FIELD EXPERIMENT HISTORY

Year: 2002

Title:	**Kinze Planter Evaluation Study on Corn - No-till**
Experiment:	**16 Kinze Planter Evaluation**
Personnel:	**R. Borges, J. Gaska, K. Kohn and J. Lauer**
Organization:	**Univ. of WI-Madison, Dept. of Agronomy**
Location:	**Arlington Ag Research Station, Arlington, WI**

FIELD INFORMATION

Field:	ARS 372
Soil type:	Plano silt loam
Fertilizer Applied:	None
Tillage Operations:	None
Previous Crop:	Corn
Previous Herbicide:	Roundup
Irrigation:	None

EXPERIMENTAL PROCEDURE

Exp. Design:	RCB	
Replicates:	4	
Variables:	Row number 1 to 7	
Plot Size:	Planted:	10' x 75'
	Area Counted:	each 15" row x 70' long
Row Spacing:	15"	
Cultivar:	Pioneer 37J99	
Planting:	Date:	23-May
	Equipment:	Kinze Interplant planter
	Rate:	35000 seeds/acre
	Depth:	1.5"

	Material	Rate	Method	Date
Herbicides:	Dual	2 pt/a	pre-plant	1-May
	Pursuit	1.44 oz/a	pre-plant	1-May

Results: Table C-53.

Table C-53. Kinze Planter Evaluation Study on Corn - Notill
Arlington, WI

Row Position	Plant Population 17-Jun-02	% of planted
Row 1 Left	32.1	91.6
Row 2 Wheel row	27.5	78.7
Row 3	27.4	78.2
Row 4 Middle	21.6	61.7
Row 5	29.6	84.6
Row 6 Wheel row	29.6	84.6
Row 7 Right	28.2	80.7
Means	28.0	80.0
Probability %	0.84	0.84
LSD 10%	2.3	6.4
C.V. %	11	11

FIELD EXPERIMENT HISTORY

Year: 2002

Title:	**Kinze Planter Evaluation Study on Corn - Conv. Tillage**
Experiment:	**16 Kinze Planter Evaluation**
Personnel:	**R. Borges, J. Gaska, K. Kohn and J. Lauer**
Organization:	**Univ. of WI-Madison, Dept. of Agronomy**
Location:	**Arlington Ag Research Station, Arlington, WI**

FIELD INFORMATION

Field:	ARS 371
Soil type:	Plano silt loam
Fertilizer Applied:	None
Tillage Operations:	fall chisel plow, spring field cultivate and soil finish
Previous Crop:	Corn
Previous Herbicide:	Roundup
Irrigation:	None

EXPERIMENTAL PROCEDURE

Exp. Design:	RCB	
Replicates:	4	
Variables:	Row number 1 to 7	
Plot Size:	Planted:	10' x 75'
	Area Counted:	each 15" row x 70' long
Row Spacing:	15"	
Cultivar:	Pioneer 35R57	
Planting:	Date:	23-May
	Equipment:	Kinze Interplant planter
	Rate:	35000 seeds/acre
	Depth:	1.5"

	Material	Rate	Method	Date
Herbicides:	Harness	2.5 pt/a	preemerge	1-May
	Hornet	4.5 oz/a	preemerge	1-May

Results: Table C-54.

Table C-54. Kinze Planter Evaluation Study on Corn - Conv. Tillage Arlington, WI

Row Position	Plant Population 17-Jun-02	% of planted
Row 1 Left	27.5	78.7
Row 2 Wheel row	27.2	77.7
Row 3	29.8	85.1
Row 4 Middle	19.5	55.8
Row 5	31.0	88.6
Row 6 Wheel row	29.8	85.1
Row 7 Right	28.8	82.1
Means	27.7	79.0
Probability %	0.34	0.35
LSD 10%	2.4	6.9
C.V. %	12	12

FIELD EXPERIMENT HISTORY

Year: 2002

Title:	**Kinze Planter Evaluation Study on Soybeans - No-till**
Experiment:	**16 Kinze Planter Evaluation**
Personnel:	**R. Borges, J. Gaska, and J. Lauer**
Organization:	**Univ. of WI-Madison, Dept. of Agronomy**
Location:	**Arlington Ag Research Station, Arlington, WI**

FIELD INFORMATION

Field:	ARS 372
Soil type:	Plano silt loam
Fertilizer Applied:	None
Tillage Operations:	None
Previous Crop:	Corn
Previous Herbicide:	Roundup
Irrigation:	None

EXPERIMENTAL PROCEDURE

Exp. Design:	RCB	
Replicates:	4	
Variables:	Row number 1 to 7	
Plot Size:	Planted:	10' x 75'
	Area Counted:	each 15" row x 70' long
Row Spacing:	15"	
Cultivar:	KB 121 RR	
Planting:	Date:	6-May-02
	Equipment:	Kinze Interplant planter
	Rate:	175,000 seeds/acre
	Depth:	1"

	Material	Rate	Method	Date
Herbicides:	Dual	2 pt/a	pre-plant	1-May
	Pursuit	1.44 oz/a	pre-plant	1-May

Results: Table C-55.

Table C-55. Kinze Planter Evaluation Study on Soybeans - Notill Arlington, WI

Row Position	Plant Population 12-Jun-02	% of planted
Row 1 Left	129.1	73.8
Row 2 Wheel row	132.7	75.8
Row 3	131.9	75.4
Row 4 Middle	83.4	47.7
Row 5	63.7	36.4
Row 6 Wheel row	132.7	75.8
Row 7 Right	73.8	42.2
Means	106.7	61.0
Probability %	<0.1	<0.1
LSD 10%	3.71	2.1
C.V. %	5	5

FIELD EXPERIMENT HISTORY

Year: 2002

Title:	**Kinze Planter Evaluation Study on Soybeans - Conv. Tillage**
Experiment:	**16 Kinze Planter Evaluation**
Personnel:	**R. Borges, J. Gaska, and J. Lauer**
Organization:	**Univ. of WI-Madison, Dept. of Agronomy**
Location:	**Arlington Ag Research Station, Arlington, WI**

FIELD INFORMATION

Field:	ARS 358
Soil type:	Plano silt loam
Fertilizer Applied:	None
Tillage Operations:	fall chisel plow, spring field cultivate and soil finish
Previous Crop:	wheat
Previous Herbicide:	None
Irrigation:	None

EXPERIMENTAL PROCEDURE

Exp. Design:	RCB	
Replicates:	4	
Variables:	Row number 1 to 7	
Plot Size:	Planted:	10' x 75'
	Area Counted:	each 15" row x 60' long
Row Spacing:	15"	
Cultivar:	KB 121 RR	
Planting:	Date:	6-May-02
	Equipment:	Kinze Interplant planter
	Rate:	175,000 seeds/acre
	Depth:	1"

	Material	Rate	Method	Date
Herbicides:	Dual	2 pt/a	pre-plant	1-May
	Pursuit	1.44 oz/a	pre-plant	1-May

Results: Table C-56.

Table C-56. Kinze Planter Evaluation Study on Soybeans - Conv. Till Arlington, WI

Row Position	Plant Population 12-Jun-02	% of planted
Row 1 Left	107.2	61.2
Row 2 Wheel row	97.7	55.8
Row 3	83.4	47.7
Row 4 Middle	42.3	24.2
Row 5	34.1	19.5
Row 6 Wheel row	83.1	47.5
Row 7 Right	67.8	38.8
Means	73.7	42.1
Probability %	<0.1	<0.1
LSD 10%	10.5	6.0
C.V. %	20	20