Liberty® Herbicide   Engenia® Herbicide   Outlook® Herbicide

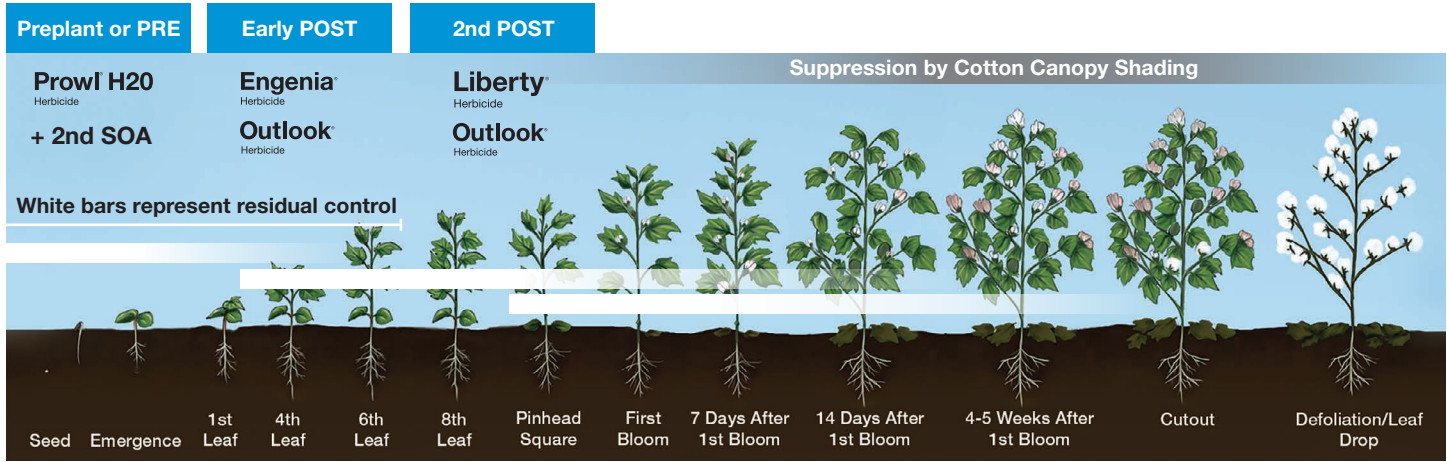# Extract Maximum Value and Flexibility in XtendFlex® Cotton

How Can I Get the Most Out of My XtendFlex Cotton?

- XtendFlex cotton provides the flexibility to use three post herbicide SOAs including dicamba, glufosinate and glyphosate for effective weed control. Following the BASF Recommended Program for XtendFlex cotton enables all of the herbicide chemistry you have bought.

- **Preplant:** Use Prowl® H2O herbicide to provide superior control of tough-to-manage grasses and residual control of both glyphosate and ALS-resistant Palmer amaranth.

- **Early POST:** Spray Engenia® herbicide first to leverage powerful knockdown capability and avoid state or national cut-off dates plus Outlook® herbicide for residual weed control.

- **2nd POST:** Follow up with Liberty herbicide for reliable, consistent performance on broadleaf and grass weeds plus Outlook herbicide for residual weed control.

BASF Recommendation on XtendFlex Cotton	
PRE	**Prowl H2O** herbicide 2 pts/A + 2nd Effective Site of Action
Early POST	**Engenia** herbicide 12.8 fl oz/A + **Outlook** herbicide* 12-18 fl oz/A + glyphosate
2nd POST	**Liberty** herbicide 29-43 fl oz/A + **Outlook** herbicide** 13-19 fl oz/A
Sites of Action	6

*Do not exceed 31 fl oz/A of Outlook herbicide in one year.
**Sequential applications of Outlook herbicide must be separated by at least 14 days.

Preplant or PRE	Early POST	2nd POST
Prowl® H20 Herbicide **+ 2nd SOA**	**Engenia** Herbicide **Outlook®** Herbicide	**Liberty** Herbicide **Outlook®** Herbicide

Suppression by Cotton Canopy Shading

White bars represent residual control

Seed — Emergence — 1st Leaf — 4th Leaf — 6th Leaf — 8th Leaf — Pinhead Square — First Bloom — 7 Days After 1st Bloom — 14 Days After 1st Bloom — 4-5 Weeks After 1st Bloom — Cutout — Defoliation/Leaf Drop

BASF

We create chemistry

Technical Information Bulletin

Liberty®, Engenia® and Outlook® Herbicides Are Key Parts of a Leading Weed Control Program in Cotton

A weed control program that includes preplant or preemergence residual herbicides followed by Engenia and Outlook herbicides in a very early POST application followed by an application of Liberty and Outlook herbicides prior to bloom provides the best opportunity to get ahead and stay ahead of weeds.

New Cotton Rates for Liberty 280 Herbicide!

- Newest Liberty 280 herbicide label simplifies cotton use pattern
- Label allows (2) postemergence applications of 29-43 fl oz/A of Liberty 280 herbicide
- Maximum seasonal amount remains 87 fl oz/A

Liberty Herbicide

- **Freedom of Choice** – You never have to live without the tried & true performance you expect. Liberty herbicide works with today's trait systems including XtendFlex cotton.
- **Freedom of Stress** – Gain peace-of-mind with broad-spectrum performance on broadleaves & grasses, including pigweed. Plus, it's backed by the Liberty Herbicide Weed Control Guarantee. Terms and conditions apply.[1]
- **Freedom from Hassle** – With only traditional label requirements to follow, there's freedom in simplicity.
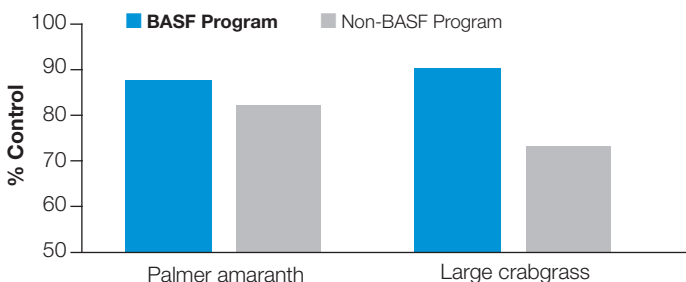
Outlook Herbicide

- Most reliable activation with just ¼" of rain or irrigation
- Readily washes off crop foliage and soil residue to ensure adequate weed control
- Broad-spectrum weed control of annual grasses and small-seeded broadleaf weeds

Engenia Herbicide

- The most advanced dicamba on the market
- Lowest use rate dicamba for DT crops
- Provides control of over 200 broadleaf weeds
- Backed by the Engenia Herbicide Weed Control Guarantee Program. Terms and conditions apply.[1]

EVERY application of Engenia herbicide requires the use of a pH buffering adjuvant such as Sentris™ buffering technology. Always read and follow all label directions. Engenia herbicide is a U.S. EPA Restricted Use Pesticide. Additional state restrictions may apply.
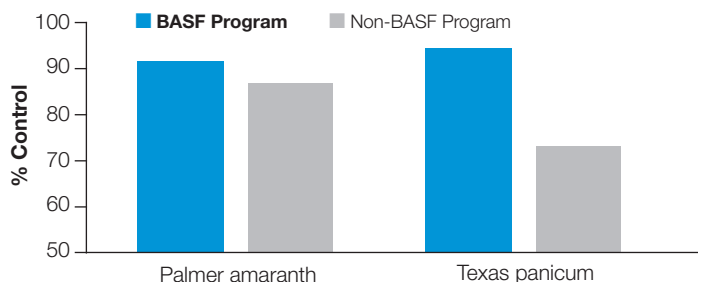
Efficacy 39 Days After Last Application

Bar chart — % Control (y-axis, 50–100), BASF Program vs Non-BASF Program. Palmer amaranth and Large crabgrass.

2020 BASF Sponsored trial; Macon County, GA. Dr. Stanley Culpepper

Efficacy 28 Days After Last Application

Bar chart — % Control (y-axis, 50–100), BASF Program vs Non-BASF Program. Palmer amaranth and Texas panicum.

2020 BASF Sponsored trial; Corpus Christi, TX. Dr. Joshua McGinty

Both treatments included the same PRE. Non-BASF Program: PRE followed by dicamba + glyphosate followed by dicamba + glyphosate. **BASF Program:** PRE followed by Engenia herbicide + Outlook herbicide + glyphosate followed by Liberty herbicide + Outlook herbicide + glyphosate.

For more information on how Engenia, Liberty, and Outlook herbicides can improve your weed control, visit cottonweedcontrol.com.

BASF
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