

North Dakota State Agriscience Fair Judging Rubric (7-8th)

Student(s): _____ Chapter: _____

Category: _____ Division: _____

Area	High Points 5-4 points	Medium Points 3-2 points	Low Points 1-0 points	Points Possible	Points Earned
Knowledge Gained	There is evidence the student researcher(s) have acquired scientific skills and/or knowledge by doing this project.	The is some evidence that the student researcher(s) have acquired scientific skills and/or knowledge by doing this project.	There is no evidence that the student researcher(s) have acquired scientific skills and/or knowledge by doing this project.	15 pts	_____ x 3 =
Scientific Research	The problem is clearly stated. The researcher(s) use scientific facts as a basis for new conclusions. The researcher(s) are aware of the basic scientific principles that lend support to the methods used and conclusions reached. The research is the basis for further study. The appropriate methods and scientific design have been applied. The researcher(s) are aware of the empirical method and the importance of controlling the variables in order to reach valid conclusions.	The problem is not clearly stated. The researcher(s) use some scientific facts as a basis for new conclusions. The researcher(s) have limited knowledge of the basic scientific principles that lend support to the methods used and conclusions reached. With some modification, the research could be the basis for further study. Some of the appropriate methods and scientific design have been applied. The researcher(s) are partially aware of the empirical method and the importance of controlling the variables in order to reach valid conclusions.	The problem is not stated. The researcher(s) do not use scientific facts as a basis for new conclusions. The researcher(s) are unaware of the basic scientific principles that lend support to the methods used and conclusions reached. The research cannot be the basis for further study. Inappropriate methods and a flawed scientific design have been applied. The researcher(s) are unaware of the empirical method and do not recognize the importance of controlling the variables in order to reach valid conclusions.	30 pts	_____ x 6 =
Collaboration	There is clear evidence of collaboration. The student researcher(s) identified portions of the project representing the work of others.	There is lack of clear evidence of collaboration or the student researcher(s) do not identify portions of the project representing the work of others.	There is lack of clear evidence of collaboration and the student researcher(s) do not identify portions of the project representing the work of others.	15 pts	_____ x 3 =
Thoroughness/ Information	The researcher(s) clearly communicate the original plan and adaptations that may have been made to the study. Facts and principles the researcher(s) state are correct and accurate. All results of the experiments are reported accurately based on methodology used. Any errors and weaknesses in the study are identified, if applicable.	The researcher(s) partially communicate the original plan and adaptations that may have been made to the study. Facts and principles the researcher(s) state are partially correct and accurate. Most results of the experiments are reported accurately based on methodology used. Most errors and weaknesses in the study are identified, if applicable.	The researcher(s) do not communicate the original plan and adaptations that may have been made to the study. Facts and principles the researcher(s) state are inaccurate. Results of the experiments are not reported accurately based on methodology used. Errors and weaknesses in the study are not identified.	30 pts	_____ x 6 =

Results/ Conclusions	The student researcher(s) use known facts to draw conclusions. Conclusions are consistent with the data and/or observations presented. The student researcher(s) clearly share what was learned as a result of the research. The student researcher(s) effectively communicate the results and impact of the study.	The student researcher(s) use known facts to draw conclusions. Conclusions are inconsistent with the data and/or observations presented. The student researcher(s) ineffectively share what was learned as a result of the research. The student researcher(s) ineffectively communicate the results and impact of the study.	The student researcher(s) do not use known facts to draw conclusions. Conclusions are inconsistent with the data and/or observations presented. The student researcher(s) do not share what was learned as a result of the research. The student researcher(s) do not communicate the results and impact of the study.	15 pts	_____ x 3 =
Visual Display	The data is presented in the best manner for the particular type of information involved. No spelling errors are present. The exhibit demonstrates general neatness and attractiveness. The display is presented in a logical and interesting manner.	The data is presented in a logical manner for the particular type of information involved. Some spelling errors are present. The exhibit lacks general neatness and attractiveness. The display is presented in a logical yet uninteresting manner.	The data is not presented in a rational manner for the particular type of information involved. Several spelling errors are present. The exhibit lacks general neatness and attractiveness. The display lacks logic and appears uninteresting.	15 pts	_____ x 3 =
Total Presentation Score (120 pts possible)					

Written Report Score

Area		Points Possible	Points Earned
Importance	In two paragraphs, clearly answers the questions: Why is this topic important to the agriculture industry and what problem does the investigation solve for agriculture?	5 pts	
Other's Work	Clearly details what information currently exists concerning the project. <u>References are included.</u>	8 pts	
Materials and Methods	Clearly written in a way that others could replicate the study and results. Section is written in first person and encompasses all materials required.	6 pts	
Hypothesis/Anticipated Results	The hypothesis and/or anticipated results are clearly stated.	3 pts	
Results	Written results of the project are summarized. Trends and relationships are clearly addressed. <i>No conclusions are made in this section.</i> Data that can stand alone in the form of tables and/or figures are included.	10 pts	
Discussion	Includes clear, detailed answers to the following questions: What do the results of the study mean and how are they related to what others found in the "Other's Work" section.	5 pts	
Conclusions	Clearly states what should be done and/or changed as a result of the research. Clearly states what the next steps are to continue the research.	5 pts	
Summary	Two to three paragraphs describing the study. Describes why they chose to conduct the study, why it is important to the ag industry, how the study was conducted, what was found, and how the results apply within the ag industry.	4 pts	
Acknowledgements	Detailed list or paragraph is included acknowledging anyone who assisted with any aspect of the project and how they helped.	2 pts	
Spelling/Grammar	Complete sentences are used. No spelling or grammar errors are present.	2 pts	
Total Written Report Score (50 pts possible)			
Total Score (presentation + written report= 170 pts possible)			