

## Typical Use Rates for 2,4-D on Pasture and Rangeland in California

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To: [Harold D. Coble](#)

Agronomist  
USDA/ARS/OA

From: [Rick Melnicoe](#)

Director, Western Region Integrated Pest Management Center

Dear Harold,

Attached is an [Excel file](#) that provides information from California for the year 2002 on the use of several formulations of 2,4-D on pasture and rangeland. These data should answer your question for California.

Rick

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Crop or Site	AI	Num. of Fields	% Base Acres Treated	Base Acres Treated	Cum. Acres Treated	Total Lbs AI	Lbs AI/ acre treated			Num. apps
							Med rate	Min rate	Max rate	
PASTURELAND	2,4-D	1	0.10	41	41	32	0.78	0.78	0.78	1
RANGELAND	2,4-D	1	0.02	20	20	5	0.23	0.23	0.23	1
PASTURELAND	2,4-D, 2-ETHYLHEXYL ESTER	13	0.95	396	418	386	1.41	0.71	2.83	15
RANGELAND	2,4-D, 2-ETHYLHEXYL ESTER	1	0.15	156	236	201	0.72	0.72	0.72	2
PASTURELAND	2,4-D, ALKANOLAMINE SALTS (ETHANOL AND ISOPROPANOL AMINES)	1	0.07	30	30	7	0.23	0.23	0.23	1
PASTURELAND	2,4-D, BUTOXYETHANOL ESTER	7	0.66	276	276	317	0.55	0.43	1.74	8
RANGELAND	2,4-D, BUTOXYETHANOL ESTER	2	0.06	65	65	10	0.05	0.05	0.41	6
PASTURELAND	2,4-D, DIMETHYLAMINE SALT	192	21.13	8,818	9,983	10,345	1.13	0.02	2.73	254
RANGELAND	2,4-D, DIMETHYLAMINE SALT	65	6.94	7,416	8,938	4,875	0.90	0.03	3.38	100
PASTURELAND	2,4-D, ISOOCTYL ESTER	1	0.05	20	20	27	0.82	0.72	0.93	1
RANGELAND	2,4-D, ISOOCTYL ESTER	3	0.05	55	55	5	0.07	0.07	0.07	4

Description of all columns used in the pesticide use table

**"Num. of Fields"** is the number of fields that were treated with an AI.

**"% Base Acres Treated"** is the percent of acres of crop planted, as calculated from the PUR, that were treated one or more times by each active ingredient (AI).

**"Base Acres Treated"** is the total number of acres planted that were treated one or more times by each AI.

**"Cumulative Acres Treated"** is the sum of the acres treated for each application even when the same area was treated more than once.

**"Total Lbs AI"** is the sum of pounds of each AI used on this crop.

**"Med rate"** is the median rate of all applications.

**"Min rate"** is the smallest rate after removing the lowest 2.5% of the rate values.

**"Max rate"** is the largest rate after removing the highest 2.5% of the rate values.

**"Num. apps."** is the number of applications of the AI in the crop. Applications of the same AI to the same field within 2 days is counted as one application.

**"Med apps/field"** is the median number of applications per field, taken over only fields treated with the AI.

**"Min apps/field"** is the smallest number of applications per treated field after removing the lowest 2.5% of values.

**"Max apps/field"** is the largest number of applications per treated field after removing the highest 2.5% of values

**"Num. WFE apps"** is the number of "whole field equivalent (WFE)" applications. A WFE application is the acres treated divided by acres planted in that field.

**"Med WFE/ field"** is the median number of WFE applications per field, taken over all treated fields

**Min WFE/ field"** is the smallest number of WFE applications per treated field after removing the lowest 1.0% of values

**"Max WFE/ field"** is the largest number of WFE applications per treated field after removing the highest 1.0% of values