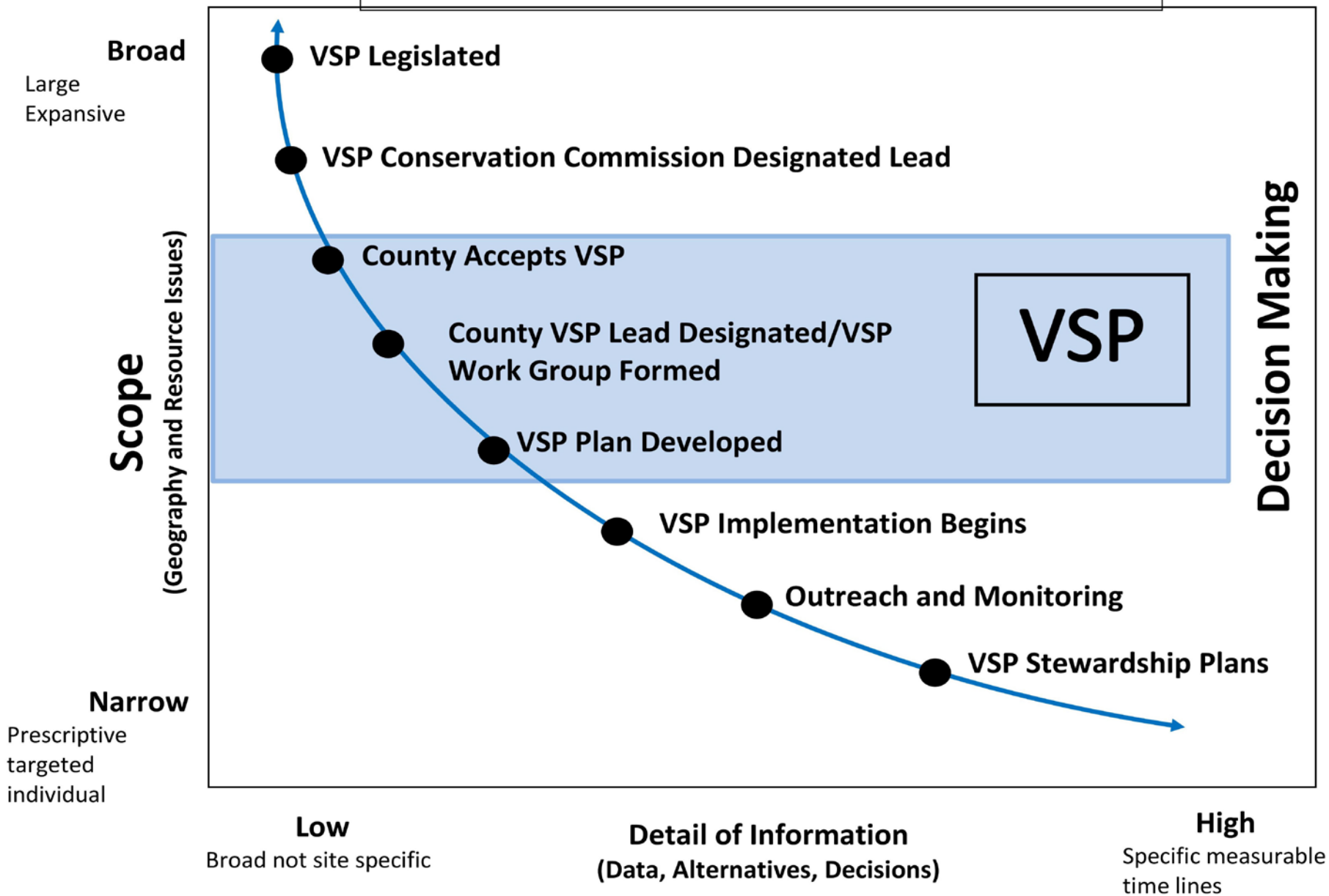
# GRANT COUNTY VOLUNTARY STEWARDSHIP PROGRAM

**HAROLD CROSE**
VSP Coordinator

# VSP PLANNING CONTINUUM

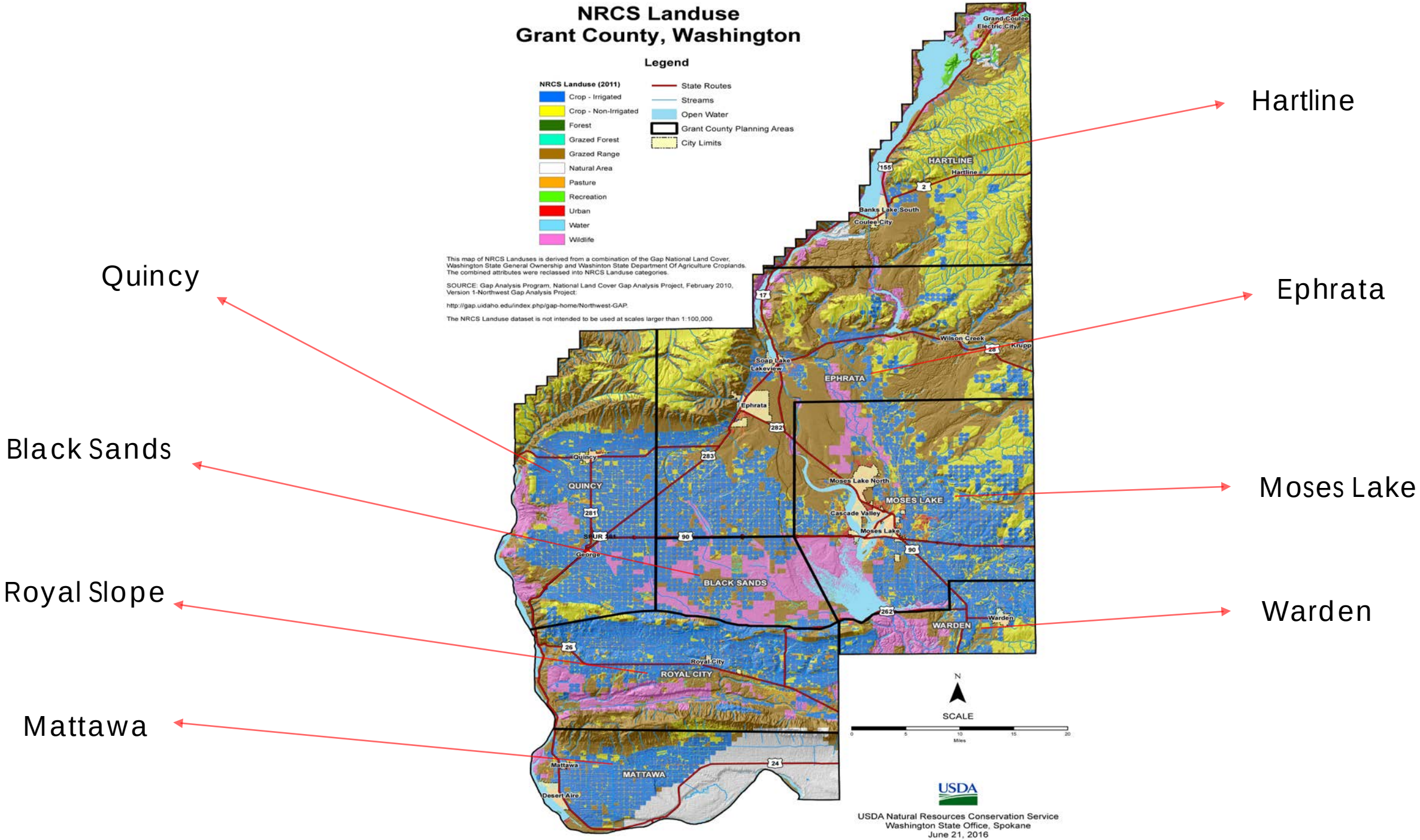



**Directional**
VSP program adopted

**Enabling**
WA State Conservation Commission designated lead

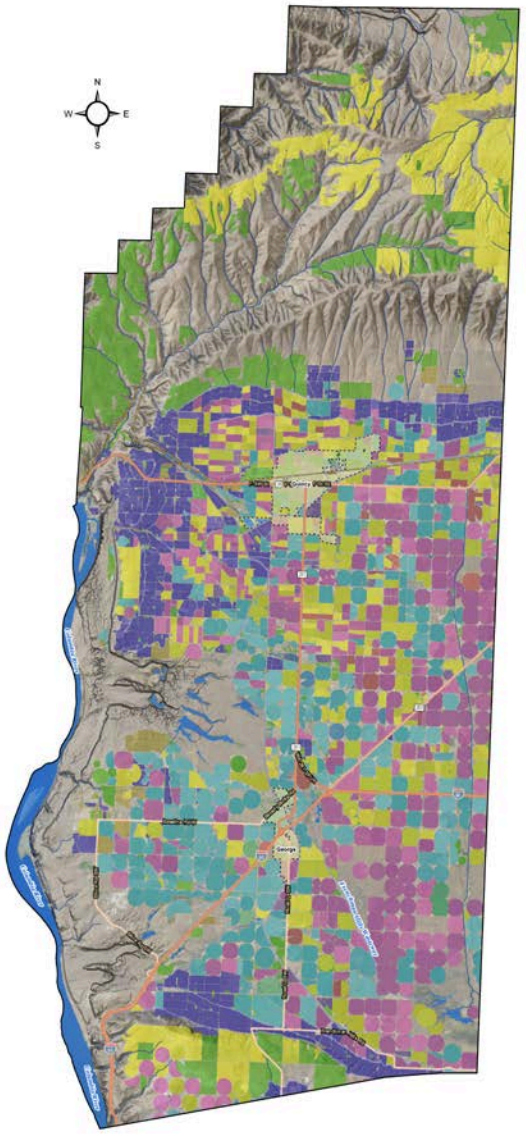
**Representational**
Stakeholders and leaders develop desired actions compatible with objectives

**Definitive**
Resource plans developed, monitoring program implemented, practice applied


NRCS Landuse
Grant County, Washington
Legend
NRCS Landuse (2011)
Crop - Irrigated
Crop - Non-Irrigated
Forest
Grazed Forest
Grazed Range
Natural Area
Pasture
Recreation
Urban
Water
Wildlife
State Routes
Streams
Open Water
Grant County Planning Areas
City Limits
This map of NRCS Landuses is derived from a combination of the Gap National Land Cover, Washington State General Ownership and Washinton State Department Of Agriculture Croplands. The combined attributes were reclassed into NRCS Landuse categories.
SOURCE: Gap Analysis Program, National Land Cover Gap Analysis Project, February 2010, Version 1-Northwest Gap Analysis Project:
http://gap.uidaho.edu/index.php/gap-home/Northwest-GAP.
The NRCS Landuse dataset is not intended to be used at scales larger than 1:100,000.
Grand Coulee
Electric City
HARTLINE
Hartline
Banks Lake South
Coulee City
Wilson Creek
Krupp
Soap Lake
Lakeview
EPHRATA
Ephrata
Quincy
QUINCY
Moses Lake North
MOSES LAKE
Cascade Valley
Moses Lake
Georgia
BLACK SANDS
WARDEN
Warden
Royal City
ROYAL CITY
Mattawa
MATTAWA
Desert Aire
N
SCALE
Miles
USDA
USDA Natural Resources Conservation Service
Washington State Office, Spokane
June 21, 2016
Hartline
Ephrata
Quincy
Black Sands
Moses Lake
Royal Slope
Warden
Mattawa

# Quincy VSP Planning Unit

## Grant County Conservation District




GCCD
GRANT COUNTY CONSERVATION DISTRICT

Washington State Conservation Commission

**Legend**

- City Boundary

**Surface Water**

- Surface Water

**Flow Type**

- CanalDitch
- Connector
- Pipeline
- StreamRiver

**WSDA Crops Group 2015**

**CropGroup**

- Berry
- Cereal Grain
- Commercial Tree
- Green Manure
- Hay/Silage
- Herb
- Melon
- Nursery
- Oilseed
- Orchard
- Other
- Seed
- Turfgrass
- Vegetable
- Vineyard

0 1.25 2.5 5 7.5 10 Miles

1 in = 2.5 miles

Map created by MB, WSCC
Map Date: 8.23.16
Coordinate System: State Plane Washington South
Units: Feet, Datum: NAD 1983
Crops Data Source: WSDA 2015, WSDA_Crop2015

# Grant County Voluntary Stewardship Program Conservation Practices Applied 2011 to 2016 and Planning Matrix

| NRCS Practice Code | NRCS Conservation Practice | Count | Land Use | | | | | | Community (acre) | | | | | | | | | VSP Critical Areas | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Irrig Crop | Irrig Hay | Dryland | Orch/Vin | Wildlife | Range | Hartline | Ephrata | Quincy | Moses Lake | Royal Slope | Warden | Blk Sands | Mattawa | Acres | CA 1 | CA 2 | CA 3 | CA 4 | CA 5 |
| 327 | Conservation Cover | 88 | x | | x | | x | | 35,000.00 | 3,000.00 | | 750.00 | 1,000.00 | 500.00 | | | 40,250.00 | x | x | | x | x |
| 328 | Conservation Crop Rotation | 9 | x | x | x | | | | | | 945.00 | 175.00 | | 210.00 | 537.00 | | 1,867.00 | x | | | x | x |
| 340 | Cover Crop | 16 | x | | x | x | | | | | 465.00 | | | | 545.00 | 175.00 | 1,185.00 | x | x | x | x | x |
| 382 | Fence | 3 | | | | | x | x | | 1,782.00 | | | | | | | 1,782.00 | x | | | x | x |
| 649 | Fish and Wildlife Structure | 2 | | | | | x | | 10.00 | | | | | | | | 10.00 | | | | | x |
| 561 | Heavy Use Area Protection | 3 | | | | | | x | 1.00 | | | | | | | | 1.00 | | | | x | x |
| 441 | Irrigation System, Microirrigation | 17 | | | | x | x | | | 109.00 | 235.00 | | 75.00 | | | | 419.00 | x | | x | x | x |
| 442 | Irrigation System, Sprinkler | 26 | x | x | | x | x | | | 130.00 | 340.00 | 130.00 | 130.00 | 205.00 | 170.00 | | 1,105.00 | x | | x | x | x |
| 449 | Irrigation Water Management* | 567 | x | x | | x | x | | 1,500.00 | 8,460.00 | 10,460.00 | 8,125.00 | 2,400.00 | 8,734.00 | 24,600.00 | 9,567.00 | 73,846.00 | x | | x | x | x |
| 484 | Mulching | 12 | | | | | x | | | 37.90 | | | | | | | 37.90 | x | x | | x | x |
| 590 | Nutrient Management | 23 | x | x | x | x | | | | 164.00 | 1,125.00 | 345.00 | 210.00 | 206.00 | 875.00 | 202.80 | 3,127.80 | | | x | | x |
| 595 | Pest Management | 17 | x | x | x | x | x | x | 960.00 | 462.90 | 1,230.00 | 750.00 | 545.00 | 390.00 | 3,460.00 | 760.00 | 8,557.90 | | | x | | x |
| 528 | Prescribed Grazing | 11 | | x | | | | x | 7,654.00 | 3,428.00 | | | | | 3,988.10 | | 15,070.10 | x | x | x | x | x |
| 550 | Range Planting | 7 | | | | | | x | 369.20 | | | | | | | | 369.20 | x | x | | x | x |
| 345 | Residue and Tillage Management, Mulch Till | 17 | x | | x | | | | 3,418.10 | | | | | | | | 3,418.10 | x | x | | x | x |
| 329 | Residue and Tillage Management, No-Till/Strip Till/Direct Seed | 17 | x | | x | | | x | 3,759.30 | | 350.00 | | | | | | 4,109.30 | x | x | | x | x |
| 643 | Restoration and Management of Rare and Declining Habitats | 13 | | | | | x | | | 145.70 | | | | | | | 145.70 | x | | | | x |
| 587 | Structure for Water Control | 19 | x | x | | x | x | | | | | | | | | | - | x | x | | x | x |
| 612 | Tree/Shrub Establishment | 13 | x | | x | x | x | | | 40.80 | | | | | | | 40.80 | x | | | | x |
| 645 | Upland Wildlife Habitat Management | 4 | x | | x | | x | x | | 2.00 | | | | | | | 2.00 | | | | | x |
| 472 | Use Exclusion | 1 | | | | | | x | | 641.00 | 245.00 | 230.00 | 1,000.00 | | | | 2,116.00 | x | x | | x | x |
| 633 | Waste Utilization | 2 | | | | | | | | | | | | | | | | | | | | |
| 642 | Water Well | 2 | x | | | | | x | | | | | | | | | | | | | | |
| 614 | Watering Facility | 5 | | | | | | x | | | | | | | | | | | | | | |
| 309 | Agrichemical Handling | | | | | | | | | | | | | | | | | | | | | |
| 450 | Anionic Polyacrylamide | | | | | | | | | | | | | | | | | | | | | |
| 393 | Filter Strip | | | | | | | | | | | | | | | | | | | | | |
| 644 | Wetland Wildlife Habitat Management | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | |
| | | 894 | | | | | | | 52,671.60 | 18,403.30 | 15,395.00 | 10,505.00 | 5,360.00 | 10,245.00 | 34,175.10 | 10,704.80 | **157,459.80** | | | | | |
| | | | | | | | | | | | | | | | | | | Shows what CA practice Addressed | | | | |
| NRC Practice Code | Conservation practice descriptions found in NRCS Field Office Technical Guide (FOTG) Section IV | Installed | Typical land use where practice would be applied | | | | | | Community where Conservation practice was applied between July 2011 to Present | | | | | | | | | CA 1 | Wetlands | | | |
| | | | | | | | | | | | | | | | | | | CA 2 | Frequently Flooded | | | |
| | | | | | | | | | | | | | | | | | | CA 3 | Critical Aquifer Recharge | | | |
| | | | | | | | | | | | | | | | | | | CA 4 | Geological Hazardous Areas | | | |
| | | | | | | | | | | | | | | | | | | CA 5 | Fish Wildlife Habitat | | | |

| NRCS Practice Code | NRCS Conservation Practice | Count |
|---|---|---|
| | | |
| 327 | Conservation Cover | 88 |
| 328 | Conservation Crop Rotation | 9 |
| 340 | Cover Crop | 16 |
| 382 | Fence | 3 |
| 649 | Fish and Wildlife Structure | 2 |
| 561 | Heavy Use Area Protection | 3 |
| 441 | Irrigation System, Microirrigation | 17 |
| 442 | Irrigation System, Sprinkler | 26 |
| 449 | Irrigation Water Management* | 567 |
| 484 | Mulching | 12 |
| 590 | Nutrient Management | 23 |
| 595 | Pest Management | 17 |
| 528 | Prescribed Grazing | 11 |
| 550 | Range Planting | 7 |
| 345 | Residue and Tillage Management, Mulch Till | 17 |
| 329 | Residue and Tillage Management, No-Till/Strip Till/Direct Seed | 17 |
| 643 | Restoration and Management of Rare and Declining Habitats | 13 |
| 587 | Structure for Water Control | 19 |
| 612 | Tree/Shrub Establishment | 13 |
| 645 | Upland Wildlife Habitat Management | 4 |
| 472 | Use Exclusion | 1 |
| 633 | Waste Utilization | 2 |
| 642 | Water Well | 2 |
| 614 | Watering Facility | 5 |
| 309 | Agrichemical Handling | |
| 450 | Anionic Polyacrylamide | |
| 393 | Filter Strip | |
| 644 | Wetland Wildlife Habitat Management | |
| | | |
| | | 894 |
| | | |
| NRC Practice Code | Conservation practice descriptions found in NRCS Field Office Technical Guide (FOTG) Section IV | Installed |

| Land Use | | | | | |
|---|---|---|---|---|---|
| Irrig Crop | Irrig Hay | Dryland | Orch/Vin | Wildlife | Range |
| × | | × | | × | |
| × | × | × | | | |
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Typical land use where practice would be applied

| Community (acre) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Hartline | Ephrata | Quincy | Moses Lake | Royal Slope | Warden | Blk Sands | Mattawa | Acres |
| 35,000.00 | 3,000.00 | | 750.00 | 1,000.00 | 500.00 | | | 40,250.00 |
| | | 945.00 | 175.00 | | 210.00 | 537.00 | | 1,867.00 |
| | | 465.00 | | | | 545.00 | 175.00 | 1,185.00 |
| | 1,782.00 | | | | | | | 1,782.00 |
| 10.00 | | | | | | | | 10.00 |
| 1.00 | | | | | | | | 1.00 |
| | 109.00 | 235.00 | | 75.00 | | | | 419.00 |
| | 130.00 | 340.00 | 130.00 | 130.00 | 205.00 | 170.00 | | 1,105.00 |
| 1,500.00 | 8,460.00 | 10,460.00 | 8,125.00 | 2,400.00 | 8,734.00 | 24,600.00 | 9,567.00 | 73,846.00 |
| | 37.90 | | | | | | | 37.90 |
| | 164.00 | 1,125.00 | 345.00 | 210.00 | 206.00 | 875.00 | 202.80 | 3,127.80 |
| 960.00 | 462.90 | 1,230.00 | 750.00 | 545.00 | 390.00 | 3,460.00 | 760.00 | 8,557.90 |
| 7,654.00 | 3,428.00 | | | | | 3,988.10 | | 15,070.10 |
| 369.20 | | | | | | | | 369.20 |
| 3,418.10 | | | | | | | | 3,418.10 |
| 3,759.30 | | 350.00 | | | | | | 4,109.30 |
| | 145.70 | | | | | | | 145.70 |
| | | | | | | | | - |
| | 40.80 | | | | | | | 40.80 |
| | 2.00 | | | | | | | 2.00 |
| | 641.00 | 245.00 | 230.00 | 1,000.00 | | | | 2,116.00 |
| 52,671.60 | 18,403.30 | 15,395.00 | 10,505.00 | 5,360.00 | 10,245.00 | 34,175.10 | 10,704.80 | **157,459.80** |

Community where Conservation practice was applied between July 2011 to Present

| VSP Critical Areas | | | | |
|---|---|---|---|---|
| CA 1 | CA 2 | CA 3 | CA 4 | CA 5 |
| x | x | | x | x |
| x | | | x | x |
| x | x | x | x | x |
| x | | | x | x |
| | | | | x |
| | | | x | x |
| x | | x | x | x |
| x | | x | x | x |
| x | | x | x | x |
| x | x | | x | x |
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| Shows what CA practice Addressed | |
|---|---|
| CA 1 | Wetlands |
| CA 2 | Frequently Flooded |
| CA 3 | Critical Aquifer Recharge |
| CA 4 | Geological Hazardous Areas |
| CA 5 | Fish Wildlife Habitat |

# Grant County Voluntary Stewardship Program Conservation Practices Applied 2011 to 2016 and Planning Matrix

| NRCS Practice Code | NRCS Conservation Practice | Count | Land Use | | | | | | Community (acre) | | | | | | | | | VSP Critical Areas | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Irrig Crop | Irrig Hay | Dryland | Orch/Vin | Wildlife | Range | Hartline | Ephrata | Quincy | Moses Lake | Royal Slope | Warden | Blk Sands | Mattawa | Acres | CA 1 | CA 2 | CA 3 | CA 4 | CA 5 |
| 327 | Conservation Cover | 88 | x | | x | | x | | 35,000.00 | 3,000.00 | | 750.00 | 1,000.00 | 500.00 | | | 40,250.00 | x | x | | x | x |
| 328 | Conservation Crop Rotation | 9 | x | x | x | | | | | | 945.00 | 175.00 | | 210.00 | 537.00 | | 1,867.00 | x | | | x | x |
| 340 | Cover Crop | 16 | x | | x | x | | | | | 465.00 | | | | 545.00 | 175.00 | 1,185.00 | x | x | x | x | x |
| 382 | Fence | 3 | | | | | x | x | | 1,782.00 | | | | | | | 1,782.00 | x | | | x | x |
| 649 | Fish and Wildlife Structure | 2 | | | | | x | | 10.00 | | | | | | | | 10.00 | | | | | x |
| 561 | Heavy Use Area Protection | 3 | | | | | | x | 1.00 | | | | | | | | 1.00 | | | | x | x |
| 441 | Irrigation System, Microirrigation | 17 | | | | x | x | | | 109.00 | 235.00 | | 75.00 | | | | 419.00 | x | | x | x | x |
| 442 | Irrigation System, Sprinkler | 26 | x | x | | x | x | | | 130.00 | 340.00 | 130.00 | 130.00 | 205.00 | 170.00 | | 1,105.00 | x | | x | x | x |
| 449 | Irrigation Water Management* | 567 | x | x | | x | x | | 1,500.00 | 8,460.00 | 10,460.00 | 8,125.00 | 2,400.00 | 8,734.00 | 24,600.00 | 9,567.00 | 73,846.00 | x | | x | x | x |
| 484 | Mulching | 12 | | | | | x | | | 37.90 | | | | | | | 37.90 | x | x | | x | x |
| 590 | Nutrient Management | 23 | x | x | x | x | | | | 164.00 | 1,125.00 | 345.00 | 210.00 | 206.00 | 875.00 | 202.80 | 3,127.80 | | | x | | x |
| 595 | Pest Management | 17 | x | x | x | x | x | x | 960.00 | 462.90 | 1,230.00 | 750.00 | 545.00 | 390.00 | 3,460.00 | 760.00 | 8,557.90 | | | x | | x |
| 528 | Prescribed Grazing | 11 | | x | | | | x | 7,654.00 | 3,428.00 | | | | | 3,988.10 | | 15,070.10 | x | x | x | x | x |
| 550 | Range Planting | 7 | | | | | | x | 369.20 | | | | | | | | 369.20 | x | x | | x | x |
| 345 | Residue and Tillage Management, Mulch Till | 17 | x | | x | | | | 3,418.10 | | | | | | | | 3,418.10 | x | x | | x | x |
| 329 | Residue and Tillage Management, No-Till/Strip Till/Direct Seed | 17 | x | | x | | | x | 3,759.30 | | 350.00 | | | | | | 4,109.30 | x | x | | x | x |
| 643 | Restoration and Management of Rare and Declining Habitats | 13 | | | | | x | | | 145.70 | | | | | | | 145.70 | x | | | | x |
| 587 | Structure for Water Control | 19 | x | x | | x | x | | | | | | | | | | - | x | x | | x | x |
| 612 | Tree/Shrub Establishment | 13 | x | | x | x | x | | | 40.80 | | | | | | | 40.80 | x | | | | x |
| 645 | Upland Wildlife Habitat Management | 4 | x | | x | | x | x | | 2.00 | | | | | | | 2.00 | | | | | x |
| 472 | Use Exclusion | 1 | | | | | | x | | 641.00 | 245.00 | 230.00 | 1,000.00 | | | | 2,116.00 | x | x | | x | x |
| 633 | Waste Utilization | 2 | | | | | | | | | | | | | | | | | | | | |
| 642 | Water Well | 2 | x | | | | | x | | | | | | | | | | | | | | |
| 614 | Watering Facility | 5 | | | | | | x | | | | | | | | | | | | | | |
| 309 | Agrichemical Handling | | | | | | | | | | | | | | | | | | | | | |
| 450 | Anionic Polyacrylamide | | | | | | | | | | | | | | | | | | | | | |
| 393 | Filter Strip | | | | | | | | | | | | | | | | | | | | | |
| 644 | Wetland Wildlife Habitat Management | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | |
| | | 894 | | | | | | | 52,671.60 | 18,403.30 | 15,395.00 | 10,505.00 | 5,360.00 | 10,245.00 | 34,175.10 | 10,704.80 | **157,459.80** | | | | | |

| NRC Practice Code | Conservation practice descriptions found in NRCS Field Office Technical Guide (FOTG) Section IV | Installed | Typical land use where practice would be applied | Community where Conservation practice was applied between July 2011 to Present |
|---|---|---|---|---|

| Shows what CA practice Addressed | |
|---|---|
| CA 1 | Wetlands |
| CA 2 | Frequently Flooded |
| CA 3 | Critical Aquifer Recharge |
| CA 4 | Geological Hazardous Areas |
| CA 5 | Fish Wildlife Habitat |

## Enter Watershed Variables Below

| | | | | | |
|---|---|---|---|---|---|
| Watershed Name | Quincy | Watershed Code | Q-1 | | Help |
| Landuse Type | Irrigated | Landuse Acres | 176,404 | Interest Rate | 6% |
| Typical Unit Size (ac) | 248 | Percent TA of FA | 20% | Cost-Share Rate | 50% |

Estimated Time Frame = 5 years

Participation Rate (Based on Watershed Profile): 15% — COMPARE — 15% Calculated Participation Rate (Based on Projected Future Conditions)

Next

| Current Conditions | | | Projected Change | | | Projected Future Condition | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| System | Percent | Acres | System | Percent | Acres | System | Percent | Acres | | |
| | | | | | | | | Total | Static | Treated |
| Baseline | 30% | 52,921 | Baseline | 75% | 39,691 | Baseline | 23% | 39,691 | 39,691 | 0 |
| | | | Progressive | 23% | 12,172 | | | | | |
| | | | RMS | 2% | 1,058 | | | | | |
| | | | Must Total 100% | 100% | | | | | | |

| Current Conditions | | | Projected Change | | | Projected Future Condition | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| System | Percent | Acres | System | Percent | Acres | System | Percent | Acres | | |
| | | | | | | | | Total | Static | Treated |
| Progressive | 68% | 119,955 | Progressive | 90% | 107,959 | Progressive | 68% | 120,131 | 107,959 | 12,172 |
| | | | RMS | 10% | 11,995 | | | | | |
| | | | Must Total 100% | 100% | | | | | | |

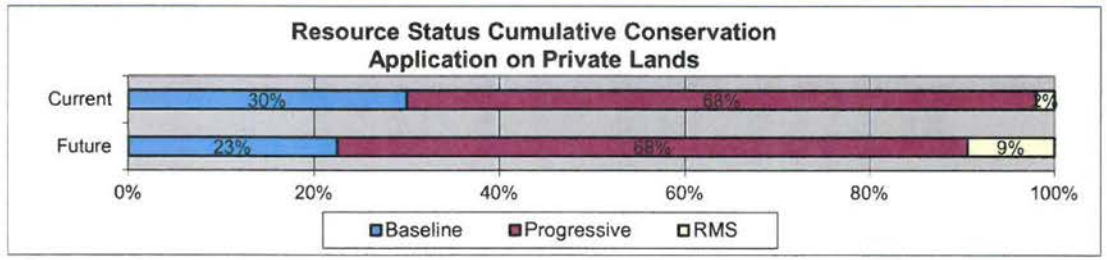
| Current Conditions | | | Projected Change | | | Projected Future Condition | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| System | Percent | Acres | System | Percent | Acres | System | Percent | Acres | | |
| | | | | | | | | Total | Static | Treated |
| RMS | 2% | 3,528 | RMS | 100% | 3,528 | RMS | 9% | 16,582 | 3,528 | 13,054 |
| Grand Totals | 100% | 176,404 | | | | | 100% | 176,404 | 151,178 | 25,226 |

| WATERSHED NAME & CODE | QUINCY - Q-1 | LANDUSE ACRES | 176,404 |
|---|---|---|---|
| LANDUSE TYPE | IRRIGATED | TYPICAL UNIT SIZE ACRES | 248 |
| ASSESSMENT INFORMATION | | CALCULATED PARTICIPATION | 15% |

| | Benchmark Conditions | Future Conditions | | | RESOURCE CONCERNS | | | |
|---|---|---|---|---|---|---|---|---|
| Conservation Systems by Treatment Level | Total Units | Existing Unchanged Units | New Treatment Units | Total Units | Soil Erosion – Irrigation induced | Soil Condition – Contaminants: Commercial Fertilizer – N | Water Quantity – Inefficient Water Use on Irrigated Land | Fish and Wildlife – Inadequate Cover/Shelter |
| **Baseline** | | | | **System Rating ->** | **2** | **0** | **4** | **0** |
| Anionic Polyacrylamide (PAM) Erosion Control (ac.) 450 | 5,292 | 3,969 | 0 | 3,969 | 3 | 0 | 5 | 0 |
| Irrigation System, Surface and Subsurface (ac.) 443 | 47,629 | 35,722 | 0 | 35,722 | -2 | 0 | 0 | 0 |
| Irrigation Water Management (ac.) 449 | 13,230 | 9,923 | 0 | 9,923 | 4 | 0 | 5 | 0 |
| **Total Acreage at Baseline** | **52,921** | **39,691** | **0** | **39,691** | | | | |
| **Progressive** | | | | **System Rating ->** | **4** | **4** | **5** | **1** |
| Anionic Polyacrylamide (PAM) Erosion Control (ac.) 450 | 101,962 | 92,983 | 9,129 | 102,111 | 3 | 0 | 5 | 0 |
| Conservation Crop Rotation (ac.) 328 | 89,966 | 80,969 | 9,129 | 90,098 | 3 | 3 | 3 | 0 |
| Cover Crop (ac.) 340 | 29,989 | 26,990 | 3,043 | 30,033 | 0 | 1 | 0 | 2 |
| Irrigation System, Microirrigation (ac.) 441 | 11,995 | 10,796 | 1,217 | 12,013 | 0 | 0 | 4 | 0 |
| Irrigation System, Sprinkler (ac.) 442 | 119,955 | 107,959 | 12,172 | 120,131 | 0 | 0 | 4 | 0 |
| Irrigation System, Surface and Subsurface (ac.) 443 | 5,998 | 6,007 | 0 | 6,007 | -2 | 0 | 0 | 0 |
| Irrigation Water Management (ac.) 449 | 59,977 | 57,023 | 3,043 | 60,066 | 4 | 0 | 5 | 0 |
| Nutrient Management (ac.) 590 | 89,966 | 80,969 | 9,129 | 90,098 | 0 | 5 | 1 | 1 |
| Pest Management (ac.) 595 | 89,966 | 80,969 | 9,129 | 90,098 | 1 | 0 | 1 | 0 |
| Residue Management, No-Till/Strip Till/Direct Seed (ac.) 329 | 29,989 | 26,990 | 3,043 | 30,033 | 5 | 0 | 2 | 1 |
| **Total Acreage at Progressive Level** | **119,955** | **107,959** | **12,172** | **120,131** | | | | |
| **RMS** | | | | **System Rating ->** | **4** | **4** | **5** | **3** |
| Anionic Polyacrylamide (PAM) Erosion Control (ac.) 450 | 176 | 829 | 0 | 829 | 3 | 0 | 5 | 0 |
| Conservation Cover (ac.) 327 | 3,140 | 3,140 | 11,618 | 14,758 | 5 | 2 | 0 | 5 |
| Conservation Crop Rotation (ac.) 328 | 3,528 | 12,525 | 4,057 | 16,582 | 3 | 3 | 3 | 0 |
| Cover Crop (ac.) 340 | 2,646 | 5,645 | 6,792 | 12,436 | 0 | 1 | 0 | 2 |
| Irrigation System, Microirrigation (ac.) 441 | 882 | 2,082 | 2,064 | 4,145 | 0 | 0 | 4 | 0 |
| Irrigation System, Sprinkler (ac.) 442 | 3,528 | 15,524 | 1,058 | 16,582 | 0 | 0 | 4 | 0 |
| Irrigation System, Surface and Subsurface (ac.) 443 | 176 | 829 | 0 | 829 | -2 | 0 | 0 | 0 |
| Irrigation Water Management (ac.) 449 | 3,528 | 9,790 | 6,792 | 16,582 | 4 | 0 | 5 | 0 |
| Nutrient Management (ac.) 590 | 3,528 | 12,525 | 4,057 | 16,582 | 0 | 5 | 1 | 1 |
| Pest Management (ac.) 595 | 3,528 | 12,525 | 4,057 | 16,582 | 1 | 0 | 1 | 0 |
| Residue Management, No-Till/Strip Till/Direct Seed (ac.) 329 | 2,646 | 5,645 | 6,792 | 12,436 | 5 | 0 | 2 | 1 |
| **Total Acreage at RMS Level** | **3,528** | **3,528** | **13,054** | **16,582** | | | | |

| WATERSHED NAME & CODE | QUINCY - Q-1 | LANDUSE ACRES | 176,404 |
|---|---|---|---|
| LANDUSE TYPE | IRRIGATED | TYPICAL UNIT SIZE ACRES | 248 |
| CONSERVATION COST TABLE | | CALCULATED PARTICIPATION | 15% |

| | FUTURE | FEDERAL | | | | PRIVATE | | |
|---|---|---|---|---|---|---|---|---|
| Conservation Systems by Treatment Level | New Treatment Units | Installation Cost 50% | Management Cost - 3 yrs 100% | Technical Assistance 20% | Total Present Value Cost | Installation Cost 50% | Annual O & M + Mgt Costs 100% | Total Present Value Cost |
| **Progressive** | | | | | | | | |
| Anionic Polyacrylamide (PAM) Erosion Control (ac.) 450 | 9,129 | $0 | $958,535 | $191,707 | $1,045,766 | $0 | $319,512 | $491,841 |
| Conservation Crop Rotation (ac.) 328 | 9,129 | $0 | $410,801 | $82,160 | $448,185 | $0 | $136,934 | $210,789 |
| Cover Crop (ac.) 340 | 3,043 | $0 | $684,668 | $136,934 | $746,976 | $0 | $228,223 | $351,315 |
| Irrigation System, Microirrigation (ac.) 441 | 1,217 | $912,891 | $0 | $182,578 | $1,095,469 | $912,891 | $91,289 | $1,297,433 |
| Irrigation System, Sprinkler (ac.) 442 | 12,172 | $9,128,907 | $0 | $1,825,781 | $10,954,688 | $9,128,907 | $365,156 | $10,667,078 |
| Irrigation System, Surface and Subsurface (ac.) 443 | 0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 |
| Irrigation Water Management (ac.) 449 | 3,043 | $0 | $319,512 | | $348,589 | $0 | $106,504 | $163,947 |
| Nutrient Management (ac.) 590 | 9,129 | $0 | $410,801 | | $448,185 | $0 | $136,934 | $210,789 |
| Pest Management (ac.) 595 | 9,129 | $0 | $547,734 | | $597,580 | $0 | $182,578 | $281,052 |
| Residue Management, No-Till/Strip Till/Direct Seed (ac.) 329 | 3,043 | $0 | $273,867 | | $298,790 | $0 | $91,289 | $140,526 |
| **Subtotal** | **12,172** | **$10,041,798** | **$3,605,918** | **$2,729,543** | **$15,984,228** | **$10,041,798** | **$1,658,418** | **$13,814,771** |
| **RMS** | | | | | | | | |
| Anionic Polyacrylamide (PAM) Erosion Control (ac.) 450 | 0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 |
| Conservation Cover (ac.) 327 | 11,618 | $580,898 | $0 | $116,180 | $697,078 | $580,898 | $34,854 | $727,716 |
| Conservation Crop Rotation (ac.) 328 | 4,057 | $0 | $182,578 | $36,516 | $199,193 | $0 | $60,859 | $93,684 |
| Cover Crop (ac.) 340 | 6,792 | $0 | $1,528,100 | $305,620 | $1,667,163 | $0 | $509,367 | $784,094 |
| Irrigation System, Microirrigation (ac.) 441 | 2,064 | $1,547,945 | $0 | $309,589 | $1,857,534 | $1,547,945 | $154,795 | $2,199,996 |
| Irrigation System, Sprinkler (ac.) 442 | 1,058 | $793,818 | $0 | $158,764 | $952,582 | $793,818 | $31,753 | $927,572 |
| Irrigation System, Surface and Subsurface (ac.) 443 | 0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 |
| Irrigation Water Management (ac.) 449 | 6,792 | $0 | $713,113 | $142,623 | $778,009 | $0 | $237,704 | $365,911 |
| Nutrient Management (ac.) 590 | 4,057 | $0 | $182,578 | $36,516 | $199,193 | $0 | $60,859 | $93,684 |
| Pest Management (ac.) 595 | 4,057 | $0 | $243,438 | $48,688 | $265,591 | $0 | $81,146 | $124,912 |
| Residue Management, No-Till/Strip Till/Direct Seed (ac.) 329 | 6,792 | $0 | $611,240 | | $666,865 | $0 | $203,747 | $313,638 |
| **Subtotal** | **13,054** | **$2,922,661** | **$3,461,046** | **$1,276,742** | **$7,283,209** | **$2,922,661** | **$1,375,083** | **$5,631,206** |
| **Grand Total** | **25,226** | **$12,964,459** | **$7,066,965** | **$4,006,285** | **$23,267,438** | **$12,964,459** | **$3,033,501** | **$19,445,977** |




| Chart Refers To | |
|---|---|
| Landuse Type | IRRIGATED |
| Calculated Participation Rate | 15% |

| Average PV Costs per Ac | | |
|---|---|---|
| System | Federal | Private |
| Prog | $1,313.21 | $1,134.97 |
| RMS | $557.93 | $431.38 |

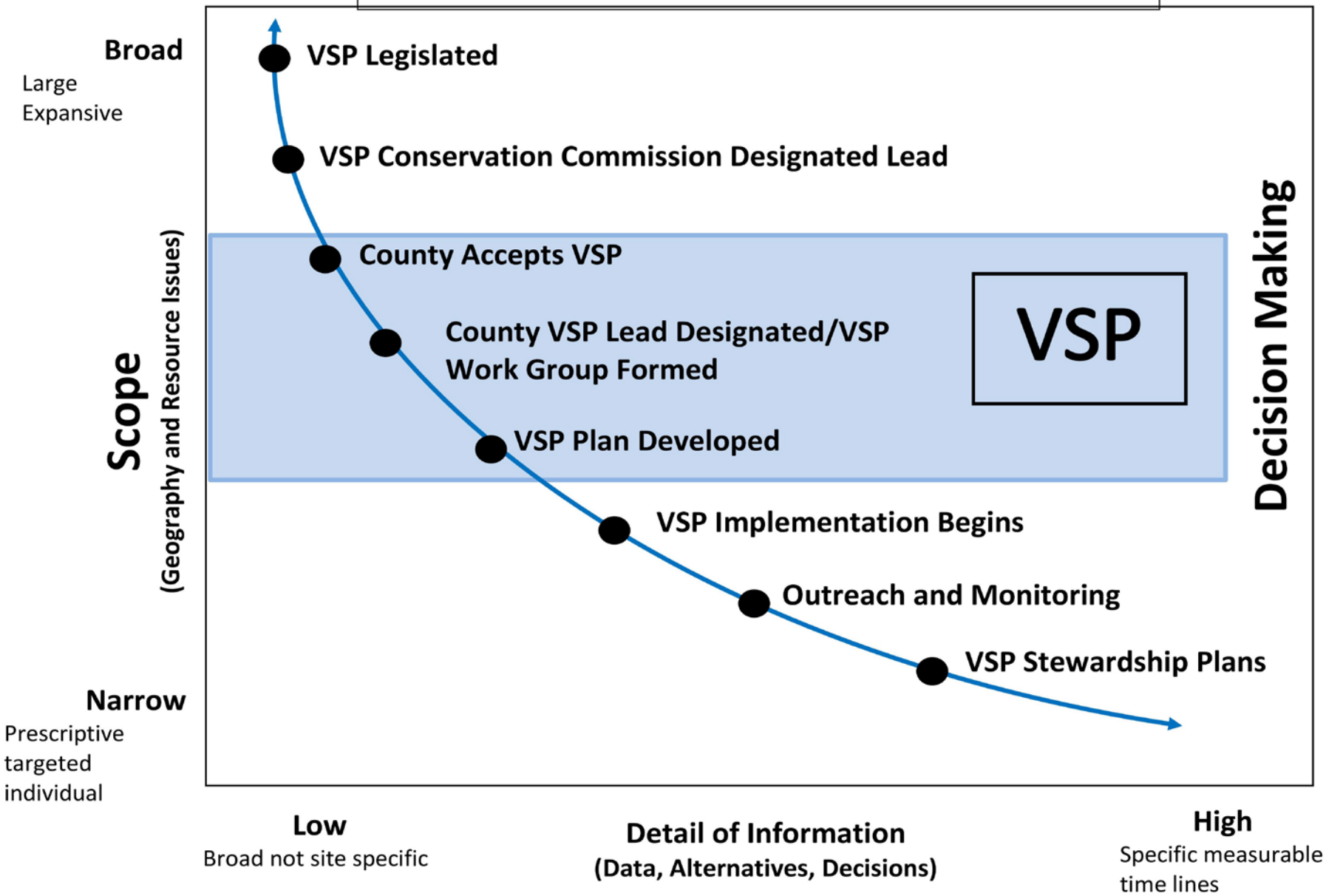
| WATERSHED NAME & CODE | QUINCY - Q-1 | LANDUSE ACRES | 176,404 |
|---|---|---|---|
| LANDUSE TYPE | IRRIGATED | TYPICAL UNIT SIZE ACRES | 248 |
| POSSIBLE SOURCES OF FUNDING | | CALCULATED PARTICIPATION | 15% |

| | FUTURE | FARM BILL | | | | | | OTHERS | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Conservation Systems by Treatment Level | New Treatment Units | CTA | EQIP | WRP | WHIP | CSP | CRP/ CREP | Fed | State | Local | NOTES/COMMENTS |
| **Progressive** | | | | | | | | | | | |
| Anionic Polyacrylamide (PAM) Erosion Control (ac.) 450 | 9,129 | X | X | | | | | | | | |
| Conservation Crop Rotation (ac.) 328 | 9,129 | X | X | | | | | | | | |
| Cover Crop (ac.) 340 | 3,043 | X | | | | | | | | | |
| Irrigation System, Microirrigation (ac.) 441 | 1,217 | X | | | | | | | | | |
| Irrigation System, Sprinkler (ac.) 442 | 12,172 | X | X | | | | | | | | |
| Irrigation System, Surface and Subsurface (ac.) 443 | 0 | X | X | | | | | | | | |
| Irrigation Water Management (ac.) 449 | 3,043 | X | | | | | | | | | |
| Nutrient Management (ac.) 590 | 9,129 | X | X | | X | X | | | | | |
| Pest Management (ac.) 595 | 9,129 | X | X | X | | | | | | | |
| Residue Management, No-Till/Strip Till/Direct Seed (ac.) 329 | 3,043 | X | X | | | | | | | | |
| **New Treatment Acreage** | **12,172** | | | | | | | | | | |
| **RMS** | | | | | | | | | | | |
| Anionic Polyacrylamide (PAM) Erosion Control (ac.) 450 | 0 | X | X | | | | | | | | |
| Conservation Cover (ac.) 327 | 11,618 | X | X | X | X | X | | | | | |
| Conservation Crop Rotation (ac.) 328 | 4,057 | X | X | | | | | | | | |
| Cover Crop (ac.) 340 | 6,792 | X | | | | | | | | | |
| Irrigation System, Microirrigation (ac.) 441 | 2,064 | X | | | | | | | | | |
| Irrigation System, Sprinkler (ac.) 442 | 1,058 | X | X | | | | | | | | |
| Irrigation System, Surface and Subsurface (ac.) 443 | 0 | X | X | | | | | | | | |
| Irrigation Water Management (ac.) 449 | 6,792 | X | | | | | | | | | |
| Nutrient Management (ac.) 590 | 4,057 | X | X | | X | X | | | | | |
| Pest Management (ac.) 595 | 4,057 | X | X | X | | | | | | | |
| Residue Management, No-Till/Strip Till/Direct Seed (ac.) 329 | 6,792 | X | X | | | | | | | | |
| **New Treatment Acreage** | **13,054** | | | | | | | | | | |

# Rapid Assessment Tool Data

| Conservation Practice | Code | Units | Installation Cost | Life | O&M Factor | Total Annual Cost | Resource Concerns: Soil Erosion – Irrigation induced | Soil Condition – Contaminants: Commercial Fertilizer – N | Water Quantity – Inefficient Water Use on Irrigated Land | Fish and Wildlife – Inadequate Cover/Shelter |
|---|---|---|---|---|---|---|---|---|---|---|
| Anionic Polyacrylamide (PAM) Erosion Control (ac.) 450 | 450 | ac | $35.00 | 1 | 0.01 | $0.35 | 3 | 0 | 5 | 0 |
| Conservation Cover (ac.) 327 | 327 | Ac | $100.00 | 10 | 0.03 | $16.19 | 5 | 2 | 0 | 5 |
| Conservation Crop Rotation (ac.) 328 | 328 | Ac | $15.00 | 1 | 0.00 | $15.00 | 3 | 3 | 3 | 0 |
| Cover Crop (ac.) 340 | 340 | Ac | $75.00 | 1 | 0.00 | $75.00 | 0 | 1 | 0 | 2 |
| Irrigation System, Microirrigation (ac.) 441 | 441 | Ac | $1,500.00 | 10 | 0.05 | $272.81 | 0 | 0 | 4 | 0 |
| Irrigation System, Sprinkler (ac.) 442 | 442 | Ac | $1,500.00 | 15 | 0.02 | $178.20 | 0 | 0 | 4 | 0 |
| Irrigation System, Surface and Subsurface (ac.) 443 | 443 | Ac | $5.00 | 15 | 0.03 | $0.64 | -2 | 0 | 0 | 0 |
| Irrigation Water Management (ac.) 449 | 449 | Ac | $35.00 | 1 | 0.00 | $35.00 | 4 | 0 | 5 | 0 |
| Nutrient Management (ac.) 590 | 590 | Ac | $15.00 | 1 | 0.00 | $15.00 | 0 | 5 | 1 | 1 |
| Pest Management (ac.) 595 | 595 | Ac | $20.00 | 1 | 0.00 | $20.00 | 1 | 0 | 1 | 0 |
| Residue Management, No-Till/Strip Till/Direct Seed (ac.) 329 | 329 | Ac | $30.00 | 1 | 0.00 | $30.00 | 5 | 0 | 2 | 1 |
| Residue Management, Seasonal (ac.) 344 | 344 | Ac | $5.00 | 1 | 0.00 | $5.00 | 4 | 0 | 1 | 1 |

# VSP PLANNING CONTINUUM




**Directional**
VSP program adopted

**Enabling**
WA State Conservation Commission designated lead

**Representational**
Stakeholders and leaders develop desired actions compatible with objectives

**Definitive**
Resource plans developed, monitoring program implemented, practice applied

# QUESTIONS

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