

# FFA

## FIELD CROPS

### REGULATIONS:

- All field crop exhibits must be in place by noon on Thursday, July 25.
- All field crop exhibits will be released between 9:00 a.m. and 3:00 p.m. on Sunday, August 4. **Those not picked up by this time will be discarded. OEF is not responsible for damage to exhibits.**
- All entries must have been grown by the exhibitor as a part of his or her supervised agricultural experience program. All samples must have been produced during the year specified for the class.
- Only exhibits of high quality and purity will be judged eligible for premium.
- Grain and seed samples will be displayed in containers furnished by the Fair. There must be exactly two quarts in all seed and grain samples. Samples of incorrect size may be disqualified.
- Each sample must contain a label showing exhibitor's name, chapter, kind of crop, variety and class number.**
- Clipped oats and barley will be excluded from competition.
- Each ear of corn must be in its natural condition with not more than one percent of its grains missing.
- Exhibitor is limited to one (1) entry in each class in all field crops classes.
- TEACHERS, PLEASE USE ENTRY FORMS AND TAGS** for crops available from the Fair Office.
- A Champion and Reserve Champion will be selected and rosettes given in: Grain and Seed, Plants, Baled Hay.

**Grain and Seed:** Entries in classes 900-922 should be **2019 crop** unless otherwise specified.

| Class                            | Class                                                          |
|----------------------------------|----------------------------------------------------------------|
| 900 Corn, 10 ears, yellow hybrid |                                                                |
| 901 Corn, 10 ears, white hybrid  |                                                                |
| 902 Corn, yellow shelled         | 913 Sweet Clover                                               |
| 903 Corn, white shelled          | 914 Birdsfoot Trefoil                                          |
| 904 Wheat (2017 or 2018)         | 915 Lespedeza                                                  |
| 905 Oats (2017 or 2018)          | 916 Reed Canary                                                |
| 906 Winter Barley                | 917 Timothy (2017 or 2018)                                     |
| 907 Rye                          | 918 Red Top (2017 or 2018)                                     |
| 908 Soybeans                     | 919 Bromegrass (2017 or 2018)                                  |
| 909 Grain Sorghum                | 920 Orchardgrass (2017 or 2018)                                |
| 910 Forage Sorghum               | 921 Tall Fescue (2017 or 2018)                                 |
| 911 Red Clover                   | 922 Misc. (must meet standards of similar grain or seed above) |
| 912 Sudangrass                   |                                                                |

**Plants:** Each entry in classes 923 through 943 should be from **2019 crop**, in 1 bundle, 3" in diameter, unless otherwise specified.

| Class                                         | Class                                                          |
|-----------------------------------------------|----------------------------------------------------------------|
| 923 Cornstalks, bundle of 3 stalks (no roots) | 933 Millet                                                     |
| 924 Soybean plants, bundle of 3 stalks        | 934 Timothy                                                    |
| 925 Tobacco, 1 stalk                          | 935 Bromegrass                                                 |
| 926 Cotton, 1 stalk, defoliated               | 936 Orchardgrass                                               |
| 927 Alfalfa                                   | 937 Red Top                                                    |
| 928 Birdsfoot Trefoil                         | 938 Fescue                                                     |
| 929 Lespedeza                                 | 939 Big Blue Stem                                              |
| 930 Red Clover                                | 940 Switch Grass                                               |
|                                               | 941 Indian Grass                                               |
|                                               | 942 Grain or Forage Sorghum, 3 hds                             |
| 931 Sweet Clover                              | 943 Miscellaneous (must meet Standards of similar entry above) |
| 932 Sudangrass                                |                                                                |

**Baled Hay:** Entries in classes 944 through 951 should be in 4" blocks, from **2019 crop** and must be tied with twine in a crisscross manner. Mark square bales as classes 944A-950A and round bales as 944B-950B.

| Class          | Class                          |
|----------------|--------------------------------|
| 944 Alfalfa    | 948 Mixed Grass and Legume Hay |
| 945 Lespedeza  | 949 Warm Season Grass Hay      |
| 946 Red Clover | 950 Grain Hay                  |
| 947 Grass Hay  | 951 Miscellaneous              |

## FFA HORTICULTURE

### REGULATIONS:

- All horticulture exhibits must be in place by noon on Thursday, July 25.
- All horticulture exhibits will be released between 9:00 a.m. and 3 p.m. on Sunday, August 4. **Those not picked up by this time will be discarded. OEF is not responsible for damage to exhibits.**
- All entries must have been grown by the exhibitor as a part of his or her supervised agricultural experience program. All samples must have been produced during the year specified for the class.
- Only exhibits of high quality and purity will be judged eligible for prize money.
- Exhibitor is limited to one (1) entry in each class in all horticulture classes except Fruits and Vegetables. Exhibitor is limited to a total of ten (10) entries in Bedding Plants or House Plants. Exhibitor is limited to three (3) entries per class in Fruits and Vegetables classes. Entries must be different varieties. For example, separate plates of Concord, Niagara and Seyval grapes may be entered by one exhibitor in the Plate of Grapes class.
- Each Chapter is limited to a total of 75 entries in any one class.**
- TEACHERS, PLEASE USE PRE-ENTRY FORMS AND TAGS** for horticulture exhibits available from the Fair Office.
- A Champion and Reserve Champion will be selected and rosettes given in: Horticulture Arrangements (classes 952-967), Fruits and Vegetables (classes 968-988), Garden Flowers (classes 989-1000), Perennials (classes 1001-1009), House Plants and Bedding Plants (classes 1010-1067), Flower Boxes/Planters (class 1068).

### Horticulture Arrangements

| Class                          | Class                                         |
|--------------------------------|-----------------------------------------------|
| 952 Corsage, fresh             | 961 Centerpiece, silk - dried                 |
| 953 Corsage, silk - dried      | 962 Centerpiece, podium or church arrangement |
| 954 Planter, terrarium         | 963 FFA Week Arrangement, fresh               |
| 955 Planter, dish garden       | 964 FFA Week Arrangement, silk - dried        |
| 956 Bud vase, fresh            | 965 Boutonniere, fresh                        |
| 957 Bud vase, silk - dried     | 966 Boutonniere, silk-dried                   |
| 958 Bridal bouquet, fresh      | 967 Miscellaneous                             |
| 959 Bridal bouquet, silk-dried |                                               |
| 960 Centerpiece, fresh         |                                               |

### Fruits and Vegetables (Must be 2019 crops)

| Class                              | Class                       |
|------------------------------------|-----------------------------|
| 968 Onions, 3                      | 979 Tomatoes, 3             |
| 969 Beets, 3                       | 980 Potatoes, 4             |
| 970 Eggplants, 3                   | 981 Popcorn, 3 ears         |
| 971 Sweet Corn, 3 ears             | 982 Squash, 1               |
| 972 Peppers, 3 or more             | 983 Cucumbers, 3            |
| 973 Okra, 5                        | 984 Green Beans, plate      |
| 974 Carrots, 5                     | 985 Cantaloupe, 1           |
| 975 Apples, 4                      | 986 Honey, 1 qt. jar        |
| 976 Peaches, 4                     | 987 Grapes, plate           |
| 977 Watermelon, 1                  | 988 Miscellaneous vegetable |
| 978 Pumpkin, 1 (2018 or 2019 crop) |                             |

### Garden Flowers

| Class             | Class               |
|-------------------|---------------------|
| 989 Roses, 5      | 995 Transvail Daisy |
| 990 Gladiolus, 5  | 996 Snapdragon      |
| 991 Zinnias, 5    | 997 Statrice        |
| 992 Marigolds, 5  | 998 Stock           |
| 993 Perennials, 5 | 999 Blazing Star    |
| 994 Carnation     | 1000 Miscellaneous  |

### Perennials

| Class                    | Class            |
|--------------------------|------------------|
| 1001 Peonies             | 1006 Columbine   |
| 1002 Ajuga               | 1007 Gallardia   |
| 1003 English Ivy - Hedri | 1008 Honeysuckle |
| 1004 Periwinkle - Vinca  | 1009 Hosta Lily  |
| 1005 Astilbe             |                  |

**House Plants or Bedding Plants:** Exhibitor is limited to one entry per class and to ten (10) total entries.

| Class |                                    | Class |                       |
|-------|------------------------------------|-------|-----------------------|
| 1010  | African Violet                     | 1031  | Jade Plant            |
| 1011  | Aglaonema (Chinese Evergreen)      | 1032  | Medicine Plant        |
| 1012  | Airplane Plant                     | 1033  | Nephtytis (Arrowhead) |
| 1013  | Aluminum Plant                     | 1034  | Norfolk Island Pine   |
| 1014  | Benjamin (Weeping) Fig             | 1035  | Parlor Palm           |
| 1015  | Boston Fern                        | 1036  | Peace Lily            |
| 1016  | Bromeliad                          | 1037  | Prayer Plant          |
| 1017  | Cladium                            | 1038  | Purple Passion        |
| 1018  | Corn Plant Dracena                 | 1039  | Red Edge Dracena      |
| 1019  | Croton                             | 1040  | Sanserveria           |
| 1020  | Cutleaf Philodendron (Snake Plant) | 1041  | Schefflera            |
| 1021  | "Decora" Rubber Plant              | 1042  | Spider Plant          |
| 1022  | Dwarf Schefflera                   | 1043  | Spotted Dumbcane      |
| 1023  | Emerald Ripple Peperomia           | 1044  | Sprengeri "Fern"      |
| 1024  | English Ivy                        | 1045  | Strawberry Begonia    |
| 1025  | Fuchsia                            | 1046  | Swedish Ivy           |
| 1026  | Gold-Edged Snake Plant             | 1047  | Tricolor Bromeliad    |
| 1027  | Golden Pothos, Devils Ivy          | 1048  | Variiegated Peperomia |
| 1028  | Grape Ivy                          | 1049  | Wandering Jew         |
| 1029  | Heartleaf Philodendron             | 1050  | Watermelon Peperomia  |
| 1030  | Ivy Geranium                       | 1051  | Wax Plant             |
|       |                                    | 1052  | Misc. house plant     |

**Bedding Plants**

| Class |                     | Class |                              |
|-------|---------------------|-------|------------------------------|
| 1053  | Celosia             | 1061  | Pansy                        |
| 1054  | Coleus              | 1062  | Rose Moss                    |
| 1055  | Dusty Miller        | 1063  | Salvia                       |
| 1056  | Geranium            | 1064  | Tuberous Begonia             |
| 1057  | Impatiens (Sultana) | 1065  | Wax Begonia                  |
| 1058  | Marigold            | 1066  | Zinnia                       |
| 1059  | Periwinkle          | 1067  | Miscellaneous Bedding Plants |
| 1060  | Petunia             |       |                              |

**Flower Boxes/Planters**

1068 Flower boxes and planters containing live bedding plants or flowers, by FFA members and/or chapters. The flower box or planter does NOT have to be constructed by the exhibitor. Judging will include size, attractiveness and originality of container as well as quality of plants or flowers. Superintendents will sort entries into different groupings with size being a major factor.

**FFA AGRICULTURAL MECHANICS**

- Agricultural Mechanics Projects with point values of 40 and above must be on the Fairgrounds by 3 p.m. on Monday, July 22.** Smaller projects must be on the Fairgrounds by noon on Thursday, July 25.
- Projects will be released Sunday, August 4, between 9 a.m. and noon. **OEF is not responsible for damage to exhibits.**
- All articles shall have been constructed by FFA members either as part of their agricultural mechanics instruction in agricultural education or as a part of their supervised agricultural experience programs.
- Exhibits will be judged on workmanship, design, suitability of materials, quality and appearance.
- It is not necessary that exhibits have been constructed in the 2018-2019 school year, but an article may be shown at the Ozark Empire Fair only once. Exhibits should be in a clean, presentable condition even if used.
- A limit of two entries per student per class may be shown.
- Only those exhibits not eligible for showing in specific classes listed will be accepted in the Miscellaneous Class.
- Mechanics projects do not need to be pre-entered, however you may pre-enter by emailing entries to Brian Gillen at [bgillen@tigersk12.org](mailto:bgillen@tigersk12.org).**
- The Ozark Empire Fair will award rosettes to Grand and Reserve Grand Champion projects in the following point ranges: 1-39, 40-74, 75-119, 120 and above. Blue ribbon point assignment is used to determine in which group a project competes for Champion. An Overall Grand and Reserve Grand Champion will also be awarded.

**10. Point Values:** Points assigned to projects are based on amount and difficulty of work involved, difficulty and cost of moving and cost of materials. Points given below are for average projects of the kinds listed. The superintendent and the district supervisor reserve the right to adjust points up or down within a 50% range when a project is unusual in size or difficulty, and it appears necessary to keep the points in balance.

**FFA Agricultural Mechanics**

| Class                                                     | Point Value:                                                       | Blue | Red | White |
|-----------------------------------------------------------|--------------------------------------------------------------------|------|-----|-------|
| <b>Livestock Trailers (1070 Series)</b>                   |                                                                    |      |     |       |
| 1071                                                      | Gooseneck Livestock Trailer with Top                               | 180  | 120 | 60    |
| 1072                                                      | Gooseneck Livestock Trailer without Top                            | 150  | 100 | 50    |
| 1073                                                      | Straight Tongue Livestock Trailers with Top                        | 135  | 90  | 45    |
| 1074                                                      | Straight Tongue Livestock Trailers without Top                     | 120  | 80  | 40    |
| 1075                                                      | Hydraulic Livestock Trailer                                        | 135  | 90  | 45    |
| <b>Machinery Trailers (1080 Series)</b>                   |                                                                    |      |     |       |
| 1081                                                      | Gooseneck Machinery Trailer with Dovetail                          | 135  | 90  | 45    |
| 1082                                                      | Gooseneck Machinery Trailer                                        | 120  | 80  | 40    |
| 1083                                                      | Dropframe Machinery Trailer                                        | 120  | 80  | 40    |
| <b>Utility Trailers (1090 Series)</b>                     |                                                                    |      |     |       |
| 1091                                                      | Straight Tongue 2 Axle Trailer                                     | 105  | 70  | 35    |
| 1092                                                      | Single Axle Trailer (8 ft or longer)                               | 54   | 36  | 18    |
| 1093                                                      | Single Axle Trailer (less than 8 ft long)                          | 24   | 16  | 8     |
| <b>Scrapers/Blades (2000 Series)</b>                      |                                                                    |      |     |       |
| 2001                                                      | Box Scraper                                                        | 90   | 60  | 30    |
| 2002                                                      | Heavy Duty Scraper Blade (with Hydraulics)                         | 75   | 50  | 25    |
| 2003                                                      | Scraper Blade (no Hydraulics)                                      | 60   | 40  | 20    |
| <b>Large Round Bale Equipment/Carryalls (2010 Series)</b> |                                                                    |      |     |       |
| 2011                                                      | Large Round Bale Trailer                                           | 75   | 50  | 25    |
| 2012                                                      | Large Round Bale Stinger/Forks                                     | 24   | 16  | 8     |
| 2013                                                      | Large Round Hay Feeder                                             | 24   | 16  | 8     |
| 2014                                                      | Tractor Carryall with Racks                                        | 45   | 30  | 15    |
| 2015                                                      | Tractor Carryall/Bale Forks Combination                            | 30   | 20  | 10    |
| 2016                                                      | Tractor Carryall                                                   | 24   | 16  | 8     |
| 2017                                                      | Large Round Bale Unroller                                          | 60   | 40  | 20    |
| <b>Livestock Equipment (2020 Series)</b>                  |                                                                    |      |     |       |
| 2021                                                      | Large Animal Holding Chute with Headgate                           | 90   | 60  | 30    |
| 2022                                                      | Large Animal Headgate                                              | 45   | 30  | 15    |
| 2023                                                      | Pickup Livestock Rack                                              | 60   | 40  | 20    |
| 2024                                                      | Portable Corral System (minimum 10 gates)                          | 60   | 40  | 20    |
| 2025                                                      | Loading Chute                                                      | 45   | 30  | 15    |
| 2026                                                      | Small Animal Holding Chute                                         | 60   | 40  | 20    |
| 2027                                                      | Cattle Clipping Chute                                              | 24   | 16  | 8     |
| 2028                                                      | Feed Bunk                                                          | 24   | 16  | 8     |
| 2029                                                      | Gates                                                              | 12   | 8   | 4     |
| <b>Splitters/Booms/Truck Beds (2030 Series)</b>           |                                                                    |      |     |       |
| 2031                                                      | Pickup Flatbeds                                                    | 60   | 40  | 20    |
| 2032                                                      | Motor Driven Hydraulic Splitter                                    | 54   | 36  | 18    |
| 2033                                                      | Hydraulic Log Splitter                                             | 36   | 24  | 12    |
| 2034                                                      | Tractor Boom with Hydraulics                                       | 39   | 26  | 13    |
| 2035                                                      | Tractor Boom                                                       | 24   | 16  | 8     |
| <b>Shop Equipment (2040 Series)</b>                       |                                                                    |      |     |       |
| 2041                                                      | Hydraulic Shop Hoist                                               | 27   | 18  | 9     |
| 2042                                                      | Engine Stand                                                       | 15   | 10  | 5     |
| 2043                                                      | Car Ramp Pair                                                      | 9    | 6   | 3     |
| 2044                                                      | Jack Stand Pair                                                    | 9    | 6   | 3     |
| 2045                                                      | Welding Table                                                      | 9    | 6   | 3     |
| 2046                                                      | Sawhorse Pair                                                      | 9    | 6   | 3     |
| 2047                                                      | Nail Box                                                           | 6    | 4   | 3     |
| <b>Lawn/Household Items (2050 Series)</b>                 |                                                                    |      |     |       |
| 2051                                                      | Wooden Storage Shed (10x12)                                        | 120  | 80  | 40    |
| 2052                                                      | Wooden Storage Shed (8x10)                                         | 105  | 70  | 35    |
| 2053                                                      | Picnic Table                                                       | 18   | 12  | 6     |
| 2054                                                      | Barbeque Grill                                                     | 24   | 16  | 8     |
| 2055                                                      | Lawn Swing with Frame                                              | 24   | 16  | 8     |
| 2056                                                      | Lawn Swing Frame                                                   | 15   | 10  | 5     |
| 2057                                                      | Step Ladder (4 steps or more)                                      | 18   | 12  | 6     |
| 2058                                                      | Step Ladder (3 steps or less)                                      | 9    | 6   | 3     |
| <b>Miscellaneous (2060 Series)</b>                        |                                                                    |      |     |       |
| 2061                                                      | Miscellaneous - points compare to other projects of the same size. |      |     |       |
| <b>Restored Tractor/Implement (2070 Series)</b>           |                                                                    |      |     |       |
| 2071                                                      | Restored Tractor                                                   | 105  | 70  | 35    |

## FFA AGRI-SCIENCE FAIR

The Agri-Science Fair recognizes FFA members who are studying the application of scientific principles and emerging technologies in an agricultural enterprise. Criteria for selecting 2019 winners:

- a. National Agri-Science Student Program application (available from National FFA). Eligibility requirements differ from the National FFA application in that participation is open to any FFA member who is a current high school student or 2019 graduate
  - b. A student interview
  - c. Table display.
1. Pre-entries must be in the hands of Steven Rogers by **JULY 1, 2019**. Pre-entry will consist of the National FFA Agri-Science Student Application.
  2. Entries must be in place by 11 a.m. Thursday, July 25, with judging to take place at 2 p.m. Students **MUST** be present for an interview (25% of judging) to determine the student's knowledge of the project and what was learned.
  3. A table space of approximately 4 ft. wide and 2 ft. deep will be provided to each applicant. The display should include National FFA Agri-Science Student Application (which will be returned to the student) along with pictures, diagrams, charts and other items which will help demonstrate the student's agri-science project. A self-standing background is suggested but may be only four feet high.
  4. Judging will be based on: Agri-science application | 50%  
Interview | 25%  
Project display | 25%
  5. Projects will be placed into Blue, Red and White ribbon groups. Grand Champion and Reserve Champion will be selected.
  6. Agri-science project topics should be selected from one of the following five categories: **Food Science, Environmental Science, Animal Science, Plant/Soil Science, Mechanical/Engineering Science.**

## FFA EDUCATIONAL BOOTHS

1. Educational booth space is managed by Steven Rogers who sends a reminder email to all Southwest Missouri FFA Chapters announcing a specific date and time in May that booths may be reserved by sending an email to him. No previous requests will be honored. Chapters should clearly specify whether they are requesting an Educational Booth or Horticulture Booth. Chapters may have both types of booths if space allows. Determination will be based on whether they had that type of booth in the previous year, not whether they had the other type of booth in a previous year.
2. All exhibits may be brought to the FFA Building after 8 a.m. Monday, July 22 and must be in place by 8 p.m., Wednesday, July 24.
3. Exhibits may be released on Sunday, August 4 and Monday, August 5, between 9 a.m. and 5 p.m.
4. Entries will be accepted on a first-come, first-served basis with a limit of 15 booths.
5. Chapters are encouraged to develop their own slogan or title. The use of facts from local communities or Southwest Missouri as a whole should be used to emphasize the need for agricultural workers in a particular area. Booths may deal with a specific type of career (ie. Horticulture, Ag Sales and Service, etc.) OR with the total number of agricultural related jobs available in their town or Southwest Missouri. Chapters are encouraged to make their displays personal. The use of facts and data is encouraged.
6. Displays will be placed into Blue, Red and White ribbon groups and a Grand Champion and Reserve Champion booth will be picked.

### SCORE CARD FOR EDUCATIONAL AGRICULTURAL BOOTHS

|                                   |                 |                   |        |
|-----------------------------------|-----------------|-------------------|--------|
| Promotes a central theme.....     | 30 pts          | Originality ..... | 10 pts |
| Hands-on and public oriented..... | 10 pts          | Attention.....    | 10 pts |
| Interest.....                     | 10 pts          | Durability.....   | 10 pts |
| Neatness.....                     | 10 pts          | Organization..... | 10 pts |
| <b>TOTAL POINTS .....</b>         | <b>100 pts.</b> |                   |        |

## CHAPTER SCRAPBOOK

Chapters exhibiting a gold rated scrapbook at either the Area 9, 10, 11 or 12 contests for 2018 are invited to display their winning scrapbooks in the FFA Building.

Scrapbooks should be brought to the FFA Building by 6 p.m. on Wednesday, July 24, and picked up on Sunday, August 4, between 9 a.m. and 3 p.m.

## CHAPTER HORTICULTURE DISPLAYS

1. Horticulture booths must be set up by 8 p.m. on Wednesday, July 24.
2. Chapters will be provided a wall space 8' long and 6' deep.
3. Live display plants must be grown in the agriculture department's green house, school, farm, or grown as part of one or more students' SAE projects. Live and artificial plants, produce, and flowers may be included in the display and are not limited to but may include individual student projects that are entered in the regular horticulture and field crops classes.
4. Fountains and waterfalls are examples of what might be included to make this display attractive and interesting.
5. Chapters are to provide their own tables, background lattice or whatever else they want to make the display attractive.

## FFA DEMONSTRATION BOOTHS

1. Entries must be sent to **Steven Rogers**, giving the title and a complete description of the demonstration booth. Each chapter will be notified if entry has been accepted.
2. All exhibits shall be in place ready for exhibition by noon on Thursday, July 25. Chapter members should be present that day to represent the demonstration booths as they are scored by the judges. Part of the scoring will also be based on the ease of the demonstration to be continued throughout the Fair by other chapters.
3. A floor space approximately 8' wide and 8' deep will be provided to each demonstration booth. More space will be provided if necessary and available. Electrical outlets are provided.
4. Chapters should bring their own tables and other props. Backdrops are encouraged for each booth: a curtain, trellis, two pieces of plywood placed on end and hinged together, plants or other appropriate backdrops.
5. One of the goals of demonstration booths is to add action and interest to the FFA displays in the FFA Building. Because of this goal, chapters are to have members present to work the booths for at least one day of the Fair. Chapters are to have complete instructions written out so that the demonstration can be continued throughout the entire Fair by area FFA officers and other chapter members.
6. Displays will be placed into Blue, Red, and White ribbon groups and a Grand Champion demonstration booth will be picked before conclusion of the Fair.

### Score Card for FFA Demonstration Booths (Total 100 Points):

**Purposes:** To provide the demonstration of: a) skills taught in high school agricultural education; b) a technique that explains an agricultural process; c) agricultural technology allowing a better understanding of agriculture, agricultural education, and/or FFA.

### PUBLIC IMAGE (60 PTS.)

Presents positive image ..... 20 pts. Attention and interest. .... 20 pts.  
Neatness ..... 10 pts. Appropriateness ..... 10 pts.

### DEMONSTRATION TECHNIQUE (40 PTS.)

Effectiveness of oral presentation ..... 10 pts.  
Use of safe demonstration procedures ..... 5 pts.  
Organization ..... 5 pts.  
Ease of booth to be continued for entire Fair, and transfer of demonstration skill to another FFA demonstrator. .... 20 pts.