Completed (40 possible) Accuracy of answers (30 possible)	
Appropriate grammar (15 possible)	
Neatness of record (15 possible)	 A U Waathay a Alimata Caianaa
Total	 4-H Weather & Climate Science
A = 86-100 points	
B = 71-85 points	Advanced (Grades 9-12)
C = 70 points or less	Auvaiiugu lulauga 3-12)

C = 70 points or less





	Record for Ye	ear		
A completed record sheet Use any 4-H publications, the	is due by the last busir	ness day of May to ex		
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The Basics		411011		
Name		4-H Club		
Years in 4-H	Grade _	Years	in Project	
At the Surface				
Describe how a warm front is produced	l			
Describe how a cold front is produced.				
Circle the characteristics that correspon	ad to the air mass t	upon listed bolow		
Air Mass Type	Characteristic		Characteristi	ic Humidity
Maritime Tropical Air Mass	Cold	Warm	Moist	Dry
Continental Polar Air Mass	Cold	Warm	Moist	Dry
Maritime Polar Air Mass	Cold	Warm	Moist	Dry
Continental Tropical Air Mass	Cold	Warm	Moist	Dry
Soaking It In				
What is the Coriolis Effect?				
In what ways do the heat index and/or	windchill differ from	the actual tempe	rature? What causes t	he difference?
Motobing the Meather				
Watching the Weather				
Identify the weather station model syml	ools in the chart be	low.		

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Record Sheet

Visit www.weather.gov and record today's weather. Simply enter the cities listed and record the results below.

Location	Today's Date	Where were the conditions recorded? (ie. Indianapolis International Airport)	Temperature	Humidity	Barometric Reading
Trenton, NJ			°F /°C	%	in
Santa Fe, NM			°F/°C	%	in
Juneau, AK			°F/°C	%	in

Think of a tragic event in history that resulted from some form of severe weather. Provide the name of the storm or historic event and describe what happened to the people or place that it affected?
Forecasting What is CoCoRaHS, and how does one get involved?
Some weather and climate issues can be controversial. Select a topic of controversy and explain the two opposing perceptions on the issue?
Name three colleges or universities in which you could study weather and climate science or a similar field of study. 1 2 3
Of the professions that exist in weather and climate science, which appeals to you the most and why?
What is the potential salary earnings for this career? Provide a brief description of your 4-H exhibit or plan for your exhibit.
What is one thing you learned or sparked your interest as a result of completing this project?

It is the policy of the Purdue University Cooperative Extension Service that all persons have equal opportunity and access to its educational programs, services, activities, and facilities without regard to race, religion, color, sex, age, national origin or ancestry, marital status, parental status, sexual orientation, disability or status as a veteran. Purdue University is an Affirmative Action institution. This material may be available in alternative formats.