



COUNTY OF GLENN
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#6
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GROUND WATER PROTECTION AREA (GWPA) PERMIT CONDITIONS

Ground Water Protection Areas (GWPA) are geographically defined areas that are vulnerable to pesticide contamination either by leaching or runoff. GWPAs include all existing pesticide management zones (PMZs), plus other areas based on specified soil types, and a depth to groundwater of 70 feet or less. There are two types of groundwater areas, Leaching and Runoff.

Leaching GWPAs are defined as sections of land where pesticides residues move from the soil surface through the soil matrix with percolating water to groundwater. Leaching GWPAs are located in areas with lighter-textures soils and relatively rapid infiltration rates.

Runoff GWPAs are defined as sections of land where pesticide residues are carried in runoff water to more direct routes to groundwater such as dry wells or drainage wells, poorly sealed production wells, or soil cracks or to areas where leaching can occur. Runoff GWPAs are located in areas with hardpan layers and/or low infiltration rates.

6800a list pesticides: (California Restricted when used in GWPA must be on permit.)

Active Ingredient	Pesticide Name	Pesticidal Action
Atrazine	Aatres, Strike	Pre-emergence
Bentazon	Basagran	Contact (Not to be use in Glenn County)
Bromacil	Hyvar X, Hyvar XL	Pre-emergence
Diuron	Karmex, Direx	Pre-emergence
Norflurazon	Solicam Predict, Zorial	Pre-emergence
Prometon	Pramitol	Pre-emergence
Simazine	Simazine, Princep	Pre-emergence

Uses of 6800a list pesticides must be applied or application supervised by a licensed applicator. (QAL, QAC, PAC, or PCO.)

Permit Conditions in Runoff GWPAs. (One permit condition must be selected.)

- 1.) Soil Disturbance:** The soil is disturbed within 7 days before the pesticide is applied. Soil is disturbed by use of a disc, harrow or rotary cultivator. (Note: this condition does not apply to area that is immediately adjacent to the crop row and that does not exceed 33% of the distance between crop rows.)
- 2.) Incorporating:** The pesticide is incorporated on at least 90% of the area treated within 48 hours after the pesticide is applied, by mechanical means or sprinkler or by low flow irrigation (1/4 to 1 inch), including chemigation if allowed by the label. (Note: this condition does not apply to the area immediately adjacent to the crop row and that does not exceed 33% of the distance between crop rows.)
- 3.) Band treatment:** The pesticide is applied as a band treatment, not to exceed 33% of distance between rows.
- 4.) Timing of application:** The pesticide is applied between April 1 and July 31.
- 5.) Control of Runoff within the treated field:** All runoff water (either from irrigation or precipitation) is retained on the treated site for 6 months after application, provided the holding area has a percolation rate of less than 0.2 inches per hr.
- 6.) Control of Runoff outside the treated field:** All runoff (either from irrigation or precipitation) is stored offsite for 6 months after application, provided the channel transporting the runoff and the holding area have a percolation rate of less than 0.2 inched per hour.
- 7.) Control of Runoff outside the treated field:** For 6 months following application, runoff shall be managed so that it runs off onto an adjacent fallow field at least 300 feet long that is not irrigated for 6 months after application, with full consideration of any plant back restrictions.

Permit conditions in Leaching GWPA's: (one permit condition must be selected.)

- 1.) **No Irrigation:** No irrigation water is applied for six months following application of pesticide.
- 2.) **No contact with irrigation water:** Pesticides are applied to the planting bed or the berm above the level of the irrigation water in the furrow or basin so there is no contact with the irrigation water.
- 3.) **Irrigation management:** The irrigations are managed so that, for each irrigation applied for 6 months after the pesticide is applied, the net amount of water applies divided by the net irrigation requirement is 1.33 or less.
Note: (1) the net irrigation requirement is the amount of water needed to bring the soil in the crop root zone to field capacity at the time of irrigation. It can be determined by direct measurements of soil moisture, such as by using tensiometers, or indirect measurement of soil moisture, such as by estimating evapotranspiration that has accumulated since the last irrigation.

Glenn County Ground Water Areas

Township	Range	Section	Type
18N	01W	30	LEACHING
18N	03W	05	RUNOFF
18N	03W	07	RUNOFF
18N	03W	18	RUNOFF
18N	04W	01	RUNOFF
19N	01W	08	LEACHING
19N	02W	05	RUNOFF
19N	02W	09	RUNOFF
19N	03W	03	RUNOFF
19N	03W	06	RUNOFF
19N	03W	07	RUNOFF
19N	03W	08	RUNOFF
19N	03W	09	RUNOFF
19N	03W	10	RUNOFF
19N	03W	17	RUNOFF
19N	03W	18	RUNOFF
19N	03W	22	RUNOFF
19N	03W	31	RUNOFF
19N	04W	01	RUNOFF
19N	04W	02	RUNOFF
19N	04W	12	RUNOFF
19N	04W	23	RUNOFF
19N	04W	25	RUNOFF
20N	03W	03	RUNOFF
20N	03W	09 NE	LEACHING
20N	03W	09 NW	RUNOFF
20N	03W	09 SE	LEACHING
20N	03W	09 SW	RUNOFF
20N	03W	16	RUNOFF
20N	03W	19	RUNOFF
20N	03W	20	RUNOFF
20N	03W	25	RUNOFF
20N	03W	33	RUNOFF
20N	03W	34	RUNOFF
20N	03W	36	RUNOFF
20N	04W	01	RUNOFF
20N	04W	12	RUNOFF
21N	01W	10	LEACHING
21N	02W	14	RUNOFF
21N	02W	23	RUNOFF
22N	03W	22	RUNOFF