Council of Producers & Distributors of Agrotechnology

BECAUSE
ADVOCACY MATTERS

Application Enhancement Certification Program FAQs

What is the Application Enhancement Certification program?

The AEC program recognizes that drift control without biological efficacy is not a successful application and is designed to provide a more complete picture of the likely outcome of the application. This is achieved by highlighting the interactions between pesticide formulation type, various nozzle designs and adjuvant selection. The information provided through this program will provide applicators / users with an easy to understand visual of how to best manage nozzle and adjuvant selection based on the formulation type of the pesticides to be applied.

Do companies submitting products for certification need to be members of CPDA?

No. Nonmembers can submit any product that is a CPDA Certified Adjuvant for testing.

Are there any prerequisites for products to be submitted for certification?

All products submitted must already be CPDA Certified Adjuvants.

Does the AEC program replace "adjuvant approvals" required by basic manufacturers?

No. While the data collected is a factual finding of how various application parameters affect droplet size and droplet size distributions for each treatment, in no way should the data generated be used to supersede the label requirement for a given pesticide.

What information is generated by the AEC program?

There are two different sets of valuable information generated for Application Enhancement Certified adjuvants.

The **On-Target Performance & Off-Target Risk** information can be used to show:

1) the amount of spray solution in the "Effective", on-target range.
2) the percentage of spray solution at of being ineffective or at risk of moving off-target. "Too Small"
3) the overall spray quality rating, which may be useful in determining in meeting CPP product application guidelines or if a reduced buffer zone is appropriate.

Each droplet found in this pictogram contains two numbers and the ASABE S572.3 spray quality categorization.

In this pictogram the **top number** represents the percentage of spray volume made up of "**Effective"** droplet sizes between ~ 160 and 840 microns.

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The **letters in the middle** of the droplet represent the overall Spray Quality produced by the adjuvant, nozzle and pesticide formulation category. Spray quality refers to the Internationally Standardized Droplet Size Classification (ASABE S572.3). In this standard, the droplet size spectrum produced by a nozzle is classified as XF (extremely fine), VF (very fine), F (fine), M (medium), C (coarse), VC (very coarse), XC (extremely coarse), and UC (ultra coarse).

The **number at the bottom** of the beneath spray quality rating represents the spray volume made up of droplets that are less than ~160 µm and considered to be "**Too small**".

Below is an example of the **On-Target Performance & Off-Target Risk** in matrix format:

Example Brand™ @ 0.5% v/v	XR11004 single orifice flat fan	TT11004 turbulence chamber	AIXR 11004 air induction flat fan	TTI 11004 air inducted turbulence chamber
Greatest Impact on Spray Quality — **Emulsifiable Concentrate & Emulsion in Water (EC & EW)**	81% M 19%	88% C 10%	90% VC 4%	78% XC 2%
Loaded Cationic Soluble Liquid formulas (SL) Ex: loaded glyphosate	69% M 31%	87% C 8%	88% C 4%	72% 1%
Loaded Anionic Soluble Liquid formulas (SL) Ex: glufosinate	77% M 23%	89% VC 8%	88% VC 3%	71% XC 1%
Least — **No-Load formulas** Ex: Suspo-Emulsions (SE), Flowables (FL), Soluble Liquids (SL), Suspension Concentrates (SC), Capsule Suspensions (CS), Zeta Concentrates ((ZC) & Dry formulations (WDG, DF, WP, WG, etc...)	84% M 16%	87% C 13%	90% VC 5%	84% VC 3%

Does the entire matrix of test results need to be displayed?

No. To give applicants more flexibility in marketing and demonstrating Best Management Practices, applicants may choose to show the entire matrix or individual results from an adjuvant, nozzle and CP formulation to support a "Best Management Practices" recommendation.

What other data is generated?

On-Target Performance & Value data will also be available to the applicant. This information can be "monetized" to demonstrate an additional ROI or value for a "Best Management Practice" recommendation by using a specific Adjuvant / Nozzle and CP formulation type.

- Top number represents percentage of spray volume in "effective" range.

- A **positive** percentage variance from the control. In this example, there is a 7% increase in spray volume determined to be in the "effective"
  Calculated as: (*Control = 91. Results = 97. 97-91=6. 6/91=0.0659 .0659 -> 7%)*

In this example additional value of the adjuvant can be calculated as:

$30.00 per acre Crop Protection Product application
X 7.0% improvement in putting more of the CPP application "**On-Target"**
$2.10 per acre additional value of the adjuvant

Will test results be posted on the CPDA website?

No. Only a list of Application Enhancement Certified products will be listed with links to their labels and SDS that are already available on the CPDA Approved Adjuvants web pages. Additionally, CPDA will allow applicants to link from this listing to their own website or product page if desired.

How will AEC products be identified?

By the QR code that has been added to the CPDA Adjuvant Certification logo. See example below.

cpda
CERTIFIED
Application
Enhancement Certified

Where does the QR code take viewers?

The QR code will link to the Application Enhancement Certification page hosted on the CPDA website. There, viewers would be able to confirm that the product is currently certified and access the product's label and SDS. Additionally, if the applicant desires, CPDA would provide a link from the webpage to the individual company or product pages (hosted by the certifying company) to view more AEC test results and information.

How can the data be displayed?

Applicants may use all or any part of the data generated in marketing materials with citation that data was generated under the CPDA Application Enhancement Certification Program.

Additionally, for consistency and branding of the AEC program, whether in it's the entire matrix or just a single droplet pictogram, all data must be shown using the spray droplet format and include the following information:

Product brand name
Use-Rate tested and certified at
Pesticide formulation type(s) being referenced (not brand names)
Nozzle type (must include description, does not need to include brand)