

# MTFC Scenario Quest Response 2025-26

Team Name
Team ID #

## MTFC Scenario Quest Template Use Notes:

- Refer to the official MTFC Scenario Quest 2025-26 for the 30 prompts and scoring instructions.
- The use of this template is OPTIONAL.
  - It is provided as an optional resource for teams to keep their Scenario Quest response organized. Teams who wish to use this template should make a copy in order to edit.
- The final version of the team's MTFC Scenario Quest Response should be downloaded as a PDF or Word document to submit on the ICS Dashboard. A single file will be submitted.
- Additional resources (including the Actuarial Process Guide) can be found on the Modeling the Future Challenge website: <https://www.mtfchallenge.org/resources/>
- Please direct any questions to [challenge@mtfchallenge.org](mailto:challenge@mtfchallenge.org).

## **Part 1: Project Definition (Corn Farming Topic Prompts)**

These prompts can be found on page 6 of the 2025-26 Scenario Quest. Additional information on Project Definition can be found in **Step 1: Project Definition** in the Actuarial Process Guide.

Team Responses:

**#1: Who is at risk?**

- Response:

**#2: Defining the risks**

- Response:

**#3: Identify Risk mitigation strategies**

- Response:

## Part 2: Data Identification & Assessment (Corn Farming Topic Prompts)

These prompts can be found on pages 7-9 of the 2025-26 Scenario Quest. Additional information on Data Identification and Assessment can be found in **Step 2: Data Identification & Assessment** in the Actuarial Process Guide.

Team Responses:

**#4: Identifying the type of data**

- Response:

**#5: Planting Costs for Farmer Jones**

- Response:

**#6: Assumed yield for Farmer Jones**

- Response:

**#7: Anticipated total planting costs**

- Response:

**#8: Range for anticipated costs**

- Response:

**#9: Harvest Expectations for Farmer Jones**

- Response:

**#10: corn sale prices expectations**

- Response:

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec

**#12: Harvest Expectations with October sale**

- Response:

**#13: Harvest expectations with optimal sale**

- Response:

**#14: Creation of a data visual.**

- Response:

**#15: Top causes of loss & their impacts**

- Response:

## **Part 3: Mathematical Modeling (Corn Farming Topic Prompts)**

These prompts can be found on page 10-11 of the 2025-26 Scenario Quest. Additional information on Mathematical Modeling can be found in **Step 3: Mathematical Modeling** in the Actuarial Process Guide.

Team Responses:

**#16: Linear regression**

- Response:

**#17: Cause of loss trends or patterns**

- Response:

**#18: Assumption evaluation**

- Response:

**#19: Assumption development**

- Response:

**#20: Frequency of claims due to drought**

- Response:

**#21: Expected value of loss due to drought**

- Response:

**#22: Average annual insurance payout due to drought**

- Response:

## **Part 4: Risk Analysis (Corn Farming Topic Prompts)**

These prompts can be found on page 12-13 of the 2025-26 Scenario Quest. Additional information on conducting a Risk Analysis can be found in **Step 4: Risk Analysis** in the Actuarial Process Guide.

Team Responses:

**#23: Risk mitigation strategy: Grain Silo**

- Response:

**#24: Risk mitigation Strategy: irrigation system**

- Response:

**#25: Characterizing the crop insurance scenario**

- Response:

**#26: Value of the insurance policy**

- Response:

## **Part 5: Recommendations (Corn Farming Topic Prompts)**

These prompts can be found on page 14 of the 2025-26 Scenario Quest. Additional information on making Recommendations can be found in **Step 5: Recommendations** in the Actuarial Process Guide.

Team Responses:

**#27: Irrigation system impact**

- Response:

**#28: Comparison of expected value of loss**

- Response:

**#29: Profit trajectory with irrigation**

- Response:

**#30: Should the irrigation system be recommended?**

- Response: