

USDA Pesticide Record-Keeping Requirements for Certified Private Applicators of Federally Restricted-Use Pesticides

The 1990 farm bill requires private certified pesticide applicators to keep records of all applications of federally restricted-use pesticides (RUP). The U.S. Department of Agriculture's (USDA) Agricultural Marketing Service (AMS) administers the Federal Pesticide Recordkeeping Program.

Although applicators have 14 days to record information about an RUP application, it is best to do so immediately after each application to ensure accurate and detailed records. These records must be maintained for two years.

There is no required federal form on which to maintain your records; however, MU Extension publication MP693, *Restricted-Use Pesticide Record-Keeping Form*, can be downloaded, reproduced and used to be in compliance with the regulation.

What the records must contain

- **The certified applicator's name and certification number.** If the application was made by someone who is not certified, then record the name and number of the certified applicator who supervised the application.
- **The month, day and year of the application**
- **The crop, commodity or site to which the pesticide was applied.** This section of the record includes stored products, such as grain held in bins. Refer to the pesticide label for guidance to record this information.
- **The brand or product name of the federally restricted-use pesticide and the product's EPA registration number.** The brand or product name and EPA registration number for many restricted-use pesticides registered in Missouri are included in Table 1. If you use a restricted-use pesticide that is not listed, add the product name and registration number to the table for future use.
- **The total amount applied.** Record the amount used of the actual product — not the amount after water or other substances were added. Amount does not refer

to percent of active ingredient. Use the pesticide label for reference, and record the amount in similar language. For example, if the label states the pesticide is to be measured in pints or ounces, then record the amount in pints or ounces.

- **The size of the area treated.** Record the size of the area treated in the appropriate unit of measure (such as acres, linear feet, bushels, cubic feet, number of animals, etc.), which is normally expressed on the label in reference to the application being made. For example, if an 80-acre grove is treated using the alternate middle approach, the entire 80 acres would be recorded as the size of area treated.
- **The location of the application.** Record the specific location of the application, not the address of the farm or business. Your goal is to be able to identify the exact area of the application two years later if requested. The law allows any of the following designations:
 - ID system using maps and/or a written description
 - County, range, township and section (although not required, subsection is acceptable)
 - A USDA identification system, which involves maps and a numbering system to identify field locations
 - The legal property description

How to record spot treatments

Spot treatments are especially useful in the control of noxious weeds. If you apply restricted-use pesticides on the same day in a total area of less than a tenth of an acre, you are required to record all of the following information:

- Brand or product name, EPA registration number
- Total amount applied
- Location of treatment designated as spot application, followed by a description (for example, the location could be recorded as "spot application," followed by "treated for noxious weeds on Field A, C and all pastures")
- Month, day and year of the application

Note: Greenhouse and nursery treatments do not qualify as spot treatments.

Access to the record information

Only the following people have the right to access your restricted-use pesticide records:

- USDA-authorized representatives who present identification
- State-authorized representatives who present identification
- Attending licensed health care professionals, or those acting under their direction, when treating individuals who may have been exposed to restricted-use pesticides

Commercial applicator requirements

All commercial applicators will continue to maintain the records they currently keep under Missouri or federal regulations. The new federal pesticide record-keeping regulations require all commercial applicators, both agricultural and nonagricultural, to furnish a copy of the application record to the customer within 30 days of the restricted-use pesticide application.

Civil penalties

The AMS administrator of USDA is responsible for the enforcement actions taken against violators of this standard.

Any private applicator who violates any provision of the regulations will be subject to the following civil penalties:

- A fine of not more than \$750 for the first offense
- A fine of not less than \$1,100 for each subsequent offense

Benefits of pesticide record keeping

Maintenance of pesticide application records helps farmers to:

- Evaluate how well a chemical worked
- Determine the amount of pesticide needed annually, avoiding the purchase and storage of excess product
- Prevent carry-over injury and improve rotation decisions
- Protect themselves from legal action if accused of improper pesticide use
- Save money by determining the best pesticide management program, which is key to a successful integrated pest management (IPM) program

Also, USDA's National Agricultural Statistics Service (NASS) conducts surveys on pesticide use for agricultural production. The information gathered from these surveys is used to maintain a database on the use of pesticides by agriculture. Various public and private organizations use the data when making decisions about or studying such issues as the safety of the nation's food supply, the quality of our water, and the impact of IPM.

Record-keeping information for the EPA Worker Protection Standard

The Environmental Protection Agency's (EPA) Worker Protection Standard (WPS) is a federal regulation intended to reduce the risk of pesticide poisoning and injury among agricultural workers. Private applicators hiring pesticide handlers or workers must display application information to all employees in an accessible area of the workplace before a pesticide is applied. This display is not limited to restricted-use pesticides, but is required when the label of any pesticide being used has an Agricultural Use Requirements section.

Additional record-keeping information is also required to meet federal WPS regulations:

- Time of day the application was made
- Active ingredient
- Restricted entry interval (REI)

The previously mentioned MU Extension record-keeping form, MP693, provides space to record the necessary information for both RUP and WPS records.

Restricted-use pesticides registered in Missouri

The brand or product name and EPA registration number for most restricted-use agricultural pesticides registered in Missouri are listed in the following table. If you use a restricted-use pesticide that is not listed, add the brand or product name and registration number to the table. This information is obtained from the pesticide label.

This list of products was accurate as of the date of publication of this guide. For an updated list of registered RUPs, contact the Missouri Department of Agriculture's Bureau of Pesticide Control at 573-751-5504.

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Table 1. Agricultural restricted-use pesticides for Missouri.

Manufacturer / Brand or product name	EPA registration no.	Manufacturer / Brand or product name	EPA registration no.
Aceto Agricultural Chemicals Corp.		Guardsman Max Herbicide	
Aceto Bifenthrin 2EC	2749-556	Mantikor LFR Fungicide/Insecticide	7969-192
Dicromax 8 Insecticide	5481-448-2749	Regent 4SC Insecticide	279-3478-7969
Altitude Crop Innovations		Rezult G Herbicide	
Alpine Endurx	89168-19-91395		7969-207
Alpine Insecticide	89168-19-91395	Cheminova	
Avenger Bold S3 Insecticide	89168-34-91395	Bolton Insecticide	67760-112
Avenger S3	89168-21-91395	Declare Insecticide	67760-96
Blanco Herbicide	89167-24-91395	Fyfanon Plus ULV Insecticide	67760-108
Bridger ATZ Herbicide	89167-30-91395	Nufos 4E Insecticide	67760-28
Bridger ATZ LA	89167-32-91395	Proaxis Insecticide	67760-114
Creede Insecticide	89168-24-91395	Zoro Insecticide	67760-71
Firestone Insecticide	89168-16-91395	Chemtura Corp.	
Ravine Herbicide	831000-47-91395	Comite II Insecticide	400-154
Vail ATZ Herbicide	89167-09-91395	Dimilin 2L	400-461
Voltage Endurx Insecticide	89168-20-91395	Dimilin 25W Insecticide	400-465
AMVAC Chemical Corp.		DoubleTake Insecticide	400-593
Ambush Insecticide	5481-549	Firestorm Herbicide	82557-1-400
Aztec 2.1G	5481-9030	Dow AgroSciences LLC	
Aztec 4.67 Granular Insecticide	5481-9028	Cobalt Insecticide	62719-575
Bidrin 8 Insecticide	5481-448	Cobalt Advanced	62719-615
Bidrin XP II	5481-9024	Fulltime NXT Herbicide	62719-668
Counter 20G Systemic Lock 'N Load Insecticide	5481-562	Graslan L Herbicide	62719-655
Counter 20G Systemic Smartbox	5481-562	Grazon P+D Herbicide	62719-182
Dibrom 8 Emulsive Insecticide	5481-479	Hatchet Insecticide	62719-220
Dibrom Concentrate	5481-480	Hiredhand P+D Herbicide	62719-182
Discipline 2EC Insecticide	5481-517	Inline Fungicide/Nematicide	62719-348
Force 3G Smartbox	100-1075-5481	Keystone Herbicide	62719-368
Force 10G HL Smartbox Insecticide	100-1615-5481	Keystone LA	62719-479
Mocap 15G	5481-9040	Keystone LA NXT	62719-670
Mocap 15G Lock 'N Load	5481-9040	Keystone NXT	62719-671
Mocap EC Insecticide	5481-9041	Lorsban Advanced Insecticide	62719-591
Smartchoice 5G Insecticide	5481-561	Lorsban-4E	62719-220
Smartchoice 5G Lock n Load	5481-561	Outpost 22K Herbicide	62719-6
Smartchoice HC High Concentration	5481-579	Surmount Herbicide	62719-480
Thimet 20-G Lock 'N Load	5481-530	Telone II Soil Fumigant	62719-32
Thimet 20-G Smartbox Insecticide	5481-530	Tordon 22K Herbicide	62719-6
Xpedient FC Insecticide	5481-517	Tordon 101	62719-5
Xpedient Plus	5481-517	Tordon K	62719-17
Xpedient Plus V	5481-609	Drexel Chemical Co.	
BASF Corp.		Drexel Atra 5 Herbicide	19713-80
Fastac CS Insecticide	7969-364	Drexel Atrazine 4L Herbicide	19713-11
Fastac EC Insecticide	7969-298	Drexel Atrazine 90DF	19713-76
G-Max Lite Herbicide	7969-200	Drexel Chlorpyrifos 4E-AG Insecticide	19713-520
		Drexel L-C Insecticide	19713-572

Manufacturer / Brand or product name	EPA registration no.
Drexel Lambdafos Insecticide	19713-671
Drexel Quik-Quat Herbicide	19713-617
Drexel Trizar Herbicide	19713-686
Drexel Trizmax Herbicide	19713-688
Drexel Trizmet II Herbicide	19713-547
Drexel Trizmet Lite Herbicide	19713-663
DuPont De Nemours and Co.	
Asana XL Insecticide	352-515
Breakfree ATZ Herbicide	352-724
Breakfree ATZ Lite Herbicide	352-723
Breakfree NXT ATZ Herbicide	62719-671-352
Breakfree NXT ATZ Herbicide	352-893
Breakfree NXT Lite Herbicide	62719-670-352
Breakfree NXT Lite Herbicide	352-895
Cinch ATZ Herbicide	352-624
Cinch ATZ Lite Herbicide	352-623
Lannate SP Insecticide	352-342
Lannate LV	352-384
Prequel Herbicide	352-779
Vydate C-LV	352-532
Vydate L Insecticide	352-372
FMC Corp.	
Anthem ATZ Herbicide	279-3449
Athena Insecticide	279-3356
Brigade 2EC Insecticide	279-3313
Brigade WSB Insecticide	279-3108
Brigadier Insecticide	279-3332
Capture 3rive 3D Insecticide	279-3467
Capture LFR	279-3302
Declare Insecticide	279-3571
Ethos XB Insecticide/Fungicide	279-3473
Hero EW Insecticide	279-3329
Hero Insecticide	279-3315
Mustang 1.5EW Insecticide	279-3126
Mustang MAXX	279-3426
Pounce 1.5G Insecticide	279-3426
Proaxis Insecticide	279-3583
Stallion Brand Insecticide	279-9545
Steed Insecticide	279-3380
Temitry LFR Insecticide/Fungicide	279-3478
Gharda Chemical Ltd.	
Pilot 4E Chlorpyrifos Agricultural Insecticide	33658-26
Gowan Co.	
Justice Insecticide	8033-116-10163
MSR Spray Concentrate Insecticide	10163-220

Manufacturer / Brand or product name	EPA registration no.
Supracide 2E Insecticide	10163-236
Growmark Inc.	
Calvary	100-1112-534
Calvary II Insecticide	100-1295-534
Infantry 4L Herbicide	100-497-534
Infantry 90DF	100 585-534
Xcelerate ATZ 5.6LHerbicide	524-485-534
Helena Chemical Co.	
Atrazine 4L	5905-470
Defcon 2.1G Insecticide	5481-9030-5905
Defcon 4.67G Granular Insecticide	5481-9028-5905
Empower 2 Insecticide	5905-548
Helena Atrazine 4F	100-497-5905
Helena Atrazine 90DG	100-1097-5905
Ruckus LFR Insecticide	279-3302-5905
LG Life Sciences America Inc.	
Lambdastar 1CS Insecticide	71532-25-91026
Lambdastar EC	71532-20-91026
Lambdastar Plus	71532-29-91026
Permastar AG Insecticide	71532-15-91026
Loveland Products Inc.	
Atrazine 4L	34704-69
Atrazine 90 WDG Herbicide	34704-622
Consero Insecticide	34704-953
Diazinon AG600 Insecticide	66222-103-34704
Holster Insecticide	34704-875
Match-Up Insecticide	34704-1086
Permethrin Insecticide	34704-873
Reaper 0.15 EC Insecticide	34704-923
Reaper Advance	34704-923
Reaper Clear Form	34704-1078
Slider ATZ Herbicide	34704-1041
Slider ATZ Lite	34704-1042
Sniper Helias	34704-858
Sniper Insecticide	34704-858
Sniper LFR	34704-1089
Swagger Insecticide	34704-1045
Tombstone Helios Insecticide	34704-978
Tombstone Insecticide	34704-912
Unforgiven Insecticide	34704-1103
WarHawk Clear Form	34704-1077
Warhawk Insecticide	34704-857
MacDermid Agricultural Solutions Inc.	
Dimilin 2L	400-461
Dimilin 25W	400-465

Manufacturer / Brand or product name	EPA registration no.
DoubleTake Insecticide	400-593
Firestorm Herbicide	82557-1-400
Makhteshim-Agan North America Inc.	
Atrazine 4L	66222-36
Atrazine 90DF	66222-37
Atrazine DF	66222-229
Chlorpyrifos 4E AG Insecticide	66222-19
Fanfare 2EC Insecticide	66222-99
Fanfare EC	66222-261
Fanfare ES	66222-236
Parallel Plus Herbicide	66222-132
Parazone 3SL Herbicide	66222-130
Silencer Insecticide	66222-104
Silencer VXN	66222-223
Monsanto Co.	
Agrisolutions Confidence Xtra 5.6L Herbicide	524-485
Agrisolutions Confidence Xtra Herbicide	524-480
Bullet Herbicide	524-418
Confidence Xtra 5.6L Herbicide	524-485
Confidence Xtra Herbicide	524-480
Degree Xtra Herbicide	524-511
Harness	524-473
Harness 5.6L	524-485
Harness 20G	524-487
Harness MAX	524-636
Harness Xtra Herbicide	524-480
Intrro Herbicide	524-314
Lariat Herbicide	524-329
Micro-Tech Herbicide	524-344
Precept Insecticide	100-1075-524
Sipcam Agro USA Inc.	
Atrazine 4L	35915-4-60063
Atrazine 90DF	35915-3-60063
Stalwart Xtra Herbicide	60063-23
Stalwart Xtra Lite Herbicide	60063-48
Source Dynamics LLC	
Paraquat Concentrate Herbicide	82542-3
Syngenta Crop Protection LLC	
Aatrex 4L	100-497
Aatrex Nine-O Herbicide	100-585
Acceleron INT-210 Insecticide	100-1321
Acuron Herbicide	100-1466
Agri-Mek SC Insecticide	100-1351
Avicta 500 FS Insecticide/Nematicide	100-1204
Avicta Complete Beans 500	100-1457

Manufacturer / Brand or product name	EPA registration no.
Avicta Complete Corn 250	100-1405
Avicta Complete Corn 500	100-1300
Avicta Duo Corn	100-1321
Avicta Duo COT202	100-1538
Avicta Duo Cotton	100-1321
Ballista LFC Insecticide	100-1086
Besiege Insecticide	100-1402
Bicep II Magnum FC	100-817
Bicep II Magnum Herbicide	100-817
Bicep Lite II Magnum	100-827
Callisto Xtra Herbicide	100-1359
Cyclone SL 2.0 Herbicide	100-1431
Endigo ZC Insecticide	100-1276
Expert Herbicide	100-1161
Force 3G Insecticide	100-1075
Force CS Insecticide	100-1253
Gramoxone SL 2.0	100-1431
Gramoxone SL Herbicide	100-1217
Karate Insecticide	100-1097
Lamcap II	100-1295
Lamcap Insecticide	100-1112
Lexar EZ Herbicide	100-1414
Lumax EZ Herbicide	100-1442
Metal II ATX Herbicide	100-817
Scimitar GC Insecticide	100-1088
Warrior II	100-1295
Tenkoz Inc.	
Annex LFR Insecticide	279-3302-55467
Brawl II ATZ Herbicide	100-817-55467
Govern 4E Insecticide	62719-220-55467
Province II Insecticide	100-1295-55467
Province Insecticide	100-1112-55467
Tenkoz Atrazine 4L Herbicide	100-497-55467
Tenkoz Atrazine 4L Herbicide	55467-13
Tenkoz Atrazine 90DF Herbicide	100-585-55467
Tenkoz Atrazine 90DF Herbicide	35915-3-55467
Triangle Herbicide	66222-131-55467
Volley ATZ Corn Herbicide	55467-7
Volley ATZ Lite NXT	62719-670-55467
Volley ATZ NXT	62719-671-55467
United Suppliers Inc.	
Atrazine 4L	33270-10
Atrazine 90DF	33270-9
Sentry Atrazine 4L	33270-10
Sentry Atrazine 90DF	33270-9

