

AAPCO Meeting

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Endangered Species Act

- Can't **jeopardize** species existence
- Can't destroy or adversely modify designated **critical habitat**
- Federal agencies must **consult** if an action may affect a listed species or its designated critical habitat
- Difficult to integrate with OPP's high volume of actions and complexity of pesticide registrations leading to litigation



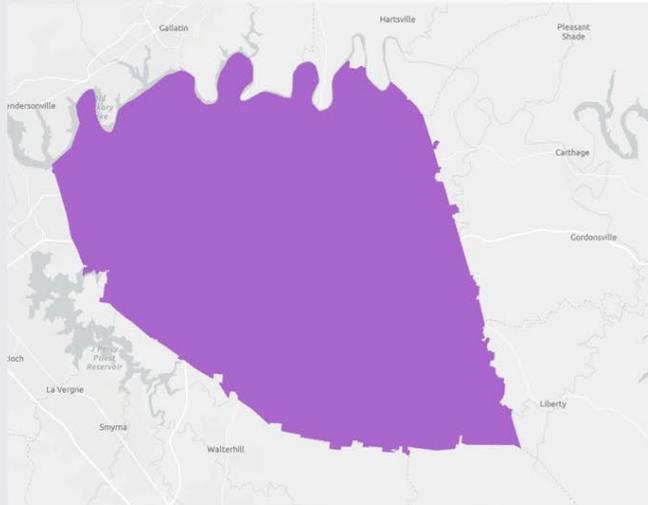
Updates on Endangered Species Act Activities



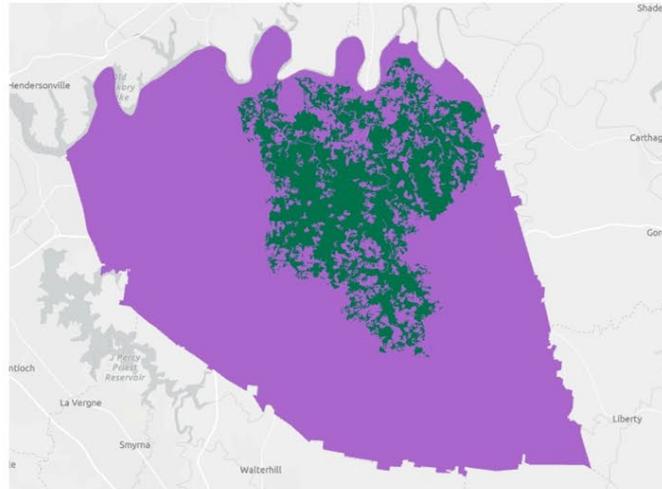
- **Strategies and Mitigation Support Documents**
- **Upcoming Biological Evaluations**
- **Biological Opinion/Consultation Support**
- **New Active Ingredients and New Uses on Tolerant Crops**
- **Process Improvements**

Core Mapping Process and Update

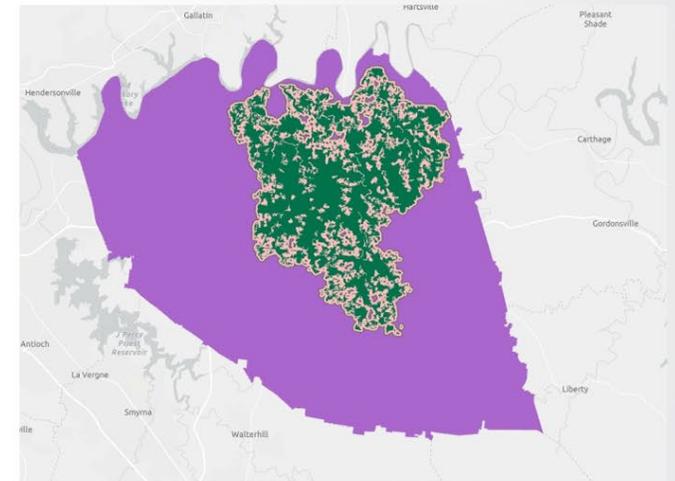
Species Range



Core Map



PULA: buffered core map(s)



Typically: Species Range > Core map < PULA

Pesticide App for Label Mitigation (PALM)



- EPA developed PALM to help pesticide users apply its mitigation menu
- Released August 2025 with runoff and spray drift modules
- Next steps and additional functions
- Thank you for your feedback!

Pesticide App for Label Mitigations

EPA released the Pesticide App for Label Mitigations (PALM), a mobile-friendly tool to serve as a one-stop shop that helps farmers and applicators use EPA's [mitigation menu](#) to reduce pesticide exposure to nontarget species from agricultural crop uses. PALM combines the functionality of the [spray drift and runoff calculators](#) in a mobile-friendly and easy-to-use web interface. This application also provides a useful summary to show how users calculated their runoff and erosion mitigation points or ecological spray drift buffer reductions and what field characteristics or application parameters are applicable to their individual applications.

These calculators are tools for informational purposes to assist pesticide users in determining whether the necessary level of mitigation has been met before applying a pesticide product. Pesticide users remain responsible for ensuring that all pesticide labeling requirements are met. Not all labels permit use of runoff/erosion mitigation measures or spray drift reduction.

This tool will not retain any of the information entered here.

[Contact Us](#) to ask about questions related to PALM.

Runoff/Erosion
calculator

Spray drift calculator



Scan Me!

Advanced Resources for Bulletins Live! Two

- [BLT Web services](#)
 - Access a RESTful data service API to public Pesticide Use Limitation Areas (PULAs). This functionality provides a user of BLT with the ability to query relevant data through the use of a URL by EPA Registration Number, pula id, and other parameters. The default output is in JSON (JavaScript Object Notation). These resources may be useful for developers.
- [Data Download](#)
 - A simple interactive method to download a spreadsheet of tabular product and active ingredient data associated with public Pesticide Use Limitation Areas (PULAs) present in BLT. Additional geographic restrictions can be applied to limit downloads to subsets of products in certain counties and states. The default output is CSV.
- [Map Services](#)
 - Accessible GIS resources to the feature layer containing Pesticide Use Limitation Areas (PULAs) present in Bulletins Live! Two. These are shown as polygons on the publicly available BLT map.

These resources are available for state and local governments, EPA, federal agencies, or individuals for informational and for research purposes, not to replace or provide an alternative to accessing Bulletins on the EPA's Bulletins Live! Two system for label compliance.

For Assistance or Questions

If you have any questions or need further assistance, please contact espp@epa.gov.

<https://www.epa.gov/endangered-species/map-services>

Map Services

On this page, you can find accessible GIS resources to the feature layers containing Pesticide Use Limitation Areas (PULAs) present in Bulletins Live! Two (BLT) and their supporting datasets.

Map services featuring real-time data updates are linked below. For each, spatial data are contained as a feature layer, and a table contains the limitation code, text, and product information.

1. Effective Public PULAs in BLT

Geoplatform Content Item

<https://epa.maps.arcgis.com/home/item.html?id=83c55a9cfea24f18a816b7a5933a7eb5>

ESRI Map Service

[BLT/PesticideUsageLimitationAreas \(MapServer\) \(epa.gov\)](#)

2. Public PULAs Expired from BLT

Geoplatform Content Item

<https://epa.maps.arcgis.com/home/item.html?id=95c42af56a7a45d785fd63f89a5a1be7>

ESRI Map Service

[BLT/PesticideUsageLimitationAreasExpired \(MapServer\) \(epa.gov\)](#)

[Link to Historical Bulletins Quick Guide.pdf](#)

3. Effective Public PULAs in BLT and their Intersections

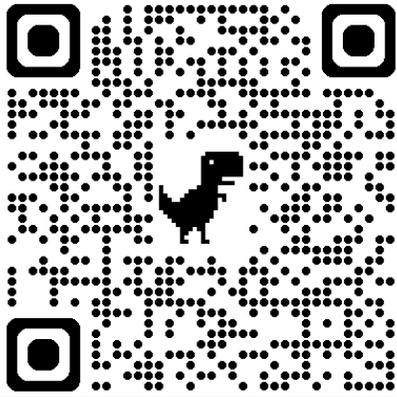
Geoplatform Content Item

<https://epa.maps.arcgis.com/home/item.html?id=eb6a6b3224c34ccf8c21d2e840e6cc51>

ESRI Map Service

[BLT/PesticideUsageLimitationAreasSplit \(MapServer\) \(epa.gov\)](#)

**These are the
historical bulletins
instructions!**



BLT Active GIS Data



BLT Expired GIS Data



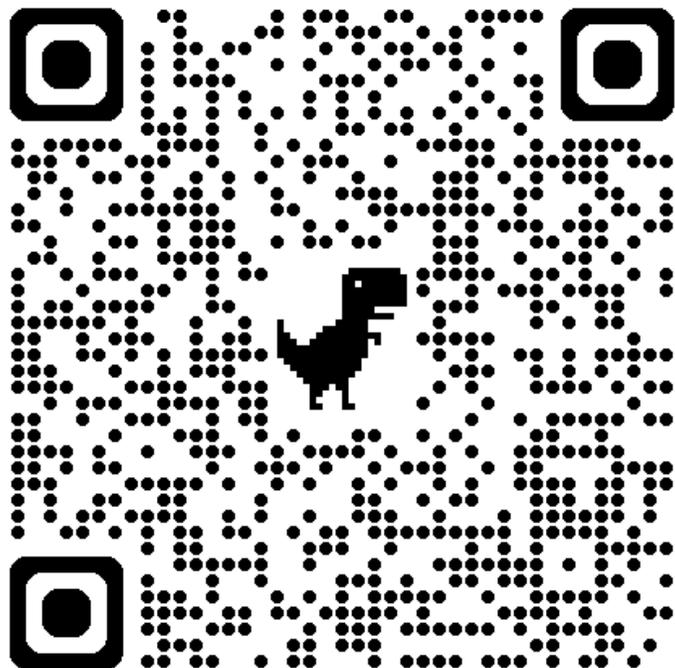
BLT GIS Intersections

Endangered Species

[About the Endangered Species Protection Program](#)

[Assessing Pesticides Under the Endangered Species Act](#)

[Endangered Species: Information For](#)



Pesticides and Endangered Species Educational Resources Toolbox

The Pesticide and Endangered Species Educational Resources Toolbox catalogs educational resources including guidance documents, handouts, presentations, informational webinars, and other resources relating to EPA's endangered species work. EPA developed the materials in this toolbox for a variety of stakeholders who may have differing levels of knowledge about EPA's efforts to protect listed species. For example, crop consultants, retailers, extension agents, and others, may use these materials to educate growers and applicators on the Endangered Species Act strategies or mitigation measures they may see on product labels.

EPA will continue adding new materials to the toolbox as they are developed.

The toolbox can be sorted alphabetically, by publication date, or topic, etc. and has a search function. Select the arrow in each column heading to sort the toolbox by ascending or descending order.

Show entries

Search:

Topic	Subtopic	Title	Category	Last Modified
Bulletins Live	Information	BLT Flyer (pdf) (366.23 KB)	PDF	October 2024
Runoff/Erosion Points Calculator	Spreadsheet	EPA's runoff points calculator (xslm) (172.28 KB)	Excel	October 2024
Runoff/Erosion Points Calculator	How To?	Mitigation Calculator User Guide (pdf) (853.68 KB)	PDF	October 2024
		Application of EPA's Runoff and Erosion and Spray Drift Mitigations Through Scenarios that Represent Crop	PDF file in	

Thank you!