

Herbicide Effectiveness on Weeds in Potatoes

| Weeds | dimethenamid-P (Outlook) | EPTC (Eptam) | flumioxazin (Chateau) | fomesafen (Reflex) | linuron (Linex) | metribuzin (Several brands) | S-metolachlor (Dual Magnum) | pendimethalin (Prowl 3.3 or H ₂ O) | ethalfluralin (Sonalan HFP) | trifluralin (Treflan or others) | rimsulfuron (Matrix) preemergence | rimsulfuron (Matrix or others) postemergence | clethodim (Select) | sethoxydim (Poast Plus) |
|---------------------------|--------------------------|--------------|-----------------------|--------------------|-----------------|-----------------------------|-----------------------------|---|-----------------------------|---------------------------------|-----------------------------------|--|--------------------|-------------------------|
| Barley, volunteer | F-G | F-G | N | S | S | P | — | — | P | P | G | G | G | G |
| Barnyardgrass | G | G | N | S | F | F | G | G | G | G | G | G | G | G |
| Bindweed, field | P | P | — | N | N | P | — | P | — | P | — | P | N | N |
| Buckwheat, wild | — | F | — | N | G | F | — | — | F-G | F | P | P | N | N |
| Cocklebur, common | — | P | — | P | S | F | — | — | P | P | F | F | N | N |
| Crabgrass | G | G | — | S | F | F | G | G | G | G | F | G | G | — |
| Foxtail spp. | G | G | N | S | F | F | G | G | G | G | G | G | G | G |
| Knotweed, prostrate | — | G | — | — | — | G | — | G | — | G | N | — | N | N |
| Kochia | P-F | P-F | S | — | G | G | F | F-G | F-G | F-G | G | G | N | N |
| Lambsquarters, common | P-F | G | S | P-F | G-E | G | F | F-G | F-G | F-G | F-G | P-F | N | N |
| Mallow, common | — | P | — | — | — | G | F | F | — | P | — | — | N | N |
| Mustard spp. | — | P | S | G-E | G-E | G | — | — | P | P | G | G | N | N |
| Nightshade, cutleaf | F-G | F-G | S | F | — | P | F-G | P-F | — | P | N | N | N | N |
| Nightshade, black | G | G | G | G | F-G | P-F | F | P-F | F | P | G | G | N | N |
| Nightshade, Eastern black | G | G | G | G | F-G | P-F | F | P-F | F | P | G | G | N | N |
| Nightshade, hairy | G | G | S | F-G | F-G | F | F | P-F | F | P | F-G | G | N | N |
| Nutsedge, yellow | F | F | — | S | — | P | F-G | P | — | P | — | F | N | N |
| Oat, volunteer | F-G | F-G | N | S | G | F-G | — | — | G | G | F-G | G | G | G |
| Oat, wild | F-G | F-G | N | S | G | F-G | P-F | P-F | F-G | F | F | G | G | G |
| Pigweed spp. | G | F-G | S | G | G-E | G | G | F-G | G | G | G | G | N | N |
| Purslane, common | G | G | — | G | G | G | G | G | G | G | — | F | N | N |
| Quackgrass | — | F-G | N | N | P | P-F | — | — | P | P | N | G | F-G | F |
| Sandbur, field | P-F | G | N | N | P | P | G | — | G | G | — | — | G | G |
| Smartweed spp. (annual) | — | P | — | P | G-E | F | P | F | — | P-F | — | F | N | N |
| Sowthistle, annual | — | F | — | — | P | G | — | P | — | P | — | — | N | N |
| Sunflower, wild | — | P | — | — | — | F | P | P | — | P | G | F-G | N | N |
| Thistle, Canada | — | P | N | N | P | F | — | — | — | P | — | F | N | N |
| Thistle, Russian | — | P | — | — | — | G | P | G | F-G | F-G | P | P | N | N |
| Wheat, volunteer | F-G | F-G | N | S | S | P | — | — | F | F | G | G | G | G |

G = good F = fair P = poor N = none S = suppression only — = no information available

Response of weeds to any of the listed herbicides may be altered by growing conditions, weed populations, type of irrigation, genetic variations, soil type, pH, organic matter, time of application, and application rate. Ratings may vary from season to season and from site to site. Weed control generally

**Table 1. Herbicides labeled for use in potatoes:
Effectiveness on broadleaf weeds**

| Herbicides | Kochia | Lambsquarters, common | Mustard spp. | Nightshade, cutleaf | Nightshade, black | Nightshade, Eastern black | Nightshade, hairy | Redroot pigweed | Russian thistle | Canada thistle | Field Bindweed |
|---|--------|--------------------------|--------------|---------------------|-------------------|------------------------------|------------------------|--------------------|-----------------|------------------|----------------|
| Chateau or others (flumioxazin) | S | S | S | S | G | G | G | S | - | N | - |
| Dual Magnum (s-metolachlor) | F | F | P | F-G | F | F | F | G | P | N | - |
| Eptam (EPTC) | P-F | G | P | F-G | G | G | G | F-G | P | P | P |
| Linex/Lorox (Linuron) | F | G | G | - | - | S | F | G | - | P | - |
| Matrix, Solida, or others (rimsulfuron) PRE/POST | G | PRE P/ POST F | G | N | G | G | G | G | P | PRE -/ POST F | P |
| Metribuzin (several brands) PRE/POST | G | G | G | P | F | P-F | PRE p/ POST F | G | G | F | P |
| Outlook (dimethenamid-p) | P-F | P | P | F-G | G | G | G | G | - | - | P |
| Prowl 3.3 EC or H2O (pendimethalin) | F-G | F-G | - | P-F | P-F | P-F | F-P | F-G | G | - | P |
| Reflex (fomesafen) | - | P | G | F | G | G | F | G | - | N | - |
| Sonalan HFP (ethalfluralin) | F-G | F-G | P | - | F | F | F | G | F-G | - | - |
| Me-Too-Lachlor, Stalwartt, or others (metolachlor) | F | F | p | F | F | F | F | G | P | n | - |
| Sulfentrazone (various trade names) | G | G | G | G | G | G | G | F-G | G | - | P |
| Treflan HFP or others (trifluralin) | F-G | F-G | P | P | P | P | P | G | F-G | P | P |
| Zidua (pyoxasulfone) | P-F | - | - | - | F-G | F-G | F-G | F-G | - | - | - |
| Boundary (s-metolachlor + metribuzin) | F | f-g | F | f-g | F | F | F | G | f-g | p-f | P |
| Sulfentrazone MTZ and other trade names/ (sulfentrazone + metribuzin) | G | G | G | G | G | G | G | G | G | F | P |

SEASON LONG CONTROL: G, good = 90 to 100%; F, fair = 80 to 89%; P, poor = 0 to 30%; N, none = 0%; S, suppression only = approx. 50% control; - = no information available

The potato herbicide effectiveness charts and control ratings represent control provided season-long and are derived from herbicide labels and potato field research trial results.

Response of weeds to any of the listed herbicides may be altered by growing conditions, weed populations, type of irrigation, genetic variations, soil type, pH, OM, time of application, and application rate. Ratings may vary from season to season and from site to site. Weed control generally decreases as the season progresses.

Herbicides labeled for use in potatoes: Effectiveness on broadleaf weeds (cont.)

| Herbicides | Buckwheat, wild | Cocklebur, common | Knotweed, prostrate | Mallow, common | Purslane, common | Smartweed (Polygonum spp.) (annual) | Sowthistle, annual | Sunflower, wild |
|--|------------------|-------------------|---------------------|----------------|------------------|-------------------------------------|--------------------|--------------------|
| Chateau or others (flumioxazin) | - | - | - | - | - | - | - | - |
| Dual Magnum (s-metolachlor) | P | N | - | F | G | P | P | P |
| Eptam (EPTC) | F | P | G | P | G | P | F | P |
| Linex/Lorox (Linuron) | G | S | F | - | G | G | F | - |
| Matrix, Solida, or others (rimsulfuron) PRE/POST | P | F | PRE N/ POST - | - | PRE -/ POST F | PRE -/ POST F | - | PRE G/ POST F-G |
| Metribuzin (several trade names) PRE/POST | PRE G/ POST F | PRE F/ POST G | G | G | G | F | G | F |
| Outlook (dimethenamid-p) | P | - | - | - | G | P | P | - |
| Prowl 3.3 EC or H2O (pendimethalin) | - | - | G | F | G | F | P | P |
| Reflex (fomesafen) | N | S | - | - | G | P | - | - |
| Sonalan HFP (ethalfluralin) | F-G | P | - | - | G | - | - | - |
| Me-Too-Lachlor, Stalwart, or others (metolachlor) | p | n | - | F | G | P | p | P |
| Sulfentrazone (various trade names) | F | F | - | - | G | G | - | - |
| Treflan HFP or others (trifluralin) | F | P | G | P | G | P-F | P | P |
| Zidua (pyroxasulfone) | - | - | - | - | - | - | - | - |
| Boundary (s-metolachlor + metribuzin) | F | S | F | F | G | P-F | F | S |
| Sulfentrazone MTZ and other trade names (sulfentrazone + metribuzin) | G | F | G | G | G | G | G | F |

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**Table 2. Herbicides labeled for use in potatoes:
Effectiveness on grass and sedge weeds**

| Herbicide | Barnyardgrass | Crabgrass | Foxtail spp. | Sandbur, field | Barley, volunteer | Oat, volunteer | Oat, wild | Wheat, volunteer | Quackgrass | Nutsedge, yellow |
|--|------------------|------------------|------------------|-------------------|-------------------|------------------|------------------|------------------|------------------|------------------|
| Chateau or others (flumioxazin) | N | N | N | N | N | N | N | N | N | - |
| Dual Magnum (s-metolachlor) | G | G | G | F | - | - | P-F | - | P | F-G |
| Eptam (EPTC) | G | G | G | G | F-G | F-G | F-G | F-G | F-G | F |
| Linex/Lorox (Linuron) | F-G | G | G | - | - | - | - | - | P | - |
| Matrix, Solida, or others (rimsulfuron) PRE/POST | G | pre F/ POST g | F-G | - | G | PRE F/ POST G | PRE F/ POST G | G | PRE N/ POST g | PRE -/ POST F |
| Metribuzin (several trade names) PRE/POST | PRE F/ POST P | PRE F/ POST P | PRE G/ POST F | P | P | PRE G/ POST F | F-G | P | P-F | P |
| Outlook (dimethenamid-p) | G | G | G | P-F | F-G | F-G | F-G | F-G | P | F |
| Prowl 3.3 EC or H2O (pendimethalin) | G | G | G | - | - | - | F-P | - | - | P |
| Reflex (fomesafen) | S | S | S | - | S | S | S | S | N | S |
| Sonalan HFP (ethalfluralin) | G | G | G | G | P | G | F-G | F | P | - |
| Me-Too-Lachlor, Stalwart, or others (metolachlor) | G | G | G | G | - | - | F | - | p | F-G |
| Sulfentrazone (various trade names) | N | N | N | N | N | N | N | N | N | G |
| Treflan HFP or others (trifluralin) | G | G | G | G | P | G | F | F | P | P |
| Zidua (pyoxasulfone) | F-G | F-G | F-G | P | - | - | - | - | - | - |
| Boundary (s-metolachlor + metribuzin) | G | G | G | F | P | F | F | p | P | F-G |
| Sulfentrazone MTZ and other trade names (sulfentrazone + metribuzin) | F | F | G | P | P | G | F | P | P | G |
| Select or Volunteer (Clethodim) | G | G | G | G | G | G | G | G | G | N |
| Poast Plus (sethoxydim) | G | F | G | G | G | G | G | G | F | N |

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