

FARM CONSERVATION PLAN

R. J. & Ivan Krebill Owner, Donnellson, Iowa

Operator, _____,

located in

Lee County Soil Conservation District - Donnellson, Iowa

District Agreement No. _____

This farm conservation plan was developed in March 1949 with the assistance of Franklin H. Mullen, of the Soil Conservation Service. If you need any assistance or additional information, or find the plan needs revision, please feel free to call at the District Office,

Donnellson, Iowa, _____

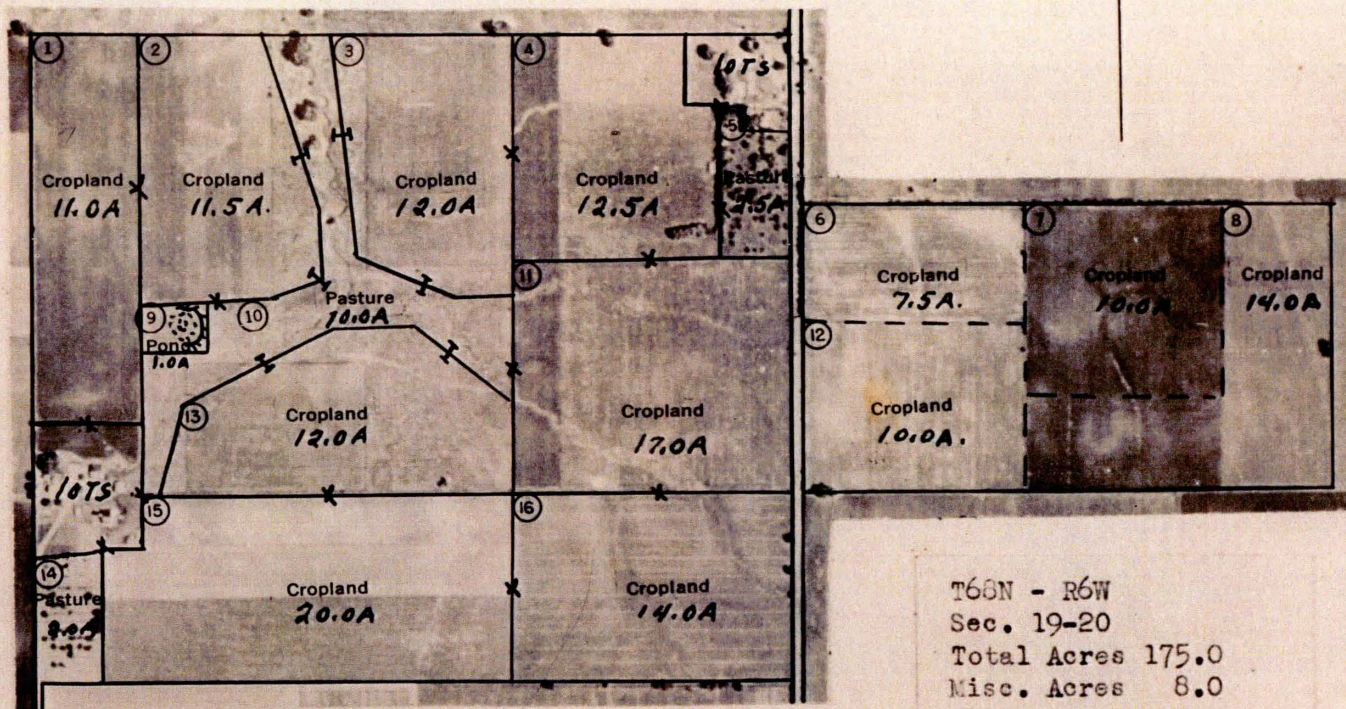
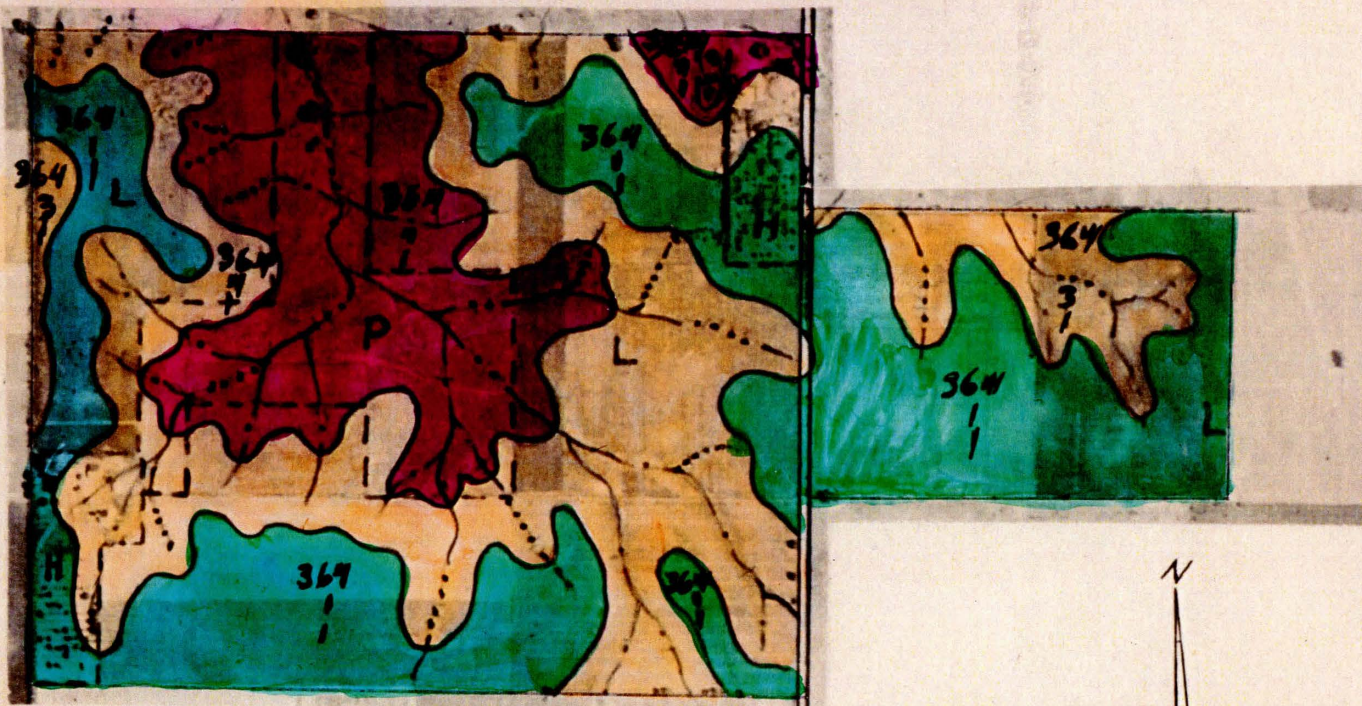
Telephone: 135

RO-836

L. D. Boyd

THE USE CAPABILITY MAP

The colors on the map below separate areas according to their use hazards. The numbers and letters on the map show soil type, percent of slope, and degree of erosion. These three factors determine the classes of land as shown by the colors.



T68N - R6W
Sec. 19-20
Total Acres 175.0
Misc. Acres 8.0

THE LAND USE MAP

The above map shows the planned land use, field arrangement, conservation measures, and other information based on the classes of land shown on the colored map. Scale: 1" = 100'

These maps are compiled and furnished by the Soil Conservation Service to the district as a part of a complete farm conservation plan developed by farmer-district-cooperator R. J. Krobill & Son assisted by the technical staff of the Soil Conservation Service. Code: FP-1A-139

CONSERVATION SURVEY LEGEND FOR FARMER DISTRICT AGREEMENTS For Simplified Surveys

Soil Types

364 - Grundy silt loam
Haig silt loam

Gullies & Drainage

Individual shallow gullies →
Individual deep gullies ~ ~ ~ ~ ~ →
 undercutting slight to moderate
Individual deep gullies ~ ~ ~ ~ ~ →
 undercutting serious
Intermittent drainageways, ~ ~ ~ ~ ~ →
 (no channels)
Permanent streams ~ ~ ~ ~ ~ →
Intermittent streams with ~ ~ ~ ~ ~
 deep channels
Intermittent streams ~ ~ ~ ~ ~ →

Slope

Dominant slope indicated

Order of Symbols

Soil	Thus	9
Slope - Erosion		12 - 2
	or	

Land Use

L - Cropland
P - Pasture
F - Woodland
X - Idle land
H - Urban

Soil	Thus	9
Slope		12
Erosion		2
	or	

Soil - Slope - Erosion thus 9 - 12 - 2

Erosion Legend

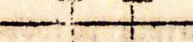
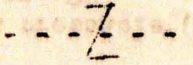
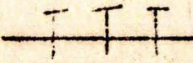
0. Deposition or no apparent erosion.
1. Slight to moderate erosion; 5" or more of surface soil remaining and tolerating occasional areas of exposed subsoil too small to separate.
2. Moderately severe erosion; surface soil mixed with the "B" horizon; may include areas of group 1 and bodies of exposed subsoil too small to separate.
3. Erosion of "B" horizon; may include areas with less erosion too small to separate.
4. Frequent gullies - not crossable (8) and 8v.
5. Destroyed land 9, (9) and 9v.
6. Slips or catsteps.
- w. Poorly drained bottomland soils.
4. Soil type number over-scored indicates that this area is subject to frequent overflows.
- c. Soil type number followed by the small letter "c" indicates green valleys badly cut up by meandering streams.
2. Complex bottomland soil and slope destroyed by stream action.

Land Use Capability Legend

Class

- | | |
|--|---|
|  Suitable for cultivation without special conservation practices. |  Suitable for hay and pasture but not suitable for cultivation other than reseeding. |
|  Suitable for cultivation with moderate conservation practices. |  Unsuitable for cultivation but suitable for permanent vegetation with moderate conservation practices. |
|  Suitable for cultivation with intensive conservation practices. |  Unsuitable for cultivation but suitable for permanent vegetation with intensive conservation practices. |

LAND USE SYMBOLS

-  Farm Boundary
-  Field Boundary, no fence
-  Existing fence
-  Fence to be built
-  Public roads
-  Private roads
-  Connected areas
-  Field number
-  Terrace or Diversion Terrace
-  Streams
-  Intermittent streams
-  Tile drainage
-  Farm buildings

FARMER-DISTRICT COOPERATIVE AGREEMENT

District Agreement No. Ia-SCD-48-139

LEE COUNTY

Soil Conservation District

State of Iowa

This agreement entered into by the Lee County Soil Conservation District referred to below as the "District" and the undersigned, hereinafter referred to as the "Cooperator":

THE DISTRICT HAS:

1. Assisted the cooperator in formulating a soil conservation farm plan, hereinafter referred to as the "plan" and has prepared and made available a permanent record of this plan.

THE DISTRICT AGREES TO:

1. Assist in carrying out the plan by furnishing to the cooperator such information, technical assistance and supervision and other assistance as it may have available at the time the work is to be done.
2. Furnish the cooperator with a summary of the anticipated general effects of the application of the plan on the organization of the farm.

THE COOPERATOR AGREES TO:

1. Carry out the provisions of the attached plan as rapidly as funds and resources will permit.
2. Maintain all conservation practices established according to the plan in an effective condition.
3. Use any materials including planting stock and equipment requested by the cooperator and made available by the district in the ways and for the purposes for which they were furnished.

IT IS FURTHER AGREED:

1. This agreement shall take effect on the date of the last signature to it and shall remain in full force and effect until terminated (a) by mutual agreement in writing; or (b) any time on or after December 31, 1954, by either party giving written notice to the other party at least 60 days in advance of the desired termination date; or (c) as hereinafter provided.
2. If during the term of this agreement any party to it ceases to have an interest in the land as owner, tenant, or otherwise, this agreement shall become inoperative as to such party. A new owner may continue this agreement by signing same. In case of a new tenant, the owner agrees to make appropriate arrangements with him to continue the plan.
3. The attached plan may be changed at any time by agreement of all parties.
4. The provisions of this plan are understood by the cooperator and the district, and neither shall be liable for damage to the other's property resulting from carrying out the plans unless damage is caused by negligence or misconduct.
5. If the operator wilfully fails to fulfill his responsibility under this agreement, the District may, at its option, terminate this agreement and shall be entitled to recover the value of materials made available to the cooperator.

SIGNATURES:

R. J. & Ivan Kiehl (Owner-Operator) Date: 3-28-49
____ (Owner-Operator) Date: _____
____ (Owner-Operator) Date: _____

Lee County Soil Conservation District
By: L. D. T. Boyd Date: 5-18-49
District Commissioner.

"ENCOURAGE YOUR FRIENDS AND NEIGHBORS TO ADOPT A GOOD SOIL CONSERVATION PLAN"

SCHEDULE OF OPERATIONS

WG-1

OWNER R. J. & Ivan KyebillAddress Donnellson, IowaPlan No. Ia-SCD-48-139

OPERATOR

Address

"C"-Corn, "G"-Grain, "M"-Meadow

FIELD		CONTOUR	STRIP CROP	TERRACE	LIME	FERTILIZER	SEED PASTURE	WATERWAYS	1949	1950	1951	1952	1953	1954
NO.	ACRES													
									CROPLAND: 150.5 Acres These fields to be farmed to a five year rotation of C-C-G-M-Pasture					
1	11.0				Limed	1953 X			Corn	M Oats Sw. Clover	C	C	G	M
2	11.5	X			Limed	1948 X		1948 600'	10.0 Alf-Bro 1.5 Pasture	M 10.0 Alf-Bro 1.5 Pasture	C	C	G	M
3	12.0	X			Limed	1950 X		1949 800'	10.0 Oats 2.0 Pasture	G 10.0 Wheat 2.0 Pasture	M 10.0 Alf-Bro 2.0 Pasture	M 10.0 Alf-Bro 2.0 Pasture	C	C
4	12.5				Limed	1951 X		1949 200'	Corn	G Corn	M Oats	M Clover	C	C
11	17.0	10A.			Limed	1952		1948 600'	3.0 Alfalfa 14.0 Clover	C Corn	C	G	M	M

SCHEDULE OF OPERATIONS

WG-1

OWNER R.J. & Ivan Kriebill Address Donnellson, Iowa Plan No. Ia-SCD-18-139

OPERATOR Same Address "C"-Corn, "G"-Grain, "M"-Meadow

FIELD		CONTOUR	STRIP CROP	TERRACE	LINE	FERTILIZER	SEED PASTURE	WATERWAYS	1949	1950	1951	1952	1953	1954
NO.	ACRES													
									These fields to be farmed to a four year rotation of C-C-G-M					
6	7.5				1948 X	1949 X		1949 350'	Wheat Clover	M	C	C	G	M
7	10.0				1950 X	1951 X		300'	Corn	C	O	M	C	C
8	14.0				1949 X	1950 X			Beans Oats	G Oats	M	C	C	G
12	10.0				1948 X	1952 X			Oats Sw. Clover	C Corn	C	G	M	C
								Corn	10.0	20.0	17.5	21.5	24.0	20.0
								Beans	14.0					
								Oats	10.0	14.0	10.0	10.0	7.5	14.0
								Wheat	7.5					
								Clover		7.5	14.0	10.0	10.0	7.5
									41.5	41.5	41.5	41.5	41.5	41.5

WG-1

Plan No. **Ia-SCD-48-139**

"C"-Corn, "G"-Grain, "M"-Meadow

[illegible]

FARM ORGANIZATION SUMMARY

Plan No. **1a-SCD-48-139**

Crop Production				Livestock Numbers			Feed Requirement		Planned Livestock		
Kind	Before		Planned		Kind of Livestock		Corn	Oats	Hay	Supplement	
	Acres	Prod.	Acres	Prod.							
Corn			66.5	3000	Feeder Cattle	20	700	60	14	3000	7
Beans					Spring Pigs	200	2800	1000		15000	17
Oats			35.0	1100	Fall Pigs	150	2100	750		11250	
Clover			10.5	16T.	Ewes	55	27	55	11		11
Alf-Brome			8	20T.	Lambs	65	48	65	1½T.	975	6.
Rotation Pasture			31.5								
Perm. Pasture			14.5		Hens	150	90	135		900	
Wildlife Area			1.0		Pullets	200	30	70		800	
Miscellaneous			8.0		Chicks	250	12	20		300	
Total			175.0								
Feed Purchased											
Kind	Before		Planned								
					Total Feed Need		5807	2155	26½	32225	14½
					Available on Farm		3000	1100	36T	16T	
					Surplus or Deficit		-2807	-755	+ 9½		

Distribution of Pasture Carrying Capacity by Months
(Animal Units by Months)

	Acres	April	May	June	July	Aug	Sept	Oct	Nov
Permanent Pasture	14.5	4	8	12	8		4	8	
Rotation Pasture	31.5	4	32	64	64	56	56	32	
Total Available			40	76	72	56	60	40	
Total Required			45	45	45	45	45	45	
Surplus or Deficit			-5	+31	+ 27	+11	+15	-5	

1. Return all crop residue and manure to the land.
2. Apply limestone according to test, at least six months before legume seeding.
3. Apply super-phosphate at time of grain seeding: 200# to 300# per acre.
4. Inoculate all legume seed with the correct inoculant.
5. Renovate permanent pasture when legumes are gone, as follows:
 - a. Lime.
 - b. Plow shallow, on contour, late in fall, leave lay over winter in rough.
 - c. Early spring apply 300# super-phosphate per acre, prepare good seedbed, seed oats about 1 bushel per acre.
 - d. Firm seedbed with cultipacker or harrow, seed mixture, cover light (1/2 inch) with cultipacker or harrow on the contour.
 - e. Graze off oats when 8-10 inches high; control grazing on the new seeding.
6. Manage permanent pasture as follows:
 - a. Start grazing in the spring when grass has reached a height of four inches. Rotate during season.
 - b. Furnish supplemental pasture as required.
 - c. Mow weeds if necessary in June and August when first blooms appear.
 - d. Scatter manure droppings with harrow.
7. Establish and maintain grass waterways wide enough to carry the runoff. Work in all eroded waterways, seed, and mulch with strawy manure.
8. Protect all woodland and wildlife areas from fire and grazing.
9. Leave the last crop of hay as a manure crop on each rotation field as it goes to corn if the hay can be spared from the feed requirements.

RECOMMENDED SEED MIXTURES

Cropland Seedings:**

Limed Soils

8# Red Clover	)	1 Yr.
4# Timothy	)	Hay
6# Alfalfa	)	
3# Red Clover	)	2 or 3
4# Brome	)	Yr. Hay
2# Timothy	)	

* 8# Alfalfa	)	
6-8# Brome	)	Long Term
Or	)	Hay or
8# Alfalfa	)	Rotation
2# Red Clover	)	Pasture
6# Brome	)	
2# Timothy	)	

Unlimed Soils

5-6# Red Clover	)	
2-3# Alsike Clover	)	1 or 2
4-5# Timothy	)	Yr. Hay

Pasture Seedings:

Limed Pasture

1 Bu. Oats
5# Sw-Clover
2# Red Clover
2# Alsike Clover
2# Alfalfa
4# Timothy
6# Brome

Unlimed Pastures

1 Bu. Oats
5# Red Clover
2# Alsike
8# Lespedeza
5# Timothy

Waterway Seedings***

2# Alsike
4# Timothy
8# Brome

Wet or Seepy Soils

3# Alsike
6# Reeds Canary Grass
5# Timothy

Birdsfoot Trefoil Pasture

4# Trefoil
3# Red Clover
3# Bluegrass <u>or</u>
5# Orchard Grass

Ladino Pasture

1-2# Ladino Clover
3-4# Red Clover <u>or</u>
3-4# Alsike Clover
3-5# Orchard Grass <u>or</u>
5-6# Reeds Canary Grass

* Add Alsike Clover for seepy areas with Bromegrass Alfalfa mixture on Long Term Hay or Pasture.

** Sow Oats at not more than 1½ Bushel per acre for nurse crop.

*** On Thin soils part of Brome may be replaced with Redtop.

Owner R. J. & Ivan Krehill

Plan No. Ia-SCD-48-139

Operator Same

PLAN OF CONSERVATION OPERATIONS

Land Use, Practices, and treatments will be carried out as shown on the land use map, schedule of operations, and cropping plan.

As adjustments in your cropping plan become necessary it is desirable to consider the sequence of crops as set up in the schedule of operations, in order to maintain a well balanced farm organization.

FURTHER ADJUSTMENTS OR ADDITIONS YOU MAY
WISH TO CONSIDER TO IMPROVE THIS PLAN

CROPLAND:

On fields 6-7-8 and 12 a rotation of C-C-G-M is to be used. This area in places is poorly drained and stays wet. The use of sweet clover as a soil loosener can be employed after all has been satisfactorily limed.

On fields 1-2-3-4-11-13-15 and 16 a rotation of C-C-G-M and pasture is to be established. Fields 2-3- and 13 may be enlarged by taking in parts of permanent pasture and working on the contour. A suggested seeding rate for alfalfa-brome grass seeding would be 8# alfalfa and 6-8# brome grass. Pasture may be used on the second year meadows. In areas where there is danger of being too wet for alfalfa-brome a mixture of alfalfa ladino clover -alsike and brome is suggested.

PERMANENT PASTURE:

Only permanent pasture will be small areas along main waterway in field #10 and in small fields #5 and 14 near buildings.

WILDLIFE AREA:

Pond to be fenced and stocked with bass and bluegill and fertilized with 8-8-8 at rate of 100 lbs. per surface acre.