

## Peanuts - Herbicide water activation amounts

1 message

Daniel J Anco &lt;danco@clermson.edu&gt;

Tue, May 17, 2022 at 3:46 PM

Cc: Daniel J Anco &lt;danco@clermson.edu&gt;, Michael Marshall &lt;marsha3@clermson.edu&gt;

Copied below is a table listing water activation requirements for pre-emergence herbicides that Dr. Marshall prepared for the April 2022 issue of Peanut Grower magazine.

The full article may be viewed at <https://peanutgrower.com/digital-issue/>

Table 1. Water activation rainfall amount, herbicide water solubility and leaching potential in sandy soils.			
Herbicide Product	Rainfall Req. (inches)	Water Solubility (mg/L)	Leaching Potential (sandy soils)
diclosulam (Strongarm)	0.25-0.50	117	low
metolachlor (Dual Magnum)	0.25-0.50	488	medium
flumioxazin (Valor SX,EZ)	0.25	1.8	low
dimethenamid-p (Outlook)	0.25-0.50 <sup>a</sup>	1174	low
acetochlor (Warrant)	0.50 <sup>b</sup>	223	low
pyroxasulfone (Zidua)	0.50	3.5	medium
ethafluralin (Sonalan)	0.50-1.0	0.3	very low
pendimethalin (Prowl H2O&EC)	0.75	0.3	very low
imazethapyr (Pursuit)	**c	1400	low

<sup>a</sup> According to the product label, a field treated with Outlook must receive a minimum of 0.5 inch of rainfall before using tailwater from the treated field for irrigating other fields. (I believe this is much higher than the amount required for soil activation for weed control).

<sup>b</sup> If treated area has not received a minimum of 0.5 inch of rainfall within 10 days of application, a shallow incorporation is recommended.

<sup>c</sup> Sufficient water to moisten soil profile to 2 inches is normally adequate for the activation of Pursuit.

Dan Anco

Extension Peanut Specialist and Associate Professor

Department of Plant and Environmental Sciences

Clemson University – Edisto Research and Education Center

64 Research Road

Blackville, SC 29817

630-207-4926 cell

[danco@clermson.edu](mailto:danco@clermson.edu)<https://www.clemson.edu/extension/agronomy/peanuts/>

Clemson University Cooperative Extension Service offers its programs to people of all ages, regardless of race, color, gender, religion, national origin, disability, political beliefs, sexual orientation, gender identity, marital or family status and is an equal opportunity employer.