage after oats.

## "C" Factor Values for Kansas Crops

**Crop: Grain Sorghum**  
**Zone: 89B**

### Fall Mulch\*

Percent Ground Cover After Planting

Grain Sorghum, After	0	10	20	30	40	50	60	70
Alfalfa								
Corn	.40	.31	.24	.18	.14	.11	.08	.06
Corn Silage	.52	.42	.34	.27	.22			
Drilled Beans	.46	.31	.22	.15	.10			
Grain Sorghum	.33	.25	.19	.14	.11	.08	.06	.05
Oats	.42	.31	.23	.18	.13	.10	.07	.05
Sorghum/Sudan	.53	.36	.24	.17	.11			
Soybeans	.48	.33	.23	.16	.11			
Sunflowers	.40	.28	.19	.13	.09			
Wheat	.35	.26	.19	.14	.10	.08	.06	.04

\* First primary tillage operation performed in the fall.

### Spring Mulch\*\*

Percent Ground Cover After Planting

Grain Sorghum, After	0	10	20	30	40	50	60	70
Alfalfa								
Corn	.25	.21	.18	.15	.12	.10	.09	.07
Corn Silage	.51	.40	.31	.24	.19			
Drilled Beans	.37	.29	.24	.19	.15			
Grain Sorghum	.22	.18	.15	.12	.10	.08	.07	.06
Oats	.28	.23	.19	.15	.12	.10	.08	.07
Sorghum/Sudan	.37	.30	.24	.20	.16			
Soybeans	.32	.27	.22	.19	.16			
Summer Fallow	.53	.42	.34	.28	.22			
Sunflowers	.26	.21	.17	.14	.11			
Wheat	0.222	0.178	0.143	0.116	0.092	0.074	0.06	0.048

### Other Tillage Types

Grain Sorghum, After	FP	SP	NT
Alfalfa			
Corn, dryland	.46	.29	.14
Corn, Silage	.53	.53	.32
Drilled Beans	.43	.40	.19
Grain Sorghum	.39	.25	.12
Oats	.53	.32	.17
Sorghum/Sudan	.55	.38	.40
Soybeans	.52	.34	.25
Sunflowers	.44	.34	.20
Wheat	.45	.26	.10

FP = Fall Plow  
SP = Spring Plow  
NT = No-till

Table provides cover factor ("C") for crop to be planted into selected residue levels of the prior crop, i.e. corn silage after oats.

# "C" Factor Values for Kansas Crops

Crop: **Oats**

Zone: **89B**

## Fall Mulch\*

Percent Ground Cover After Planting

Oats, After	0	10	20	30	40	50	60	70
Alfalfa								
Corn	.11	.09	.08	.06	.05	.04	.04	.03
Corn Silage	.27	.19	.13	.09	.06			
Drilled Beans	.14	.11	.08	.07	.05			
Grain Sorghum	.08	.07	.06	.04	.04	.03	.03	.02
Oats	.14	.11	.09	.07	.06	.05	.04	.03
Sorghum/Sudan	.18	.14	.11	.09	.07			
Soybeans	.13	.10	.07	.06	.04			
Sunflowers	.10	.08	.07	.06	.05			
Wheat	.14	.11	.09	.07	.05	.04	.03	.02

\* First primary tillage operation performed in the fall.

## Spring Mulch\*\*

Percent Ground Cover After Planting

Oats, After	0	10	20	30	40	50	60	70
Alfalfa								
Corn	.09	.08	.06	.05	.05	.04	.03	.03
Corn Silage	.26	.19	.13	.10	.07			
Drilled Beans	.13	.11	.09	.07	.06			
Grain Sorghum	.08	.06	.05	.04	.04	.03	.02	.02
Oats	.12	.10	.08	.07	.06	.05	.04	.04
Sorghum/Sudan	.15	.12	.10	.08	.07			
Soybeans	.12	.10	.08	.07	.06			
Sunflowers	.09	.08	.06	.05	.05			
Wheat	.10	.09	.07	.06	.05	.04	.03	.03

\*\*First primary tillage operation performed in the spring.

## Other Tillage Types

Oats, After	FP	SP	NT
Alfalfa			
Corn	.20	.10	.03
Corn, Silage	.27	.28	.16
Drilled Beans	.15	.14	.07
Grain Sorghum	.09	.08	.02
Oats	.16	.13	.05
Sorghum/Sudan	.19	.18	.11
Soybeans	.14	.12	.07
Sunflowers	.11	.10	.04
Wheat	.22	.12	.04

FP = Fall Plow  
 SP = Spring Plow  
 NT = No-till

Table provides cover factor ("C") for crop to be planted into selected residue levels of the prior crop, i.e. corn silage after oats.

## "C" Factor Values for Kansas Crops

Crop: **Soybeans**

Zone: **89B**

### Fall Mulch\*

#### Percent Ground Cover After Planting

Soybeans, After	0	10	20	30	40	50	60	70
Alfalfa	.26	.21	.17	.14	.12	.10	.08	.07
Corn	.35	.29	.23	.19	.15	.13	.10	.08
Corn Silage	.57	.48	.40	.34	.28			
Drilled Beans								
Grain Sorghum	.29	.24	.19	.16	.13	.10	.08	.07
Oats	.39	.30	.24	.19	.15	.12	.10	.08
Sorghum/Sudan	.47	.36	.27	.21	.16			
Soybeans	.41	.32	.25	.19	.15			
Sunflowers	.34	.27	.22	.18	.15			
Wheat	.33	.26	.20	.15	.12	.09	.07	.06

\* First primary tillage operation performed in the fall.

### Spring Mulch\*\*

#### Percent Ground Cover After Planting

Soybeans, After	0	10	20	30	40	50	60	70
Alfalfa	.24	.20	.17	.14	.12	.10	.08	.07
Corn	.23	.20	.17	.15	.13	.11	.10	.08
Corn Silage	.58	.51	.44	.38	.33			
Drilled Beans								
Grain Sorghum	.26	.22	.18	.15	.13	.11	.09	.07
Oats	.35	.28	.23	.19	.15	.13	.10	.08
Sorghum/Sudan	.44	.39	.33	.29	.25			
Soybeans	.40	.32	.26	.21	.17			
Sunflowers	.32	.26	.22	.18	.15			
Wheat	.28	.23	.18	.15	.12	.10	.08	.07

\*\*First primary tillage operation performed in the spring.

### Other Tillage Types

Soybeans, After	FP	SP	NT
Corn, Silage	.58	.58	.33
Sorghum/Sudan	.48	.48	.32
Wheat	.39	.32	.06
Oats	.47	.39	.12
Alfalfa	.27	.26	.07
Corn, dryland	.39	.35	.08
Grain Sorghum	.32	.30	.07
Soybeans	.44	.41	.15
Sunflowers	.37	.35	.11

FP = Fall Plow  
 SP = Spring Plow  
 NT = No-till

Table provides cover factor ("C") for crop to be planted into selected residue levels of the prior crop, i.e. corn silage after oats.

# "C" Factor Values for Kansas Crops

Crop: **Sunflowers**

Zone: **89B**

## Fall Mulch\*

Percent Ground Cover After Planting

Sunflowers, After	0	10	20	30	40	50	60	70
Alfalfa	.30	.24	.20	.16	.13	.11	.09	.07
Corn	.39	.31	.24	.19	.15	.12	.09	.07
Corn Silage	.63	.52	.42	.34	.28			
Drilled Beans	.40	.29	.22	.16	.12			
Grain Sorghum	.32	.25	.20	.16	.12	.10	.08	.06
Oats	.41	.31	.24	.18	.14	.11	.08	.06
Sorghum/Sudan	.52	.37	.27	.19	.14			
Soybeans	.47	.33	.24	.17	.12			
Sunflowers	.38	.28	.20	.15	.11			
Wheat	.35	.26	.19	.15	.11	.09	.07	.05

\* First primary tillage operation performed in the fall.

## Spring Mulch\*\*

Percent Ground Cover After Planting

Sunflowers, After	0	10	20	30	40	50	60	70
Alfalfa								
Corn	.32	.27	.22	.18	.15	.12	.10	.08
Corn Silage	.63	.51	.41	.33	.27			
Drilled Beans	.36	.30	.24	.20	.16			
Grain Sorghum	.28	.23	.19	.16	.13	.11	.09	.08
Oats	.35	.28	.22	.18	.15	.12	.09	.08
Sorghum/Sudan	.50	.38	.30	.23	.18			
Soybeans	.42	.32	.25	.19	.14			
Sunflowers	.34	.28	.23	.19	.16			
Wheat	.27	.22	.18	.14	.12	.09	.08	.06

\*\*First primary tillage operation performed in the spring.

## Other Tillage Types

Sunflowers, After	FP	SP	NT
Alfalfa			
Corn	.45	.37	.14
Corn Silage	.58	.58	.33
Grain Sorghum	.38	.37	.12
Oats	.53	.39	.17
Sorghum/Sudan	.54	.50	.40
Soybeans	.51	.50	.25
Sunflowers	.43	.43	.19
Wheat	.41	.33	.09

Alfalfa

Corn	0.45	0.37	0.14
Corn Silage	0.58	0.58	0.33
Grain Sorghum	0.38	0.37	0.12
Oats	0.53	0.39	0.17
Sorghum/Sudan	0.54	0.5	0.4
Soybeans	0.51	0.5	0.25
Sunflowers	0.43	0.43	0.19
Wheat	0.41	0.33	0.09

FP = Fall Plow  
 SP = Spring Plow  
 NT = No-till

Table provides cover factor ("C") for crop to be planted into selected residue levels of the prior crop, i.e. corn silage after oats.

## "C" Factor Values for Kansas Crops

Crop: **Winter Wheat**

Zone: **89B**

### Fall Mulch\*

Percent Ground Cover After Planting

Winter Wheat, After	0	10	20	30	40	50	60	70
Alfalfa								
Corn	.10	.08	.07	.05	.04	.04	.03	.02
Corn Silage								
Drilled Beans								
Grain Sorghum	.07	.06	.05	.04	.03	.03	.02	.02
Oats								
Sorghum/Sudan								
Soybeans	.11	.09	.08	.06	.05	.04	.04	.03
Summer Fallow	.18	.12	.07	.05	.03			
Sunflowers	.08	.07	.05	.05	.04			

Wheat

### Spring Mulch\*\*

Percent Ground Cover After Planting

Winter Wheat, After	0	10	20	30	40	50	60	70
Alfalfa	.07	.06	.05	.04	.03	.03	.03	.02
Corn								
Corn Silage	.21	.16	.12	.09	.07			
Drilled Beans	.10	.08	.07	.06	.05	.04	.03	.03
Grain Sorghum								
Oats								
Sorghum/Sudan	.15	.12	.10	.08	.06			
Soybeans								
Sunflowers								
Wheat	.11	.09	.07	.05	.04	.03	.03	.02

\*\*First primary tillage operation performed in the spring.

### Other Tillage Types

Winter Wheat, After	FP	SP	NT
Alfalfa	.08		.03
Corn	.11	.10	.02
Corn, Silage	.21	.21	.09
Grain Sorghum	.08	.08	.02
Sorghum/Sudan	.16	.15	.06
Soybeans	.12	.12	.03
Summer Fallow			.06
Sunflowers	.10	.10	.09
Wheat	.15	.13	.02

FP = Fall Plow

SP = Spring Plow

NT = No-till

Table provides cover factor ("C") for crop to be planted into selected residue levels of the prior crop, i.e. corn silage after oats.