

**ARIZONA DEPARTMENT OF WATER RESOURCES
BEST MANAGEMENT PRACTICES
AGRICULTURAL WATER CONSERVATION PROGRAM**



FACT SHEET – BMP PROGRAM

- ◆ FARM MUST QUALIFY – FOUR CATEGORIES OF BMPs
- ◆ OPERATOR VOLUNTARILY CHOOSES BMPs FROM AN APPROVED LIST
- ◆ OPERATOR VOLUNTARILY COMMITS TO USE APPROVED PRACTICES
- ◆ OWNER MUST AGREE TO ENROLL – AFFIDAVIT(S)

- ◆ FARM PLAN MAP IS REQUIRED
- ◆ ADWR MAY CHOOSE TO AUDIT PRACTICES – COMPLIANCE
- ◆ INTERIM PROGRAM TO 2010 – ONCE ENROLLED MUST STAY IN
A New Owner May Opt Out

- ◆ BMP ADVISORY COMMITTEE – *Farmers and District Managers*

- ◆ ALTERNATIVE TO THE BASE PROGRAM
- ◆ NO WATER ALLOTMENT
- ◆ FLEX CREDITS REMAIN UNCHANGED FOR DURATION OF ENROLLMENT
- ◆ FILE A SINGLE ANNUAL REPORT – FOR THE WHOLE BMP FARM

APPLYING FOR BMP ENROLLMENT

- ◆ CHOOSE THE IGRs YOU WISH TO ENROLL – THIS IS THE BMP FARM
- ◆ CHOOSE YOUR QUALIFYING BMPs IN FOUR CATEGORIES
- ◆ COMPLETE A BMP WORKSHEET – 10 POINTS REQUIRED
- ◆ COMPLETE THE BMP APPLICATION – *1 PAGE*
- ◆ SECURE THE OWNERS PERMISSION
Affidavit(s) From Owner(s) If Land Is Leased
- ◆ COMPLETE YOUR FARM PLAN MAP

**IRRIGATION MANAGEMENT SERVICE AND ADWR
WILL HELP YOU COMPLETE YOUR APPLICATION !**





JANICE K. BREWER
Governor

HERBERT R. GUENTHER
Director

ARIZONA DEPARTMENT OF WATER RESOURCES

3550 North Central Avenue, Second Floor
PHOENIX, ARIZONA 85012-2105

(602) 771-8500

**Application to Enroll in the Agricultural
Best Management Practices (BMP) Program**

-For Department Use Only-
Multiple Certificates
BMP Filing Number _____
Date Filed _____ Input _____

1. Name of Applicant _____
2. _____
Mailing Address _____ City _____ State _____ Zip _____
3. Contact Person _____ Telephone _____ Fax _____
4. Farm or farm unit name (if applicable). _____
5. Active Management Area (AMA) in which the farm or farm unit is located? _____
6. Enter all of the IGFR certificate numbers that pertain to the farm unit that is being applied for in this application and circle whether each IGFR is owned or leased.
 - 58-_____._____ owned / leased • 58-_____._____ owned / leased
 - 58-_____._____ owned / leased • 58-_____._____ owned / leased
 - 58-_____._____ owned / leased • 58-_____._____ owned / leased

Note: The Department will review the IGFR certificate numbers listed above to determine the current flexibility account balances. Each IGFR must be in compliance with the Department's flexibility account provisions before it can be eligible for the BMP Program.

7. Complete the BMP Worksheet and attach it to this application. The BMP Worksheet must be filled out completely. Any omissions will invalidate this application.
- 8a. Enter the total point value calculated on the BMP Worksheet for the farm or farm unit: _____.

*If the total point value calculated on the BMP Worksheet is **less than 10 points**, the farm or farm unit is **not eligible** for enrollment in the BMP Program*

- 8b. Enter the point value calculated under Category 2 of the BMP Worksheet: _____.

*If the point value in Category 2 of the BMP Worksheet is **less than 2 points**, the farm or farm unit is **not eligible** for enrollment in the BMP Program.*

9. In order for the Department to verify your farm or farm unit's eligibility for enrollment in the BMP Program, you are required to submit with this application the following items:
- A current farm plan map showing all existing improvements to the farm unit's water conveyance system and farm irrigation systems.
 - If the applicant is a lessee, a signed affidavit from the owner of each IGFR stating that the owner agrees to regulation under the BMP Program until the effective date of any substitute conservation requirements established in the Fourth Management Plan.

If you have any questions pertaining to this application or with respect to the Department's Agricultural Best Management Practices Program please consult your local AMA representative.

10. The individual or entity applying for entrance in the BMP Program must sign and date the application below. By signing this application, the applicant certifies that all of the information provided is true and accurate to the best of his or her knowledge and belief, and that the applicant will comply with the requirements of the Best Management Practices Program as defined.

Name (Please Print)

Title

Signature

Date

**Agricultural Best Management Practices (BMP)
Program
Application Form Instruction Sheet**

This instruction sheet is designed to assist you in completing the BMP Application Form to request enrollment of a farm or farm unit into the Department's Agricultural Best Management Practices (BMP) Program. If you have questions that are not answered by these instructions, please call your local AMA office for assistance.

1. Provide your full name or the name of the entity applying for entrance into the BMP Program.
2. Include the mailing address and zip code.
3. Include the name of a contact person that would be available to answer questions pertaining to the application that is being filed. Please include a daytime phone number and Fax number.
4. Provide the name of your farm or farm unit if applicable.
5. Indicate the AMA in which your farm or farm unit is located.
6. List the IGFR 58-number(s) that make up the farm or farm unit that is being applied for in your BMP application. Also, for each IGFR listed indicate whether it is owned or leased by the applicant. (Note: If additional space is needed please attach a separate sheet of paper). Please note the following definitions:

A "farm" is defined as an area of irrigated land which is under the same ownership, which is served by a water distribution system common to the irrigated land and to which can be applied common conservation water measurement and water accounting procedures.

A "farm unit" is defined in the Phoenix, Pinal, Prescott, and Tucson AMAs as one or more farms that are irrigated with groundwater and which are contiguous or in proximity to each other with similar soil conditions, crops and cropping patterns.

A "farm unit" in the Santa Cruz AMA is defined as one or more farms which are irrigated with water, other than stored water, withdrawn from a well and which are contiguous or in proximity to each other with similar soil conditions, crops and cropping patterns.

It should be noted that before an applicant can be approved for enrollment into the BMP Program, the applicant must:

- Ensure that each IGFR is not in violation with the flexibility account provisions. An IGFR's flexibility account debits cannot be in excess of 50

percent of its annual groundwater allotment. A flex debit account in excess of this amount must be eliminated by either accumulating or transferring flexibility account credits in an amount equal to or greater than the existing debit violation.

- Understand that the existing flexibility account balance associated with each IGFR accepted into the BMP Program will be frozen as long as the IGFR remains in the BMP Program.
7. Complete and attach the BMP Worksheet to the your application. When filling out the BMP Worksheet, please refer to the separate set of instructions for completing the worksheet.
 - 8a. Enter the BMP Worksheet total point value. If you did not score at least 10 points in total you are not eligible for entry into the BMP Program.
 - 8b. Enter the point value calculated under Category 2 of the BMP Worksheet. If you scored less than 2 points under this Category, you are not eligible for entry into the BMP Program.
- If you are not eligible, you may want to consult with your local AMA representative to help determine your future options regarding entrance into the BMP Program.
9. Before the Department can approve your application for entry into the BMP Program the applicant must provide the information required to be submitted under Item 9.
 10. The applicant must sign and provide all information as requested in the BMP Enrollment Application. By signing and submitting the application to the Department, the applicant has certified that the information provided in the application is true and correct, and that if accepted by the Department into the BMP Program, the applicant must comply with the requirements of the BMP Program.

-----AMA Offices-----

Phoenix AMA

3550 N. Central Ave.
Phoenix, AZ 85012
Phone: 602.771.8500
Fax: 602.771.8486

Pinal AMA

1729 N. Trezell Rd. Suite 105
Casa Grande, AZ 85122
Phone: 520.836.4857
Fax: 520.836.9208

Prescott AMA

2200 E. Hillside Road
Prescott, AZ 86301
Phone: 928.778.7202
Fax: 928.776.4507

Tucson AMA

400 W. Congress, Suite 518
Tucson, AZ 85701
Phone: 520.770.3800
Fax: 520.628.6759

Santa Cruz AMA

857 W. Bell Road, Suite 3
Nogales, AZ 85621
Phone: 520.761.1814
Fax: 520.761.1869

**APPENDIX 4B
BEST MANAGEMENT PRACTICES PROGRAM
APPROVED BEST MANAGEMENT PRACTICES**

BMP CATEGORY 1. WATER CONVEYANCE SYSTEM IMPROVEMENTS	
Description: A farm’s water conveyance system allows water to be conveyed from an irrigation district delivery point or a well head for irrigation of each field. This category includes water conveyance system improvements that qualify as approved BMPs.	
Approved Water Conveyance Improvements	
BMP 1.1 Concrete-lined ditch	A means of transporting water to farm fields via a concrete-lined ditch in order to minimize transmission losses through seepage.
BMP 1.2 Pipelines	Any type of low or high-pressure pipeline used to convey water to a farm field in order to reduce or eliminate water loss prior to the act of irrigation. Pipelines may be constructed of PVC, ABS, concrete, aluminum, and or steel.
BMP 1.3 Drainback system	Level irrigation system technology utilizing headland channel conveyance which is designed and maintained to “drain” excess water applications from one irrigated field to the next down gradient field.
Point Value Determination for BMP Category 1	
An applicant for the BMP Program must select one or more of the water conveyance system improvement BMPs described above in the application for the BMP Program. A BMP may be selected only if it is being implemented on the farm at the time the application is filed. The total points for the BMP or BMPs selected in this category shall be calculated by estimating the percentage of the farm’s irrigated acreage served by the selected BMP or BMPs, and then determining the point value for that percentage in the table below. For purposes of this determination, “irrigated acreage” means those acres within the farm that will be irrigated while the applicant is regulated under the BMP Program. If the applicant selects more than one BMP in this category, an acre shall not be counted twice in determining the total percentage of the farm’s irrigated acreage served by the BMPs. In this category, the maximum number of points allowed is three and the minimum number is one.	

Category 1: Water Conveyance System – Point Table	
Percentage of the farm’s total irrigated acreage served by the approved BMPs	Point Value
50-54	1.0
55-59	1.2
60-64	1.4
65-69	1.6
70-74	1.8
75-79	2.0
80-84	2.2
85-89	2.4
90-94	2.6
95-99	2.8
100	3.0

APPENDIX 4B
BEST MANAGEMENT PRACTICES PROGRAM
APPROVED BEST MANAGEMENT PRACTICES

BMP CATEGORY 2. FARM IRRIGATION SYSTEMS	
Description: Farm irrigation systems are the methods by which a farm field is irrigated. Farm irrigation systems include slope, modified slope, level or near level, sprinkler, trickle or drip, or any combination thereof. This category includes farm irrigation systems that qualify as approved BMPs.	
Approved Farm Irrigation Systems	
BMP 2.1	Slope systems without uniform grades with tailwater reuse - (1 Point) Definition: Sloped fields without uniform grades with a constructed recovery system that allows for the reuse of water that runs off the end of the field after an irrigation event.
BMP 2.2	Uniform slope systems without tailwater reuse - (1 Point) Definition: Sloped fields that have been engineered to uniform grades with no means of reusing the water that runs off the end of the field after an irrigation event.
BMP 2.3	Uniform slope systems with tailwater reuse - (2 Points) Definition: Sloped fields that have been engineered to uniform grades with a constructed recovery system that allows for the reuse of water that runs off the end of the field after an irrigation event.
BMP 2.4	Uniform slope within an irrigation district that captures and redistributes return flows - (2 Points) Definition: Sloped fields that have been engineered to uniform grades enabling an irrigation district to collect the water that leaves a farm field after an irrigation event for distribution to another farm field.
BMP 2.5	Modified slope systems - (2 Points) Definition: Sloped fields that have been engineered to uniform grades in the upper portion of the field, with the bottom portion generally having a field slope of 0.0 to 0.2 feet of total fall in the direction of irrigation. All irrigation water is retained on the field.
BMP 2.6	High pressure sprinkler systems - (2 Points) Definition: Side-roll, linear, center-pivot, and solid set designs that operate at mainline water pressures of 10 pounds per square inch (psi) or more.
BMP 2.7	Near level systems - (2.5 Points) Definition: Sloped fields that have been engineered to uniform grades between 0.2 to 0.5 feet of total fall in the direction of irrigation over the entire length of the field. All irrigation water is retained on the field.
BMP 2.8	Level systems - (3 Points) Definition: Level border or level furrow system where the field slope may vary from 0.0 to 0.2 feet of total fall in the direction of irrigation over the entire length of the field. Either all irrigation water is retained on the field or a level drainback system is used.
BMP 2.9	Low pressure sprinkler systems - (3 Points) Definition: Linear and center-pivot sprinkler designs that operate at water pressures measured at the high end of the mainline of no greater than 10 psi.
BMP 2.10	Trickle irrigation systems - (3 Points) Definition: Pressurized drip or subsurface irrigation capable of applying precise amounts of water to the crop root zone (also referred to as drip irrigation).

**APPENDIX 4B
BEST MANAGEMENT PRACTICES PROGRAM
APPROVED BEST MANAGEMENT PRACTICES**

Point Value Determination for BMP Category 2
<p>An applicant for the BMP Program must select one or more of the farm irrigation systems BMPs described above in the application for the BMP Program. A BMP may be selected only if it is being implemented on the farm at the time the application is filed. The points for a BMP selected in this category shall be calculated by multiplying the points assigned to the BMP as shown above by the percentage of the farm's irrigated acreage served by the irrigation system described in the BMP. For purposes of this determination, "irrigated acreage" means those acres within the farm that will be irrigated while the applicant is regulated under the BMP Program. If the applicant selects more than one BMP in this category, an acre shall not be counted twice in determining the total percentage of the farm's irrigated acreage served by the BMPs. In this category, the maximum number of points allowed is three and the minimum number is two.</p>

BMP CATEGORY 3. IRRIGATION WATER MANAGEMENT
<p>Description: Irrigation water management practices include management practices that, when implemented properly, will increase a farm's overall efficiency of water application in a growing season. This category includes irrigation water management practices that qualify as approved BMPs.</p>
Approved Irrigation Water Management Practices
<p>BMP 3.1 Laser touch-up - (1 Point) Definition: Annual re-establishment of precision laser grades to ensure good advancement of applied irrigation water. Must be applied to a minimum of 20 percent of the near level and level basin acreage irrigated the prior year.</p>
<p>BMP 3.2 Alternate row irrigation - (1 Point) Definition: The practice of irrigating every other cultivated row during either single or multiple irrigation events to minimize the surface area of applied water. Annually, must be used on at least 20 percent of the acreage irrigated in row crops for at least one irrigation.</p>
<p>BMP 3.3 Furrow checks - (1 Point) Definition: Manually applied or installed devices placed in rows to raise the water level in the row reducing the velocity to prevent erosion and enhance infiltration rates. Annually, must be used on at least 20 percent of irrigated acreage for at least one irrigation.</p>
<p>BMP 3.4 Angled rows/contour farming - (1 Point) Definition: Annual practice of reducing row fall through row angling and/or contouring to enhance water advancement and infiltration rates. This practice may also minimize or eliminate tailwater runoff. Annually, must be used on at least 20 percent of irrigated acreage.</p>
<p>BMP 3.5 Surge irrigation - (1 Point) Definition: The practice of applying irrigation water to a field by intermittent surges or pulses of water rather than by a continuous flow rate. The irrigation water advances down the field (or furrow), in stages, allowing uniform water penetration and avoiding tailwater runoff. A gradual sealing and soil conditioning occurs with each progressive surge allowing a more efficient water application. Annually, must be used on at least 20 percent of irrigated acreage.</p>

**APPENDIX 4B
BEST MANAGEMENT PRACTICES PROGRAM
APPROVED BEST MANAGEMENT PRACTICES**

Approved Irrigation Water Management Practices (BMP Category 3 cont.)
<p>BMP 3.6 Temporary sprinklers - (1 Point) Definition: Utilization of portable, roller and/or solid set sprinkler system for meeting pre-irrigation needs, seedling germination to establish a crop, and/or pre-harvest irrigation for maintaining crop quality. This practice reduces water use when compared to conventional flood irrigation techniques that require excessive water applications for seedling germination and/or crop quality. Annually, must be used on at least 20 percent of irrigated acreage.</p>
<p>BMP 3.7 Participation in an educational irrigation water management program - (1 Point) Definition: Enrollment in a private or Department sponsored educational irrigation water management program that includes irrigation water management topics such as soil water replacement needs, application rates, and irrigation scheduling. Annually, must participate in such a program throughout the entire crop season.</p>
<p>BMP 3.8 Participation in a consultant or irrigation district sponsored irrigation scheduling service - (1 Point) Definition: Enrollment in a consultant or Department sponsored irrigation scheduling service that provides recommendations on soil moisture monitoring, soil water replacement needs, irrigation application rates, and irrigation scheduling dates based on soil moisture monitoring or real-time evapotranspiration data. Annually, must participate in such a program throughout the entire crop season.</p>
<p>BMP 3.9 Participation in an irrigation district program to increase the flexibility of water deliveries - (1 Point) Definition: Enrollment in a cooperative program set up by the irrigation district to assist a farmer with timely irrigation deliveries and shut off, constant flow rates, and other water order guidelines developed by the irrigation district. Annually, must participate in such a program throughout the entire crop season.</p>
<p>BMP 3.10 Measure flow rates to determine the amount of water applied - (1 Point) Definition: Measure flow rates to determine the amount of water applied for each irrigation event on each field for the purpose of achieving good application efficiencies.</p>
<p>BMP 3.11 Soil moisture monitoring - (1 Point) Definition: Use of a number of accepted methods to monitor/measure soil moisture for the purpose of determining soil water replacement needs, application rates, and irrigation scheduling on each field (accepted methods may include core sampling, resistance blocks, neutron probe, tensiometers) throughout the entire crop season.</p>
<p>BMP 3.12 Computer based model using meteorological data - (1 Point) Definition: Use of a computer based irrigation scheduling program that incorporates real-time meteorological data (e.g. AZMET) for the purpose of determining irrigation event schedules on each field throughout the entire crop season.</p>
Substitute Irrigation Water Management Practices
<p>Substitute Practice - (1 Point) Definition: A new or existing irrigation water management practice not listed above that the director determines will likely result in water savings on the farm at least equivalent to the water savings that would result from implementation of one of the approved BMPs described in this category.</p>

APPENDIX 4B
BEST MANAGEMENT PRACTICES PROGRAM
APPROVED BEST MANAGEMENT PRACTICES

Point Value Determination for BMP Category 3
An applicant for the BMP Program must select one or more of the irrigation water management BMPs described above in the application for the BMP Program. A BMP may be selected only if it will be implemented on an annual basis while the applicant is regulated under the BMP Program. In this category, the maximum number of points allowed is three and the minimum number is one.

CATEGORY 4. AGRONOMIC MANAGEMENT
Description: Agronomic management practices include combinations of plant and soil management practices that, if implemented properly, will conserve water over the length of the growing season. This category includes agronomic management practices that qualify as approved BMPs.
Approved Agronomic Management Practices
BMP 4.1 Crop rotation - (1 point) Definition: Periodic rotation of crop types on a given farm field to ensure the non-degradation of soil tilth. Annually, at least 20 percent of the acreage irrigated the prior year needs to be rotated to a different crop.
BMP 4.2 Crop residue management - (1 point) Definition: Incorporation of crop residue into the soil profile to increase soil nutrients, soil water holding capacities, and increase the available soil moisture to a crop. Annually, must be employed on at least 20 percent of the total irrigated acreage.
BMP 4.3 Soil and water quality testing - (1 point) Definition: Annual soil testing to determine: 1) residual amounts of fertilizer, 2) soil salinity for leaching needs, and 3) water intake rates and water holding capacity. Soil testing is required on at least 50 percent of the irrigated acreage. Water quality testing for needs such as estimating leaching requirements or avoiding potential injury to crops. Testing must include a “blend” analysis of irrigation water used from all sources.
BMP 4.4 Pre-irrigation surface conditioning - (1 point) Definition: Mechanical means (i.e. driving rows, soil torpedoes, etc.) by which rows or borders are prepared prior to an initial irrigation to smooth flow of water to avoid unwanted deep percolation during dry conditions or to enhance water advancement rates. Annually, must be used on at least 20 percent of irrigated acreage.
BMP 4.5 Transplants - (1 point) Definition: Use of established seedlings transplanted into a field. This practice eliminates excessive applications of water to germinate crops in the field from seeds. Annually, must be used on at least 20 percent of irrigated acreage.
BMP 4.6 Mulching - (1 point) Definition: Use of organic matter or plastic sheets to cover plant beds (plastic mulch) and/or use of plastic material laid over hoops suspended above the plant beds (floatable row covers) to reduce evaporation losses. Annually, must be used on at least 20 percent of irrigated acreage.
BMP 4.7 Shaping furrow or bed - (1 point) Definition: Use of mechanical means such as a row former to make the bed profile more shallow to minimize time of infiltration and minimize the wetted surface area along the rows. Annually, must be used on at least 20 percent of irrigated acreage.

APPENDIX 4B
BEST MANAGEMENT PRACTICES PROGRAM
APPROVED BEST MANAGEMENT PRACTICES

Approved Agronomic Management Practices (BMP Category 4 cont.)
BMP 4.8 Planting in bottom of furrow - (1 point) Definition: Practice of planting in the bottom of the furrow as opposed to planting along the top of the row bed to minimize impacts of salt build up and wetting (subbing) requirements for germination. Annually, must be used on at least 20 percent of irrigated acreage.
Substitute Agronomic Management Practices
Substitute Practice - (1 Point) Definition: A new or existing agronomic management practice not listed above that the director determines will likely result in water savings on the farm at least equivalent to the water savings that would result from implementation of one of the approved BMPs described in this category.
Point Value Determination for Category 4
An applicant for the BMP Program must select one or more of the agronomic management BMPs described above in the application for the BMP Program. A BMP may be selected only if it will be implemented on an annual basis while the applicant is regulated under the BMP Program. In this category, the maximum number of points allowed is three and the minimum number is one.

INSTRUCTIONS FOR BMP WORKSHEET

Please use this instruction sheet when completing the BMP Worksheet. Refer to the attached BMP definitions when determining your BMP point values.

A. BMP Worksheet

The BMP Worksheet is organized in 4 categories. Each category allows the accumulation of up to 3 points. Category 2 (Farm Irrigation Systems) requires a minimum value of 2 points to be eligible for entering the BMP program. A total value of 10 or more points is required to be eligible for enrollment in the BMP program.

BMP Category 1: Water Conveyance System Improvements

A farm's water conveyance system allows water to be conveyed from an irrigation district delivery point or a wellhead for irrigation of each field. This category includes water conveyance system improvements that qualify as approved BMPs.

In the BMP Worksheet, Category 1 evaluates the condition of the water conveyance system that carries irrigation water from a district delivery point or wellhead to the farm field. Refer to the **Water Conveyance System - Point Table** in Part B below to determine point value in Category 1 for the farm or farm unit. The maximum number of points allowed in this category is 3.

BMP Category 2: Farm Irrigation Systems

Farm irrigation systems are the methods by which a farm field is irrigated. Farm irrigation systems include slope, modified slope, level or near level, sprinkler, trickle or drip, or any combination thereof. This category includes farm irrigation systems that qualify as approved BMPs.

In the BMP Worksheet, Category 2 evaluates the type of irrigation system(s) currently employed on your farm. The percentage of irrigation system(s) used for this category cannot exceed 100 percent. This category requires a minimum of two points to be eligible for enrollment in the BMP program. The maximum number of points allowed in this category is 3.

BMP Category 3: Irrigation Water Management (IWM)

Irrigation water management practices include management practices that, when implemented properly, will increase a farm's overall efficiency of water application in a growing season. This category includes irrigation water management practices that qualify as approved BMPs.

In the BMP Worksheet, Category 3 evaluates the irrigation water management practices that will be implemented on-farm. The applicant must identify which of the approved BMPs will be implemented on an annual basis while enrolled in the program. The maximum number of points allowed in this category is 3.

BMP Category 4: Agronomic Management

Agronomic management practices include combinations of plant and soil management practices that, if implemented properly, will conserve water over the length of the growing season. This category includes agronomic management practices that qualify as approved BMPs.

In the BMP Worksheet, Category 4 evaluates the agronomic management practices that will be implemented on-farm. The maximum number of points allowed in this category is 3.

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Note: Applicants may elect to exclude a portion or portions of an IGFR when enrolling in the BMP Program. The excluded portion will not count towards the calculation of irrigable acreage in Category 1 or the Farm Irrigation System percentage in Category 2. However, the excluded portion may not be irrigated so long as the IGFR is enrolled in the BMP Program. A farm map designating the excluded acreage must be submitted with the application.

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B. Water Conveyance System - Point Table

This Table is to be used to complete Category 1 in the BMP Worksheet

Percent of Water Conveyance System Improvements	Point Value
50-54	1.0
55-59	1.2
60-64	1.4
65-69	1.6
70-74	1.8
75-79	2.0
80-84	2.2
85-89	2.4
90-94	2.6
95-99	2.8
100	3.0

AGRICULTURAL BEST MANAGEMENT PRACTICES PROGRAM BMP WORKSHEET

(Refer to the attached Instructions and BMP Definitions while completing this worksheet)

Farm Name: _____ Associated IGFR 58-Number(s): _____ _____	Percentage of Farm Served by Conservation Practice	Points
Category 1: Water Conveyance System Improvements (Total Allowable Points = 3)		
Enter the total percentage of irrigable acreage that is served by any combination of the following types of water conveyance systems: Approved BMPs are concrete-lined ditches, pipelines, or drainback systems.		
1a. Total Percentage:	%	
1b. Enter the BMP point value from the Water Conveyance System - Point Table (found on Part B of the BMP Worksheet Instructions) for the total percentage entered on line 1a above.		
Category 2: Farm Irrigation Systems (Minimum Allowable Points = 2; Total Allowable Points = 3)		
Enter the percentage of each type of irrigation system on your farm and calculate the points accordingly. Total cannot exceed 100 percent.		
Slope systems without uniform grades = 0 points.	% x 0 =	0
2.1 Slope systems without uniform grades with tailwater reuse = 1 point	% x 1 =	
2.2 Uniform slope systems without tailwater reuse = 1 point.	% x 1 =	
2.3 Uniform slope systems with tailwater reuse = 2 points.	% x 2 =	
2.4 Uniform slope systems within an irrigation district that captures and redistributes return flows = 2 points	% x 2 =	
2.5 Modified slope systems = 2 points.	% x 2 =	
2.6 High pressure sprinkler systems = 2 points.	% x 2 =	
2.7 Near level systems = 2.5 points	% x 2.5 =	
2.8 Level systems = 3 points.	% x 3 =	
2.9 Low pressure sprinkler systems = 3 points.	% x 3 =	
2.10 Trickle irrigation systems = 3 points.	% x 3 =	
Enter the total point value from Category 2. Subtotal must be a minimum of 2 points and cannot exceed 3 points. (If subtotal is less than 2, the farm or farm unit is not eligible for enrollment in the BMP Program)	100%	
Add the point value from Category 1 (line 1b) to the subtotal from Category 2 and enter here.	SUBTOTAL: (Categories 1 & 2)	

Category 3: Irrigation Water Management (IWM) (Total Allowable Points = 3)		POINTS
<i>Enter points based on the following IWM Practices used or to be implemented.</i>		
3.1 Laser touch-up = 1 point		
3.2 Alternate row irrigation = 1 point		
3.3 Furrow checks = 1 point		
3.4 Angled rows/contour farming = 1 point		
3.5 Surge irrigation = 1 point		
3.6 Temporary sprinklers = 1 point		
3.7 Participation in an educational irrigation water management program = 1 point		
3.8 Participation in a consultant or irrigation district sponsored irrigation scheduling service = 1 point		
3.9 Participation in an irrigation district program to increase the flexibility of water deliveries = 1 point		
3.10 Measure flow rates to determine amount of water applied = 1 point		
3.11 Soil moisture monitoring = 1 point		
3.12 Computer based model using meteorological (e.g. AZMET) data = 1 point		
Enter the total point value from Category 3 (up to a maximum of 3 points).	SUBTOTAL: (Category 3)	
Category 4: Agronomic Management (Total Allowable Points = 3)		
<i>Enter points based on the following Agronomic Practices used or to be implemented.</i>		
4.1 Crop Rotation = 1 point		
4.2 Crop Residue Management = 1 point		
4.3 Soil and/or Water Quality Testing = 1 point		
4.4 Pre-Irrigation Surface Conditioning = 1 point		
4.5 Transplants = 1 point		
4.6 Mulching = 1 point		
4.7 Shaping Furrow or Bed = 1 point		
4.8 Planting in Bottom of Furrow = 1 point		
Enter the total point value from Category 4 (up to a maximum of 3 points).	SUBTOTAL: (Category 4)	
Add the subtotals from Categories 3 and 4 above.		SUBTOTAL: (Categories 3 & 4)
Enter the subtotals from Categories 1 and 2 from page 1.		SUBTOTAL: (Categories 1 & 2)
Add subtotals of Categories 1,2,3, & 4 and enter total points. Total points must equal 10 or greater to be eligible for the Best Management Practices Program.		TOTAL: (Categories 1,2,3,4)

**AFFIDAVIT OF IGFR OWNER AGREEING TO REGULATION UNDER
BEST MANAGEMENT PRACTICES PROGRAM OF TMP**

INSTRUCTIONS

1. Complete form (type or print in ink), sign and have signature notarized.
2. Affidavit must be signed by the current owner of the IGFR or a person authorized to sign on the owner's behalf. If affidavit is signed by a person other than the IGFR owner, ADWR may require written evidence of authority to sign on the owner's behalf. If there are multiple owners, each owner must complete a separate affidavit.

STATE OF _____)
) ss.
COUNTY OF _____)

I, _____, the undersigned, being first duly sworn on oath, depose and state as follows:

1. Certificate of Irrigation Grandfathered Right No. 58- _____ ("IGFR") is owned as follows: (check one):
___ By me (in my name only or with one or more other persons).
___ By _____ (name of IGFR owner) and I have authority to sign this affidavit on behalf of the IGFR owner.
2. The IGFR is currently being leased to _____ ("Lessee").
3. The IGFR owner agrees that Lessee may apply to the Arizona Department of Water Resources ("ADWR") for regulation under the Best Management Practices ("BMP") Program of the Third Management Plan ("TMP") with respect to the IGFR. The IGFR owner understands that if the application is approved by ADWR, the land to which the IGFR is appurtenant will be enrolled in the BMP Program and the IGFR owner and lessee will be regulated under the BMP Program as provided in section 4-104 of the TMP until the effective date of the agricultural conservation requirements in the Fourth Management Plan. The IGFR owner also understands that the balance in the IGFR's flex account will remain unchanged while the land is enrolled in the BMP Program (credits and debits will not be registered to the account and credits may not be transferred to or from the account).

Signature

Title (if applicable)

Subscribed and sworn to before me, this ____ day of _____, 200__ by _____.

Notary Public

My Commission Expires

SEAL

BMP Program Field Fallowing Agreement

My farm unit under BMP Application Number _____ did not meet the minimum point requirements under Category 2 Farm Irrigation Systems. The farm unit consists of the following IGFRs.

58-_____.	58-_____.
58-_____.	58-_____.
58-_____.	58-_____.

If more than six IGFRs list them on the back of the this sheet

This farm unit made up of the above referenced IGFRs did not qualify for the BMP Program due to the following fields that are highlighted on the attached Farm Plan Map.

As part of my application for the BMP Program, I agree to the following:

1. That the fields highlighted on the attached Farm Plan Map (“highlighted fields”) will not be included when calculating the qualifying points for enrollment of the farm unit in the BMP Program pursuant to this application.
2. That if this application is approved, I will fallow (not irrigate) the highlighted fields while the farm unit is regulated under the BMP Program in the Third Management Plan, except as provided in paragraph 3 below.
3. That if any of the highlighted fields are physically improved while the farm unit is regulated under the BMP Program in the Third Management Plan, I may apply to the director for a modification of the BMP Program requirements for the farm unit to include the improved field or fields, but I shall not irrigate the field or fields unless the director approves the application.
4. That if any of the highlighted fields are irrigated while the farm unit is regulated under the BMP Program in the Third Management Plan, the irrigation will constitute a major violation of the BMP Program and shall result in a compliance action, unless the director approved an application to include the field or fields in the BMP Program pursuant to paragraph 3 above.

The individual or entity applying for entrance in the BMP Program must sign and date this following agreement below. By signing this agreement, the individual or entity certifies that they have read this agreement and will comply with its terms during the time the farm unit is regulated under the BMP Program in the Third Management Plan.

Name (Please Print)

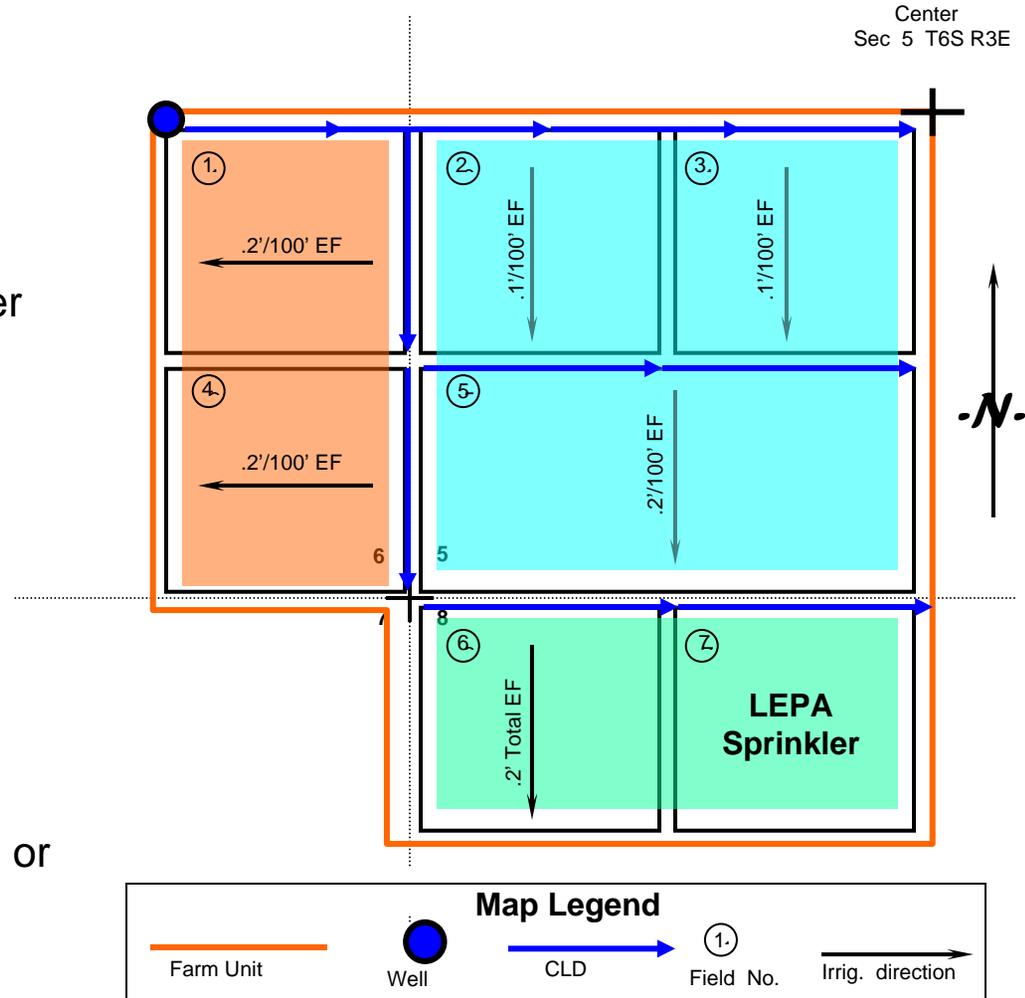
Title

Signature

Date

Farm Plan Map

- Identify the IGFRs that make up the BMP farm unit
- Annotate the field numbers within the BMP farm unit
- Plot the sources of water and the water conveyance system (include tailwater reuse systems)
- Annotate the direction of irrigation for each field
- Indicate the slope of each field in the direction of irrigation (end-fall)
- Indicate where sprinkler (include type) or drip systems are used



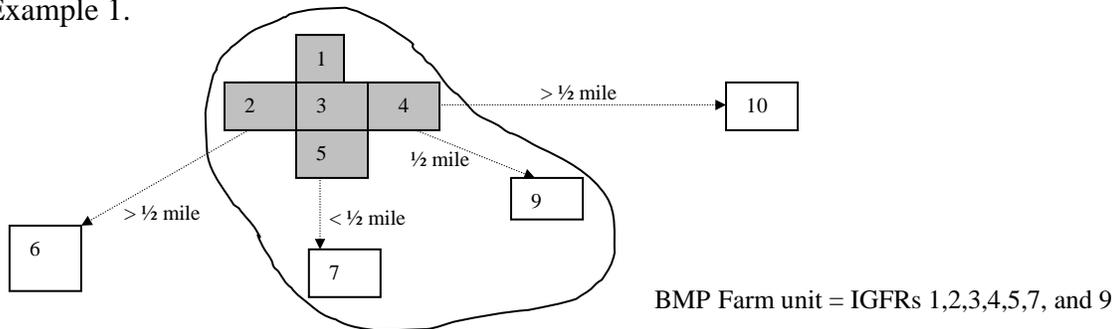
Farm Units under the BMP Program

For purposes of regulation under the BMP Program "farm unit" is defined in A.R.S. 45-402(11). As further clarification of the requirement that farms (IGFRs) within a farm unit be contiguous or in proximity to each other, the Department will allow one or more contiguous IGFRs with multiple fields having a common water distribution system to be included in the same farm unit. Other IGFRs may also be included as part of the farm unit so long as such IGFRs are located within a half-mile of the fields served by the common distribution system.

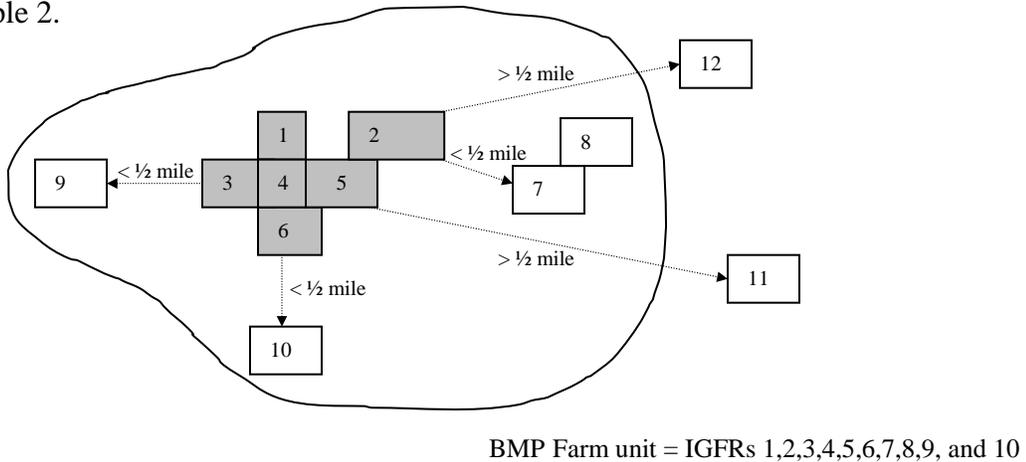
Note: The director may allow inclusion of an IGFR at a greater distance than a half-mile from the field served by the common water distribution system, if it is determined that by including the IGFR, it better facilitates the implementation of agricultural conservation practices under the BMP Program.

Selected examples of possible farm units:

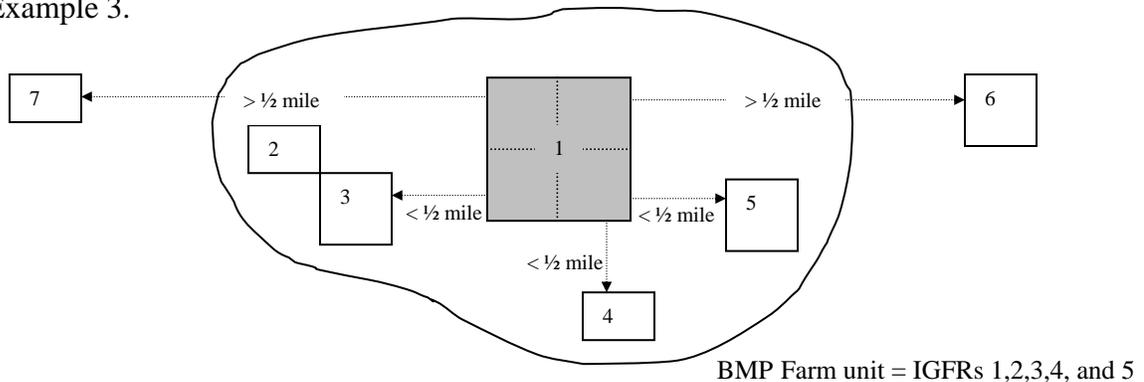
Example 1.



Example 2.



Example 3.



ADWR

SUGGESTED METHODS OF EVIDENCING THE ANNUAL APPLICATION OF AGRICULTURAL BMPs FOR BMP PROGRAM ENROLLEES

		Signed statement from Enrollee	Receipts and purchase orders	Agreements	Records, notes, certificates, or maps	Photo confirmation	Possession of specialized equipment	IMS or WCMP Verification
BMP 3.1	Laser touch-up	▲	▲				▲	▲
BMP 3.2	Alternate row irrigation					▲	▲	▲
BMP 3.3	Furrow checks					▲		▲
BMP 3.4	Angled rows					▲		▲
BMP 3.5	Surge irrigation	▲					▲	▲
BMP 3.6	Temporary sprinklers		▲			▲		▲
BMP 3.7	Participation in an educational IWM program			▲	▲			▲
BMP 3.8	Participation in a consultant or I.D. sponsored irrigation scheduling service			▲				
BMP 3.9	Participation in an I.D. program to increase flexibility of water deliveries			▲				
BMP 3.10	Measure flow rates to determine the amount of water applied				▲			▲
BMP 3.11	Soil moisture monitoring				▲			▲
BMP 3.12	Computer-based modeling using meteorological data				▲		▲	▲
	Substitute IWM Practice	--	--	--	--	--	--	--
BMP 4.1	Crop rotation				▲			▲
BMP 4.2	Crop residue management				▲	▲		▲
BMP 4.3	Soil and water quality testing				▲			
BMP 4.4	Pre-irrigation surface conditioning					▲		▲
BMP 4.5	Transplants	▲	▲					▲
BMP 4.6	Mulching		▲			▲		▲
BMP 4.7	Shaping furrow or bed					▲	▲	▲
BMP 4.8	Planting in bottom of furrow					▲		▲
	Substitute Agronomic Management Practice	--	--	--	--	--	--	--

Note: Evidencing requirements for Substitute BMPs will be determined after the BMP is approved by the Director

Agricultural BMP Program

Proposed Enforcement Policy for Non-Compliance

Philosophy

The Department expects BMP Program participants to implement the conservation measures as agreed to on the BMP enrollment form. In the event of non-compliance, the Department's preference for this Interim Program is to work cooperatively with the responsible party (usually the operator) to come into compliance in a timely and appropriate manner. In taking specific compliance action, the Department will consider the following:

- The severity of the infraction
- Whether it is the first, second or third offense
- Whether the infraction was self-reported
- Other reasonable extenuating circumstances

Responsible Party

In situations of non-compliance, the Department will seek to identify who bears responsibility for that non-compliance. The presumptive responsible party for compliance shall be the person or persons using groundwater pursuant to the enrolled rights (i.e., the operator).

Actions

The Department has developed proposed compliance remedies that include informational, educational and water management benefit components. The proposed compliance actions may include:

- Sending a notice of non-compliance to all parties
- Requiring a conservation audit/review
- Requiring 'extra' conservation measures
- Requiring a water management contribution
- De-enrolling the participant from the BMP Program for the duration of Third Management Period.

The Department also reserves the right to pursue civil penalties against the responsible party if the non-compliance is both serious and intentional.