# Woody Cover Surveys 2014

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## Timing

Two eddy covariance sites were surveyed for woody cover (e.g. mesquite, acacia, willow). The Kendall grassland site was surveyed in September 2014, and the Santa Rita Grassland site was surveyed in October 2014.

## Methods

A 60-m tape measure was attached to the eddy covariance tower enclosure and rotated clockwise from magnetic north, defined as a bearing of zero (0). Woody plants were surveyed by quadrant (0-90, 90-180, etc.). The value recorded in the Excel data sheet is the first bearing of a given quadrant (i.e. “0” for the first quadrant). For each woody plant, the distance from the tower was recorded from the tape, while the height and canopy diameter were measured with a meter stick and/or section of the tape. The height of plants more than 3 meters tall was estimated.

## Plant Species

### At Kendall, the woody cover species included

MT = Mormon Tea, Ephedra viridis

SAG = Sage (probably Sand sagebrush, Artemisia filofolia)

CHO = Cholla, cylindropuntia spp.

MES = Mesquite, Prosopis velutina

WHAC = Whitethorn Acacia, Acacia constricta

YUC = Yucca. *Yucca* *elata*

BRO = Broom, *Baccharis* *sarothroides*

SUM = Sumac (probably, what kind) desert sumac

### At SRG, the woody cover species included

CHO = Cholla, cylindropuntia spp.

MES = Mesquite, Prosopis velutina

GRTH = Graythorn, Ziziphus obtusifolia

DW = Desert Willow, *Chilopsis* *linearis*

HAC = Desert Hackberry, Celtis pallida

PP = Prickly Pear, opuntia spp.

## Data are stored in the following files:

* Raw data including plant, quadrant, distance, height, diameter, on per site in Excel Spreadsheets entitled SRG\_WoodyCover\_Oct\_2014.xlsx, KN\_WoodyCover\_Oct\_2014.xlsx
* Summary showing calculated percent covery by species and quadrant, with one sheet per site in a combined workbook: 2014\_Woody Surveys\_SRG\_Kendall.xlsx
* Original data sheets (three pdf files) for Kendall only. Cannot locate SRG data sheets.