Iowa State Veterinary Diagnostic Labortory Cyanide Analyses on 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.

Harvest Date	Site, Sample Description	HC ppm as fed	Moisture %	HC ppm DM	formula
09/29/22	YKF Black Cherry, Fresh	123.8	60	309.50	309.5
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	

Level of prussic acid in forage (dry matter basis) and potential effect on animals	
ppm HCN	Effect on animals
0-500	Generally safe; should not cause toxicity.
600-1,000	Potentially toxic; should not be the only source of feed.
1,000 and above	Dangerous to cattle and usually will cause death.