

The following is my (Shana Hanson's) summary
from Wayne Zeller's data on our tree and shrub leaf forage samples.

HCl-Butanol-Acetone-Iron Assay (modified HCl-Butanol Assay)

Screening tool for assessing presence and relative
levels of Condensed Tannins

Thanks to Andrea Clemensen
for introducing Wayne to me,
for this collaboration.

Thanks to: Wayne E. Zeller
USDA-ARS, U.S. Dairy
Forage Research Center,
Madison, WI 53706

(The higher the rating, the more
Condensed Tannins, comparatively.)

0 White Ash
1 Green Ash, Honeysuckle, Pagod Dogwood

1.5 Creeping Blackberry

3 American Basswood

3.5 Winterberry, Smooth Buckthorn, Norway Maple

5 Red Maple, Rock Maple, Black Cherry, Pin Cherry, American Elm, American Beech,
Arrowwood, Leatherwood,

5.5 Red Oak

6 Box Elder, Birdsfoot Trefoil

7 Gray Birch (catkins were same), Quaking Aspen, Big-Toothed Aspen,

8 White Birch

10 Black Locust

from Wayne Zeller's 4/03/24 data chart

3 of Wayne Zeller's 5 slides of photo data follow,
used by me with his permission for NOFA MA
Go Nuts Agroforestry Presentation, May 2, 2024.

* Darkness correlates to level of
Condensed Tannins.

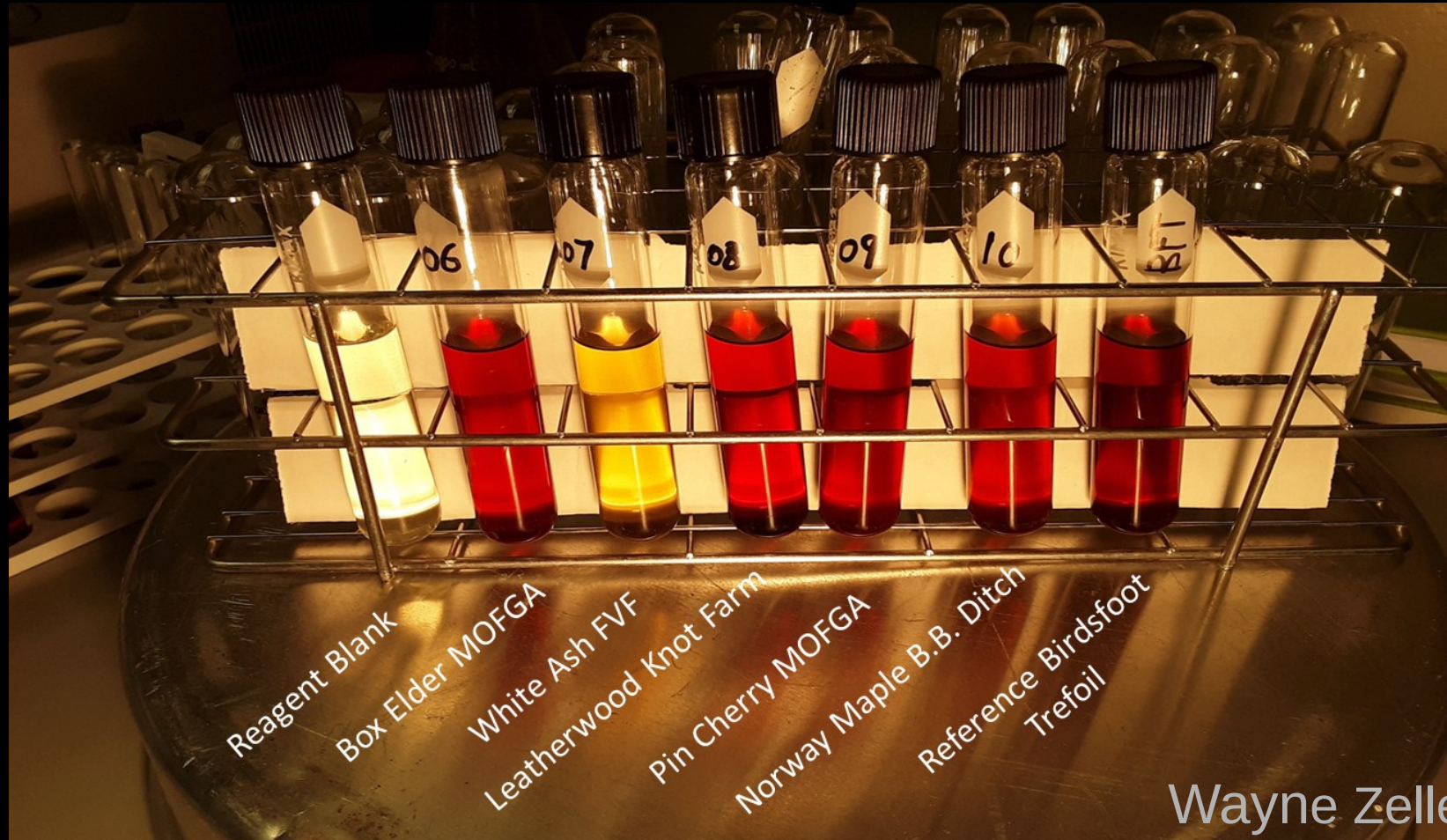
Samples 1-5 along with controls

(The darker the solution becomes, the more Condensed Tannins.)



Wayne Zeller photo

Samples 6-10 along with controls



Wayne Zeller photo

Samples 16-20 along with controls

