| **Sr.No** | **Diseases Name** | **Symptoms** | **Suggested Treatment** | **Medicines Used** | **References** |
| --- | --- | --- | --- | --- | --- |
| 1 | Potato\_\_\_Early\_blight | Small dark spots, bull's eye lesions, yellow halos, leaf/stem lesions, tuber rot | Crop rotation, sanitation, drip irrigation, resistant varieties, fungicides | Chlorothalonil, Mancozeb, Azoxystrobin, Difenoconazole | https://knowledge-farm.agentcrop.com/articles/potato-early-blight/ |
| 2 | Tomato\_Bacterial\_spot | Dark spots with concentric rings on older leaves; yellow halo; leaf withering; stem lesions; tuber spots | Crop rotation, debris removal, drip irrigation, resistant varieties, fungicides | Chlorothalonil, Mancozeb, Azoxystrobin, Difenoconazo | https://microbenotes.com/bacterial-spot-of-tomato-and-peppers/ |
| 3 | Tomato\_Early\_blight | Dark brown circular spots with concentric rings on older leaves; yellowing around spots; leaves dry and fall off; lesions on stems near soil; fruit rot near stem end | Certified disease-free seeds; crop rotation (2-3 yrs, avoid tomato/potato); remove infected debris; avoid overhead irrigation; maintain spacing; use resistant varieties (‘Arka Rakshak’, ‘Arka Abhijit’); apply Trichoderma/Pseudomonas/neem oil; use fungicides only if needed. | Chlorothalonil 75% WP, Mancozeb 75% WP, Azoxystrobin + Difenoconazole, Copper oxychloride | https://agrisearchindia.com/en/blog/early\_blight\_control\_in\_tomato\_symptoms\_causes\_and\_complete\_management |
| 4 | Tomato\_Septoria\_leaf\_spot | Small, circular brown/gray spots with dark borders on lower leaves; yellowing (chlorosis) around spots; lesions with black centers (target-like); premature leaf drop; stem lesions in severe cases; reduced fruit production | Remove infected plant material; improve air circulation by pruning and spacing; water at base early morning; use organic fungicides; practice crop rotation; apply mulch; plant disease-resistant varieties | Copper-based fungicides, Neem oil, Baking soda solution, Sulfur-based fungicides | https://thehumbleorganicfarmer.com/complete-guide-to-septoria-leaf-spot-in-tomatoes-causes-symptoms-and-organic-treatment/ |
| 5 | Tomato\_Leaf\_Mold | Yellow spots on underside of lower leaves; fuzzy olive-green mold | Improve ventilation, avoid overhead watering, remove infected leaves | Chlorothalonil, Copper fungicides | https://allegany.cce.cornell.edu/gardening/pest-management/bacterial-leaf-spot-in-peppers-how-to-identify-treat-and-prevent-it |
| 6 | Tomato\_\_Tomato\_YellowLeaf\_\_Curl\_Virus | Leaf curling (upward/downward); Yellowing between veins; Stunted growth; Flower drop; Yield loss if infected early | Use resistant varieties (e.g., BHN‑1045, Carina, Ella Bella); Use virus-free seedlings; Control whiteflies using IPM (traps, clean culture); Remove and destroy infected plants; Maintain field hygiene and spacing; Practice crop rotation | Imidacloprid (whitefly control); Thiamethoxam; Neem-based biopesticides | https://content.ces.ncsu.edu/tomato-yellow-leaf-curl-virus |
| 7 | Tomato\_healthy | No visible spots; Green, turgid leaves; Proper flowering and fruiting; No wilting or yellowing | Maintain well-drained soil; Ensure balanced fertilization; Use resistant varieties; Apply mulching; Regular monitoring for early symptoms; Avoid overhead watering | None required | https://garden.org/plants/ |
| 8 | Pepper\_\_bell\_\_\_Bacterial\_spot | Small water-soaked spots on lower leaves; Spots turn dark brown/black with yellow halos; Lesions angular; Leaf drop or wilting; Infected fruits with sunken scabby spots or cracking | Mild infestation: Remove affected leaves; spray weekly with Bacillus subtilis or copper soap; use drip irrigation; prune for airflow; Moderate infestation: Remove infected leaves; apply copper-based spray + Bacillus subtilis alt thoroughly; | Copper soap; Bacillus subtilis biopesticide; Copper hydroxide or copper sulfate; Streptomycin (if necessary) | https://allegany.cce.cornell.edu/gardening/pest-management/bacterial-leaf-spot-in-peppers-how-to-identify-treat-and-prevent-it |