

SCS-40
(1-56)

SOIL AND WATER CONSERVATION PLAN

SOLD TO ROBERT BRACE

Charles T. Brace # 1406

Cooperator

EXHIBIT

22

Erie County

SOIL CONSERVATION DISTRICT

Assisted by

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

U. S. GOVERNMENT PRINTING OFFICE 16-72303-1

DEFENDANT'S
EXHIBIT

H

B 0130

Chas Brace 60-40

141,

B 0131

SOIL AND CAPABILITY MAP

Prepared by U. S. Department of Agriculture, Soil Conservation Service, cooperating with
Erie County Soil Conservation District

and Owner Charles T. Brace Address RD# 4, Waterford, Pa. Phone SW 4-5491
Operator Address Phone
Township Waterford County Erie State Pa. Plan No. 1406
Photo No. APD 60-40 Acres 134 Surveyor Taylor Date Surveyed
Scale: 1" = 660', App.



Pa-5
(11-15-54)

LAND USE CAPABILITY CLASSES SHOWN IN COLOR

CHECK THE COLORED MAP OF YOUR FARM WITH THE COLOR DESCRIPTION BELOW.

The capability class shown by color is normally the most intensive use that should be made of the land if it is to remain productive.



Land that is suitable for intensive cultivation with no special conservation hazards. Nearly level, deep well-drained soils which need only ordinary farming practices to maintain soil structure and organic matter.



Land that is suitable for fairly intensive cultivation but needs some simple conservation treatment or has some natural limitation on its use. One example is gently sloping land that needs strip-cropping and simple water management practices. Another is land with fairly good drainage but not good enough for best yields of crops which require good drainage. Good rotations, proper fertilization and maintenance of organic matter are essential.



Land that is suitable for cultivation but needs intensive conservation practices. For example, moderately sloping land that needs strip-cropping supplemented by diversions and with a fairly long rotation; or wet land which requires intensive drainage systems for good crop production; or shallow land which limits crop production due to low moisture capacity.



Land that is suitable for hay or pasture and for limited cultivation. An example is steep eroded land which needs thorough protection from erosion. Other land in this class includes wet land that can be drained sufficiently for some hay crops but not for cultivation in most years. It may have enough stones to make plowing difficult.



Land that, because of its severe natural limitations such as steepness, stoniness, wetness or erosion, is not suitable for cultivation, but can be best used for pasture or woodland with moderate use of conservation practices.

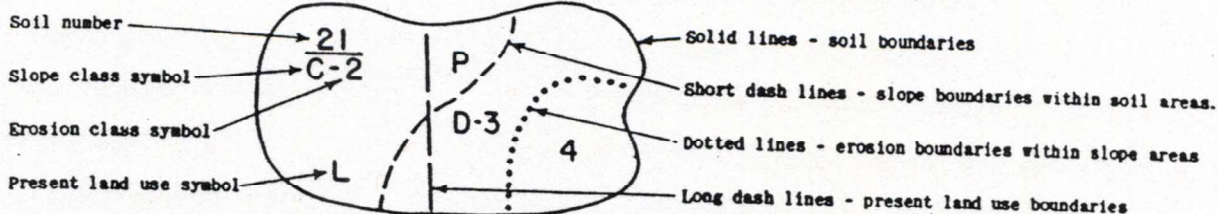


Land that is suitable for woodland or wildlife but usually not suitable or easy to use as pasture. It includes very steep land, very badly eroded land, and very stony land.



Land that is suitable in some cases for wildlife production or recreational uses. It is not suitable for cropland, pasture land or commercial woodland production. Some examples are rocky upper slopes of mountains, coal mining wastes which do not support vegetation, large quarries, and gravel bars along rivers and creeks.

MEANING OF BLACK SYMBOLS AND LINES ON YOUR COLORED MAP

SOIL - Number above line or first part of three part symbol.
*See soils description below.

SLOPE - Letter below line or letter in two part symbol.

EROSION - Number below line or number alone.

A - Level or nearly level
 B - Gently sloping
 C - Moderately sloping
 D - Strongly sloping
 E - Steep
 F - Very steep

1 - Slight erosion
 2 - Moderate erosion
 3 - Severe erosion
 4 - Very severe erosion

THE PRESENT USE OF THE LAND ON YOUR FARM IS INDICATED BY THE FOLLOWING LETTERS:

L - Cultivated land.

P - Pasture land.

P - Woodland.

X - Idle land.

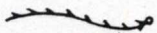
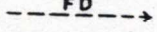
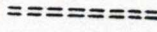
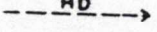
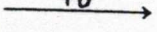
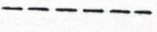
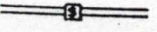
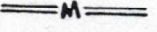
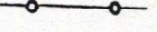
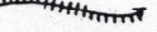
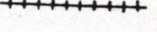
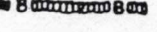
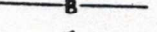
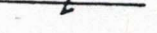
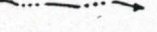
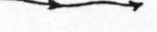
H - Homestead.

*DESCRIPTION OF THE SOILS FOUND ON YOUR FARM.

B0133

74. RED HOOK LOAM - Deep, poorly drained soil over sand and gravel. High water table limits root growth. Usually possible to drain.
207. PAPA KATING SILTY CLAY LOAM - Deep soil found along streams; poorly drained and frequently flooded. Moderate natural fertility but poor drainage limits the root zone.
277. HOWARD GRAVELLY SILT LOAM - Deep well drained gravelly soil over sand and gravel with lime at six feet. High natural fertility.
278. PHELPS GRAVELLY SILT LOAM - Deep, moderately well drained gravelly soil over sand and gravel with lime at six feet; high natural fertility.

LEGEND FOR CONSERVATION PLAN MAP

	Terrace		Public highway - Hard surface
	Diversion terrace		Public highways - Dirt
	Open field drain		Private roads
	Header ditch		House
	Tax ditch		Farm buildings
	Covered drain		Watershed boundary
	Structure (temporary or permanent)		Farm boundary
	Channel clearing		Crop boundary (no fence)
	Constructed outlets - paved		Present permanent fence
	Constructed outlets - vegetative		New fence to be built
	Wind breaks		Fence row to be removed
	Streambank protection (Hatching indicates streamside requiring protection)		Railroad
	Hedges		Marsh or swamp
	Wildlife borders		Farm pond
	Connected areas		Field number
	Intermittent streams		Field acreage
	Streams		Spring

B0134

PLAN OF CONSERVATION OPERATIONS

Field No.	Amount Unit	Year	Cooperator Decisions
2,5	14	1962 1964	HAYLAND
			<u>Hayland Planting</u> Line and fertilize according to soil test. Seed mixture per acre: 6 lb. Birdsfoot trefoil 4 lb. Timothy When preparing the seed bed, plow down 500 lbs. of 0-20-20 per acre. At time of seeding use 300 lbs. of 5-10-10 per acre. Apply after first or succeeding harvest or grazing 400 lbs. of 0-15-30 fertilizer per acre.
2,3,4,5, 6,9,10, 11,12	65	1962	<u>Hayland Management</u> Continue using present management. Apply after first or succeeding harvest or grazing 400 lbs. of 0-15-30 per acre. When necessary to reseed plant to a rotation of corn, small grain
7	2	1963	PASTURE <u>Land Clearing</u> Remove trees and brush.
7	5	1963	<u>Pasture Renovation</u> Disc to kill existing vegetation. Line and fertilize according to soil test. Seed mixture per acre: 6 lb. Birdsfoot trefoil 4 lb. Timothy
7	5	1968	Liming - Check lime requirement every 5 years and lime according to test.

U. S. Department of Agriculture
Soil Conservation Service
Harrisburg, Pennsylvania

B0135

CONSERVATION PLAN MAP

Prepared by U. S. Department of Agriculture, Soil Conservation Service, cooperating with

Owner **Robert** T. Brace Address RD#4 Waterford, Pa. Erie Soil Conservation District
 Operator same Address Phone SW 4-5491
 Township Waterford County Erie State Pa. Phone
 Photo No. 3 G-137 Acres 134 Planner LV. Johnson Plan No. 1406
 Date Prepared 12/19/61

Scale: 1" = 660', App.



PLAN OF CONSERVATION OPERATIONS

Field No.	Amount Unit	Year	Cooperator Decisions
7	Acres 5	1963	PASTURE Continued Fertilizing - Top dress annually with 400 lbs. of 0-15-30 per acre. <u>Pasture Mowing</u> Clip at least twice annually - mid-May and August, to remove rank growth and keep down weeds.
1,13	24	1962	WILDLIFE <u>Wildlife Area</u> Leave field # 1 as is in field # 13. There is a possibility of constructing a dike and providing a pond or area for wild ducks. Consult the Pennsylvania Game Commission for more information.
2,5	L.Feet 900	1962	STRUCTURAL <u>Field Drains</u> Construct open drain where shown on conservation plan map. Lime according to soil test. Apply 1000 lbs. of 0-20-20 per acre and work into soil before seeding. Apply 600 lbs. of 10-10-10 and 10 tons of manure per acre, and work into soil before seeding. Seed mixture per acre: 25 lb. Reed Canary grass 5 lb. Red top 7 lb. Birdsfoot trefoil Check lime requirements every 5 years. Top dress annually with 400 lbs. of 10-10-10.
3,5,9	4270	1962 1964	<u>Tile Drains</u> Install tile drain where indicated on conservation plan map. When necessary the U. S. Soil Conservation Service will be contacted for designs, plans, and other engineering assistance in establishing the planned conservation practices.

U. S. Department of Agriculture
Soil Conservation Service
Harrisburg, Pennsylvania

B0137

PA-4 (Revised)

2/19/60

FARM ORGANIZATION SUMMARY

GRAIN, HAY & SILAGE

Crop	Acres	Yield	Amount
Corn Silage	11.2	11 T	145.2 T
Sm. Grain	11.2	55 bu	726 bu
Grass silage	30	8.5 T	255
Alfalfa Hay (1st cutting)	12.8	3 T	38.4 T
Alfalfa Hay (2nd cutting)	42.8	1.5 T	64.2 T
Birdsfoot trefoil Hay	10.	2.5	25.0 T

PASTURE

Kind of Pasture	Acres	Yield-A.U. Ac.	Animal Units
Birdsfoot trefoil	5	.85	4.3

FEED REQUIREMENTS

Livestock	No.	Grain (Bu. C.E.)	Hay (tons)	Silage (tons)	Pasture (A.U.)
Dairy cows	36	1,260	155	463	
Dairy replacements	33	230	23	34.5	11.5
Ponies	9	135	10		4.5
Total Feed Requirements		1,625	188	497.5	16.
Total Feed Available		726	127.6	400.2	4.3
Difference (+ or -)		- 899	-60.4	-97.3	-11.7

Remarks: Pasture for young stock rented. Cows fed in lot, not put on pasture. Silage & hay requirements doubled. Extra land is rented.

U. S. Department of Agriculture
Soil Conservation Service
Harrisburg, Pennsylvania

B 0138

1406

CONSERVATION AGREEMENT

Between

Eve COUNTY SOIL CONSERVATION DISTRICT

and

Charles T. Brace

I am interested in conserving the soil of my farm. I, therefore, desire assistance in developing a basic conservation plan for my farm. I will cooperate with the Board of Directors of my soil conservation district in the development of such a plan, which I understand will be based on the capabilities of the land and the needs of my farm enterprise. I will also cooperate in bringing about the land use adjustments and the establishment of the conservation practices which I decide to develop in my conservation farm plan.

We the Directors of our soil conservation district will furnish assistance in helping to develop a farm conservation plan and in helping to establish the conservation measures called for in the plan in accordance with our resources and operating policies at the time the work is to be done.

The plan will remain in effect until terminated in writing by either party.

12/14/61
(Date)

Charles T. Brace
(Farmer)

Waterford
(Township)

RD #4 Waterford
(Address)

134
(Acres)

Eve County Soil Conservation District

1-25-62
(Date)

Harry E. Rye
(Director)
(Over)

B 0139