

Cropland Enhancement Bundle – BCR06 (Improves nutrient and pesticide application techniques and widens buffers)



Enhancement Description

This bundle of enhancement activities includes: AIR04- Use drift reducing nozzles, low pressures, lower boom height, and adjuvants to reduce pesticide drift; AIR07- GPS, targeted spray application (SmartSprayer), or other chemical application electronic control technology; WQL11-Precision application technology to apply nutrients; WQL13-High level IPM to reduce pesticide environmental risk; and one of the buffer widening enhancements ANM05, ANM07 or ANM32.

Land Use Applicability

Crop

Benefits

This bundle of enhancements is focused on applying nutrients and pesticides using technologies that will limit their impact on the environment. The inclusion of one of the buffer widening enhancements will provide further protection of off-site areas from the impact of agricultural operations. By implementing these activities together a synergy is achieved that should result in more conservation benefits than might be expected from the individual activities. Applicants that choose to implement this bundle of activities will receive an increase in ranking and activity points.

Conditions Where Enhancement Applies

This enhancement applies to all crop land use acres.

Criteria

Bundle rules

1. All of the activities in the bundle must be implemented. However, if an applicant is already implementing 1 or 2 of the activities, they are still eligible for the bundle and only need to implement the remaining 3 or 4 activities.
2. Applicants will be required to install all enhancements in the bundle wherever they are needed on the applied area.
3. Other enhancements cannot be substituted for those in the bundles.
4. Applicants choose the acres of their operation where they want to implement the bundle. If the applicant chooses to implement the activity on only a portion of their operation, their ranking and performance points will be reduced proportionally.
5. The amount of the bundle that can be scheduled cannot exceed the most limiting individual “system” enhancement scheduled.



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Follow the criteria in the respective enhancement activity sheets to implement each enhancement in the bundle.

For this bundle, implement AIR04, AIR07, WQL11 and WQL13 according to their respective criteria on all of the area selected for bundle application. Implement the buffer widening enhancements ANM05, ANM07 or ANM32 where needed according to the criteria for the respective enhancements. If a buffer is needed to address a resource concern but does not exist, the requirements of this bundle can be met by installing a new buffer to the minimum width required by these enhancements.

Adoption Requirements

This enhancement is considered adopted when rules # 1 and 2 from “Rules for Enhancement Activity Bundles” above have been fulfilled.

Documentation Requirements

Follow the documentation requirements in the respective enhancement activity sheets to document the implementation of each enhancement in the bundle.

In addition, document the actual amount, fields and when each enhancement in the bundle is applied:

Enhancement Activity	Amount (unit)	Field(s) Number or Name	Year Applied
AIR04			
AIR07			
WQL11			
WQL13			
ANM05, 07 or 32			

Cropland Enhancement Bundle – BCR09 (Addresses orchard and vineyard resource concerns)



Enhancement Description

This bundle of enhancement activities includes: AIR03-Replace burning of pruning, removals and other crop residues with non-burning alternatives; AIR04-Use of drift reducing nozzles, low pressures, lower boom height, and adjuvants to reduce pesticide drift; PLT15-Establish pollinator and/or beneficial insect habitat; SQL11-Cover cropping in orchards, vineyards and other woody perennial horticultural crops; and WQL13-High level IPM to reduce pesticide environmental risk.

Land Use Applicability

Crop

Benefits

This bundle of enhancements is focused on activities that address air, water and soil resource concern in orchards and vineyards. Implementing these activities together creates a synergy that should result in more conservation benefits than might be expected from the individual activities. Applicants that choose to implement this bundle of activities will receive an increase in ranking and activity points.

Conditions Where Enhancement Applies

This enhancement applies only to acres of orchards and vineyards in the crop land use.

Criteria

Bundle rules

1. All of the activities in the bundle must be implemented. However, if an applicant is already implementing 1 or 2 of the activities, they are still eligible for the bundle and only need to implement the remaining 3 or 4 activities.
2. Applicants will be required to install all enhancements in the bundle wherever they are needed on the applied area.
3. Other enhancements cannot be substituted for those in the bundles.
4. Applicants choose the acres of their operation where they want to implement the bundle. If the applicant chooses to implement the activity on only a portion of their operation, their ranking and performance points will be reduced proportionally.
5. The amount of the bundle that can be scheduled cannot exceed the most limiting individual “system” enhancement scheduled.



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For this bundle implement AIR03, AIR04, PLT15, SQL11 and WQL13 according to their respective criteria on all of the area selected for bundle application.

If the orchard or vineyard can benefit from any of the criteria listed in SQL11 a state can require that it be implemented, otherwise if existing cover is adequate to meet the resource needs, SQL11 does not have to be implemented.

Adoption Requirements

This enhancement is considered adopted when rules # 1 and 2 from “Rules for Enhancement Activity Bundles” above have been fulfilled.

Documentation Requirements

Follow the documentation requirements in the respective enhancement activity sheets to document the implementation of each enhancement.

In addition, document the actual amount, fields and when each enhancement in the bundle is applied:

Enhancement Activity	Amount (unit)	Field(s) Number or Name	Year Applied
AIR03			
AIR04			
PLT15			
SQL11			
WQL13			

Forest Enhancement Bundle –BFO07 (Improves wildlife habitat in conifer or mixed forests)



Enhancement Description

This bundle of enhancement activities includes: ANM12-Shallow water habitat; PLT15-Establish pollinator and/or beneficial insect habitat; PLT21-Forest stand improvement pre-treating vegetation and fuels preceding a prescribed fire; WQL01-Biological suppression and other non-chemical techniques to manage brush, weeds and invasive species; and WQL13-High level IPM to reduce pesticide environmental risk.

Land Use Applicability

Forest

Benefits

This bundle of enhancements is focused on activities that will improve wildlife habitat and soil quality. Implementing these activities together creates a synergy that should result in more conservation benefits than might be expected from the individual activities. Applicants that choose to implement this bundle of activities will receive an increase in ranking and activity points.

Conditions Where Enhancement Applies

This enhancement applies to all forest land use acres.

Criteria

Bundle rules

1. All of the activities in the bundle must be implemented. However, if an applicant is already implementing 1 or 2 of the activities, they are still eligible for the bundle and only need to implement the remaining 3 or 4 activities.
2. Applicants will be required to install all enhancements in the bundle wherever they are needed on the applied area.
3. Other enhancements cannot be substituted for those in the bundles.
4. Applicants choose the acres of their operation where they want to implement the bundle. If the applicant chooses to implement the activity on only a portion of their operation, their ranking and performance points will be reduced proportionally.
5. The amount of the bundle that can be scheduled cannot exceed the most limiting individual “system” enhancement scheduled.



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Follow the criteria in the respective enhancement activity sheets to implement each enhancement.

For this bundle implement ANM12, PLT15, PLT21, WQL01, and WQL13 according to their respective criteria on all of the area selected for bundle application.

Adoption Requirements

This enhancement is considered adopted when rules # 1 and 2 from “Rules for Enhancement Activity Bundles” above have been fulfilled.

Documentation Requirements

Follow the documentation requirements in the respective enhancement activity sheets to document the implementation of each enhancement.

In addition, document the actual amount, fields and when each enhancement in the bundle is implemented:

Enhancement Activity	Amount (unit)	Field(s) Number or Name	Year Applied
ANM12			
PLT15			
PLT21			
WQL01			
WQL13			

Forest Enhancement Bundle –BFO08 (Improves wildlife habitat in hardwood or mixed forests)



Enhancement Description

This bundle of enhancement activities includes: ANM12-Shallow water habitat; PLT15-Establish pollinator and/or beneficial insect habitat; PLT17-Create forest openings to improve hardwood stands; WQL01-Biological suppression and other non-chemical techniques to manage brush, weeds and invasive species; and WQL13-High level IPM to reduce pesticide environmental risk.

Land Use Applicability

Forest

Benefits

This bundle of enhancements is focused on activities that will improve wildlife habitat and soil quality. Implementing these activities together creates a synergy that should result in more conservation benefits than might be expected from the individual activities. Applicants that choose to implement this bundle of activities will receive an increase in ranking and activity points.

Conditions Where Enhancement Applies

This enhancement applies to all forest land use acres.

Criteria

Bundle rules

1. All of the activities in the bundle must be implemented. However, if an applicant is already implementing 1 or 2 of the activities, they are still eligible for the bundle and only need to implement the remaining 3 or 4 activities.
2. Applicants will be required to install all enhancements in the bundle wherever they are needed on the applied area.
3. Other enhancements cannot be substituted for those in the bundles.
4. Applicants choose the acres of their operation where they want to implement the bundle. If the applicant chooses to implement the activity on only a portion of their operation, their ranking and performance points will be reduced proportionally.
5. The amount of the bundle that can be scheduled cannot exceed the most limiting individual “system” enhancement scheduled.

Follow the criteria in the respective enhancement activity sheets to implement each enhancement.



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For this bundle implement ANM12, PLT15, PLT17, WQL01, and WQL13 according to their respective criteria on all of the area selected for bundle application.

Adoption Requirements

This enhancement is considered adopted when rules # 1 and 2 from “Rules for Enhancement Activity Bundles” above have been fulfilled.

Documentation Requirements

Follow the documentation requirements in the respective enhancement activity sheets to document the implementation of each enhancement.

In addition, document the actual amount, fields and when each enhancement in the bundle is implemented:

Enhancement Activity	Amount (unit)	Field(s) Number or Name	Year Applied
ANM12			
PLT15			
PLT17			
WQL01			
WQL13			

Pasture Enhancement Bundle –BPA07 (Improves forage utilization)



Enhancement Description

This bundle of enhancement activities includes: ANM25-Stockpiling of forages to extend the grazing season; ANM26- Managing calving to coincide with forage availability; ANM29-On-farm forage based grazing system; PLT16-Intensive rotational grazing; and WQL07-Split nitrogen applications 50% after the crops/pasture emerge/green-up.

Land Use Applicability

Pasture

Benefits

This bundle of enhancements is focused on activities that improve forage utilization for a longer period of the growing season while saving energy, protecting water quality and improving soil. Implementing these activities together creates a synergy that should result in more conservation benefits than might be expected from the individual activities. Applicants that choose to implement this bundle of activities will receive an increase in ranking and activity points.

Conditions Where Enhancement Applies

This enhancement applies to all pasture land use acres.

Criteria

Bundle rules

1. All of the activities in the bundle must be implemented. However, if an applicant is already implementing 1 or 2 of the activities, they are still eligible for the bundle and only need to implement the remaining 3 or 4 activities.
2. Applicants will be required to install all enhancements in the bundle wherever they are needed on the applied area.
3. Other enhancements cannot be substituted for those in the bundles.
4. Applicants choose the acres of their operation where they want to implement the bundle. If the applicant chooses to implement the activity on only a portion of their operation, their ranking and performance points will be reduced proportionally.
5. The amount of the bundle that can be scheduled cannot exceed the most limiting individual “system” enhancement scheduled.



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Follow the criteria in the respective enhancement activity sheets to implement each enhancement.

For this bundle implement ANM25, ANM26, ANM29, PLT16, and WQL07 according to their respective criteria on all of the area selected for bundle application.

Adoption Requirements

This enhancement is considered adopted when rules # 1 and 2 from “Rules for Enhancement Activity Bundles” above have been fulfilled.

Documentation Requirements

Follow the documentation requirements in the respective enhancement activity sheets to document the implementation of each enhancement.

In addition, document the actual amount, fields and when each enhancement in the bundle is implemented:

Enhancement Activity	Amount (unit)	Field(s) Number or Name	Year Applied
ANM25			
ANM26			
ANM29			
PLT16			
WQL07			

Pasture Enhancement Bundle –BPA09 (Addresses multiple resource concerns)



Enhancement Description

This bundle of enhancement activities includes: AIR04-Use drift reducing nozzles, low pressures, lower boom height, and adjuvants to reduce pesticide drift; ANM03-Incorporate native grasses and/or legumes into 15% or more of herbage dry matter productivity; ANM27-Wildlife friendly fencing; PLT16-Intensive rotational grazing, and WQL07-Split nitrogen applications 50% after the crops/pasture emerge/green-up.

Land Use Applicability

Pasture

Benefits

This bundle of enhancements is focused on activities that address all aspects of pasture management: pests, nutrients and forage quality while improving wildlife access to water. Implementing these activities together creates a synergy that should result in more conservation benefits than might be expected from the individual activities. Applicants that choose to implement this bundle of activities will receive an increase in ranking and activity points.

Conditions Where Enhancement Applies

This enhancement applies to all pasture land use acres.

Criteria

Bundle rules

1. All of the activities in the bundle must be implemented. However, if an applicant is already implementing 1 or 2 of the activities, they are still eligible for the bundle and only need to implement the remaining 3 or 4 activities.
2. Applicants will be required to install all enhancements in the bundle wherever they are needed on the applied area.
3. Other enhancements cannot be substituted for those in the bundles.
4. Applicants choose the acres of their operation where they want to implement the bundle. If the applicant chooses to implement the activity on only a portion of their operation, their ranking and performance points will be reduced proportionally.
5. The amount of the bundle that can be scheduled cannot exceed the most limiting individual “system” enhancement scheduled.



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Follow the criteria in the respective enhancement activity sheets to implement each enhancement.

For this bundle implement AIR04, ANM03, ANM27, PLT16, and WQL07 according to their respective criteria on all of the area selected for bundle application.

Adoption Requirements

This enhancement is considered adopted when rules # 1 and 2 from “Rules for Enhancement Activity Bundles” above have been fulfilled.

Documentation Requirements

Follow the documentation requirements in the respective enhancement activity sheets to document the implementation of each enhancement.

In addition, document the actual amount, fields and when each enhancement in the bundle is implemented:

Enhancement Activity	Amount (unit)	Field(s) Number or Name	Year Applied
AIR04			
ANM03			
ANM27			
PLT16			
WQL07			