Epoch 1/10

Train Loss: 299.9309 Acc: 0.0874

Val Loss: 60.7292 Acc: 0.0783 | LR: 0.000100 | Time: 92.9s

Epoch 2/10

Train Loss: 16.2807 Acc: 0.1068

Val Loss: 4.1492 Acc: 0.1512 | LR: 0.000100 | Time: 95.9s

Epoch 3/10

Train Loss: 3.2429 Acc: 0.1457

Val Loss: 3.9562 Acc: 0.1673 | LR: 0.000100 | Time: 100.5s

Epoch 4/10

Train Loss: 2.9632 Acc: 0.1889

Val Loss: 3.1752 Acc: 0.2100 | LR: 0.000100 | Time: 102.3s

Epoch 5/10

Train Loss: 2.7543 Acc: 0.2469

Val Loss: 2.6265 Acc: 0.3149 | LR: 0.000100 | Time: 105.4s

Epoch 6/10

Train Loss: 2.7381 Acc: 0.2945

Val Loss: 2.5972 Acc: 0.3238 | LR: 0.000100 | Time: 100.3s

Epoch 7/10

Train Loss: 2.3458 Acc: 0.3674

Val Loss: 2.3018 Acc: 0.3790 | LR: 0.000100 | Time: 104.8s

Epoch 8/10

Train Loss: 2.1862 Acc: 0.4143

Val Loss: 2.3123 Acc: 0.4377 | LR: 0.000100 | Time: 105.9s

Epoch 9/10

Train Loss: 1.9319 Acc: 0.4689

Val Loss: 2.2351 Acc: 0.5000 | LR: 0.000100 | Time: 99.3s

Epoch 10/10

Train Loss: 1.8158 Acc: 0.5341

Val Loss: 2.0765 Acc: 0.5285 | LR: 0.000100 | Time: 101.6s

Entraînement ProtoPNet terminé.

Meilleure précision de validation: 0.5285

Training complete. Evaluating on test set...

Test set predictions complete. Generating confusion matrix...

A screenshot of a computer

AI-generated content may be incorrect.

Rapport de classification:

precision recall f1-score support

aphid 0.5758 0.4318 0.4935 44

army\_worm 0.9714 0.7907 0.8718 43

black\_rust 0.4103 0.6957 0.5161 46

brown\_rust 0.5147 0.7955 0.6250 44

common\_rust 0.8000 0.1509 0.2540 53

fusarium\_head\_blight 0.5000 0.9429 0.6535 35

healthy 0.8571 0.5000 0.6316 72

leaf\_blight 0.4130 0.4043 0.4086 47

powdery\_mildew\_leaf 0.3333 0.5556 0.4167 54

spetoria 0.5870 0.6585 0.6207 41

tan\_spot 0.0000 0.0000 0.0000 37

yellow\_rust 0.8776 0.9149 0.8958 47

accuracy 0.5613 563

macro avg 0.5700 0.5701 0.5323 563

weighted avg 0.5914 0.5613 0.5355 563

Model saved to ../saved\_models\_and\_data/wheat\_disease\_protopnet\_final\_model.pth