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Model Report: TempCNN Temporal Conv
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Generated: 2026-02-13 11:08:54
Script: /home/mmann1123/Documents/github/South_Africa_Crop_Comp/deep_learn/src/Deep Learning/Pixel_Field_Lev

Data Split:
  train_count: 4802658
  val_count: 1205790
  test_count: 1531914
  random_seed: 42
  split_method: fid-wise

Metrics (test set):
  Accuracy:      0.7952
  Cohen Kappa:   0.7165
  F1 Weighted:   0.7992
  F1 Macro:      0.7434

Hyperparameters:
  architecture: TempCNN (Pelletier et al. 2019)
  conv_layers: 64→64→128
  kernel_sizes: 5, 5, 3
  pooling: AdaptiveAvgPool1d
  dropout: 0.2
  lr: 0.001
  epochs: 50
  patience: 8
  batch_size: 1024
  n_models: 5
  seeds: [42, 101, 202, 303, 404]
  temporal_order: chronological
```

Per-Class Metrics

Class	Precision	Recall	F1-Score	Support
Barley	0.693	0.807	0.746	140
Canola	0.929	0.850	0.888	107
Lucerne/Medics	0.928	0.879	0.903	380
Small grain grazing	0.495	0.651	0.562	83
Wheat	0.680	0.567	0.618	120

Confusion Matrix

	Barley	Canola	Lucerne/Medics	Small grain grazing	Wheat
Barley	113	3	5	7	12
Canola	6	91	1	4	5
Lucerne/Medics	5	1	334	32	8
Small grain grazing	8	3	11	54	7
Wheat	31	0	9	12	68