

# 2010 Montana State FFA Agronomy CDE Team Problem

**Chapter:** \_\_\_\_\_ **Team Number:** \_\_\_\_\_

Green Acres Farm has been planting 4 fields into winter wheat for the last 10 years. All the fields are 160 acres each. When the owner, Farmer Fran, got the check in the mail from the local elevator, he noticed that the production has been dropping off over the last few years. Fran wants you to tell him what would be his best way to solve the problem. Fran has considered raising other crops, but he doesn't know the benefits of each crop or how they will influence his operation. Fran's farm is located in NorthEastern Montana and has several elevators near his farm that purchased several different varieties of crops. Two of the fields that Fran owns are non-irrigated and the other two are irrigated by sprinkler pivots. Fran wants to know what cropping system should be used, such as implementing a fallow year or double cropping system or inter cropping. Fran has grain and hay equipment as well as tillage equipment that can he can utilize from your ideas. Remember all four fields have had winter wheat planted in them for the past 10 years. Points will be given on practicality, originality, as well as explanation of your answers.

- 1. What crops would your team recommend for Fran to plant in the two irrigated fields and why? (40 points)**
  
  
  
  
  
  
  
  
  
  
- 2. Would you recommend the same crops to be planted in the non-irrigated fields; why or why not? (35 points)**
  
  
  
  
  
  
  
  
  
  
- 3. Would your team recommend a difference in Fran's cropping system? If so, what are the recommendations? (35 points)**



