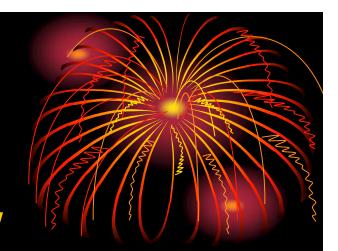


National RUP Requirements

- Name and address of the person for whom the pesticide was applied
- Physical Location of Treated Area
- Crop, Commodity, Stored Product, or Site
- Date of Application
- Brand Name/Product Name
- EPA Registration Number (EPA Reg. No.)
- Amount Applied

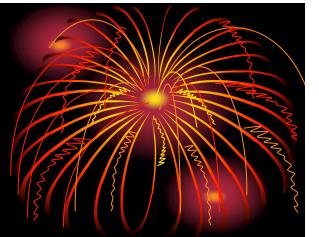
- Rarely do enforcement staff find flawless records
 - errors and omissions are a violation of state or federal law



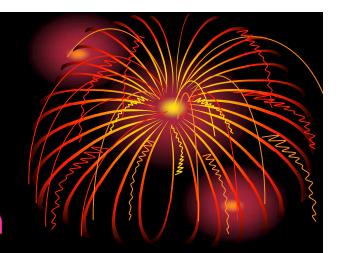
- SMART Consider the importance of recording each detail that describes
 - materials applied
 - how they were applied and who applied them
 - how the equipment was set up
 - any special circumstances that occurred before, during, and after the application
- Don't forget to record the times when application was rescheduled or aborted

- Spray tank concentration
 - Total volume of spray batch note both amount of product and the total spray volume mixed
 - For example, 2 pints in 30 gallons water; or 4 pounds in 50 gallons water.
- Surfactants and other Adjuvants
 - Adjuvant name(s) and spray mix rate
 - buffers, surfactants, wetting agents, spreaders, dyes, oils, etc.
 - Use this information to assess placement, efficacy and possible damage

- Start and stop times
 - Start a new application record
 - if you take an hour break for lunch or for any other reason.
 - Stop time defines the application time block which can be compared to environmental and other conditions/occurrence that happened during that period
- Sprayer operating pressure
 - Document drop size
- Flight or ground speed
 - Document application rate



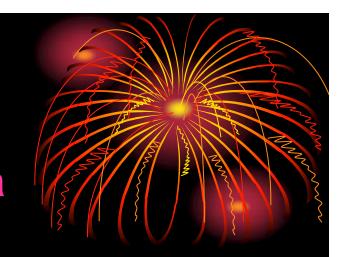
 Wind speed during the application taken in the area of the application



- Purchase a quality anemometer or wind meter to measure wind speed. There are several in the market ranging from \$40-\$120.
- Take readings several times during the application and record the range, for example, 4.5-5.8 mph
- Do not simply report calm or gusty
- Some labels have lower and upper wind speed restrictions

- Nozzle manufacturer, make and size
 - Document your equipment was set up to deliver label-specified droplet size or spray volume
 - Note nozzle manufacturer, nozzle make and size. For example, XR8004, CP03
- Required spray droplet classification
 - Check nozzle manufacturer literature for spray droplet classification based on nozzle size, pressure and speed. Document droplet size and how your equipment was set up to deliver it.
 - Many herbicide labels require a Medium or Coarse droplet

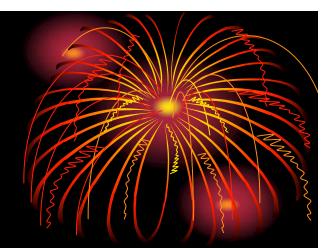
 Air temperature during the application - taken in the area of the application



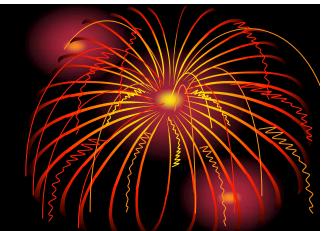
- Record the temperature in Fahrenheit. Take readings several times during the application and note the time of these recordings
- Do not rely on weather stations that are not directly associated with the field. For roadside applications, take a reading close to the pavement and not at chest height.
- Some labels have restrictions on air temperatures.

- Wind direction during the application, taken in the area of the application
 - Record the direction from which the wind is blowing.
 - For example, if you are looking eastward and the wind and flagging is blowing toward you FROM the east, you record an East Wind.
 - When you apply in areas with concerns for offtarget movement, consider actually getting a compass reading for wind directions, say for an east wind, 80-95 degrees from the east.
 - Also note any other wind direction indicators, such as smoke plumes, dust, or flags in the near vicinity of the application area.
 - Radio and TV reports do not suffice.

- Crop variety
 - If you plant a new crop variety or cultivar, it may be good to record this change since sensitivities to chemicals and pests are known to occur between varieties.
- Cloud conditions
 - Make note of sun, partial sun or clouds. Climatic conditions directly influence pesticide efficacy.



Sensitive areas downwind of treatment area

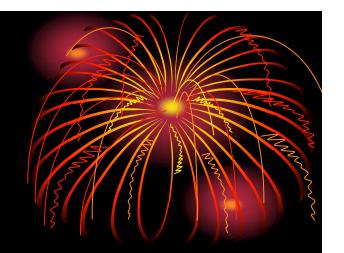


 Note any sensitive site that you recognized to protect in your records. These could include, but are not limited to schools, daycares, organic crops, sensitive plants, wildlife preserves, etc.

Pest timing

- Record the pest stage when application was made.
 - Herbicide example seedling, bolt stage, budding, flowering, rosette, etc.
 - Insecticide example egg, first/second instar, third/fourth instar, adult

- Mapping of treatment area
 - Hand draw maps if necessary
 - Collect GPS coordinates
 - Download GIS mapping is best method for recording accuracy of application
- Mapping of nearby sensitive areas
 - Indicate you recognized sensitive areas
 - Mark sensitive areas on your maps



- Reasons for delaying an application
 - For example, due to the sensitive crop that sits just north of the field, I waited until June 12 to make this application when there was a 5 mph North wind.
- Reasons for halting an application
 - For example, stopped application at milepost 29 when the school bus approached at 3:35 and waited until 3:40 when the bus had passed one mile away.
- Reasons for terminating an application
 - For example, stopped application at 2:15 pm since the wind shifted from the Southeast to the Southwest.

1039-2002-10B

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SERVICE ORDER / INVOICE

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453-6561 / 1-800-662-0818

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5-12-13-04

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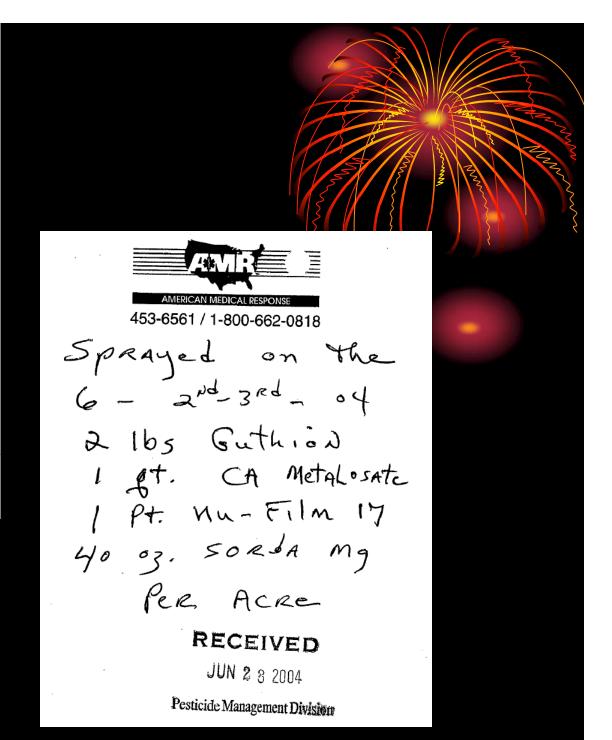
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Pesticide Management Division

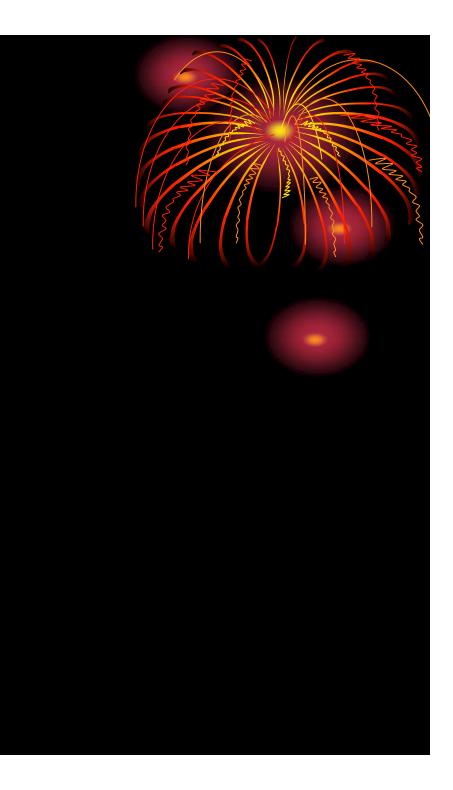




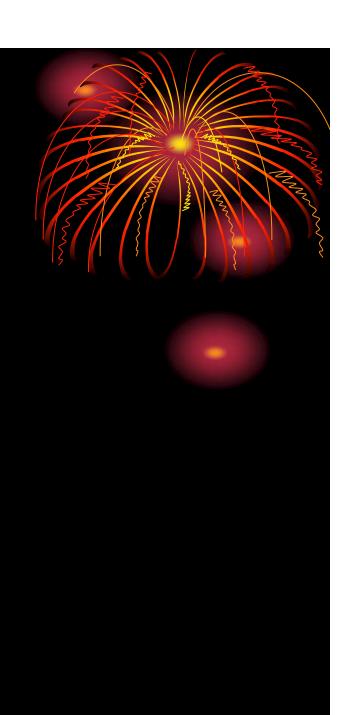
ALL AMERICAN LAWN-N-TREE CARE

PRIDE IN O	UR WORK IS OUR PRIORITY.	
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TREE CARE		
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FOR FREE ESTIMATE CALL: Keith Amack (509) 943-3572

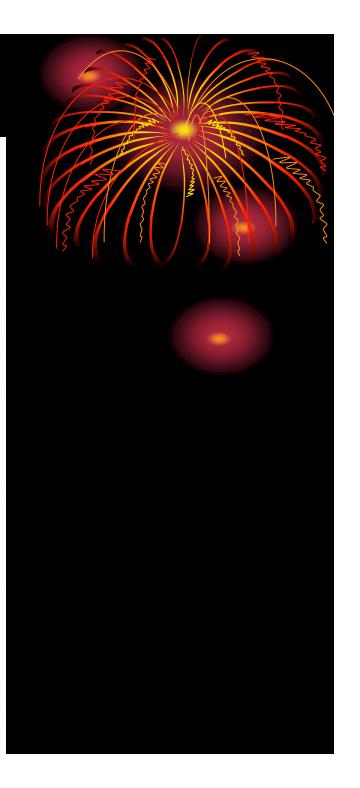


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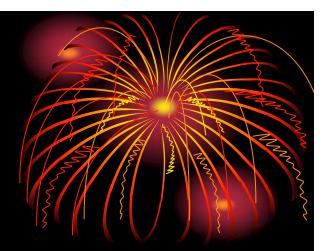
- Pest Management Decisions
 - Assess best performance of pest control tactics and timing
 - Plan for pesticide (insecticide, fungicide, herbicide) resistance management
 - Know and plan for replant restrictions due to residual soil activity and the carry-over concerns for subsequent crops

- Application Efficacy how well did the chemical work
 - Timing for the pest what pest growth stage is best controlled
 - Track the success of reduced rates of application
 - Track adjuvant use and rates
 - Record alternative application techniques such as electrostatic sprayers, shrouds, injection, etc.
 - Assess nozzle type and sizes which can impact coverage and off-target movement

- Application Efficacy how well did the chemical work
 - Record weather factors related to efficacy
 - -cool and dry conditions may reduce pest control
 - hot or cold temperatures can reduce selectivity of certain herbicides
 - hot temperatures can increase volatility
 - cloudy days can impact plant growth and influence herbicide efficacy
 - -rainfastness: timing of subsequent irrigation or rainfall, or lack thereof

Liability Protection

- Documents proper use (rates, volumes, timing, protective measures)
- Verify your professionalism (due care and concern)
- Good records have stopped compliance investigations immediately
- Each missing record item is a violation



- Inventory Control and Dollars (// /)
 - Better estimate your needs by knowing what you used in previous years
 - Don't buy more than needed; minimize disposal headaches
 - Lenders and land developers often require records to evaluate potential environmental liability before lending money or buying land

- Pesticide use data resource/
 - Impact future availability of some pesticides through re-registration
 - Support national use survey by USDA National Agricultural Statistic Services
 - Respond to the public's concern regarding pesticide use

