

# Sedum, Succulent, Cactus: What's the Difference?

BY MARY ANN KING  
Master Gardener

It's all in the way they are grouped. The gardener only needs to remember the three classifiers of genus, species and cultivar for identification purposes. A genus encompasses a group of species that are closely related.

Species is a more specific classification within the genus group and can produce fertile offspring. For example in the name Sedum glaucophyllum, Sedum is the genus and glaucophyllum the species of Appalachian stonecrop that grows well in rocky alkaline soil.

A cultivar further classifies the sedum that has been selected for desirable traits. With Sedum glaucophyllum 'Dazzleberry' on the plant tag, the plant may appear burgundy instead of green.

Knowing these classifications will help in understanding the difference between sedum, succulents, and cactus. The word succulent is used to describe the plant characteristic and is not a

formal classification. Succulents have some parts of the leaves, roots or stems that are thickened and fleshy, and retain water in arid climates or soil conditions. Within the same genus there may also be plants with succulent attributes and a normal plant stem. Lots of plants have some succulent characteristics that allow them to adapt to dry conditions. Succulents originated in arid regions and have features that allow them to survive drought.

Cactus retains water within the plant structure, which is also a succulent characteristic. Cacti commonly have thorns. Hobby cactus growers often separate cacti from succulents by presence or absence of thorns rather than strictly by the botanical classification that are sometimes harder to see. Cacti are members of Cactaceae family. Because plants may have adaptations to dry conditions that make them appear related, this adds to confusion.

Sedum is a genus of flowering plants that also have

the succulent characteristics of water storing leaves and stems. Sedums are part of the Crassulaceae family. Sedum is also commonly called stonecrop because of its stone like appearance. Appalachian stonecrop has a white flower. With 600 species found in the Northern Hemisphere, sedums vary from annuals, perennials, and creeping herbs to shrubs. Sedum and cactus have succulent characteristics but come from two different families within the plant hierarchy.

If a gardener wishes to develop a rock garden or to grow drought resistant plants, seeking cultivars with succulent characteristics would be a good choice. These plants are beautiful and have unique body forms. There are numerous varieties of cultivars that are low growing or tall, flowering and creeping plants that, once established, require minimal care.

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## BIF Frank Baker Award Winner



BROOKINGS, S.D. - Jamie Parham, graduate student at South Dakota State University's College of Agriculture and Biological Sciences, was awarded the Beef Improvement Federation (BIF) Frank Baker Award during the organization's annual convention held in Biloxi, Miss., June 9-12.

Parham was awarded a \$1,000 scholarship for her essay entitled, "The effect of discovery bias on genomic selection and why it can no longer be ignored." Her submission was based on the research project she is currently conducting.

"My project deals with the accuracy of genomic selection," said Parham. "I am researching ways to make the genomic part of the breeding values, not necessarily more accurate, but closer to their true accuracy by accounting for discovery bias. Making estimates of breeding values more accurate will be beneficial to all aspects of the beef industry."

The BIF convention serves to facilitate discussion and provide education on current issues facing the beef industry and relay information to beef producers about research being conducted. Parham was one of only two essay scholarship winners.

Dr. Joe Cassady, SDSU Animal Science Department Head and former BIF executive director, has mentored Parham as a graduate student at SDSU.

"Jamie Parham is a very talented student," said Cassady. "Her work ethic, in combination with her intelligence, has her off to a fast start toward a very bright, promising career in beef cattle genetics."

Parham, who is originally from North Carolina, earned her bachelors degree in animal science at North Carolina State University. While there, she met Dr. Cassady, who encouraged her to pursue a master's degree in animal breeding and genetics

at SDSU.

"I wouldn't be here if it weren't for Dr. Cassady," said Parham. "He has a way of seeing the potential in students and helping them live up to that. I respect him a lot for everything he has done for me and all his graduate students."

The BIF meetings provide graduate students like Parham the opportunity to network and meet beef industry leaders from throughout the United States and internationally.

"Receiving the Frank Baker Award is a step forward into my future career," said Parham. "Being included on the list of people who have won the award is a high honor and I am very grateful to be selected for this scholarship." Jamie Parham, South Dakota State University, was awarded the Frank Baker Memorial Scholarship award during the recent Beef Improvement Federation Annual Convention in Biloxi, Miss. Pictured (from left) Craig Bieber, Leola, S.D., incoming BIF President, Joe Cassady, SDSU Animal Science Department Head, Brookings, S.D., retiring BIF Executive Director, Parham, and Steve Munger, Highmore S.D., retiring BIF President. Photo courtesy of the Angus Journal. ■iGrow

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**COLLECTOR CARS & PARTS AUCTION**

**Saturday, July 18, 2015 • 10 a.m.**

**LOCATION: Mc Lean, NE :** 24 miles north of Norfolk, or 36 miles south of Yankton, SD to Hwy 20, then 1 west and 2 north to McLean, auction will be in far Northwest part of town, follow auction signs

**Note:** This auction consist of approximately 215 cars and trucks that could be considered survivors. They range in years from the 50's to the 80's, with the majority in the 60's and early 70's. There are far too many to list them all here. For more detailed list, visit our web site, [www.fowlkesrealtyauction.com](http://www.fowlkesrealtyauction.com). Conditions range from no title parts only cars, to easy restoration cars with titles. There will be a \$25 title fee for cars with titles. Call Doug Backhaus @ (402)360-0756 for information.

**COLLECTOR CAR PROJECTS**

- 1970 Chevelle SS body, has new GM 1/4's, interior, wiring, weatherstrip, and more ready for finish work was a 402 big block car, will include a 454 to be rebuilt
- 1969 Chevelle, SS #s matching 325 hp 396, automatic, power windows, locks, ac, bucket seats w/ console, and more new GM 1/4's installed, good muscle project.

- 1969 Impala 2 door, factory 396 auto complete
- 1957 Chevy 4 door hardtop v-8 good project
- 1958 Impala 2 door hardtop 283 v-8 auto, complete in pieces, good project car
- 1958 Delray 6 cylinder near complete last driven in '73
- 1959 El Camino 348 v-8 auto complete in pieces good project car
- 1965 Chevy Impala SS
- 1963 Chevy Biscayne 2 door
- 1963 and 1964 Chevy station wagon
- 1957 Mercury Monterey 2 door hardtop good project car
- 1960 Pontiac 2 door hardtop
- 1961 Plymouth Belvedere
- 1955 Ford Country Squire wagon
- 1958 Edsel Ranger
- 1962 and 1968 Cadillacs
- Ramblers, and AMC's
- Approximately 60 Chevys from late 40's to 70's
- Approximately 45 Ford and Mercury cars from 50's to 70's
- Various other makes including VW, Olds, Pontiac, Dodge Chrysler Plymouth and more.

**TRUCKS**

- 2006 Chevy 2500HD reg cab 4x4 6.0 auto, BW turnover ball, 265k runs good.
- 2002 Chevy 2500HD ext cab 8' box, 144k runs good
- 1999 Ford F250 v-10 4x4 w/ snow plow
- 1989 Chevy 1 ton w/ dump box
- 1975 Chevy 1 ton du-
- ally flat bed, 350 v-8 auto runs good
- 1966 Chevy C60 truck w/ wood box and hoist
- 1963 GMC 1/2 ton 2x4 good body, has bad v-6 engine
- International Scout pickup plus 4 other Internationals
- 1948-52 Chevy and GMC trucks and parts
- 1967-1997 Chevy and GMC trucks in various condition
- 1973-1979 Ford trucks and parts
- 1950 Chevy 3100 5 window short box truck project
- 1950 Chevy 1 ton delivery wagon
- 1962 Ford 1/2 ton short box uni-body, 292 v-8

**PARTS**

There will be approximately 3-4 trailer loads of parts to start the auction

- 1968 Cutlass 442 hood
- 1980 Camaro hood
- (2) 1968-69 Chevelle hoods
- Big Block and small Chevy valve covers, intakes and carbs
- Lots of steering wheels, including 70 Charger,
- Road Runner, 69 Mach 1 and others
- 1975 Trans Am sub frame for street rod project
- Many instrument clusters, and parts
- Various tail lights , and head lights
- 73-79 Ford pick-up side molding set
- Set of 18" wheel s and
- tires from 2004+ Ford 1/2 ton 4x4
- Set of 16" wheels and tires for 97-8 Chevy GMC 1/2 ton
- Misc. tailgates from various trucks
- Take off box from '92-97 Ford short box, 99-06 F250, and others
- Many more parts too numerous to mention.

**ALSO SELLING**

- John Deere 2 row planter
- Other equipment including some horse drawn equipment
- Several old implement steel wheels
- Old forge
- John Deere tractor hoods styled and unstyled
- Buck eye cast iron seat
- Black hawk and other hand corn shellers
- Cream cans, other metal cans
- Enamel coffee pots and pans
- Old post office boxes
- Some old house doors
- Old platform scale with weights
- Belt pulley from IH tractor
- Several old metal toys
- Old wire garden gate
- Galvanized wash tub
- Old hand water pumps
- Other misc, farm primitives and antiques
- Several good pick-up box trailers
- Shop made 20' steel deck trailer
- New 3000lb 12 volt winch's
- Torch hose reel
- Other misc. items

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**The following will be sold at public auction located at 102 North St. Viborg, SD or from Wells Fargo Bank 1-block east and 1/2 block north on:**

**THURSDAY JULY 23RD 4:00 P.M.**

**REAL ESTATE SELLS FIRST**

**LEGAL:** South 20' of Lot 3 and all of Lot 4 Blk 1 Original Add. City of Viborg, Turner County, SD.

- 1320 sq ft living area on main floor home built in 1948 with an addition in 1997 that offers a large 15 1/2 X 16 master bedroom, remodeled kitchen with custom cabinetry, large living room, on a 68 X 142 lot.
- Detached 24 X 26 garage, 8 X 12 lawn shed, 10 X 16 rear deck, several established shade and fruit trees
- Property is currently on tax freeze with taxes froze at \$258.36. Current Assessed Value is \$51,180.00 with estimated taxes of \$1,100 annually
- New Air conditioner installed in June 2015, new sewer line in basement, recently painted, move in ready home with great floor plan. 720 sq ft dry basement.
- Room sizes, pictures, disclosure statement found in Buyers Packet

**TO INSPECT THE HOME:** Open house will be held on July 9th & 16th from 5:00 to 7:00 p.m. or contact the auctioneers at 800-251-3111. Buyers packet can be mailed out or can be viewed at [www.wiemanauktion.com](http://www.wiemanauktion.com)

**TERMS:** Cash sale with 15% non-refundable down payment auction day with the balance on or before August 23rd 2015. Warranty deed to be granted with the cost of title insurance split 50-50 between buyer and seller. Taxes to be prorated to date of possession based on the actual taxes and not the frozen taxes. Sold subject to owners approval and auctioneers represent the seller only. Come check out this well-kept and clean home.

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## Insights on Changes in Feed-Grade Antibiotic

BROOKINGS, S.D. - Livestock producers and veterinarians recently gained a bit more insight into the changes they'll be facing in the way antibiotics are used in food animals when the Food and Drug Administration (FDA) released their final rule June 2015 regarding how the Veterinary Feed Directive (VFD) will be used.

"This provides livestock producers with more details about this classification of feed-grade antibiotics," explained Russ Daly, Professor, SDSU Extension Veterinarian, and State Public Health Veterinarian.

Daly references the Dec. 2013 Food and Drug Administration (FDA) guidance for industry documents which outlined, among other changes, how the Veterinary Feed Directive (VFD) will become a critical component of food animal feed-grade antibiotic use.

"The changes outlined in 2013 will remove the labeled indications for the use of many feed-grade antibiotics for growth promotion and feed efficiency," he said.

Daly further explained that each manufacturer of these products has agreed to make label changes before the full implementation date of December 2016. "Since extra-label use of feed-grade antibiotics in food animals is illegal, these uses will no longer be allowed," he said.

Another huge change outlined in the 2013 documents will change the classification of "medically important" feed-grade antibiotics from their current over-the-counter status to the VFD designation.

Daly said the list of what FDA considers "medically important" antibiotics contains common drugs like tetracy-

■ **ANTIBIOTIC,**  
Page 10