Extra



SOIL AND WATER CONSERVATION

PLAN

DWIGHT D. BISENHOWER

· · · Cooperator

ADAMS COUNTY

SOIL CONSERVATION DISTRICT

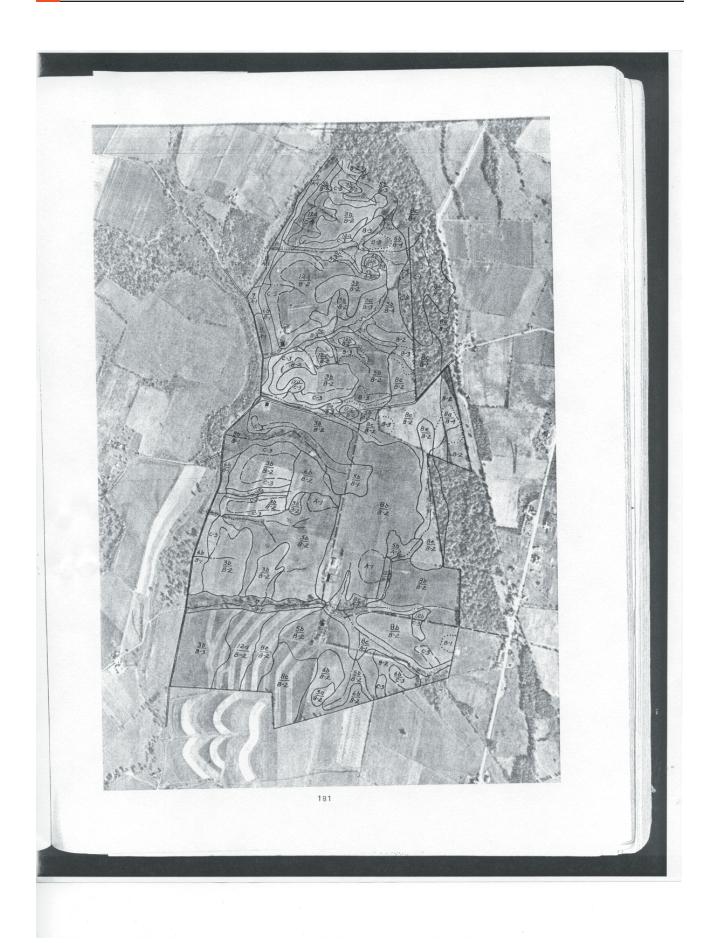
Assisted by

UNITED STATES DEPARTMENT OF AGRICULTURE

SOIL CONSERVATION SERVICE

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29628 Balle 93 8 5 7	COLTURE	PLICATION nit)	Photo No. ARC 1R-131	Group or Watershed	N	Date	1953 Plan revised	Agreement canceled	Case History Notes on Planning	Harte Jam		planned 2	Apreny 67.	450 gpm				
	UNITED STATES DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE	RECORD OF PLANNING AND APPLICATION (For Each Cooperating Farm or Ranch Unit)	Address RD#1, Gettysburg, Pa.	Work Unit Gettysburg	STATUS OF CONSERVATION PLAN		Basic plan prepared	Plan applied	Case History	recel 2 copies of plan & Bet	9-6	with Len Eisenhouse	Swierson tenace for	gation well dulled -				
	LIND	RECO	Ower			Date	-	1952		Delen	66	Med Wed	P	X				
	BCB-196 (Rev. 7-1-54)		Dwight D. Eisenhower	Name Adams	District		Occasionative agreement	Cooperative agreement		Date Teennician L March 61 R. S. Long	MSKary	Malle Matte		4/22/68 Mathe	/			

250 Grassland 166 166 166 167 168 17 17 17 17 18 19 19 19 19 19 19 19	LAND USE Wildlife 0 Other 12 Total 486 Woodland 18 Wildlife 1 Other 11 Total 486	ATION PRACTICES PLANNED AND AFFLIED Amounts Applied Each Year	19.53 19.68 19 19					360	25	20						650	046 45	029/			HITTHE GEFUZ : 1881—O-SOMME	
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	Before Planning: Acres; Cropland367.	LAND-USE A	Adjustments and Practices	Cropland to grassland	Grass and woods to cropland	Conser, Crop Systm	Crop Residue Use Strip Crop. System	Hayland Planting	16,17 Past, Renovati Pasture Planting	", Snpractuct		1 Tree Francish, 1, 10,11a,14 Woodland Imp.	WHIdlife	11 Wildlife area	onea meno	Obstruction Kem.	2 Grassed Materways	17 Drainage Imp.	TI TITE DIGITIO	Trie WELL		







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.

1.

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.

VELLOW II

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 HIUE 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.

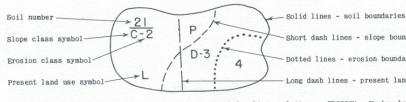
Land that, because of its severe natural limitations such as steepness, stoniness, wetness or erosion, is not suitable for cultivation, but can be best used for pasture or woodland with moderate use of conservation practices.

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

Land that is suitable in some cases for wildlife PURPLE production or recreational uses. It is not suit-VIII able 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



Short dash lines - slope boundaries within soil areas.

Dotted lines - erosion boundaries within slope areas

Long dash lines - present land use boundaries

SOIL - Number above line or first part of three part symbol.

L - Cultivated land.

*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

1 - Slight erosion

C - Moderately sloping

2 - Moderate erosion

D - Strongly sloping

3 - Severe erosion

E - Steep

P - Pasture land.

4 - Very severe erosion

F - Very steep

THE PRESENT USE OF THE LAND ON YOUR FARM IS INDICATED BY THE FOLLOWING LETTERS: X - Idle land.

H - Homestead.

*DESCRIPTION OF THE SOILS FOUND ON YOUR FARM.

F - Woodland.

3a - Legore channery silt loam: - 18 to 24 in depth (20 average), well drained. Occurs mainly on low ridges with fairly smooth tops and gentle to steeply sloping sides. Low in natural fertility and moderate water holding capacity. Good for general farm crops where stoniness not a problem; otherwise best suited for pasture or woodland.



3b - Perm silt loam: - Moderately deep to shallow (18 to 30*), well drained. Generally occurs on gentle slopes. Moderate in fertility and moderately low water holding capacity. Good for general farm crops. Moderate use of high analysis fertilizer pays.

5b - Readington silt loam (Imperfect drainage phase): - Moderately deep (12 to 15° to moderate claypan), somewhat poorly drained. Occurs on gentle to moderate slopes in natural drainageways and depressions. Acid in reaction with a moderately low water holding capacity. Limited in its use for general farm crops; hay and pasture being best. Use high nitrogen fertilizer. Side and topdress crops with nitrogen.

6b - Readington silt loam (Deep phase): - Deep (over 30*) moderately well drained, showing signs of impeded drainage 18 to 24*. Occurs on gentle to moderate slopes, and borders of natural drainageways. Moderate in natural fertility and water holding capacity. Good for general farm crops, but limited for alfalfa use. Liberal use of fertilizer pays. Top and side dress crops with nitrogen.

7 - Rowland silt loam: - Deep, ever 36", moderately well or somewhat poorly drained. Occurs along streams and subject to occasional floading. Areas are flat to almost level with gradual slope toward and in direction of stream flow. Fair in natural fertility and water holding capacity. Best suited for pasture. Moderate use of complete fertilizer pays.

8a - Iredell silt loam: - 18 to 30 in depth with drainage moderately good to somewhat poor. Occurs on gentle to moderate slopes in natural drainage ways or adjacent to small streams. Has a waxy feel, and is very sticky or plastic when wet. Low in fertility and water holding capacity. If drained by a system of shallow ditches it can be used for general crops, but hay or pasture are its more common uses.

LEGEND FOR REVISED LAND USE MAP

1	Terrace	-	Public highway - Hard surface
que	Diversion terrace		Public highways - Dirt
$FD \longrightarrow$	Open field drain	======	Private roads
HD>	Header ditch	-	House
\xrightarrow{TD}	Tax ditch		Farm. buildings
TTTTT	Covered drain		Watershed boundary
S	Structure (temporary or permanent)		Farm boundary
~	Channel clearing		Crop boundary (no fence)
5	Constructed outlets - paved	xx	Present permanent fence
M=	Constructed outlets - vegetative	_rr_	New fence to be built
-wBwB-	Wind breaks	-00-	Fence row to be removed
multithing.	Streambank protection (Hatching indicates		Railroad
on Bonning Bon	streamside requiring protection) Hedges	علاد علاد	Marsh or swamp
——в——	Wildlife borders		Farm pond
	Connected areas	5	Field number
~	Intermittent streams	5a	Field acreage
	Streams	O _k	Spring



8b - Lehigh cilt loss: 2h to 30m in depth with a compacted silt pan at 15 to 2hm. Somewhat poorly drained and fairly susceptible to erosion. Acid in reaction. Low in natural fertility and water holding capacity.

80 - Greton silt logas A soil over 2hs in depth but shallow for rooting with a clay pan or compacted byer near the surface. Drainage problem noticeable in first 8 inches. Drainage is poor and surface soil is gray in color. Fertility and water holding capacity is low. Best drained by bedding. Best use is for hay and pasture, and where drained is limited for crop use. High analysis fertiliser with top and side dressing of corn and wheat with nitrogen.

8e - Readington silt losm (shallow to bedrock phase): Shallow (8 to 12"), expessive to poorly drained redshale and sandstone origin. A definite drainage problem, due to problem in bed shale. Occurs on moderate to steep slopes. Locally too wet in winter and too dry in summer. Low in natural fertility and water holding capacity. Best used for hay or pasture. Shallowness and low water hiding capacity limits the amount of fertilizer that should be used.

ll - Boumansville wilt loss: Deep, over 36", poorly drained. Occurs along streems, and subject to frequent flooding. Area flat or nearly level with gradual slope toward and in direction of streem flow. Low in natural fertility and water holding capacity. Best suited for pasture. Liberal use of complete fertilizer pays.

12a - Penn shaly silt loss: Shallow to very shallow (12 to 15" to bed shale), wall drained. Occurs on gentle to steep slopes where it has a tendency to be droughty. Low in natural fertility. Acid in reaction and low water holding capacity. Suited to general farm crops on the gentler slopes with extensive conservation practices. Steeper slopes suited to hay, pasture or woody vegetation. Moderate use of high analysis fertilizer pays.

12b - Brecknock charmery silt loss: 8 to 15" in depth. Usually well drained. Signs of impeded drainage just above bedrock. Occurs on moderate to steep slopes. Is moderate in fertility and has a tendency to be droughty. On moderate slopes it is a fairly good soil for general farm crops when used in a rotation with 2 to 3 years of grasses out of 5.

PLAN OF CONSERVATION OPERATIONS

Field No.	Amount Unit	Year	Cooperator Decisions
2 6 7 11 12 18	19 ac. 21 18		CROPLAND Fields 2, 6, 7, 11, 12, and 18 - Use a rotation of Row erop, small grain, hey, hey - CR Row erop, small grain, hey, hey, hey
18	For her mixture of Alfalfa 2 lbs., L (Climax) or - 3 lb		For her mixture suggest Red Claver 6 lbs. (Permosett), Alfalfa 2 lbs., Ladino Claver 1/8 lb. with & lbs. Timethy (Climax) or - 3 lbs. Orehardgrass (Permlate). Encourage use of deep rooted legumes coupled with deep tillage to help egen up tight or compact subscil.
			For 2 or more years of hey - Line according to lime toot. Work in lime at seedbod proparation. Flor down or drill in deeply on prepared accepted - 500 lbs. 0-15-30 or 0-20-20. Band seed with 300 lbs. of 5-10-10. After first outling breadcast 200 to 300 lbs. 0-15-30 or 0-20-20. Repeat with 200 to 300 lbs. 0-15-30 or 0-20-20 first part of September. On alfalfa mixtures use borns on alternate years.
			GROP RESIDUE GIR
2 6 7	19 ac.		All erop residues should be incorporated into the seil preferably throughout the upper 6 inches so a tracky residue remains on top.
12 18	96 23 53		Hever burn a heavy growth of erop residues, such as grace, weeds, straw or sorn stalks that may present a problem to incorporate into the soil by disking or planing.
			Use a stalk outter or shrudder to chop this material fine enough so it is more readily handled. This operation will reduce the air poskets created in plewing under a heavy greath of organic matter.
			STATE CHONZERO CESTER
2 6 7 11 12 18	119 ac. 21 148 96 23 53		Contour strip erepping - Where soils have a drainage problem: For generally level land, use open ditches. For aloping land lay out both sides of the strip about 80 feet wide and have the finishing farrow along the edge on 0.5 to 1.0 per cent grade. Strive to have as many erep rows as possible on grade. Utilise tiled sed unterways to empty drainage. Sed waterways should average not ever 100 feet to

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

USDA-SCS-BELTSVILLE, MD. 1960



PLAN OF CONSERVATION OPERATIONS

Field No.	Amount Unit	Year	Cooperator Decisions
			600 feet apart. May be wise to place i inch drain tile
			under ned untervey in order to beep sed untervey erossible. Field strip erosping - Strips are laid out as near the level as practical (about 05 feet wide). Suggest a long rotation to help reduce sed! less.
			PASTRES SENCYATION
5 5a 8	18 ac. 7 ac. 21		Where stend is thin it is best to disk and respect. When respecting becomes necessary, use seeding mintures as suggested under Pasture Floating.
9 13 15 16	148 7 25 29		Use the following seed minters for Fields 3, 5, 5a, 8, 13, 17, 25 - Birdsfeet Trefeil 6 lbs. heavily ineculates, 2 lbs. Timothy, and 6 lbs. Kentucky Elmegraps.
37	11		For Fields 9, 16 - use Ladino Clover 1 lb., Red Clover 2 lbs. Orchardgrace, late heading variety, 3 lbs., and Timothy 4 lbs
	propared seedbed 500 lb propared seedbed 500 lb equivalent. Rand seed	Lime according to lime requirement test. Work in lime at seedbed preparetion. Flow down or drill in deeply on the prepared seedbed 500 lbs. per acre of 0-20-20 or 0-15-30 or equivalent. Band seed with 300 lbs. of 5-10-10. May use one bushel outs at seeding time to help reduce erosion basterd. Now cate for hay or silage.	
			To maintain, check line requirement every 5 years. Line as per test. Brondant annually 400 lbs. per acre of 0-15-30 or 0-20-20 or equivalent. This is best applied in two applications - 200 lbs. after the first harvest and 200 lbs. during late August or early September. For mixtures containing alfalfa use fortiliser carrying borax on alternate years.
			0-15-30 or high potash ratio fertilizers appears to pay off botter on these soils.
			HATLAND PLANTING
8			The wet areas should have the draining problem corrected before seeding to a paremnial hay mixture
7 11 12 18			For moderately deep, well drained or moderately well drained soils which may have the rooting some improved by deep roots

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USDA SCS BELTSVILLE NO 1960

PLAN OF CONSERVATION OPERATIONS

Field No.	Amount Unit	Year	Cooperator Decisions
			HAYLAND PLANTING - Continued
			crops, use seed mixture (incoulated and band seeded) - Alfalfa 10 lbs. (Vernal), Timothy 6-8 lbs., or 4 lbs. of Timothy (Climax), and 4 lbs. Orchardgrass (Pennlate). Good sed with alfalfa helps reduce winter loss through heaving. If winter heaving is not a problem, reduce poundage of grass.
			For soils with mixed drainage, use seed mixture (insculate and band seeded) - Birdsfoot Trafeil (Upright type) 6 lbs. heavily insculated and Orchardgrass (Pennlate) 3 lbs.
			For seeding lime according to lime requirement test. Work in lime at seedbed preparation. Plow down or drill in deeply on prepared seedbed 500 lbs. of 0-20-20 or 0-15-30. Band seed with 300 lbs. of 5-10-10.
			For maintenance: Check line requirement every 5 years. Line as needed. Broadcast amusally 400 lbs. per acre of 0-15-30 or 0-20-20 or equivalent. This is best applied in two applications - 200 lbs. after the first harvest and 20 lbs. during late August or early September. If applied as a single application - apply during late August or early September. For alfalfa mixtures - fartilizers containing borax should be used on alternate years.
			PASTURE PLANTING
3	7 40.		Remove trees, brush and other obstructions to facilitate seedbed preparation, treatment, and maintenance.
			For poorly drained soils use seed mixture (inoculated and bend seeded) - Birdsfoot trafoil 6 lbs., heavily inoculate finothy 2 lbs., and Kentucky Bluegrass 6 lbs
			For seeding, lime according to lime requirement test. Worlin lime at seedbed preparation. Plow down or drill in deeply on the prepared seedbed - 300 lbs. per acre of 0-20 or 0-15-30 or equivalent. Inoculate and band seed with 300 lbs. of 5-10-10.
			For maintenance, check lime requirement every 5 years. Lines needed. Proadcast annually 100 lbs. per acre of 0-15-30 or 0-20-20 or equivalent. This is best applied in two applications - 200 lbs. after the first harvest and 200 lbs.

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USDA-SCS-BELTSVILLE, MD. 1960



PLAN OF CONSERVATION OPERATIONS

Field No.	Amount Unit	Year	Cooperator Decisions
			PASTURE PLANTING - Continued during late August or early September. If applied in a
			single application - apply during late August or early September. For alfalfa mixtures - fertilisers containing borex should be used on alternate years.
			Seed the seed mixture with one bushal of cats in the spring, moved for silage or hay. If sye is sown in the fall and used as a murse crop, remove sye before heads are formed in the sheath. Removal of small grain, for hay or silage, permits seedings to thrive better.
			WOODTLA RID madata in order programming spins.
1	l ac.		Tree Flanting - On somewhat poorly drained to poorly drained sodie, plant white Pine, Austrian Pine, white Spruce, Hamloo and Talip Poplar in the following mixtures - white Spruce are White Pine; Pine and Red Pine; White Pine and Larch; Larch and Red Pine.
	S. Carrier		The spacing of trees will vary. For badly eroded areas spactrees closer together $(5^{\circ}x5^{\circ})$ to speed up erosion control. For Christmas trees $5^{\circ}x6^{\circ}$ with alternate bends of 8 tree rowsened planting $8^{\circ}x8^{\circ}$ recommended. Approximately 1,000 tree needed per acre.
			Trees suggested for underplanting - Norway Spruce, White Pickhite Spruce, and Hamlook.
1	7 ac.		Harvest Cutting - From time to time remove mature trees who needed to speed up growth of desirable species.
10 11a 11 ₄	14 ac. 2 3 2		Thinning - Remove trees of low or no commercial value from an immature woodland or from overstocked stands, or disease dying or wolf type species.
			WILDLIFE
1.7	1 No.		Fish Pond Treatment and Stocking - Average farm pond - low recharge of water. Recommend 100 large mouth base and 1000 blue gill or bream per sore of water surface, stocked about the same time. Ponds with good flow of spring water OR 10 15 feet deep may be stocked with other fish. Consult your district representatives.

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

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USDA-SCS BELTSVILLE NO 13

PA 2/

PA-3	(Revised))
2/14	160	

PLAN OF CONSERVATION OPERATIONS

Field No.	Amount Unit	Year	Cooperator Decisions
			WILDLIFE - Continued
17	1 Munber		Fish Pond Fertilising - Fertilise with 8-8-4 or equivalent two weeks before fish are stocked. Add fertiliser as needed at the rate of 100 lbs. per sore surface during normal pasture season.
			IMPORTANT: Maintain a green color to water to prevent growth of undesirable pend weeds and soum. When white plate or object disappears lis to 16" below surface due to green color of water, pond needs no fertilizer. Try to reduce need to fertilize during dry, hot spalls by treating during cold wet weather.
			For weeds and managing farm fish pends for base and blue gill see Farmers Bulletin No. 2094.
			WILDLIFE AREA TREATMENT
1 10 11a 14	1 ac.		Pond area planting - Low shrubs - Bayberry, Rugosa Rose, Gray Rogosod. All shrubs - Autumn Olive, Reselant or Filbert, Highbush Cramberry, Silky Dogwood, Tatarian or American Homeysuckle, Crambapple, Hatch Lespedesa.
			Plant several rows of low and tall shrubs around pond.
			wildlife Food Flanting - Flant odd corners and rock breaks in cropland to wildlife food and shelter.
			In areas not to be farmed nor planted to pulpwood, plant Christmas or timber trees and tall wildlife plants. Idle areas having a partial cover, plant wildlife shrubs as Coralberry, Bayberry, Haselmut or Hybrid Filbert, Silly Cornel, tatarian or American Honeysuckle, Highbush Cramberry Shrub Lespedesa, Autumn Olive and Crabapple.
			OBSTRUCTION RENOVAL
3	1 ac		Ramove trees, brush, stones and other obstructions to facilitate establishment of strip cropping, diversion terra sod waterways, and seedbed preparation for pasture or long term grass.

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



PLAN OF CONSERVATION OPERATIONS

Field No.	Amount Unit	Year	Cooperator Decisions
	L.F.		STRUCTURAL
37.5	1400 550 600		Diversion Terraces - Construct diversion terraces and cut- lets according to map, sketch, or design and channel grade as furnished by the district and concurred with by the landcomer.
			Check soil for lims requirement. Seed to the following seed mixture:
			Reed Camerygrass 8 lbs., Timothy 4 lbs., Alsike Clover 2 lbs and Ladino Clover 1 lb
			Pasture - Seed to - Timothy & lbs., Birdsfoot Trefoll 6 lbs.
			If seeded in the spring, use one bushel of cats as a company or op moved for hay. Band seed mixture and inoculate legumes
			Work into seedbed, required lime. Flow down or drill in deeply on the prepared seedbed - 1000 lbs. of 0-20-0 or equivalent. At seeding time, work into the surface 1000 lbs per sore of 5-10-10 or equivalent, or 500 lbs. of 5-10-10 per sore or equivalent plus 10 tons of phosphated manure per sore.
			Suggest mulch charmel and lower half of back slope next to charmel with one - two tons of straw per acre rate. If seeded alone in the first part of August, mulch as above.
			For maintenance, satisfy lime requirement every 3 to h years Broadcast annually in first part of September - 500 lbs. of 0-20-20 or 0-15-30 or equivalent per acre. If split application 200 lbs. to 250 lbs. after first cutting, and 200 to 250 lbs. last of August or first part of September. For alfalfa use borax - 80 lbs. per ton on alternate years.
2 7 11 12	11,00 L. 1700 1200 1300	•	Crassed Materways - Leave areas in sed as indicated on plan map. Strive for a cross section of 12 inches in depth and about 20 feet wide. Maintain by raising equipment during tillage operations. Where width of sed waterway would be excessive in order to get one foot of depth, you may wish to construct a waterway.
			Construct sod waterway channel according to design furnished by the district, as indicated on the plan map.

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

PLAN OF CONSERVATION OPERATIONS

Field No.	Amount Unit	Year	Cooperator Decisions
			Divert water from area where new constructed waterway is planned, by use of temporary diversion terraces. For seeding use one of the following seed mixtures inoculated and band precede:
			For well drained or mixed drainage use - Kantucky Fluegre 25 lbs., Redtop 10 lbs., and Birdsfoot Trefoil 7 lbs., Coreeping Red Fescus to lbs., Redtop 10 lbs., Eirdsfoot Trefoil 7 lbs.
			If seeded in the spring, use one bushel of cats as a companion crop maked for hay. Band seed mixture and inocullegumes.
			Work into seedbed required lime. Plow down or drill in deeply on the prepared seedbed 1,000 lbs. 0=20=0 or equilent. At seeding time, work into the surface 1,000 lbs. 5=10=10 per sore or equivalent, or 500 lbs. 5=10=10 per sore or equivalent, plus 10 tons phosphated marker per a
			Suggest mulch charmel and side slopes next to charmel witten to four tons of straw or old hay per acre rate. If seeded alone in the first part of August, mulch as above where possible use some method of twing down, especially on steeper slopes.
			For maintenance, satisfy lime requirement every h years. Proadcast early in the spring hoo lbs. per acre of 10-10 or equivalent. If fertilized in August, use 500 lbs. 5-10-10 or equivalent.
			FARM DRAINAGE
2 3 5 5 6 7 11 17	20 ac 2 3 5 8		These fields will have the necessary drainage practices installed as it halps to reduce trampling action by cat and improves travel conditions for farm equipment.

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

USDA SES RELTSVILLE MD 1980



PLAN OF CONSERVATION OPERATIONS

Field No.	Amount Unit	Year	Cooperator Decisions
2 5 5	L.F. 5100 4° 175 4° 700 4°		FARM DRAINAGE-continued Tile Drains - Install tile according to the plan and survey prepared by the technician and former and as indicated on the plan map. Head over sheet on "Hints on Tile Drainage."
6	950 4°		Note - In Field 11, 1300 feet slightly northwest of main barn on original tract, area could be subsoiled to lower
7 11 17	950 4° 2700 4° 550 4°		water table and reduce winter heaving of crops.
			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

USDA SCS BELTSVILLE MD 1940

FAF		IZATION SU			
Crop		HAY & SILA	AGE Yield	1 /	Amount
Crop		ACTES	11010		
	P	PASTURE			
Kind of Pasture	-	Acres	Yield-A.U	. Ac. Ani	mal Units
	TS Hay	Silage	Pasture		
Livestock	No.	Grain (Bu. C.E.	(tons)	(tons)	(A.U.)
		<u> </u>			-
Total Feed Requirements					
Total Feed Available	Total Feed Available				
Difference (+ or -)		DISABONES AND			
Remarks: Livesteck is beef catt		1		etment of aservation arg. Penn	Service



PA-4 (Reverse)

SUGGESTED GUIDE TO CALCULATE FEED REQUIREMENTS (Average Requirements)

		Feed Requirement per Animal Unit			
Kind of Livestock	Animal Unit	Hay (Tons)	Silage (Tons)	Grain C.E. (Bu.)	
Horse or Mules	1 Horse 2 Colts	21/4		30	
Dairy Cows	1 Cow	2-3	5-7	25-40	
Young Dairy	2 Replace- ments	1 1 2-3	2-3	10-25	
Beef Feeding	1 Steer 12 Mo.; base on No of mos.fed		2-3	25-40	
Sheep	7 Sheep	1-2		5-15	
Hogs	1400 lbs.			85	
Poultry	100 Hens			120-140	

	The second second second second	CONTRACTOR OF THE PROPERTY.			
Pasture Yields (Rotation Grazing)*					
Type of Pasture	**Animal Units Per Acre				
	Ave.	Good			
Perm. Pasture	.64	.92			
Ladino & Grass	1.16	1.70			
Birdsfoot Trefoil	.74	.98			
Alfalfa Grass Clover Mix	.88	1.20			
Hay Aftermath	.30	.44			
Sudangrass	.80	1.18			
Rye	.72	.98			

USOA-SCS-BELTSVILLE. XP

CONVERSIONS

Corn (shelled) = 2 bushels oats - 1 bu. wheat - 1 bu. barley
Three tons of grass or corn silage = 1 ton hay
*Decrease productivity by 1/3 for continuous grazing
Increase productivity by 1/3 for ration grazing
**Based on 5 months (May through September except aftermath which
includes October and Rye which includes April and October.)

Silo Capacity (Tons)

Silage		Silo Diamet			
in feet (Depth)	10 Feet	12 Feet	14 Feet	16 Feet	18 Feet
20	26	38	51	68	86
25	37	52	71	93	117
30	47	68	92	120	153
35	59	85	115	151	190
40	71	102	1/10	183	232
45	83	119	163	216	274
50	95	139	189	251	323