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Readme file for the SaguaroCensusData.csv data file for

Orum TV, Ferguson N, Mihail JD. Saguaro (*Carnegiea gigantea*) Mortality and Population Regeneration in the Cactus Forest of Saguaro National Park: Seventy-Five Years and Counting; PLOS ONE to be submitted.

The column names and description of the data are as follows:

PLOTID The six 4-hectare plots are labeled B2, B7, C7, F2, F3, and F5.
PLANTID Saguaro are labeled sequentially starting with 1 in each plot.
SAGUAROID A unique id assigned to each saguaro by adding 0, 1000, 2000, 3000, 4000, and 5000 to the PLANTID for saguaros in plots B2, B7, C7, F2, F3, and F5 respectively
YRADDED The year a saguaro was added to the census; -9999 means the plant was part of the original census in 1942
YRFIRSTMEASURED This is the year the saguaro was first measured. It is equal to YRADDED except for plants not measured in the year they were found.
HTYEARFIRSTMEASURED Height in inches the year the saguaro was first measured.
SLAGEYEARFIRSTMEASURED Age in years is assigned based on HTYEARFIRSTMEASURED and Table 2-10 found in Steebergh and Lowe 1983, citation [8] in this paper.
S&LGERMINATIONYEAR Calculated as YRFIRSTMEASURED-SLAGEYEARFIRSTMEASURED
TNAGEYEARFIRSTMEASURED Age in years is assigned based on HTYEARFIRSTMEASURED and Table 3 in this paper.
T&NGERMINATIONYEAR Calculated as YRFIRSTMEASURED-TNAGEYEARFIRSTMEASURED
NURSE PLANT Genus species of the nurse plant, or description if no nurse plant
COVER CLASS C1=large trees; C2=small trees or large shrubs; C3=small shrubs, grass or in open, minimal cover
YRDEAD The year a plant died; -9999 means the plant is still alive in 2016
AGEDEAD Calculated as TNAGEYEARFIRSTMEASURED + (YRDEAD-YEARFIRSTMEASURED)
CAUSE Mortality classified as BN (bacterial necrosis) if the cortical tissue has collapsed; it is classified as Wind/Poria if the saguaro is on the ground with root ball exposed. BN-F is for bacterial necrosis following freeze of 2011.

Note that for the following fields, named HTxxINCH, a -9 means "not measurable" and a -2,-3,-4, or -5 means height class 2, 3, 4, or 5. See HT42 below for explanation of height classes.

HT79INCH Height of plant in inches to the nearest 1/4 inch in 1979
HT80INCH Height of plant in inches to the nearest 1/4 inch in 1980
HT81INCH Height of plant in inches to the nearest 1/4 inch in 1981
Note: no height data were taken in 1982
HT83INCH Height of plant in inches to the nearest 1/4 inch in 1983
HT84INCH Height of plant in inches to the nearest 1/4 inch in 1984
HT85INCH Height of plant in inches to the nearest 1/4 inch in 1985
HT86INCH Height of plant in inches to the nearest 1/4 inch in 1986
HT87INCH Height of plant in inches to the nearest 1/4 inch in 1987
HT88INCH Height of plant in inches to the nearest 1/4 inch in 1988
HT89INCH Height of plant in inches to the nearest 1/4 inch in 1989
HT90INCH Height of plant in inches to the nearest 1/4 inch in 1990
HT91INCH Height of plant in inches to the nearest 1/4 inch in 1991
HT92INCH Height of plant in inches to the nearest 1/4 inch in 1992
HT93INCH Height of plant in inches to the nearest 1/4 inch in 1993
HT94INCH Height of plant in inches to the nearest 1/4 inch in 1994
HT95INCH Height of plant in inches to the nearest 1/4 inch in 1995
HT96INCH Height of plant in inches to the nearest 1/4 inch in 1996
HT97INCH Height of plant in inches to the nearest 1/4 inch in 1997
HT98INCH Height of plant in inches to the nearest 1/4 inch in 1998
HT99INCH Height of plant in inches to the nearest 1/4 inch in 1999

HT00INCH Height of plant in inches to the nearest 1/4 inch in 2000
 HT01INCH Height of plant in inches to the nearest 1/4 inch in 2001
 HT02INCH Height of plant in inches to the nearest 1/4 inch in 2002
 HT03INCH Height of plant in inches to the nearest 1/4 inch in 2003
 HT04INCH Height of plant in inches to the nearest 1/4 inch in 2004
 HT05INCH Height of plant in inches to the nearest 1/4 inch in 2005
 HT06INCH Height of plant in inches to the nearest 1/4 inch in 2006
 HT07INCH Height of plant in inches to the nearest 1/4 inch in 2007
 HT08INCH Height of plant in inches to the nearest 1/4 inch in 2008
 HT09INCH Height of plant in inches to the nearest 1/4 inch in 2009
 HT10INCH Height of plant in inches to the nearest 1/4 inch in 2010
 HT11INCH Height of plant in inches to the nearest 1/4 inch in 2011
 HT12INCH Height of plant in inches to the nearest 1/4 inch in 2012
 HT13INCH Height of plant in inches to the nearest 1/4 inch in 2013
 HT14INCH Height of plant in inches to the nearest 1/4 inch in 2014
 HT15INCH Height of plant in inches to the nearest 1/4 inch in 2015
 HT16INCH Height of plant in inches to the nearest 1/4 inch in 2016
 HT42 Height class in 1942; 1:0-6ft; 2:6-12 ft; 3:12-18 ft; 4:18-24 ft; 5:taller than 24 ft.
 HT60 Height class in 1960; 1:0-6ft; 2:6-12 ft; 3:12-18 ft; 4:18-24 ft; 5:taller than 24 ft.
 HT68 Height class in 1968; 1:0-6ft; 2:6-12 ft; 3:12-18 ft; 4:18-24 ft; 5:taller than 24 ft.
 HT79 Height class in 1979; 1:0-6ft; 2:6-12 ft; 3:12-18 ft; 4:18-24 ft; 5:taller than 24 ft.
 HT80 Height class in 1980; 1:0-6ft; 2:6-12 ft; 3:12-18 ft; 4:18-24 ft; 5:taller than 24 ft.
 HT87 Height class in 1987; 1:0-6ft; 2:6-12 ft; 3:12-18 ft; 4:18-24 ft; 5:taller than 24 ft.
 HT88 Height class in 1988; 1:0-6ft; 2:6-12 ft; 3:12-18 ft; 4:18-24 ft; 5:taller than 24 ft.
 HT93 Height class in 1993; 1:0-6ft; 2:6-12 ft; 3:12-18 ft; 4:18-24 ft; 5:taller than 24 ft.
 HT98 Height class in 1998; 1:0-6ft; 2:6-12 ft; 3:12-18 ft; 4:18-24 ft; 5:taller than 24 ft.
 HT2000 Height class in 2000; 1:0-6ft; 2:6-12 ft; 3:12-18 ft; 4:18-24 ft; 5:taller than 24 ft.
 HT2003 Height class in 2003; 1:0-6ft; 2:6-12 ft; 3:12-18 ft; 4:18-24 ft; 5:taller than 24 ft.
 HT2006 Height class in 2006; 1:0-6ft; 2:6-12 ft; 3:12-18 ft; 4:18-24 ft; 5:taller than 24 ft.
 HT2007 Height class in 2007; 1:0-6ft; 2:6-12 ft; 3:12-18 ft; 4:18-24 ft; 5:taller than 24 ft.
 HT2008 Height class in 2008; 1:0-6ft; 2:6-12 ft; 3:12-18 ft; 4:18-24 ft; 5:taller than 24 ft.
 HT2010 Height class in 2010; 1:0-6ft; 2:6-12 ft; 3:12-18 ft; 4:18-24 ft; 5:taller than 24 ft.
 HT2013 Height class in 2013; 1:0-6ft; 2:6-12 ft; 3:12-18 ft; 4:18-24 ft; 5:taller than 24 ft.
 HT2015 Height class in 2015; 1:0-6ft; 2:6-12 ft; 3:12-18 ft; 4:18-24 ft; 5:taller than 24 ft.
 HT2016 Height class in 2016; 1:0-6ft; 2:6-12 ft; 3:12-18 ft; 4:18-24 ft; 5:taller than 24 ft.
 HT88FEET Height in feet calculated from clinometer reading
 HT88CL Placed in height classes based on HT88FEET
 HT92FEET Height in feet calculated from clinometer reading
 HT92CL Placed in height classes based on HT92FEET
 ARMS1968 Number of branches greater than 10 cm in diam in 1968
 ARMS1979 Number of branches greater than 10 cm in diam in 1979

ARMS1988	Number of branches greater than 10 cm in diam in 1988
ARMS1993	Number of branches greater than 10 cm in diam in 1993
ARMS1998	Number of branches greater than 10 cm in diam in 1998
ARMS2003	Number of branches greater than 10 cm in diam in 2003
ARMS2008	Number of branches greater than 10 cm in diam in 2008
ARMS2010	Number of branches greater than 10 cm in diam in 2010
ARMS2013	Number of branches greater than 10 cm in diam in 2013
ARMS2014	Number of branches greater than 10 cm in diam in 2014
ARMS2015	Number of branches greater than 10 cm in diam in 2015
ARMS2016	Number of branches greater than 10 cm in diam in 2016