


**Endangered Species
and Pesticides:
What's a PULA and
is a BLT More Than a
Sandwich?**



Dr. Brett Bultemeier
UF/IFAS Pesticide Information Office



1

Conflict

FIFRA registers pesticides

ESA protects species

EPA involved in both

2

The Agencies

Consulted if risks were found

Biological Evaluation

Biological Opinion




3

How did it get here?

Initial registration did NOT consider ESA

WAAAAAY behind – 2030 only 5% would be done

Mega Law Suit

4

**Process was
SLOOOOOOW
unsustainable**

5

ESA Workplan

Registration Review - ID

Drift and Erosion Control

BLT 2

Vulnerable species and pesticide grouping



<https://blogs.ifas.ufl.edu/pesticideinformation/2024/10/04/epa-endangered-species-act-workplan/>

6


Herbicide Strategy

Diverse group of actives

Streamline decisions

Gets away from product-by-product decisions

1. 2,4-D
2. Dicamba
3. Diuron
4. MCPA
5. Metolachlor
6. Metribuzin
7. Oxyfluorfen
8. Paraquat
9. Pendimethalin
10. Propanil
11. Thiobencarb
12. Trifluralin



<https://blogs.ifas.ufl.edu/pesticideinformation/2024/08/26/what-is-a-herbicide-strategy/>

10

Purpose

Reduce soil erosion

Reduce off-site drift

Speed up decisions





<https://blogs.ifas.ufl.edu/pesticideinformation/2024/08/26/what-is-a-herbicide-strategy/>

11


Picklist

Points assigned depending on location – soil type, etc.

Points must be achieved through mitigation measures

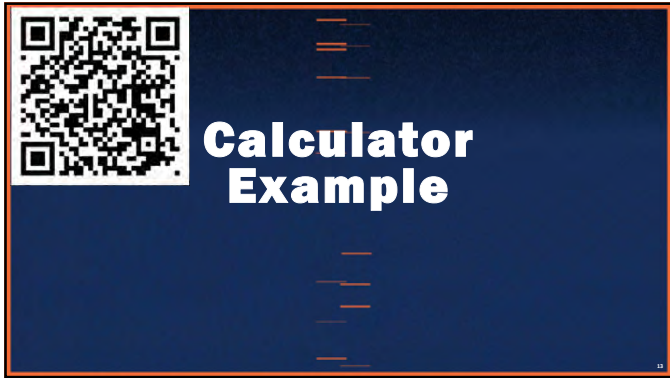
Any Picklist can add up to total

1. Vegetative Filter Strips
2. Grassed Waterways
3. Field Border
4. Cover Crop
5. Contour Buffer Strips
6. Contour Farming
7. Contour Strip Cropping
8. Terrace Farming
9. Strip Cropping
10. No/Reduced Tillage
11. Vegetative Barriers
12. Vegetative Ditch Banks
13. Riparian Buffers
14. Mulching
15. Alley Cropping



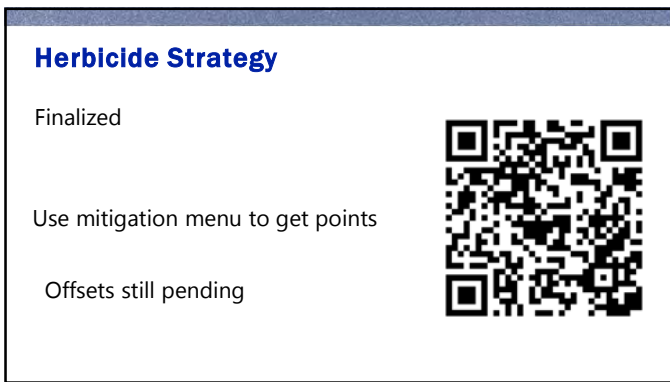
<https://www.epa.gov/pesticides/mitigation-menu>

12



13

<https://www.epa.gov/pesticides/mitigation-menu>

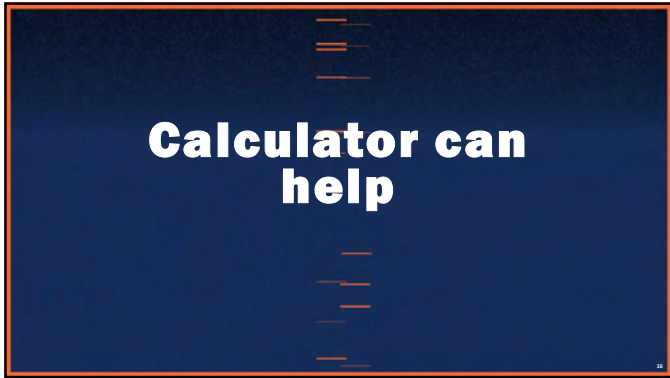


14

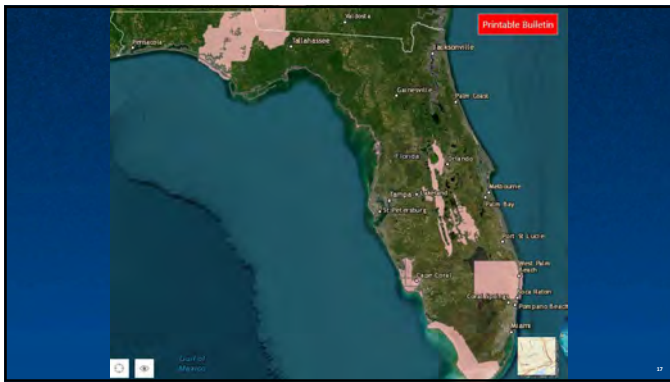
<https://www.regulations.gov/docket/EPA-HQ-OPP-2023-0365>



15



16



17



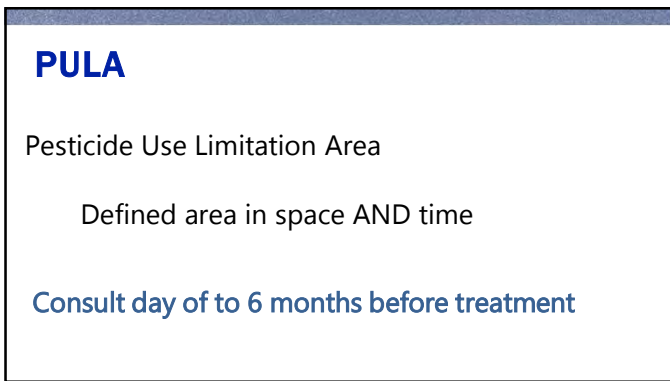
18



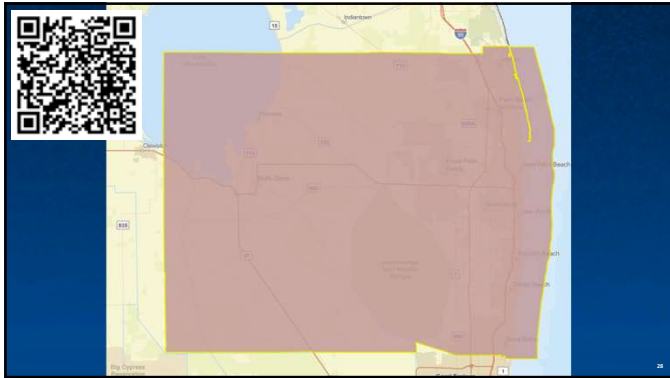
19



20



21



<https://www.epa.gov/endangered-species/bulletins-live-two-view-bulletins>

28

Endangered Species Protection Bulletin					
TAVIUM PLUS VAPORGRIP TECHNOLOGY (100-1623) Alternate: TAVIUM PLUS VAPORGRIP TECHNOLOGY	Dicamba, diglycolamine salt	Dicamba-Tolerant Soybean	Ground spray	Liquid	D220
XTENDIMAX WITH VAPORGRIP TECHNOLOGY (264-1210) Alternate: M1768 Herbicide	Dicamba, diglycolamine salt	Dicamba-Tolerant Cotton	Ground spray	Liquid	D220
XTENDIMAX WITH VAPORGRIP TECHNOLOGY (264-1210) Alternate: M1768 Herbicide	Dicamba, diglycolamine salt	Dicamba-Tolerant Soybean	Ground spray	Liquid	D220

Codes and Limitations Table	
Code	Limitation
D220	Do not apply in the following counties: Wilson County, TN or Palm Beach County, FL

29



30



31



32



33

DIRECTIONS FOR USE

RESTRICTED USE PESTICIDE

To be used by certified applicators only; NOT to be used by non-certified persons working under the supervision of a certified applicator, except that non-certified persons may transport containers.

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.

Endangered Species Protection Requirements

Prior to making an application of this product on dicamba-tolerant cotton or dicamba-tolerant soybeans, an applicator must visit <http://www.epa.gov/espp/> to determine if there are any additional restrictions on Tavium Plus VaporGrip Technology use within the area to be sprayed.

It is a Federal offense to use any pesticide in a manner that results in an unauthorized "take" (e.g., kill or otherwise harm) of an endangered species and certain threatened species, under the Endangered Species Act, Section 9. When using this product, you must follow the measures contained in the Endangered Species Bulletin for the area in which you are applying this product. You must obtain a Bulletin no earlier than six months before using this product. To obtain Bulletins, consult <http://www.epa.gov/espp/>, call 1-844-447-3813, or email ESPP@epa.gov. You must use the Bulletin valid for the month in which you will apply the product.

34

See additional precautionary statements and directions for use inside booklet.

EPA Reg. No. 100-1623

EPA Est. 5905-IA-01

SCP 1623A-L1E 0223 4177994

2.
Net

35

**Label AND check
BLT**

36



37



38



39

RESTRICTED USE PESTICIDE
To be used by certified applicators only; NOT to be used by uncertified persons working under the supervision of a certified applicator, except that uncertified persons may transport containers.

XTENDIMAX[®]
WITH **VaporGrip[®]**
Technology

This labeling requires use on 12/29/2025. DO NOT use or distribute this product after 12/29/2025.

CAUTION
KEEP OUT OF REACH OF CHILDREN

Please refer to booklet for additional precautionary statements and directions for use.

NET WEIGHT: 4.23 LBS (1.92 KG)
NET VOLUME: 0.94 GAL (3.54 L)

Produced for
Payer Corporation, Ltd.
505 N. Lincoln Way
St. Louis, MO 63102
©2017 Bayer AG. All rights reserved.

40

DIRECTIONS FOR USE

RESTRICTED USE PESTICIDE
To be used by certified applicators only; NOT to be used by non-certified persons working under the supervision of a certified applicator, except that non-certified persons may transport containers.

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.

Endangered Species Protection Requirements
Prior to making an application of this product on dicamba-tolerant cotton or dicamba-tolerant soybeans, an applicator must visit <http://www.epa.gov/espp/> to determine if there are any additional restrictions on Tavium Plus VaporGrip Technology use within the area to be sprayed.

It is a Federal offense to use any pesticide in a manner that results in an unauthorized "take" (e.g., kill or otherwise harm) of an endangered species and certain threatened species, under the Endangered Species Act, Section 9. When using this product, you must follow the measures contained in the Endangered Species Bulletin for the area in which you are applying this product. You must obtain a Bulletin no earlier than six months before using this product. To obtain Bulletins, consult <http://www.epa.gov/espp/>, call 1-844-447-3813, or email ESPP@epa.gov. You must use the Bulletin valid for the month in which you will apply the product.

41

KEEP OUT OF REACH OF CHILDREN

Please refer to booklet for additional precautionary statements and directions for use.

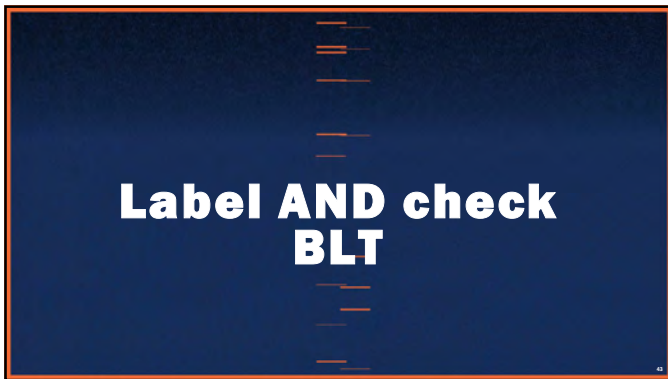
For MEDICAL and TRANSPORTATION Emergencies ONLY
Call 24 Hours a Day 1-800-334-7577

For PRODUCT USE Information Call 1-866-99BAYER (1-866-992-2937)

For Incidence of Non-performance or Off-Target Movement or for
Questions Regarding Buffer Requirements or Sensitive Crop Registries Call
1-844-RRXTEND (1-844-779-8363)

EPA Reg. No. 264-1210

42



43

Assistance in using Bulletins: First, [view the tutorial](#). Also [view background, notes and a check sheet guide for EPA](#).

generate a printable bulletin, please follow these steps:

1. Navigate to your intended pesticide application area by using the "Location Search" tool or panning and zooming on the map itself.
2. Select your Application Month from the Application Date dropdown.
3. Search for a specific pesticide product using the EPA registration number and

[Open](#)

Limitations for Selected Area

Pula ID: 52
 Event Name: Dicamba - 2020
 Application Month: July 2024

Product	Count
XTENDIMAX WITH VAPORGRIP TECHNOLOGY (264-1210) Alternate Name: M1788 Herbicide	1

[Full Details](#)

[Clear Selected](#) [Zoom to Selected](#)

44

Endangered Species Protection Bulletin

Application Month: July 2024
 Product: RoundupBlatt (VaporGrip Technology) (264-1210) M1788 Herbicide

1. Areas where pesticide use must be limited are identified on the map. A legend is located beside the map to help pinpoint these locations.

2. Link below at the Pesticide Use Limitation Summary Table. This table lists the user selected Active Ingredient (AI) or Product(s) with pesticide use limitations for the selected map. Locate the Active Ingredient (AI) or Product you intend to apply in this table and identify the codes in the last column. This code indicates the specific limitation associated with that AI or Product. A limitation description for each code can be found below in the Codes and Limitations Table. If multiple Pesticide Use Limitation Areas (PULAs) are visible on the map, these tables provide information for the highest PULA.

If you are applying a pesticide that contains more than one Active Ingredient, or multiple Products, then multiple codes may apply. Follow the limitations for all codes when using this pesticide.

This document contains legal requirements for the use of certain pesticides. Do not modify any text, graphics or information contained on this document. ©2024 Corteva. 800-441-3813

Endangered Species Protection Bulletin

Pesticide Use Limitation Summary Table

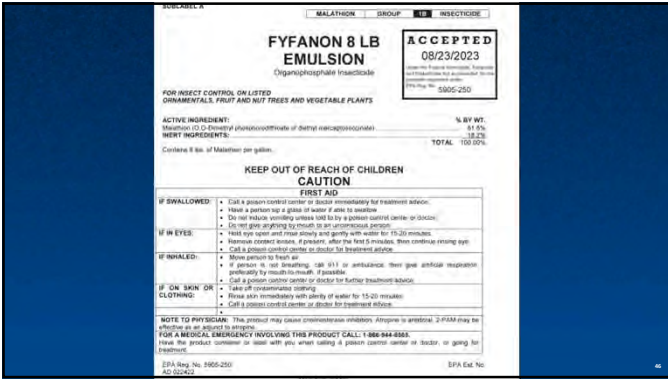
Product	Active Ingredient	Chemical Class	Application Method	Application Timing	Limitation Code
XTENDIMAX WITH VAPORGRIP TECHNOLOGY (264-1210) Alternate Name: M1788 Herbicide	Dicamba, Glyphosate salt	Quaternary Tertiary Amine	Ground spray	July 2024	0120
XTENDIMAX WITH VAPORGRIP TECHNOLOGY (264-1210) Alternate Name: M1788 Herbicide	Dicamba, Glyphosate salt	Quaternary Tertiary Amine	Ground spray	July 2024	0120

Codes and Limitations Table

0120: To protect federally listed threatened and endangered species, both a 30-foot in-field wind-directional spray drift buffer and a 5-foot semi-directional in-field buffer are required. If applying to dicamba tolerant soybeans with a qualified herbicide, apply: both a 240-foot in-field wind-directional spray drift buffer and a 5-foot semi-directional in-field buffer are required to protect federally listed threatened and endangered species. Please see the label for a link to the website with your product's qualified herbicide sprayers. The following areas may be included in the buffer: natural composition when directly adjacent to the treated field edge: 1. Roads, grass or gravel surfaces, mowed grassy areas adjacent to field, and areas of bare ground from recent plowing or grading that are contiguous with the treated field. 2. Planted agricultural fields containing dicamba-resistant plantings of cotton and soybeans. 3. Areas covered by the footprint of a building, silo, or other man-made structure with walls and/or roof.

This document contains legal requirements for the use of certain pesticides.

45

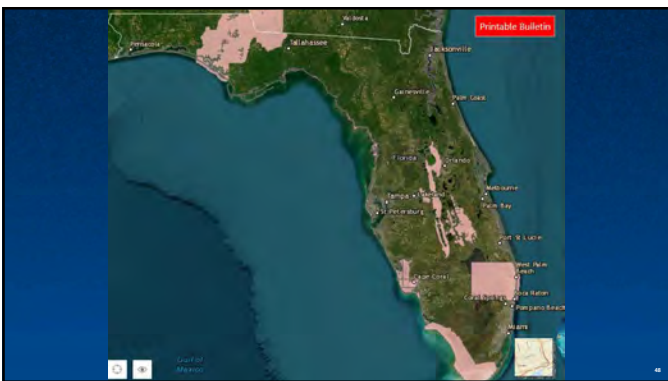


46

Mosquito

- Original restriction – no mosquito from April - December

47



48

Mosquito

- Original restriction – no mosquito from April – December
- Since been changed, mosquito exempt
- Feedback critical for this process

49

Process

- Follow label
- Mitigation points met Y/N?
- Check buffer requirements
- BLT Y/N
- Check if you are in PULA Y/N

50

How to comply?

- Label
- Up to 4 or 5 different websites that are label now
- Lots more math and boxes to check

51

Additional Changes

- Herbicide Strategy - final
- Insecticide Strategy - draft
- Rodenticide Strategy – should be final soon
- Fungicide Strategy – 2025 or 2026 draft
- Vulnerable Species – draft

52

Shift

- Entire classes of chemistries with set limitations
- Entire areas may be off limits to treat
- Much more adaptability, but lots of changes

53

What do we do?

Familiarize yourself with BLT

Stay up to date with changes

Don't Panic



UF/IFAS PIO



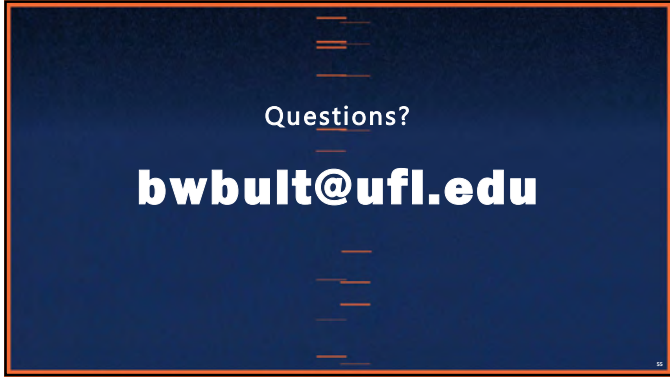
PIO Blog

54

<https://pested.ifas.ufl.edu/>

<https://blogs.ifas.ufl.edu/pesticideinformation/>

<https://www.epa.gov/endangered-species/bulletins-live-two-view-bulletins>



55
