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

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| --- | --- |
|  | 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