

Sheet1

2022-'23 ISU Veterinary Diagnostic Laboratory data, Cyanide (HCN) in Cherry Leaves

*Ensiled samples were drawn and frozen in winter or early spring.

June-harvested samples had more warm weather for fermentation than did October-harvested.

Harvested	Site, Sample Description	HCN ppm as fed	% Moisture	HCN ppm DM
09/29/22	YKF Black Cherry, Fresh	123.8	60	309.50
09/29/22	YKF Black Cherry, Ensiled	22.3		
06/27/23	MOFGA Black Cherry, Fresh	201.9	62	531.32
06/27/23	MOFGA Black Cherry, Ensiled	<50	66	<147.06
06/29/23	MOFGA Pin Cherry, Fresh	115.3	58	274.52
06/29/23	MOFGA Pin Cherry, Ensiled	<50	67	<151.52
10/11-12/23	YK WW Black Cherry, Fresh	113.4	58	270
10/11-12/23	YK WW Black Cherry, Ensiled (left out 24 hrs on a gray day)	<50	64	<138.89

ISUDVL Guidelines:

ppm HCN DM

0-500 Generally safe, should not cause toxicity

600-1,000 Potentially toxic, should not be the only source of feed.

1,000 & above Dangerous to cattle & usually will cause death.