

Basic Eligibility

If the applicant watershed lies within a non-attainment area, in order to qualify for any CSP enhancement payments under Air Resources (Air Quality and Atmospheric Change) applicants must meet all applicable, agriculturally-related requirements for their state's air quality State Implementation Plan (SIP). To view non-attainment and maintenance areas go to <http://www.ecy.wa.gov/programs/air/Other/namaos/Web-Map.Intro.htm>

Enhancement Activities

Beyond meeting basic eligibility criteria, clients must initiate or maintain one or more activities that have been identified with improving air quality and/or mitigating atmospheric change. There are many of these "enhancement" activities specifically related to air resources. These enhancement activities fall under six general agriculturally-related air resource categories or issues. These are:

- Reducing particulate matter (both coarse; PM10, and fine; PM2.5)
- Reducing odors
- Reducing airborne chemical drift
- Reducing ammonia emissions

- Reducing ozone precursors (both volatile organic compounds, or VOC's, and nitrogen oxides)
- Reducing greenhouse gas emissions (CO₂, CH₄, N₂O) and increasing carbon sequestration

Benefits

These activities will directly benefit air quality, including: Improving visibility; reducing near-surface ozone levels; reducing transport of fine and coarse particulates; decreasing livestock-related off-site odor issues; reducing the potential for airborne agricultural chemicals and volatile organic compounds to affect human habitation; decreasing agriculture's potential contribution to the buildup of greenhouse gases; and increasing the sequestration of carbon on crop, range and pasture lands.

Client's Acknowledgement Statement:

I have elected to use the following Air quality Management activities and understand the requirements of the selected activities:

- Manage dust by sprinkling, watering or graveling heavy use areas. (Worksheet 1)
- Manage AG fugitive dust emissions by utilizing herbaceous wind barriers, field borders and/or wind trap strips (Worksheet 2)
- Reduce unsheltered distance utilizing wind strip cropping (Worksheet 3)
- Reduce hydro carbon emissions by storing fuels, chemicals, and fertilizers properly. (worksheet 4)
- Manage existing herbaceous wind barriers, field borders and wind strips to reduce particulate matter. (worksheet 5)
- Manage Nitrogen volatilization from inorganic sources. (Worksheet 6)
- Manage odor with immediate incorporation or injection of manure (Worksheet 7)
- Manage odor with immediate incorporation or injection of inorganic nutrients. (Worksheet 8)

I agree that the following information will be provided to NRCS upon request:

- Written documentation of the activity performed (use attached worksheets or equivalent).
- Copies of dated receipts for equipment or services purchased.

I understand that CSP Enhancements earnings are subject to payment caps and that my actual payments will depend on my CSP Tier level and the number of acres enrolled.

I understand that it is my responsibility to obtain all necessary permits and to comply with all ordinances and laws pertaining to the application of these activities.

Accepted by: /s/ _____ Date: _____



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Natural Resources Conservation Service

CSP Worksheet

Air Quality Enhancement Activities – Particulate Matter

Worksheet 1: Manage dust by sprinkling, watering or graveling heavy use areas.

Payment: \$25.00/treated acre

Vehicles traveling on unpaved roads produce more dust the farther and faster they travel. Reducing the amount and speed of traffic on unpaved roads will control dust emissions from the road. Dust suppressants (water, other liquid products, or gravel) keep road material in aggregates which are large enough to not be entrained in the air.

Requirements:

- Attach receipt showing payment for application or certification of self-application of dust suppressant.
- Provide evidence of sticker in vehicles instructing drivers to operate the vehicles below a specified speed when on non-paved roads
- Provide certification of reduced travel distance on unpaved roads

Briefly describe your dust suppressant application, your plan and evaluation of its effectiveness.



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CSP Worksheet

Air Quality Enhancement Activities – Particulate Matter

Worksheet 2: Manage AG fugitive dust emissions by utilizing herbaceous wind barriers, field borders and/or wind trap strips. (PM 2.5)

Payment: \$100.00/acre.

Herbaceous wind barriers interrupt wind flow downwind of the barrier, reducing wind erosive force over a field. Wind barriers can also intercept dust in the air on the downwind side of the field, reducing the amount of airborne dust leaving the edge of the field.

Requirements:

- Provide map showing location of wind barriers that are established and/or maintained/enhanced within field boundary.

Management Activity Documentation.

Plant materials:

Barrier width:

Barrier height:

Planting date:

WEQ management method: erosion prediction report for the field before and after the use of wind barriers.

Briefly describe your evaluation of the effectiveness of the new or renovated wind barriers to control dust from wind erosion:



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CSP Worksheet

Air Quality Enhancement Activities – Agricultural Odor

Worksheet 3: Reduce unsheltered distance utilizing wind strip cropping

Payment: \$20/acre

See Conservation Practice Standard 589B, Cross Wind Strip cropping for information on design, installation and maintenance.

Documentation:

Map of field accurately showing location and dimensions of strips

Effective width:

Plant materials/crop systems:

WEQ management method: erosion prediction report for the field before and after the use of wind strip cropping.



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CSP Worksheet

Air Quality Enhancement Activities – Ozone Precursors

Worksheet 4: Reduce Hydro carbon emissions – properly dispense and store fuels, chemicals, fertilizers & pesticides

Payment: \$500/year

Fuels and agricultural chemicals which are exposed to the air have the potential to release volatile organic compounds (VOC's) to the air. Many VOC's are precursors to ozone production. Careful storage and dispensing of fuels and chemicals can reduce VOC emissions and help address concerns regarding ozone formation.

There are two types of systems available to reduce VOC emissions from handling of fuels:

VOC recovery system (phase I) - Equipment used to recover fuel vapors that escape between the fuel delivery trucks and the storage tanks.

VOC recovery system (phase II) - Equipment used to recover fuel vapors that escape when refueling equipment.

For agricultural chemicals, proper storage of chemicals and containers in covered shelters will reduce the potential for VOC emissions.

- Attach proof of a VOC recovery system or dedicated covered chemical storage facility for your operation



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CSP Worksheet

Air Quality Enhancement Activities – Particulate Matter

Worksheet 5: Manage existing herbaceous wind barriers, field borders and wind strips to reduce particulate matter. (PM10)

Payment: \$100/treated acre

Herbaceous wind barriers interrupt wind flow downwind of the barrier, reducing wind erosive force over a field. Wind barriers can also intercept dust in the air on the downwind side of the field, reducing the amount of airborne dust leaving the edge of the field.

Requirements:

- Provide map showing location of wind barriers that are established and/or maintained/enhanced within field boundary.

Management Activity Documentation.

Plant materials:
Barrier width:
Barrier height:
Planting date:

WEQ management method: erosion prediction report for the field before and after the use of wind barriers.

Briefly describe your evaluation of the effectiveness of the new or renovated wind barriers to control dust from wind erosion:



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CSP Worksheet

Air Quality Enhancement Activities

Worksheet 6: Manage Nitrogen volatilization from inorganic sources.

Payment: \$10/ acre

Ammonia based fertilizer stored on-farm should be stored in a dry, cool location to minimize the potential for ammonia volatilization and loss to the atmosphere. Application rate, form and timing of Nitrogen based products should be applied

Provide a description of your Nitrogen storage and application system used to minimize volatilization for your operation.



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CSP Worksheet

Air Quality Enhancement Activities –

Worksheet 8: Manage odor with immediate incorporation or injection of inorganic nutrients.

Payment: \$3.50/treated acre

Injecting ammonia based solid and liquid fertilizers will help to minimize ammonia losses to the atmosphere. The injection slit on the soil surface must be closed to provide a barrier to further ammonia losses.

- Provide a copy of your management plan for injecting ammonia based nitrogen fertilizers.
- Provide dates of application, rates, formulation and methods