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Model Report: TabTransformer Ensemble (Field-Level)
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Script: /home/mmann1123/Documents/github/South_Africa_Crop_Comp/deep_learn/src/Deep Learning/Pixel_Field_Leve

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

Metrics (test set):
  Accuracy:      0.8024
  Cohen Kappa:   0.7197
  F1 Weighted:   0.7985
  F1 Macro:      0.7305

Hyperparameters:
  n_d: 64
  n_a: 64
  n_steps: 5
  gamma: 1.5
  n_independent: 2
  n_shared: 2
  lr: 0.001
  scheduler: StepLR(step=10, gamma=0.9)
  max_epochs: 100
  patience: 10
  batch_size: 1024
  n_models: 5
  seeds: [42, 101, 202, 303, 404]
```

Per-Class Metrics

Class	Precision	Recall	F1-Score	Support
1	0.568	0.658	0.610	120
2	0.721	0.700	0.710	140
3	0.919	0.850	0.883	107
4	0.903	0.953	0.927	380
5	0.655	0.434	0.522	83

Confusion Matrix