Supplementary Table 9. Confusion matrix with Combined individual classes using Clarifai model.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | Predicted class | | | | | | | | | | | | | | | | | | | |
|  | Classa | SMFD (Lower side) | SMFD (Upper side) | Little leaf (Upper side) | Little leaf (Lower side) | TYLC (Lower side) | TYLC (Upper side) | BST (Lower side) | BST (Upper side) | Early Blight (Lower side) | Early Blight (Upper side) | Healthy (Upper side) | Healthy (Lower side) | 2-4 D | BST (Fruit) | Pox | Raincheck | Healthy(Fruit) | Nutrient (Upper side) | Tospo |
| Actual class | SMFD (lower side) | 17 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SMFD (Upper side) | 0 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Little leaf (Upper side) | 1 | 0 | 15 | 2 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| Little leaf (Lower side) | 0 | 0 | 1 | 4 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| TYLC (Lower side) | 0 | 0 | 0 | 0 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| TYLC (Upper side) | 0 | 0 | 0 | 0 | 4 | 59 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| BST (Lower side) | 0 | 0 | 0 | 0 | 0 | 0 | 24 | 5 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| BST (Upper side) | 0 | 0 | 0 | 0 | 0 | 0 | 16 | 73 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Early Blight (Lower side) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 34 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Early Blight (Upper side) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 72 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Healthy (Upper side) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 44 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Healthy (Lower side) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2-4 D | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 42 | 0 | 0 | 0 | 0 | 0 | 0 |
| BST (Fruit) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 96 | 6 | 0 | 0 | 0 | 0 |
| Pox | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9 | 15 | 0 | 0 | 0 | 0 |
| Raincheck | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 48 | 0 | 0 | 0 |
| Healthy (Fruit) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 11 | 0 | 0 |
| Nutrient (Upper side) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 28 | 0 |
| Tospo | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 35 |

a: SMFD: Spider mite feeding damage; TYLC: Tomato yellow leaf curl; BST: Bacterial spot of tomato; 2-4 D: herbicide 2-4 D spray drift damage symptom; Nutrient: Nutrient deficiency symptom: Tospo: Tomato spotted wilt symptom