

Model Report: Voting Ensemble

```
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```

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Script: /home/mmann1123/Documents/github/South\_Africa\_Crop\_Comp/deep\_learn/src/Classical Machine Learning/Fie

Data Split:

```
train_count: 3317
test_count: 830
random_seed: 42
split_method: fid-wise
```

Metrics (test set):

```
Accuracy: 0.7819
Cohen Kappa: 0.6824
F1 Weighted: 0.7692
F1 Macro: 0.6846
```

Hyperparameters:

```
estimators: ['LR (OVR)', 'RF (OVR, n=400)', 'HGB (OVR)', 'XGB (OVR, n=400, depth=6, lr=0.1)']
voting: soft
final_estimator: N/A
```

## Per-Class Metrics

Class	Precision	Recall	F1-Score	Support
Barley	0.692	0.624	0.656	133
Canola	0.869	0.860	0.864	100
Lucerne/Medics	0.869	0.972	0.917	388
Small grain grazing	0.595	0.297	0.396	74
Wheat	0.579	0.600	0.589	135

# Confusion Matrix

