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GRAIN QUALITY CLASSIFICATION R

WHEAT GRAIN  
QUALITY  
CLASSIFICATION  
REPORT

AI-Powered Deep Learning System

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Report Date:	November 16, 2025
Report Time:	06:18 PM
Total Images:	1
Processing Time:	1.56 seconds



*Generated by Wheat Quality Classification System*

## Executive Summary

This report presents the quality classification results for **1** wheat grain images processed using an AI-powered deep learning system. The analysis was completed in **1.56 seconds**, with an average processing time of **1.56 seconds** per image.

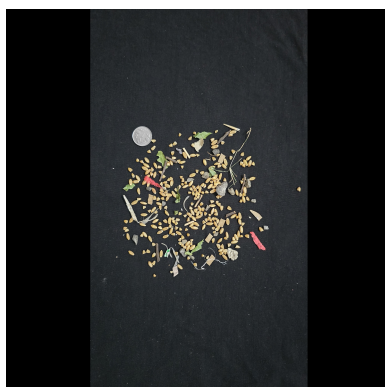
## Grade Distribution

Grade	Count	Percentage	Quality Description
C	1	100.0%	Moderate quality — noticeable irregularities.

## Detailed Results

### *Image 1: 20251014\_041238.jpg*

Predicted Grade:	C
Quality Description:	Moderate quality — noticeable irregularities.
Processing Time:	1.56 seconds
Timestamp:	2025-11-16 18:18:51



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## Methodology

This wheat grain quality classification system utilizes advanced deep learning techniques to automatically assess grain quality. The system employs a ResNet50 convolutional neural network, pre-trained on ImageNet, to extract 2048-dimensional feature embeddings from each wheat grain image. These features are then normalized and fed into a machine learning classifier trained on labeled wheat grain samples to predict quality grades ranging from A (excellent) to F (rejected).

## Performance Statistics

Metric	Value
Total Images Processed	1
Total Processing Time	1.56 seconds
Average Time per Image	1.56 seconds
Unique Grades Detected	1
Highest Grade	C

Report generated on November 16, 2025 at 06:18 PM