



# LODI RULES for Sustainable Winegrowing

## Pesticide Risk Model: PEAS INSTRUCTIONS



The EASIEST way to calculate the total **Pesticide Environmental Assessment System (PEAS) Impact Index Points** for a vineyard for the certification year (post-harvest the previous year through harvest of the current year) is to do it on a per application basis, then take the sum.

1. For each pesticide applied, calculate the per acre rate that was used for that application. If a pesticide was only applied to part of the vineyard (e.g. an herbicide application), take the total amount of pesticide applied to the area sprayed and divide this number by the total vineyard acres in the certification block to get the per acre rate. See examples below.
2. To calculate the **PEAS Impact Index Points** for a single application, look up the pesticide on the **PEAS list** (Tab 7 in the Binder or available on [lodigrowers.com](http://lodigrowers.com)) and find the **Impact Index Points per Unit** for that pesticide. The **Impact Index** listed is for one unit of the pesticide. For example, for Sulfur dust the **Impact Index** is 0.15 points per pound (lb) or unit of sulfur. If 10 lbs per acre of sulfur is applied in one dusting, the total **Impact Index Points** for that application per acre is:

10 lbs per acre x 0.15 Impact Index points per lb = 1.50 Impact Index Points per acre

3. Calculate the **PEAS Impact Index Points** for each application of pesticides for the entire year from post-harvest to harvest, and add them all up to get the total number of **PEAS Impact Index Points** for the certification year. See below:

Spray Date	Pesticide Trade Name	Per Acre Rate of Application	Unit of Material	PEAS Impact Index per Unit	PEAS Impact Index Points per Acre
4/13/22	Sulfur dust	10	lb	0.15	1.50
4/22/22	Sulfur dust	15	lb	0.15	2.25
5/03/22	Sulfur dust	15	lb	0.15	2.25
5/13/22	RoundUp Ultra Dry*	$0.92 \div 3 = 0.31$	lb	0.23	0.07*
5/16/22	Sulfur dust	14	lb	0.15	2.10
5/29/22	Sulfur dust	15	lb	0.15	2.25
6/02/22	Rally 40W	3.88	oz	0.08	0.31
6/24/22	Provado Solupak 75% WP	0.63	oz	5.47	3.45
6/24/22	Acramite 50WS	0.87	lb	0.82	0.71
6/24/22	Pristine	11.49	oz	0.02	0.23
7/28/22	Gramoxone Max*	$1 \div 3 = 0.33$	pt	3.43	1.13*
7/31/22	RoundUp Ultra Dry*	$0.63 \div 3 = 0.21$	lb	0.23	0.05*
<b>Total PEAS Impact Index Points per Acre for 2022</b>					<b>16.30 ✓</b>

*\*Herbicide was only sprayed on a third of the vineyard, so the per acre rate was divided by 3 and that figure was used to calculate the per acre **Impact Index Points***

**To become certified, do not exceed 50 Total PEAS Impact Index Points per Acre**

**NOTE:** If you plan to use a pesticide that is not on the **most current PEAS list** (which can always be found at [lodigrowers.com](http://lodigrowers.com)), please contact [stephanie@lodiwine.com](mailto:stephanie@lodiwine.com) ASAP or by **JULY 1st**. **EVERY LODI RULES participant must submit PEAS calculations to their Auditor by October 31st.**

**DO include in PEAS:** pesticides (which may include fungicides, herbicides, insecticides, miticides, nematocides, bactericides), soil fumigants

**DON'T include in PEAS:** spray solution additives (adjuvants, surfactants, spreaders, stickers), baits, EPA-exempt materials