
HAY LAND

SOIL EROSION

Sheet and Rill

330	Contour Farming
362	Diversion
512	Pasture and Hayland Planting
329	Residue and Tillage Management, No Till/Strip Till/Direct Seed
345	Residue Management, Mulch Till
600	Terrace
606	Subsurface Drainage
620	Underground Outlet

Wind

329	Residue Management, No Till/Strip Till/Direct Seed
345	Residue Management, Mulch Till
512	Pasture and Hayland Planting

Ephemeral Gully

362	Diversion
412	Grassed Waterway
620	Underground Outlet
630	Vertical Drain
638	Water and Sediment Control Basin

Classic Gully

362	Diversion
410	Grade Stabilization Structure
412	Grassed Waterway
468	Lined Waterway or Outlet
600	Terrace
620	Underground Outlet
630	Vertical Drain
638	Water and Sediment Control Basin

Streambank

322	Channel Bank Vegetation
326	Clearing and Snagging
342	Critical Area Planting
582	Open Channel
472	Access Control
580	Streambank and Shoreline Protection

Shoreline

342	Critical Area Planting
410	Grade Stabilization Structure
561	Heavy Use Area Protection
453	Land Reclamation, Landslide Treatment
500	Obstruction Removal
612	Tree/Shrub Establishment
490	Tree/Shrub Site Preparation

Irrigation Induced

441	Irrigation System – Microirrigation
442	Irrigation System – Sprinkler Area
443	Irrigation System – Surface and Subsurface Area
449	Irrigation Water Management

Mass Movement

342	Critical Area Planting
362	Diversion
453	Land Reclamation, Landslide Treatment
468	Lined Waterway or Outlet
606	Subsurface Drain
620	Underground Outlet
630	Vertical Drain

Road, Roadsides, and Construction Sites

342	Critical Area Planting
362	Diversion
453	Land Reclamation, Landslide Treatment
468	Lined Waterway or Outlet
606	Subsurface Drain
620	Underground Outlet
630	Vertical Drain

HAY LAND

SOIL CONDITION

Organic Matter Depletion

- 329 Residue Management, No Till/Strip Till/Direct Seed
 - 330 Contour Farming
 - 345 Residue Management, Mulch Till
 - 590 Nutrient Management
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Compaction

- 329 Residue Management, No Till/Strip Till/Direct Seed
 - 345 Residue Management, Mulch Till
 - 554 Drainage Water Management
 - 560 Access Road
 - 606 Subsurface Drain
 - 607 Surface Drainage, Field Ditch
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Subsidence

- 443 Irrigation System - Surface and Subsurface
 - 449 Irrigation Water Management
 - 554 Drainage Water Management
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Contaminants – Salts and Other Chemicals

- 590 Nutrient Management
 - 633 Waste Utilization
-

Contaminants – Animal Waste and Other Organics - N

- 391 Riparian Forest Buffer
 - 393 Filter Strip
 - 590 Nutrient Management
 - 592 Feed Management
 - 633 Waste Utilization
-

Contaminants – Animal Waste and Other Organics - P

- 391 Riparian Forest Buffer
 - 393 Filter Strip
 - 490 Tree/Shrub Site Preparation
 - 590 Nutrient Management
 - 592 Feed Management
 - 612 Tree/Shrub Establishment
 - 633 Waste Utilization
-

Contaminants – Animal Waste and Other Organics - K

- 391 Riparian Forest Buffer
 - 393 Filter Strip
 - 490 Tree/Shrub Site Preparation
 - 590 Nutrient Management
 - 592 Feed Management
 - 612 Tree/Shrub Establishment
-

Contaminants – Commercial Fertilizer - N

- 391 Riparian Forest Buffer
 - 393 Filter Strip
 - 490 Tree/Shrub Site Preparation
 - 590 Nutrient Management
 - 612 Tree/Shrub Establishment
-

Contaminants – Commercial Fertilizer - P

- 391 Riparian Forest Buffer
 - 393 Filter Strip
 - 490 Tree/Shrub Site Preparation
 - 590 Nutrient Management
 - 612 Tree/Shrub Establishment
-

Contaminants – Commercial Fertilizer - K

- 391 Riparian Forest Buffer
 - 393 Filter Strip
 - 490 Tree/Shrub Site Preparation
 - 590 Nutrient Management
 - 612 Tree/Shrub Establishment
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Contaminants – Residual Pesticides

- 512 Pasture and Hayland Planting
 - 595 Pest Management
-

Damage from Sediment Deposition

- 362 Diversion
 - 391 Riparian Forest Buffer
 - 393 Filter Strip
 - 412 Grassed Waterway
 - 468 Lined Waterway or Outlet
 - 490 Tree/Shrub Site Preparation
 - 612 Tree/Shrub Establishment
 - 638 Water and Sediment Control Basin
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HAY LAND

WATER QUANTITY

Excessive Seepage

- 362 Diversion
 - 554 Drainage Water Management
 - 606 Subsurface Drain
 - 620 Underground Outlet
 - 638 Water and Sediment Control Basin
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Excessive Runoff, Flooding, or Ponding

- 362 Diversion
 - 412 Grassed Waterway
 - 468 Lined Waterway or Outlet
 - 482 Mole Drain
 - 554 Drainage Water Management
 - 582 Open Channel
 - 600 Terrace
 - 620 Underground Outlet
 - 630 Vertical Drain
 - 638 Water and Sediment Control Basin
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Excessive Subsurface Water

- 362 Diversion
 - 412 Grassed Waterway
 - 468 Lined Waterway or Outlet
 - 482 Mole Drain
 - 554 Drainage Water Management
 - 606 Subsurface Drain
 - 607 Surface Drainage, Field Ditch
 - 608 Surface Drainage, Main or Lateral
 - 620 Underground Outlet
 - 630 Vertical Drain
-

Drifted Snow

- 422 Hedgerow Planting
 - 329 Residue Management, No Till/Strip Till
 - 490 Tree/Shrub Site Preparation
 - 612 Tree/Shrub Establishment
 - 380 Windbreak/Shelterbelt Establishment
 - 650 Windbreak/Shelterbelt Renovation
-

Inadequate Outlets

- 326 Clearing and Snagging
 - 412 Grassed Waterway
 - 468 Lined Waterway or Outlet
 - 582 Open Channel
 - 608 Surface Drainage, Main or Lateral
 - 620 Underground Outlet
 - 630 Vertical Drain
-

Inefficient Water Use on Irrigated Land

- 441 Irrigation System – Microirrigation
 - 442 Irrigation System – Sprinkler Area
 - 443 Irrigation System – Surface and Subsurface Area
 - 449 Irrigation Water Management
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Inefficient Water Use on Non-Irrigated Land

Not an applicable natural resource concern in New York State

Reduced Capacity of Conveyances by Sediment Deposition

- 329 Residue and Tillage Management, No Till/Strip Till/Direct Seed
 - 345 Residue Management, Mulch Till
 - 362 Diversion
 - 390 Riparian Herbaceous Cover
 - 412 Grassed Waterway
 - 512 Pasture and Hayland Planting
 - 554 Drainage Water Management
 - 600 Terrace
 - 620 Underground Outlet
 - 630 Vertical Drain
 - 638 Water and Sediment Control Basin
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(Hay Land – Water Quantity continued next page)

HAY LAND

Reduced Storage of Water Bodies by Sediment Accumulation

- 329 Residue and Tillage Management,
No Till/Strip Till/Direct Seed
 - 345 Residue Management, Mulch Till
 - 362 Diversion
 - 390 Riparian Herbaceous Cover
 - 412 Grassed Waterway
 - 512 Pasture and Hayland Planting
 - 554 Drainage Water Management
 - 600 Terrace
 - 620 Underground Outlet
 - 630 Vertical Drain
 - 638 Water and Sediment Control Basin
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Aquifer Overdraft

Not an applicable natural resource concern on hayland in New York State

Insufficient Flows in Water Courses

Practices recommended will increase ground water flow emergence to surface water flow in lower portions of a watershed

- 329 Residue and Tillage Management,
No Till/Strip Till/Direct Seed
 - 345 Residue and Tillage Management,
Mulch Till
 - 362 Diversion
 - 554 Drainage Water Management
 - 600 Terrace
 - 638 Water and Sediment Control Basin
-

HAY LAND

WATER QUALITY - GROUNDWATER

Harmful Levels of Pesticides

- 393 Filter Strip
 - 595 Pest Management
 - 391 Riparian Forest Buffer
 - 390 Riparian Herbaceous Cover
 - 612 Tree/Shrub Establishment
 - 490 Tree/Shrub Site Preparation
-

Excessive Nutrients and Organics

- 592 Feed Management
 - 393 Filter Strip
 - 590 Nutrient Management
 - 391 Riparian Forest Buffer
 - 390 Riparian Herbaceous Cover
 - 612 Tree/Shrub Establishment
 - 490 Tree/Shrub Site Preparation
 - 633 Waste Utilization
-

Excessive Salinity

Not an applicable natural resource concern on hayland in New York State

Harmful Levels of Heavy Metals

- 560 Access Road
 - 309 Agrichemical Mixing Facility
 - 591 Amendments for Treatment of Agricultural Waste
 - 592 Feed Management
 - 393 Filter Strip
 - 353 Monitoring Well
 - 590 Nutrient Management
 - 595 Pest Management
 - 391 Riparian Forest Buffer
 - 390 Riparian Herbaceous Cover
 - 612 Tree/Shrub Establishment
 - 490 Tree/Shrub Site Preparation
 - 629 Waste Treatment
 - 633 Waste Utilization
 - 635 Vegetated Treatment Area
 - 355 Well Water Testing
-

Harmful Levels of Pathogens

- 393 Filter Strip
 - 783 Pathogen Management
 - 633 Waste Utilization
-

Harmful Levels of Petroleum

This resource concern is not addressed by NRCS in New York State.

HAY LAND

WATER QUALITY – SURFACE WATER

Harmful Levels of Pesticides

362	Diversion
390	Riparian Herbaceous Cover
391	Riparian Forest Buffer
393	Filter Strip
412	Grassed Waterway
490	Tree/Shrub Site Preparation
595	Pest Management
612	Tree/Shrub Establishment

Excessive Nutrients and Organics

362	Diversion
382	Fence
390	Riparian Herbaceous Cover
391	Riparian Forest Buffer
393	Filter Strip
412	Grassed Waterway
472	Access Control
490	Tree/Shrub Site Preparation
590	Nutrient Management
592	Feed Management
612	Tree/Shrub Establishment
633	Waste Utilization

Excessive Suspended Sediment and Turbidity

329	Residue Management, No Till/Strip Till/Direct Seed
330	Contour Farming
345	Residue Management, Mulch Till
362	Diversion
386	Field Border
390	Riparian Herbaceous Cover
391	Riparian Forest Buffer
393	Filter Strip
412	Grassed Waterway
590	Nutrient Management
595	Pest Management
600	Terrace

Excessive Salinity

Not an applicable natural resource concern on hayland in New York State

Harmful Levels of Heavy Metals

309	Agrichemical Mixing Facility
393	Filter Strip
560	Access Road
590	Nutrient Management
591	Amendments for Treatment of Agricultural Waste
595	Pest Management
629	Waste Treatment
633	Waste Utilization
635	Vegetated Treatment Area
657	Wetland Restoration
658	Wetland Creation
659	Wetland Enhancement

Harmful Temperatures of Surface Water

391	Riparian Forest Buffer
472	Access Control
612	Tree/Shrub Establishment
657	Wetland Restoration
658	Wetland Creation
659	Wetland Enhancement

Harmful Levels of Pathogens

330	Contour Farming
362	Diversion
382	Fence
393	Filter Strip
600	Terrace
633	Waste Utilization
657	Wetland Restoration
472	Access Control
633	Waste Utilization

Harmful Levels of Petroleum

This resource concern is not addressed by NRCS in New York State.

HAY LAND

AIR

Particulate Matter Less than 10 Microns in Diameter (PM 10)

329	Residue Management, No Till/Strip Till/Direct Seed
345	Residue Management, Mulch Till
370	Atmospheric Resources Quality Management
380	Windbreak\Shelterbelt Establishment
422	Hedgerow Planting
603	Herbaceous Wind Barriers
650	Windbreak\Shelterbelt Renovation

Particulate Matter Less than 2.5 Microns in Diameter (PM 2.5)

Excessive Ozone

329	Residue Management, No Till/Strip Till/Direct Seed
345	Residue Management, Mulch Till
370	Atmospheric Resources Quality Management

Excessive Greenhouse Gases CO₂ (carbon dioxide)

329	Residue Management, No Till/Strip Till/Direct Seed
345	Residue Management, Mulch Till
370	Atmospheric Resources Quality Management

Excessive Greenhouse Gas N₂O (nitrous oxide)

313	Waste Storage Facility
370	Atmospheric Resources Quality Management
590	Nutrient Management
633	Waste Management

Excessive Greenhouse Gas CH₄ (methane)

313	Waste Storage Facility
370	Atmospheric Resources Quality Management
590	Nutrient Management
595	Pest Management
633	Waste Management

Excessive Greenhouse Gas NH₃ (ammonia)

313	Waste Storage Facility
370	Atmospheric Resources Quality Management
590	Nutrient Management
595	Pest Management
633	Waste Management

Chemical Drift

370	Atmospheric Resources Quality Management
380	Windbreak\Shelterbelt Establishment
390	Riparian Herbaceous Cover
422	Hedgerow Planting
449	Irrigation Water Management
595	Pest Management
603	Herbaceous Wind Barriers
650	Windbreak\Shelterbelt Renovation

Objectionable Odors

312	Waste Management System
370	Atmospheric Resources Quality Management
380	Windbreak\Shelterbelt Establishment
380	Windbreak\Shelterbelt Establishment
590	Nutrient Management
592	Feed Management
595	Pest Management
650	Windbreak\Shelterbelt Renovation

(Hay Land – Air continued next page)

HAY LAND

Reduced Visibility

- 329 Residue Management,
No Till/Strip Till/Direct Seed
 - 345 Residue Management, Mulch Till
 - 370 Atmospheric Resources Quality
Management
 - 380 Windbreak\Shelterbelt Establishment
 - 386 Field Border
 - 422 Hedgerow Planting
 - 484 Mulching
 - 490 Tree/Shrub Site Preparation
 - 603 Herbaceous Wind Barriers
 - 612 Tree/Shrub Establishment
 - 650 Windbreak\Shelterbelt Renovation
-

Undesirable Air Movement

- 370 Atmospheric Resources Quality
Management
 - 380 Windbreak\Shelterbelt Establishment
 - 380 Windbreak\Shelterbelt Establishment
 - 386 Field Border
 - 422 Hedgerow Planting
 - 490 Tree/Shrub Site Preparation
 - 612 Tree/Shrub Establishment
 - 650 Windbreak\Shelterbelt Renovation
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Adverse Air Temperature

- 370 Atmospheric Resources Quality
Management
 - 380 Windbreak\Shelterbelt Establishment
 - 380 Windbreak\Shelterbelt Establishment
 - 386 Field Border
 - 422 Hedgerow Planting
 - 490 Tree/Shrub Site Preparation
 - 612 Tree/Shrub Establishment
 - 650 Windbreak\Shelterbelt Renovation
 - 666 Forest Stand Improvement
-

HAY LAND

PLANTS

Plants Not Adapted or Suited

- 338 Prescribed Burning
 - 511 Forage Harvest Management
 - 512 Pasture and Hayland Planting
 - 528 Prescribed Grazing
 - 606 Subsurface Drain
 - 607 Surface Drainage, Field Ditch
 - 608 Surface Drainage, Main or Lateral
-

Productivity, Health and Vigor

- 329 Residue Management, No Till/Strip Till/Direct Seed
 - 338 Prescribed Burning
 - 345 Residue Management, Mulch Till
 - 511 Forage Harvest Management
 - 512 Pasture and Hayland Planting
 - 528 Prescribed Grazing
 - 590 Nutrient Management
 - 606 Subsurface Drain
 - 607 Surface Drainage, Field Ditch
 - 633 Waste Utilization
-

Threatened or Endangered Plant Species: Plant Species Listed or Proposed for Listing under the Endangered Species Act

- 382 Fence
 - 472 Access Control
-

Threatened or Endangered Plant Species: Declining Species and Species of Concern

- 382 Fence
 - 472 Access Control
-

Noxious and Invasive Plants

- 338 Prescribed Burning
 - 595 Pest Management
-

Forage Quality and Palatability

- 329 Residue Management, No Till/Strip Till/Direct Seed
 - 345 Residue Management, Mulch Till
 - 511 Forage Harvest Management
 - 512 Pasture and Hayland Planting
 - 528 Prescribed Grazing
 - 590 Nutrient Management
 - 595 Pest Management
-

Wildfire Hazard

Not an applicable natural resource concern on hayland in New York State

HAY LAND

ANIMALS – FISH AND WILDLIFE

Inadequate Food

- 386 Field Border
 - 390 Riparian Herbaceous Cover
 - 422 Hedgerow Planting
 - 528 Prescribed Grazing
 - 645 Upland Wildlife Habitat Management
-

Inadequate Cover/Shelter

- 382 Fence
 - 390 Riparian Herbaceous Cover
 - 472 Access Control
 - 645 Upland Wildlife Habitat Management
-

Inadequate Water

- 574 Spring Development
 - 614 Watering Facility
 - 645 Upland Wildlife Habitat Management
 - 657 Wetland Restoration
-
- 658 Wetland Creation
 - 659 Wetland Enhancement

Inadequate Space

- 382 Fence
 - 386 Field Border
 - 390 Riparian Herbaceous Cover
 - 644 Wetland Wildlife Habitat Management
 - 645 Upland Wildlife Habitat Management
-

Habitat Fragmentation

- 327 Conservation Cover
 - 380 Windbreak/Shelterbelt Establishment
 - 382 Fence
 - 390 Riparian Herbaceous Cover
 - 472 Access Control
 - 490 Tree/Shrub Site Preparation
 - 612 Tree/Shrub Establishment
 - 645 Upland Wildlife Habitat Management
 - 650 Windbreak/Shelterbelt Renovation
-

Imbalance Among and Within Populations

- 382 Fence
 - 390 Riparian Herbaceous Cover
 - 472 Access Control
 - 645 Upland Wildlife Habitat Management
-

Threatened and Endangered Species: Fish and Wildlife Species Listed or Proposed for Listing under the Endangered Species Act

- 382 Fence
 - 390 Riparian Herbaceous Cover
 - 472 Access Control
 - 645 Upland Wildlife Habitat Management
-

Threatened and Endangered Species: Declining Species, Species of Concern

- 382 Fence
 - 390 Riparian Herbaceous Cover
 - 472 Access Control
 - 645 Upland Wildlife Habitat Management
-

HAY LAND

ANIMALS – DOMESTIC

Inadequate Quantities and Quality of Feed and Forage

- 592 Feed Management
 - 511 Forage Harvest Management
 - 512 Pasture and Hayland Planting
 - 329 Residue Management,
No Till/Strip Till/Direct Seed
 - 345 Residue Management, Mulch Till
-

Inadequate Shelter

If hayland is used as pasture after first, second, or last harvest

- 560 Access Road
 - 575 Animal Trails and Walkways
 - 382 Fence
 - 561 Heavy Use Area Protection
 - 570 Runoff Management System
 - 472 Access Control
 - 380 Windbreak\Shelterbelt Establishment
 - 380 Windbreak\Shelterbelt Establishment
 - 650 Windbreak\Shelterbelt Renovation
-

Inadequate Stock Water

If hay land is used as pasture after first, second, or last harvest

- 575 Animal Trails and Walkways
 - 382 Fence
 - 561 Heavy Use Area Protection
 - 516 Pipeline
 - 378 Pond
 - 528 Prescribed Grazing
 - 574 Spring Development
 - 578 Stream Crossing
 - 472 Access Control
 - 642 Water Well
 - 614 Watering Facility
-

Stress and Mortality

If hay land is used as pasture after first, second, or last harvest

- 560 Access Road
 - 575 Animal Trails and Walkways
 - 592 Feed Management
 - 382 Fence
 - 561 Heavy Use Area Protection
 - 570 Runoff Management System
 - 472 Access Control
 - 516 Pipeline
 - 378 Pond
 - 528 Prescribed Grazing
 - 574 Spring Development
 - 578 Stream Crossing
 - 642 Water Well
 - 614 Watering Facility
 - 380 Windbreak\Shelterbelt Establishment
 - 650 Windbreak\Shelterbelt Renovation
-