





UNCE Special Publication 03-03

Applicator Information:

Name:
Address:
Phone:
Mobile:
E mail:
E-mail:

Pesticide Applicator Certification Number:

Expiration Date: _____

Information herein is current as of January 2017. Pesticide label information is the law and always takes precedence. Always read and follow the label instructions exactly. Reference to products is for educational purposes only and does not imply their endorsement, nor is criticism implied of unmentioned products.

Pesticide Record Book for Private Applicators

Private applicators are certified applicators that use or supervise the use of restricteduse pesticides for the purpose of producing an agricultural commodity. The state of Nevada and the United States Department of Agriculture require that certified private applicators maintain records of all restricted-use pesticide applications for a period of two years.

Pesticide-use records may be maintained in any format such as computer programs or field notebooks. This book was produced for the purpose of providing private applicators with a simple method of maintaining records that will meet state and federal requirements.

While state and federal laws require that pesticide restricted-use records be maintained, it is recommended that applicators keep records of all pesticide applications, including general-use pesticide applications. Good records can help applicators determine the effectiveness of pesticide applications during the season and from year to year. Good records help with next season's crop planning.

A licensed or custom applicator is anyone who does pest control for hire. This record book does not meet record keeping requirements for licensed pesticide applicators. However, it is the responsibility of the licensed applicator to provide specific application information to the certified private applicator.

Restricted-use Pesticide Record Keeping Requirements

Records must include: (See example on page 4)

- Date of application
- Certified applicator's name
- Brand or product name
- EPA registration number
- Total amount of undiluted material applied
- Size of area treated
- Crop, commodity, or site
- Location of the application
- Pest treated
- Start and finish temperatures
- Wind speed and direction

Record this information within 14 days of the application. Records must be kept for a period of two years.

EPA registration numbers are found on pesticide labels. For quick reference, use page 44 of this book to record registration numbers and names of pesticides that you apply.

Recording Spot Treatments

Spot applications with herbicides are often used to control noxious weeds. Spot herbicide treatments applied to a total area of less than 1/10 of an acre in the same day require the following records:

- Date of application
- Certified applicator's name
- Brand or product name
- EPA registration number
- Total amount applied
- Spot application followed by location of application. *Example:* spot application to pasture land and ditches.
- Date of application

Pesticides Applied by Licensed (Custom) Pesticide Applicators

Pesticide record keeping regulations require all professional applicators to furnish a copy of the required data to the customer within 30 days of the application. Private applicators are required to maintain this information for two years.

Pesticide Container Recycling/Waste Disposal

Improper disposal of waste pesticides may result in surface or groundwater pollution. The Nevada Department of Agriculture's (NDA) pesticide waste disposal program gives pesticide users the opportunity to properly discard unwanted pesticide products. This is a safe way to protect the environment from pesticide pollution and contamination. Similarly, pesticide containers will deteriorate over time. Leaking containers can result in pesticide exposure to people, pets, wildlife, and the environment. Avoid costly cleanups or pesticide exposure by removing and disposing of unwanted pesticide products. For more information on the pesticide container recycling and waste disposal programs, please find our fact sheets at http://agri.nv.gov/Outreach/Publications/ (contact information is on page 57).

Fumigation Update 2011-2012

To protect workers and bystanders U.S. EPA has implemented new rules for fumigant pesticides these include <u>but are not limited</u> to products containing:

- Methyl Bromide
- Chloropicrin
- Metam Sodium
- Aluminum Phosphide
- Magnesium Phosphide

These are soil and commodity fumigants, structural fumigants, and rodent burrow fumigants.

A written fumigation management plan containing specific site information must be in place prior to all fumigations.

All fumigants are now **restricted use pesticides** and applicators must pass specific fumigation certification exams.

Contact the Nevada Department of Agriculture (775) 353-3715 for more information.

National Pollutant Discharge Elimination System (NPDES)

The EPA requires that individuals applying pesticides to waters of the U.S. obtain an NPDES permit. Pesticide applications in, over, or at waters edge fall under this requirement. This includes applications for mosquito and flying insect control, weed and algae control, nuisance animal control, and forest canopy pest control.

A Pesticide Discharge Management Plan (PDMP) must be completed by the applicator prior to the pesticide application. The PDMP will contain information related to measures used to prevent contamination.

For more information on the NPDES permitting process and for a PDMP template call the Nevada Division of Environmental Protection at (775) 687-9468. Or go to http://cfpub.epa.gov/npdes/.

Pesticide Chemigation

The process of applying pesticides through a sprinkler or drip irrigation system is call chemigation. If a pesticide is approved for chemigation there will be a section on the pesticide label that instructs the user how to properly apply the product.

Pesticide labels also have specific instructions related to pollution prevention hardware that is required to be installed in the system. The purpose of the hardware is to protect the water source from pesticide contamination.

In addition, the product label describes where hardware devices need to be located in the chemigation system in order to prevent contamination.

Alternate Chemigation Devices

In some instances the hardware listed on the pesticide label may not be practical so EPA has approved some alternate devices that may be installed in the system. The alternate devices do not appear on pesticide labeling.

Contact the Nevada Department of Agriculture for information related to alternate chemigation devices and hardware.

Location: '	Location: * field #5											
Crop: alfalfa hay Variety: Lahontan												
Date	Brand Name	EPA Registration Number	Total Amount **	Acres Treated	Pest Treated	Temps*** Start/End	Wind Speed*** & Direction Start/End					
4-3-14	gramoxone	10182-280	2 pints/acre	80 acres	annual weeds	6070	calm to 5 mph from the SW					
6-12-14	strychnine	NV 830009	1 gallon	40 acres	gophers	6575	calm					
6-15-14	tordon 22k	62719-006	2 quarts	spot application ditch banks	weeds	7080	calm to 5 mph westerly					

EXAMPLE: Private Applicator Application Record

- * This is the location of the application. You must be able to locate the site of the application two years after the application. Any of the following methods of keeping this record are acceptable:
 - county, range, township, and section;
 - maps or written descriptions;
 - a USDA identification system such as those used by the Farm Services Agency or the NRCS;
 - the legal property description.
- ** This is the actual amount of the <u>undiluted</u> pesticide applied. Do not include water or other substances.
 Record this information as specified on the label in ounces, pounds, etc.
- *** Temperatures and Wind Speed & Direction at the beginning and end of the application.

Locatio	Location:										
Crop:	Crop: Variety:										
Date	Brand Name	EPA Registration Number	Total Amount	Acres Treated	Pest Treated	Temps Start/End	Wind Speed & Direction Start/End				

Read all the label instructions prior to mixing the chemical.

Locatio	Location:										
Crop: Variety:											
Date	Brand Name	EPA Registration Number	Total Amount	Acres Treated	Pest Treated	Temps Start/End	Wind Speed & Direction Start/End				

Follow the label information to apply pesticides. Mix only the amount of pesticide to be used for the current application. Buy only what you will use.

Location	Location:										
Crop: Variety:											
Date	Brand Name	EPA Registration Number	Total Amount	Acres Treated	Pest Treated	Temps Start/End	Wind Speed & Direction Start/End				

Maintain your application equipment in good working condition.

Locatio	Location:										
Crop:		v	ariety:								
Date	Brand Name	EPA Registration Number	Total Amount	Acres Treated	Pest Treated	Temps Start/End	Wind Speed & Direction Start/End				

Calibrate equipment before each use to ensure the proper application rate is used and the proper amount of product is applied.

Locatio	Location:										
Crop: Variety:											
Date	Brand Name	EPA Registration Number	Total Amount	Acres Treated	Pest Treated	Temps Start/End	Wind Speed & Direction Start/End				

Follow the established re-entry time as stated on the labels or see the restricted entry interval (REI) Table found on many labels.

Locatio	Location:									
Crop:	Crop: Variety:									
Date	Brand Name	EPA Registration Number	Total Amount	Acres Treated	Pest Treated	Temps Start/End	Wind Speed & Direction Start/End			

Avoid over spray and drift, especially when surface water, sensitive non-target species or crops, or urban interface are close to treated fields.

Locatio	Location:										
Crop: Variety:											
Date	Brand Name	EPA Registration Number	Total Amount	Acres Treated	Pest Treated	Temps Start/End	Wind Speed & Direction Start/End				

Avoid applying pesticides within 100 feet of wells and surface water unless the label instructs otherwise.

Location	Location:										
Crop: Variety:											
Date	Brand Name	EPA Registration Number	Total Amount	Acres Treated	Pest Treated	Temps Start/End	Wind Speed & Direction Start/End				

Know what to do in case of accidental pesticide poisoning. Emergency phone numbers are located on page 57 of this booklet.

Locatio	Location:										
Crop: Variety:											
Date	Brand Name	EPA Registration Number	Total Amount	Acres Treated	Pest Treated	Temps Start/End	Wind Speed & Direction Start/End				

Read the product label to learn precautions and emergency procedures that can prevent injury and death.

Locatio	Location:										
Crop:	Crop: Variety:										
Date	Brand Name	EPA Registration Number	Total Amount	Acres Treated	Pest Treated	Temps Start/End	Wind Speed & Direction Start/End				

Load and mix pesticides and clean spray tanks and equipment at the application site, never at a wellhead. Use a portable water tank.

Locatio	Location:									
Crop:	op: Variety:									
Date	Brand Name	EPA Registration Number	Total Amount	Acres Treated	Pest Treated	Temps Start/End	Wind Speed & Direction Start/End			

Triple rinse or pressure rinse pesticide containers immediately after emptying them. Dispose of the rinse water by using the spray tank to apply it.

Location:							
Crop:		Variety:					
Date	Brand Name	EPA Registration Number	Total Amount	Acres Treated	Pest Treated	Temps Start/End	Wind Speed & Direction Start/End

Triple rinse and puncture empty pesticide containers and dispose of them according to label instructions (see pages 3 and 57).

Individual Field Pesticide Use Record

Locatio	Location:									
Crop:	Crop: Variety:									
Date	Brand Name	EPA Registration Number	Total Amount	Acres Treated	Pest Treated	Temps Start/End	Wind Speed & Direction Start/End			

Do not burn or dispose of pesticide containers on the farm; dispose of them according to label instructions (see pages 3 and 57).

Individual Field Pesticide Use Record

Locatio	Location:										
Crop:	Variety:										
Date	Brand Name	EPA Registration Number	Total Amount	Acres Treated	Pest Treated	Temps Start/End	Wind Speed & Direction Start/End				

When possible, apply herbicides as a spot or band application rather than a broadcast application.

Individual Field Pesticide Use Record

Location	Location:										
Crop:	op: Variety:										
Date	Brand Name	EPA Registration Number	Total Amount	Acres Treated	Pest Treated	Temps Start/End	Wind Speed & Direction Start/End				

To prevent development of pest resistance, avoid repetitive use of the same pesticide, or those of similar chemistry.

Individual Field Pesticide Use Record

Locatio	Location:									
Crop:	Variety:									
Date	Brand Name	EPA Registration Number	Total Amount	Acres Treated	Pest Treated	Temps Start/End	Wind Speed & Direction Start/End			

Minimize drift by not spraying on extremely hot or windy days.

Individual Field Pesticide Use Record

Locatio	Location:									
Crop:	Variety:									
Date	Brand Name	EPA Registration Number	Total Amount	Acres Treated	Pest Treated	Temps Start/End	Wind Speed & Direction Start/End			

Store pesticides in their original containers with intact, visible and legible labels.

Individual Field Pesticide Use Record

Locatio	Location:									
Crop:	Crop: Variety:									
Date	Brand Name	EPA Registration Number	Total Amount	Acres Treated	Pest Treated	Temps Start/End	Wind Speed & Direction Start/End			

Follow all labeled directions for storing, mixing, applying and disposing of pesticides and their containers.

Use this table to record EPA registration numbers of pesticides that are applied.

Product Name	EPA Registration Number

Worker Protection Standard (WPS)

The Worker Protection Standard (WPS) requires that agricultural employers take steps to reduce the risk of pesticide-related illness and injury to farm workers and pesticide handlers.

Any producer that employs non-family members to work in areas where pesticides have been applied or that employs individuals to mix and load pesticides must comply with federal WPS requirements.

Employers are required to provide:

- Pesticide safety training annually
- Specific application information
- Restricted entry information
- Decontamination sites with supplies
- Personal protective equipment
- Emergency assistance

Pesticide safety training for employees must be performed by a certified applicator or trainer having completed an EPA approved train-thetrainer program.

The Worker Protection Standard applies to all general- and restricteduse pesticides that are used on cropland.

See "Agricultural Use Requirements" under "Directions for Use" on pesticide labels for complete information on the WPS.

Access to record information is limited to:

- 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.

Civil Penalties:

A certified applicator that violates any provision of the federal regulations will:

- For the first offense, be subject to a fine of not more than \$550.00;
- For subsequent offenses, be subject to a minimum fine of \$1,100 for each violation. The penalty shall be less than \$1,100 if the administrator of USDA Agricultural Pesticide Records Branch, or his or her designee, determines that the certified applicator made a good faith effort to comply.

The state of Nevada may also impose monetary penalties if restricted-use pesticide records are not properly maintained.

Under Federal law, combining pesticides is legal unless labeling of any of the pesticides involved instructs the applicator not to combine them. However, not all pesticides can be mixed. Spray mix incompatibilities contribute to losses of pesticide efficacy and efficiency. Read and follow the label instructions. Always spray mixes as soon as possible.

Antagonism is one type of incompatibility. The following antagonisms are well documented:

- Aliette + fixed copper fungicides
- Basagran + Poast
- DSMA + low pH buffers
- Sulphonyl urea herbicides + low pH
- Paraquat herbicides + anionic surfactants
- Spray oils + sulfur
- Water soluble bags + boron

Herbicides may not always mix evenly throughout a sprayable fluid fertilizer or the components may separate too quickly to make their combined use of any practical value.

If unsure about the compatibility of the mixture's components, test a small quantity by mixing them together before you mix large quantities of the products together. If they separate quickly, combine and form a precipitate, or produce a gelatinous mixture, they should be applied separately. Consult with your pesticide supplier regarding compatibility of specific products.

Sprayer Calibration

Calibration of your spraying equipment is very important. It should be done daily or whenever you change chemicals to ensure application of the proper dosages. Applying incorrect amounts may do more damage than good and always wastes time and money.

Adjustable factors that determine calibration and affect application rate are: speed, pressure, nozzle size, nozzle type and wear, or a combination of these. Speed is the easiest and most common adjustment.

Three Calibration Methods

Method I

A. Measure nozzle flow rate:

gal/nozzle/min =

ounces collected for 1 min from 1 nozzle 128

B. Calculate gallons per acre:

gal/nozzle/min x 12 x 43,560 nozzle spacing x speed

Where:

- nozzle spacing = inches between nozzles and speed = mph x 88
- Test all nozzles to ensure uniformity and replace any that have greater than 10% variation from the average of all nozzles.

Method II

- A. Spray 660 feet at the desired speed and pressure.
- B. Determine the amount of spray discharged (water) while traveling this distance:
 - Collect the spray from each nozzle and add it together; or
 - Mark the beginning level of water in the tank and measure the amount of refill back to the beginning level after spraying.
- C. Use this formula:

gallons/acre =

gallons used in 660 feet x 66 swath width (ft)

Method III

A. Fill the spray tank to a mark and spray a specified number of feet.

- B. After spraying, refill tank to the beginning mark measuring the quantity of material needed for refilling.
- C. Use this formula.

gallons/acre =

43,560 x gallons sprayed distance sprayed x swath width (ft)

Useful Formulas

To determine the **amount of active ingredient (ai)** needed:

number of gallons or pounds =

acres to spray x lb ai/A (recommended) lb ai/gal (liquid) or ai/lb of product

To determine the size of pump needed to apply gallons/acre desired:

pump capacity =

gal/A desired x boom width (ft) x mph

495

To determine the **nozzle capacity** in gallons/minute at a given rate/acre and mph:

nozzle capacity =

gal/A x nozzle spacing (in) x mph 5940

To determine the **sprayed acres/hour**:

acres/hour =

swath width (in) x speed (mph) 100

To determine the **amount of purchased** material to use:

liquids (gallons of product required/A) =

<u>Ib ai/A (recommended)</u> Ib ai/gal (product)

wettable powders (lb of product required/A) =

<u>Ib ai/A (recommended)</u> % ai in formulation

To determine the **rate of speed** in mph: Measure the seconds it takes the tractor to go a distance of 300 to 500 feet.

mph =

distance traveled (ft) 1.47 x time (seconds)

To determine the **nozzle flow rate**: Time the seconds necessary to fill a pint container from a nozzle. Divide the number of seconds into 7.5.

gallons/minute/nozzle =
7.5
seconds

To determine the acreage sprayed per hour:

acres sprayed/hour =

boom width (ft) x mph x 5280 ft 43,560 ft.²

Sprayer Tank Capacity*

1. Cylindrical Tanks:

gallons = length x diameter² x 0.0034

2. Elliptical Tanks:

gallons = length x short diameter x long diameter x 0.0034

3. Rectangular Tanks:

gallons = length x width x depth x 0.004329

*Note: all tank measurements in inches

Water (gallons)		Quan	tity of Ma	terial	
100	1 lb	2 lb	3 lb	4 lb	5 lb
50	8 oz	1 lb	24 oz	2 lb	2½ lb
5	3 tbs	1½ oz	2½ oz	3¼ oz	4 oz
1	2 tsp	3 tsp	1½ tbs	2 tbs	3 tbs

Proportionate Amounts of Dry Material

Proportionate Amounts of Liquid Material

Water (gallons)		Quantity of N	laterial
100	1 qt	1 pt	1 cup
50	1 pt	1 cup	½ cup
5	3 tbs	5 tsp	2½ tsp
1	2 tsp	1 tsp	½ tsp

Miles per Hour (mph) Converted to Feet per Minute (fpm)

mph	<u>fmp</u>
1	88
2	176
3	264
4	352

To find the rows/acre, use this formula:

rows/acre =

 $\frac{43,560 \text{ ft}^2}{\text{row spacing (ft) x row length (ft)}}$

To calculate the acres sprayed, use this formula:

acres = distance traveled (ft) x swath width (ft) 43,560 ft²

Other Equivalents:

- 1 acre = 43,560 square feet
- 1 gallon = 128 fluid ounces
- 1 gallon = 16 cups
- 1 gallon = 4 quarts
- 1 gallon = 8 pints
- 1 pint = 16 fluid ounces
- 1 pound = 16 fluid ounces of water

Use this table to calculate the rows/acre from row length and spacing.

To find the rows/acre with other spacing or lengths use this formula:

rows/acre = <u>43,560 ft²</u> row spacing (ft) x row length (ft) Use this table to calculate the acreage from swath width and distance traveled.

Distance	Swath Width (feet)					
Traveled	10	15	20	25	30	35
(feet)	Acres Covered					
100	0.02	0.03	0.05	0.06	0.07	0.08
150	0.03	0.05	0.07	0.09	0.10	0.12
200	0.05	0.07	0.09	0.12	0.14	0.16
250	0.06	0.09	0.12	0.14	0.17	0.20
300	0.07	0.10	0.14	0.17	0.21	0.24
350	0.08	0.12	0.16	0.20	0.24	0.28
400	0.09	0.14	0.18	0.23	0.28	0.32
450	0.10	0.16	0.21	0.26	0.31	0.36
500	0.12	0.17	0.23	0.29	0.35	0.40
600	0.14	0.21	0.28	0.35	0.41	0.48
700	0.16	0.24	0.32	0.40	0.48	0.56
800	0.18	0.28	0.37	0.46	0.55	0.64
900	0.21	0.31	0.41	0.52	0.62	0.72
1000	0.23	0.35	0.46	0.58	0.69	0.81
1200	0.28	0.41	0.55	0.69	0.83	0.97
1300	0.30	0.45	0.60	0.75	0.90	1.05
2600	0.60	0.90	1.20	1.50	1.79	2.09
3960	0.84	1.26	1.68	2.10	2.53	2.95
5280	1.21	1.82	2.43	3.04	3.64	4.25

To determine the acres in a given area:

acres = distance traveled x swath width (ft) x 0.000023

Nevada Department of Agriculture Offices

Agriculture Office

http://agri.nv.gov

Sparks (Main Office)

405 South 21st Street • Sparks, NV 89431 775-353-3600, FAX 775-353-3713 **Elko** 4780 East Idaho Street • Elko, NV 89801 775-738-8076, FAX 775-738-2639 **Las Vegas**

2300 E. Saint Louis Ave • Las Vegas, NV 89104 702-688-4590, FAX 702-688-4567

University of Nevada Cooperative Extension

http://www.unce.unr.edu

Administrative Offices UNR Campus

Mark Walker Dean/Director walkerm@unce.unr.edu National Judicial College, Suite 118 University of Nevada-Reno ● Mail Stop 0404 Reno, NV 89557 775-784-7070, FAX 775-784-7079

Las Vegas

8050 Paradise Road, Suite 105 • Las Vegas, NV 89123 702-251-7531, FAX 702-251-7536

Area Offices

Northern Area

Frank Flavin, Area Director 4955 Energy Way ● Reno, NV 89502 775-784-4848, FAX 775-784-4881

Southern Area

Eric Killian, Area Director 8050 Paradise Road, Suite 105 • Las Vegas, NV 89123 702-251-7531 FAX 702-251-7536

County Offices

Carson City/Storey County

2621 Northgate Lane, Suite 15 ● Carson City, NV 89706 775-887-2252, FAX 775-887-2065

Churchill County

111 Sheckler Road • Fallon, NV 89406 775-423-5121, FAX 775-423-7594

Clark County

8050 Paradise Road, Suite 100 • Las Vegas, NV 89123 702-222-3130, FAX 702-222-3100

Douglas County

1325 Waterloo Lane P.O. Box 338 • Minden, NV 89423 775-782-9960, FAX 775-782-9968

Elko County

701 Walnut Street • Elko, NV 89801

775-738-7291, FAX 775-753-7843

Eureka County

701 South Main Street

P.O. Box 613 • Eureka, NV 89316

775-237-5326, FAX 775-237-5164

Humboldt County

1085 Fairgrounds Road • Winnemucca, NV 89445 775-623-6304, FAX 775-623-6307

Lander County

815 North Second Street • Battle Mountain, NV 89820 775-635-5565, FAX 775-635-8309

Lincoln County 360 Lincoln Street P.O. Box 728 • Caliente, NV 89008 775-726-3109. FAX 775-726-3332 Lyon County 504 South Main Street P.O. Box 811 • Yerington, NV 89447 775-463-6541, FAX 775-463-6545 Mineral County 205 South A Street P.O. Box 810 • Hawthorne, NV 89415 775-945-3444, FAX 775-945-2259 Northeast Clark County 1897 North Moapa Valley Boulevard P.O. Box 126 • Logandale, NV 89021 702-397-2604, FAX 702-397-8301 Northern Nye/Esmeralda County #1 Frankie Street – Old Courthouse P.O. Box 231 • Tonopah, NV 89049 775-482-5001, FAX 775-482-5396 Pershing County 810 Sixth Street P.O. Box 239 • Lovelock, NV 89419 775-273-2923, FAX 775-273-7647 Southern Nye County 1651 East Calvada Boulevard • Pahrump, NV 89048 775-727-5532, FAX 775-727-6199 Washoe County – Pyramid Lake 208 Capital Hill P.O. Box 256 • Nixon, NV 89424 775-574-0441. FAX 775-574-0442 Washoe County - Reno 4955 Energy Way • Reno, NV 89502 775-784-4848. FAX 775-784-4881 White Pine County 950 Campton Street • Ely, Nevada 89301 775-289-4459, FAX 775-289-1462

Website Addresses:

Nevada Department of Agriculture; Environmental Services: <u>http://agri.nv.gov/Plant/Environmental Services</u> /Environmental Services Home/

University of Nevada Cooperative Extension Pesticide Education Program: http://www.nevadapesticideeducation.info

Other Important Numbers:

Emergency Phone Numbers

Pesticide Accident Hotline CHEMTREC (material safety information, spills, leaks, etc.) 800-424-9300

> National Poison Center Hotline 800-222-1222

Phone Numbers for Pesticide Safety and Information

University of Nevada Cooperative Extension http://www.unce.unr.edu 775-784-4848

> Nevada Department of Agriculture <u>http://agri.nv.gov/</u>

Sparks (Main Office)	775-353-3600
Las Vegas	702-668-4590
Elko	775-738-8076

United States Department of Agriculture Pesticide Records Branch

http://www.ams.usda.gov/AMSv1.0/pesticiderecords 703-330-7826

National Pesticide Information Center (NPIC)

http://www.npic.orst.edu 800-858-7378

January	February	March	January	February	March
SMTWTFS	SMTWTFS	SMTWTFS	SMTWTFS	SMTWTFS	SMTWTFS
1 2 3 4 5 6 7	1 2 3 4	1 2 3 4	1 2 3 4 5 6	1 2 3	1 2 3
8 9 10 11 12 13 14		5 6 7 8 9 10 11	7 8 9 10 11 12 13	4 5 6 7 8 9 10	4 5 6 7 8 9 10
15 16 17 18 19 20 21		2 13 14 15 16 17 18	14 15 16 17 18 19 20	11 12 13 14 15 16 17	11 12 13 14 15 16 17
22 23 24 25 26 27 28		9 20 21 22 23 24 25	21 22 23 24 25 26 27	18 19 20 21 22 23 24	18 19 20 21 22 23 24
29 30 31	26 27 28 2	6 27 28 29 30 31	28 29 30 31	25 26 27 28	25 26 27 28 29 30 31
Apr11	May	June	April	May	June
SMTWTFS		SMTWTFS	SMTWTFS	SMTWTFS	SMTWTFS
1		1 2 3	1 2 3 4 5 6 7	1 2 3 4 5	1 2
2 3 4 5 6 7 8		4 5 6 7 8 9 10	8 9 10 11 12 13 14	6 7 8 9 10 11 12	3 4 5 6 7 8 9
9 10 11 12 13 14 15 16 17 18 19 20 21 22		1 12 13 14 15 16 17	15 16 17 18 19 20 21 22 23 24 25 26 27 28	13 14 15 16 17 18 19	10 11 12 13 14 15 16
23 24 25 26 27 28 29		8 19 20 21 22 23 24 5 26 27 28 29 30	22 23 24 25 26 27 28	20 21 22 23 24 25 26 27 28 29 30 31	17 18 19 20 21 22 23 24 25 26 27 28 29 30
30	28 29 30 31 2	3 26 27 28 29 30	29 30	27 28 29 30 31	24 25 26 27 28 29 30
30					
July	August	September	July	August	September
SMTWTFS	SMTWTFS	SMTWTFS	SMTWTFS	SMTWTFS	SMTWTFS
1	1 2 3 4 5	1 2	1 2 3 4 5 6 7	1 2 3 4	1
2 3 4 5 6 7 8		3 4 5 6 7 8 9	8 9 10 11 12 13 14	5 6 7 8 9 10 11	2 3 4 5 6 7 8
9 10 11 12 13 14 15	15 14 15 16 17 18 19	0 11 12 13 14 15 16	15 16 17 18 19 20 21	12 13 14 15 16 17 18	9 10 11 12 13 14 15
16 17 18 19 20 21 22	20 21 22 23 24 25 26 -	7 18 19 20 21 22 23 4 25 26 27 28 29 30	22 23 24 25 26 27 28	19 20 21 22 23 24 25	16 17 18 19 20 21 22 23 24 25 26 27 28 29
23 24 25 26 27 28 29	27 28 29 30 31	4 23 26 27 28 29 30	29 30 31	26 27 28 29 30 31	23 24 25 26 27 28 29
30 31					30
October	November	December	October	November	December
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