

Department M

FFA

General Rules

All entries must to be pre-registered at the Extension Office by the first Friday in July.

Entry Day will be Tuesday of the fair between 6-8 p.m. or on Wednesday, from 8-10:30 a.m. for Agricultural Mechanics, Crops, Horticultural entries. All entries in this department are limited to boys and girls who are enrolled in FFA in York County. Members must be enrolled in the project in which they exhibit. Where FFA age is specified, it is the age on January 1 of the current year. Maximum age for exhibitors in will be 19. For entries selected for State Fair competition that do not require the exhibitor to accompany the entry, the exhibitor can be any FFA age. FFA exhibitors are any student who is regularly enrolled in a secondary agricultural education program is entitled to become an active member of his or her locally chartered chapter. Secondary agricultural programs shall be defined as those programs provided to students in grades 7-12. To retain active membership during junior and/or high school, the member must: Be enrolled in at least one ag education course during the school year and/or follow a planned course of study for an ag education occupation which includes a supervised agricultural experience program, the objective of which is preparation for an agricultural career.

All livestock exhibitors must clean out their pens and move the bedding to the dump area. Premiums will not be paid until this requirement has been met.

Purple awards denote superior; blue, excellent; red, good; and white, fair. Equal prizes will be given the same color awards under the same class. Rosettes and large ribbons will not be awarded. To be eligible for Grand Champion, Reserve Grand Champion, Champion or Reserve Champion an entry must have received a purple in its respective class. The judges decisions will be final.

Agricultural Mechanics

Projects entered shall be the direct result of Agricultural Mechanics instruction in Ag-Ed and constructed primarily under the supervision of the Ag-Ed instructor. The student entering the project will have had at least 75% of the construction responsibility for the project.

Household/industrial arts items are not eligible to exhibit, i.e. gun racks, desks, magazine racks, computer tables, etc. Items that appear to be craft items or industrial technology will not be permitted to show; show management has decision making authority in this area.

Each student may exhibit only 2 items in each class. The power unit should be included on all power driven equipment during the judging, but must be adjusted so it will not function thereafter.

Exhibits will be evaluated on the following basis:

Construction -

Soundness of joints and attachments,
correctness, neatness of cuts 40 points

Utility -

functional design, ease of use, portability or
storability 40 points

Workmanship -

attention to detail and neatness; should not effect
immediate function 20 points

To include items/tools used in or about the Ag Mechanics facility; items/tools used in crop or livestock production; items/tools which incorporate an electric, hydraulic, and/or fuel motor as power source to perform function; items/tools used around the lawn/garden for recreation or improvement purposes.

Ag Literacy Display

Pay Code 200

Create a display of an agricultural topic. Could include, but not limited to the following topic areas: Animal systems, Biotechnology, Plant Science, Ecosystems, Careers in Agriculture, and Farm to Fork.

Exhibits will be evaluated on the following basis:

Originality	25 points
Technical Merit	25 points
Educational Merit	25 points
Display Captions	25 points

M100 - Display Board

Welding Projects

- M101 - Extra Large Item** (wagons, trailers, combine head hauler, large sprayer) Pay Code 105
- M102 - Large Item** (loading chute, bale carrier, log splitter, grill, smoker, planter Pay Code 115
- M103 - Medium Item** (carts, welding tables, presses, engine hoists/stands, stock panels, etc. Pay Code 140
- M104 - Small Item** (splash blocks, tool box, stools, car ramps, jack stands, post driver/puller) Pay Code 170
- M105 - Extra Small Item** (foot scrapers, funnels, cold chisels, punches, hitch pins) Pay Code 200

Wood Projects

- M108 - Extra Large Item** (gazebos, storage shed, chicken coop etc) Pay Code 105
- M109 - Large Item** (picnic table, feed bunk, large furniture etc) Pay Code 115
- M110 - Medium Item** (garden benches / tables, adirondack chair etc) Pay Code 140
- M111 - Small Item** (plant stands, planter boxes, signs etc) Pay Code 170
- M112 - Extra Small Item** (bird house, pen sets, etc) Pay Code 200
- M113 - Recycled Wood Project** item created out of pallets or other recycled wood Pay Code 115

Refurbishing

Pay Code 105

A restoration of an item/tool which has current benefit to one of the previous categories. The following must accompany the project: a narrative describing the condition of the item/tool prior to the

repair; steps taken to repair the item; a bill of materials which indicates costs; and attractively mounted pictures with appropriate captions.

M114 - Large Item (tractors)

M115 - Small Item (antique farm tools)

Display Boards

Pay Code 200

A display board shall be items completed by FFA members between the close of the last state fair and the end of school prior to the current state fair.

Each display board shall be 18" x 24" x 3/8".

Welding boards shall identify: 1) kind of weld; 2) position; 3) amperage; 4) electrode size; 5) AWS number; and 6) thickness or dimension of metal.

Minimum of 8 and maximum of 10 welds per board.

Welds shall be attached so all sides can be evaluated.

Judges will deduct points if welds are mounted solid.

No specific welds are required; however, welds must differ from one another by at least position, electrode size, AWS number, thickness or dimension of metal, or kind of weld.

M116 - ARC

M117 - MIG/TIG

M118 - Gas Welding/Brazing

M119 - Electrical - Must include at least 1 switch, 2 types of splices, 1 light fixture or receptacle.

M120 - Plumbing - Must use 3 types of pipe, (copper, plastic & steel); soldering, flare fitting, glued joint, & a steel threaded joint are required.

5560 Advanced Electrical or Plumbing - contains controls, valves, timers, motors, etc.

Agronomy

Crops

Pay Code 200

Grain should be entered in a 4-quart plastic ice cream bucket with lid (or suitable substitute). Each sample of grain shall be 2 quarts. No grain shall be returned as this is a terminal show.

Grain will be judged on the following factors:

1. Color
2. Uniformity
3. Purity (varietal, crops, weeds)
4. Inert Material (stems, chaff, dirt)
5. Soundness (cracked or broken kernels)
6. Insect Damage
7. Condition (heat damage, sprouted kernels).

Each exhibitor must have or had a crop project during the current or preceding year for the following eligible crops: Other approved crops, such as barley, rye, popcorn, and dry edible beans, are eligible for showing provided the crop was appropriately harvested in one of the above years. Each eligible FFA exhibitor will be permitted to enter one entry per crop area. Grain exhibits must be properly identified.

M121 - Oats, Current Year

M122 - Winter Wheat, Current Year

M123 - Grain Sorghum, Previous Fall

M124 - Grain Sorghum (10 heads-10" sheath of Heads), Current Year, Wrapped or Tied

M125 - White Shelled Corn, Previous Fall

M126 - Shelled Corn, Previous Fall

M127 - Ears of Corn (10 ears), Current Year

M128 - Stalks of Corn (3 Stalks- include washed roots), Current Year, No containers with soil.

M129 - Soybeans, Previous Fall

M130 - Soybeans Plants (6 stalks cut at ground level), Current Year, Wrapped or Tied

M131 - Small Grains (Sheath of Heads 2" in diameter, 24" stems), Current Year

M132 - Other, Wrapped or Tied

Range Boards

Pay Code 200

All Range Boards shall be 36" x 36" & 3/8" thick. Mounted range plants excluding invader plants must be on the list of important range plants (Table #1, Range Judging Handbook for Nebraska, E.C. 1-37-78). Mounted range plants must include roots, stem, and head. The Board can't be covered by plastic.

Plants may be destroyed at release time. The exhibit must show the name of the exhibitor, chapter, and each range plant shall be identified as follows: common name, scientific name, grazing response, forage value, season of growth, and life span.

M133 - Display Board at least 15 range plants.

Horticulture & Floriculture

Pay Code 200

All entries need to be preregistered with the Extension Office by the first Friday in July. The quality, condition, safety, and care for all horticulture exhibits are the responsibility of the exhibitor. All exhibits must be a part of the FFA member's SAEP. Limits on entries are the same as 4-H. No waxing or leaf shine on horticultural entries. .

Horticulture

- M134 - Apples, red** (5 specimens with 1" stem)
- M135 - Apples, yellow** (5 specimens with 1" stem)
- M136 - Beans, yellow** (10 pods w/calyx (stem)
- M137 - Beans, green** (10 pods w/calyx (stem)
- M138 - Beets** (5 specimens w/tops 1/2" long & tap root)
- M139 - Broccoli** (1 specimen over 3" diameter and 6" long stock)
- M140 - Cabbage** (1 specimen, loose leaves removed, at least 2 layers of sound green outer leaves left on, trim root smooth w/base of leaves)
- M141 - Carrots** (3 specimens, top 1" - 1 1/2" long w/ tap root)
- M142 - Cauliflower** (1 specimen, trim leaves even w/ top, remove older leaves, cut stem below last remaining leaf)
- M143 - Celery** (1 specimen with roots and stalks)
- M144 - Cucumbers** (3 slicing, leave 1/2" stem)
- M145 - Cucumbers** (5 pickling, leave 1/2" stem)
- M146 - Eggplant** (2 specimens with 1 1/2" stem)
- M147 - Gourds** (5 specimens, mixed types with 1/2 - 1" stem)

- M148 - Gourds** (3 specimens, single variety with ½ - 1" stem)
- M149 - Gourd**, (Most Unique specimen) (1 gourd per exhibitor, maximum of 5 entries per chapter)
- M150 - Melon**, musk or honeydew, (1 specimens, stems removed)
- M151 - Okra** (5 specimens, ½ - 1" stem)
- M152 - Onions, yellow** (5 specimens, remove only one layer of skin, leave 1" - 1 1/2" stem, trim root to 3/4")
- M153 - Onions, red** (5 specimens, remove only one layer of skin, leave 1" - 1 1/2" stem, trim root to 3/4")
- M154 - Onions, white** (5 specimens, remove only one layer of skin, leave 1" - 1 1/2" stem, trim root to 3/4")
- M155 - Parsnips** (3 specimen, top 1"-1 1/2"long w/tap root)
- M156 - Pepper, Jalapeno** (3 specimens, leave 1/2" - 1" stem)
- M157 - Pepper, Hungarian wax pepper** (3 specimens, leave 1/2" - 1" stem)
- M158 - Pepper, other hot peppers**, (3 specimens, leave 1/2" - 1" stem)
- M159 - Pepper, sweet banana peppers**, (3 specimens, leave 1/2" - 1" stem)
- M160 - Pepper, sweet bell peppers**, (3 specimens, leave 1/2" - 1" stem)
- M161 - Potatoes, red** (5 specimens, can be washed but do not scrub)
- M162 - Potatoes, russet** (5 specimens, can be washed but do not scrub)
- M163 - Potatoes, white** (5 specimens, can be washed but do not scrub)
- M164 - Potatoes, other** (5 specimens, can be washed but do not scrub)
- M165 - Pumpkin, field type** (1 specimen with 1" - 1 1/2" stem)
- M166 - Pumpkin, largest** by weight and an acceptable degree of quality (1 specimen with 1" - 1 1/2" stem)

- M167 - Pumpkin, small**, less than 4" in diameter (3 specimens with 1/2" stem)
- M168 - Pumpkin, most unusual** (5 entries per chapter)
- M169 - Rhubarb** (5 stalks, pulled from ground, with the leaf cut in a 2 inch fan)
- M170 - Squash, acorn** (2 specimens, leave 1" stem)
- M171 - Squash, zucchini** (2 specimens, leave 1" stem)
- M172 - Squash, yellow, straight neck**, (2 specimens, leave 1" stem)
- M173 - Squash, yellow, crooked neck**, (2 specimens, leave 1" stem)
- M174 - Squash, any other variety** (2 specimens, leave 1" stem)
- M175 - Sweet corn**, (3 ears, do not remove husks, trim silk to within 1" of top of husk, 1" - 2" long shank)
- M176 - Sweet potatoes, red gold** (5 specimens, can be washed, do not scrub)
- M177 - Sweet potatoes, yellow** (5 specimens, can be washed, do not scrub)
- M178 - Tomatoes, red** (5 specimens, with 3/4" or larger stem)
- M179 - Tomatoes, yellow** (5 specimens, with 3/4" or larger stem)
- M180 - Tomatoes, cherry** (10 specimens, 1 1/2" or less in diameter, with 1/2" or longer stem)
- M181 - Tomatoes, Roma** (5 specimens, 3/4" stem)
- M182 - Turnips** (3 specimens, 1 1/2 - 2" top)
- M183 - Watermelon, oblong type** (1 specimen)
- M184 - Watermelon, round type** (1 specimen)
- M185 - Watermelon, largest** by weight and an acceptable degree of quality (1 specimen)
- M186 - Grapes, white** (3 clusters)
- M187 - Grapes, red** (3 clusters)
- M188 - Grapes, other** (3 clusters)
- M189 - Other vegetables**
- M190 - Other fruits**

Home Garden Food Basket Display

This exhibit is a quality selection of from 6-10 different kinds and/or varieties of mature vegetables and/or fruits. Amounts of vegetables & fruits in this exhibit should be such that they can be arranged in a neat and orderly manner and have good eye appeal. There must be enough of each vegetable or fruit for the judge to determine quality.

All vegetables and fruits exhibited must be grown by the FFA member as a part of an approved SAE program. One (1) entry per exhibitor.

Any combination of vegetables and fruits may be used. Those not listed in the catalog may be included. The exhibit must be a container such as a basket or box. It may be covered with a clear plastic cover but judges must be able to handle produce to determine quality.

One-third of the judging will be on how well the exhibit is prepared and presented. Packing, such as paper, straw or cloth, may be used but the vegetables and fruits should be the main attraction of the exhibit.

M191 - Home Garden Food Basket Display (single exhibitor)

M192 - Chapter Garden Food Basket Display
(needs to be comprised of produce from three members)

Floriculture

Pay Code 200

House Plants

All plants must be in the possession of the FFA member for at least the immediate past 90 days as a part of an approved SAE or laboratory project.

FFA members may exhibit a total of 10 entries from Class 3 (House Plants) with only 1 (one) entry per sub class. (Examples – only 1 Angelwing Begonia from 9100, only 1 Coleus from 9103, only 1 African Violet from 9120, etc)

One (1) container per entry, with saucers, if there is a drainage hole in container. NO WATERING

without a saucer.

Judging will be based on color, condition, foliage and/or flower, correct name, culture, perfection, quality, maturity, and shape.

Plants should be properly prepared. This means the plant should be well-rooted in a container appropriate for the size of the plant. Plants should not be root-bound or pot-bound.

Plants must be groomed for exhibition. Clean with water only. Plants should be free of diseases, insect damage, insect free, no wax, or any artificial additives.

Stake a label into soil, listing cultural instructions of how you grew this plant. List water requirements (such as dry, semi-dry, damp); life requirements (sun, semi-shade, shade); and how this plant was propagated (bought, stem cutting, leaf cutting, seed, etc.) Please make printing 1/4" tall or taller. Plants without this information will not be evaluated. Label may not be of such a size as to obscure viewing of plant. ("Water when dry" not explicit enough).

The exhibit is judged on the quality of the plant, not the container. Elaborate and expensive containers will not be considered in the judging of the plant.

Foliage Plant

M193 - Angelwing Begonia

M194 - Arrowhead

M195 - Coleus

M196 - Complant

M197 - Croton

M198 - Dracaena

M199 - Dumbcane

M200 - Jade

M201 - Peace Lily

M202 - Pothos

M203 - Rubber Plant

M204 - Schefflera

M205 - Snake Plant

M206 - Any Other Foliage Plant

Potted Flowering Plant

- M207 - African Violet**
- M208 - Begonia**
- M209 - Chrysanthemum**
- M210 - Geranium**
- M211 - Petunia**
- M212 - Any Other Potted Flowering Plant**

Cacti

- M213 - Single Cacti**
- M214 - Desert Garden – All Cacti**

Hanging Baskets

- M215 - Philodendrons (one variety)**
- M216 - Pothos**
- M217 - Swedish Ivy**
- M218 - Several Varieties Combined (3 or more)**
- M219 - Any Other Hanging Basket**

Potted Plants

- M220 - Herb Potted Plant**
- M221 - Fairy Garden (12 inches and under)**
- M222 - Fairy Garden (more than 12 inches)**
- M223 - Several Varieties Combined (3 or more)**
- M224 - Unique Potted Plant (any rare or unusual plant, specified variety)**
- M225 - Any Other Potted Plants**
- M226 - Terrarium/Dish Gardens**

Floral Arrangements

Floral arrangements exhibited by FFA members must have been arranged as a part of an FFA member's SAE or laboratory project. One (1) entry per exhibitor. The materials may be purchased or grown by the exhibitor.

- M227 - Floral, fresh flowers/foilage in a bud vase**
- M228 - Floral, fresh cut flowers/foilage**
- M229 - Floral, dried flower/foilage**
- M230 - Floral, artificial flowers/foilage**
- M231 - Floral, live plants**
- M232 - Floral, combination of above**
- M233 - Boutonniere (artificial) (in a clear container)**

- M234 - Corsage** (artificial) (in a clear container)
- M235 - Boutonniere** (natural) (in a clear container)
- M236 - Corsage** (natural) (in a clear container)
- M237 - Wreaths, 12" or less** (artificial)
- M238 - Wreaths, over 12"** (artificial)
- M239 - Topiary Theme** artistic arrangements, may be fresh, dried, or artificial or any combination
- M240 - Go Big Red Arrangement**
- M241 - Christmas Theme Arrangement**
- M242 - Fall Theme Arrangement**
- M243 - State Fair Theme Arrangement**

Individual Flowers

Flowers will be judged on the following criteria:
 1) form, 2) color, 3) size, 4) stem and foliage, 5) substance, 6) condition & 7) grooming. All exhibits must be a part of the FFA members SAE.

- M244 - Asters** (3 blooms)
- M245 - Bachelor Buttons** (5 blooms)
- M246 - Bells of Ireland** (3 stems)
- M247 - Celosia, feather/plume** (3 spikes)
- M248 - Celosia, crested/cockscorb** (3 blooms)
- M249 - Chrysanthemum** (blooms)
- M250 - Coneflower** (3 blooms)
- M251 - Cosmos** (5 blooms)
- M252 - Dahlia, small** (under 5", 3 blooms)
- M253 - Dahlia, medium** (5"-8" in diameter, 1 bloom)
- M254 - Dahlia, large** (over 8" in diameter, 1 bloom)
- M255 - Daisy** (5 blooms)
- M256 - Dianthus** (5 blooms)
- M257 - Foxglove** (5 blooms)
- M258 - Gaillardia** (5 blooms)
- M259 - Gladiola** (3 stems)
- M260 - Gomphrena** (5 blooms)
- M261 - Marigold, small, single color** (5, under 3" blooms)
- M262 - Marigold, small, bi-color** (5, under 3" blooms)
- M263 - Marigold, large, single color** (5, over 3" blooms)
- M264 - Marigold, large, bi-color** (3, over 3" blooms)
- M265 - Mums** (5 blooms)

- M266 - Pansy** (5 blooms)
- M267 - Petunia, single** (3 blooms on 1' stems, one variety)
- M268 - Petunia, double** (3 blooms on 1" stems, one variety)
- M269 - Petunia, bi-color** (3 blooms on 1" stems, one variety)
- M270 - Rose** (1 stem, any variety)
- M271 - Rudbeckia** (5 blooms)
- M272 - Salvia** (3 stems)
- M273 - Sedum** (3 blooms)
- M274 - Snapdragon** (3 spikes)
- M275 - Statice** (5 blooms)
- M276 - Strawflowers** (5 blooms)
- M277 - Sunflowers** (3 blooms)
- M278 - Vinca** (5 blooms)
- M279 - Yarrow** (5 blooms)
- M280 - Zinnia, dwarf** (1/2 to 2", 5 blooms)
- M281 - Zinnia, medium** (2 to 4 1/2", 3 blooms)
- M282 - Zinnia, giant** (over 4 1/2", 3 blooms)
- M283 - Other single flower** (3 stems)

Herbs

Herbs will be judged in the following criteria: 1) color, 2) size, 3) aroma, 4) form, 5) condition, 6) grooming, 7) shape, 8) free of insect and disease damage. All herbs will be five stems freshly cut from the garden and displayed in a vase of water.

- M284 - Basil**
- M285 - Chive**
- M286 - Dill**
- M287 - Lavender**
- M288 - Mint**
- M289 - Oregano**
- M290 - Parsley**
- M291 - Rosemary**
- M292 - Sage**
- M293 - Thyme**
- M294 - Tarragon**
- M295 - Other Herbs**

Special

One exhibit per sub-class per student.

M296 - Horticulture board (1 board per exhibitor)
examples for display could be a leaf board,
bark board, twig board, horticulture weeds
board, etc

M297 - Living tree (propagated by student)

M298 - Other special exhibit

Apiculture

Pay Code 200

Rules

Only one entry will be allowed per exhibitor, in any one class. All entries in this competition must have been produced in Nebraska by the exhibitor. Entries shall bear no labels or markings. Exhibitors wishing to identify their entries may send labels in a separate envelope to be attached after judging. Judges will use score cards in judging. Points will be deducted for entries less than the specified amounts.

Judging Standards Scorecard

Extracted Honey Points

Appearance & uniformity of containers	5
Uniformity & accurate volume of honey	5
Freedom from crystals	10
Freedom from impurities, including froth	20
Uniform honey in all containers of the entry	5
Color	10
Brightness	10
Flavor & aroma	15
Density, no additional points below 16% moisture	<u>20</u>
	100

Creamed Honey Points

Appearance & uniformity of containers	5
Uniformity & accurate volume of honey	5
Firmness of set (not runny but spreadable)	20
Texture of granulation (smooth & fine)	20
Absence of impurities, including froth	15
Uniform honey in all containers of the entry	10
Color	10
Flavor & aroma (undamaged by heat, smoke, etc.)	<u>15</u>
	100

<u>Chunk Comb Honey Points</u>	
Uniformity/cleanliness/general appearance	30
Freedom from impurities & granulation	20
Quality of the liquid honey	25
Quality & neatness of comb honey	20
Uniform & accurate volume of honey	<u>5</u>
	100

<u>Cut Comb Honey in Plastic Boxes Points</u>	
Accuracy & neatness of cut edges of comb	20
Uniform depth & filling of honey cells	20
Complete, uniform & clean capping's	20
Quality, quantity & uniformity of honey	20
Freedom from leakage & general appearance of pack	<u>20</u>
	100

<u>Section Comb Honey Points (wood or round)</u>	
Suitability, uniformity & cleanliness of sections	15
Completeness, uniformity & cleanliness of capping's	30
Uniform & completely filled honey cells	30
Quality & uniformity of honey	15
Weight & completeness of attachment of comb	<u>10</u>
	100

<u>Beekeeping Story Points</u>	
Originality	25
Technical merit	25
Educational merit	25
Display Captions	<u>25</u>
	100

<u>Beeswax Candles Points</u>	
Color between straw & canary yellow	25
Cleanliness (free from honey & impurities)	25
Freedom from cracking, shrinking & marks	25
Neatness of workmanship	<u>25</u>
	100

M299 – Extracted Honey Entries shall consist of 4, 1 pound queen line glass jars

M300 – Creamed Honey Entries shall consist of 4, 1 pound glass jars - cylindrical jars preferred

M301 – Chunk Comb Honey Entries shall consist of 4, 1 pound glass jars - cylindrical jars preferred

M302 – Cut Comb Honey Entries shall consist of 4, 12 ounce combs, in plastic boxes.

- M303 – Section Comb Honey** shall consist of 4 wood sections packaged in cardboard, cellophane window cartons or 4 round sections with clear covers and labels or 4 half-combed cassettes
- M304 – Beeswax Candles** Entries shall consist of a pair of beeswax candles that are either molded or dipped.
- M305 – Gift Basket** Entries shall consist of a gift basket of honey and products made from, or with, products of the hive.
- M306 – Beekeeping Story** Entries shall consist of 10 4" X 6" pictures mounted on a poster board with captions that explains beekeeping or skills of a beekeeper to manage a hive throughout the year

NOTES