



YAKIMA CHIEF - HOPUNION LLC  
**CERTIFICATE OF ANALYSIS**

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203 Division Street  
Yakima, WA 98902  
P // 509 453 4792  
F // 509 453 1551  
hops@ychhops.com  
ychhops.com

**Date Issued:** October 12, 2016  
**Analysis Results Issued To:** Northern Girl Hops

**Brewing Values**

Sample ID	Analysis Date	Variety	Description	Alpha Acids	Beta Acids	HSI
H160739	10/11/2016	Centennial	Centennial	9.8	4.8	0.200
H160740	10/11/2016	Cascade	Cascade	6.3	6.5	0.184
H160741	10/11/2016	Sterling	STERLING	8.1	5.7	0.199
H160742	10/11/2016	Golding	GOLDING	8.6	5.3	0.215

**Method of Analysis**

ASBC Hops 6A –  $\alpha$ -acids/ $\beta$ -acids by Spectrophotometry  
ASBC Hops 12 – Hop Storage Index (H.S.I.)

Issued By

A handwritten signature in black ink that reads "Ashley Trenkenschuh".

Ashley Trenkenschuh  
Quality Control Data Coordinator