

# 2019 West TN Hemp Variety Trial

Heather M. Kelly, Field Crops Pathologist, [youngkelly@utk.edu](mailto:youngkelly@utk.edu)  
 Zach Hansen, Specialty Crops Pathology, [zhansen1@utk.edu](mailto:zhansen1@utk.edu)  
 Madison Cartwright, graduate student, [mcartwright@utk.edu](mailto:mcartwright@utk.edu)  
 Eric Walker, Agronomist, [eric@bscleaf.com](mailto:eric@bscleaf.com)



## Data collected:

- Leaf spot incidence and severity
- Corn Ear Worm injury
- Plant maturity
- Plant height
- Number of branches
- Yield (reported as bud fresh, dry, or trimmed weight - lbs/plant)
  - Harvest at Jackson – Sept – Nov.
- Cannabinoid results

\*Differences in varieties across all data collected were observed

Table 1. Information on locations for 2019 hemp variety trials

	Jackson <sup>1</sup>	HRREC <sup>2</sup>	GREC <sup>3</sup>
Number of Varieties	14	18	25
Experimental Design	RCBD	RCBD	RCBD
Replications	6	4	4
Plant Spacing	4.0-4.5 ft x 6 ft	6 ft	6 ft
Planting Date	17 to 19-Jun	17-Jun	28-Jun
Fertility	196-148-112	240-96-312	240-96-312
Disease Rating	14 to 19-Sept	7-Oct	2-Oct
Disease Index <sup>4</sup>	5.0	3.1	3.8

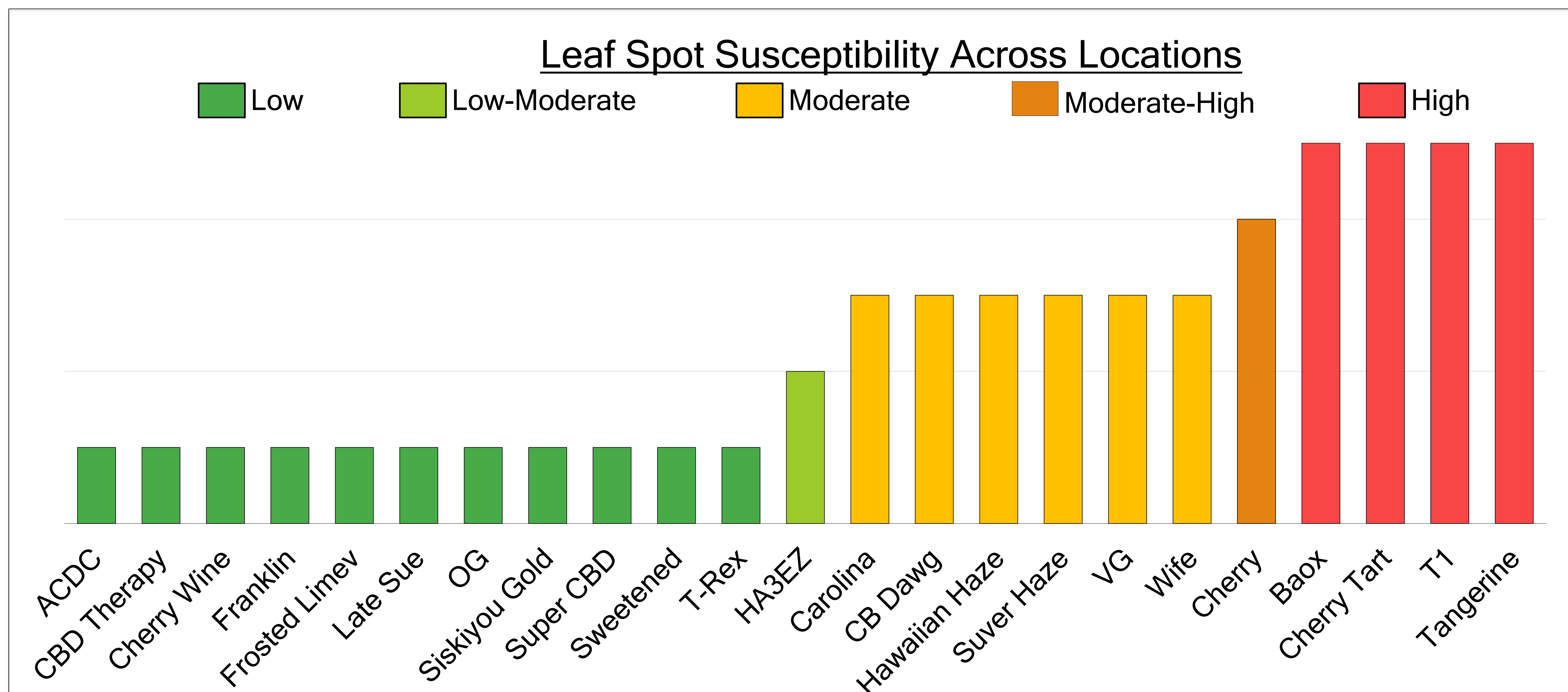
<sup>1</sup>On-farm location in Jackson, TN (Madison County)

<sup>2</sup>Highland Rim Research and Education Center, Springfield, TN (Robertson County)

<sup>3</sup>Greenville Research and Education Center, Greeneville, TN (Greene County)

<sup>4</sup>Leaf spot index = incidence\*severity/100

- Varying levels of leaf spot susceptibility



- Leaf spot susceptibility did not impact yield (lbs or CBD) at Jackson

- On average from these data weight of buds were reduced by ~70% from drying  
 ~ 36% from trimming

