

# SolarVision AI

## PV Panel Defect Detection Report

Generated: February 05, 2026 at 16:44

### Executive Summary

Metric	Value
Total Images Analyzed	36
Average Confidence	96.4%
Detection Model	ResNet18 + SVM (96.8% accuracy)
Report Generated By	SolarVision AI v1.0

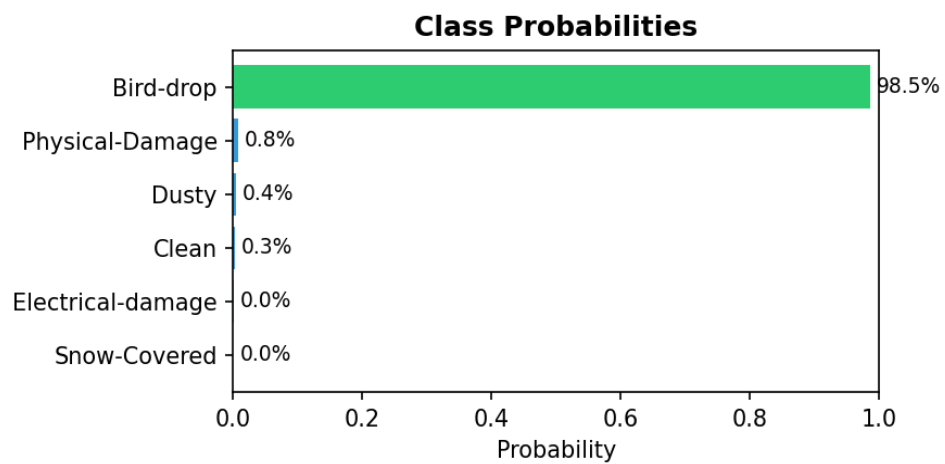
## Result 1: Bird-drop\_Bird (159).jpg

**Predicted Class:** Bird-drop

**Confidence:** 98.5%

**Top 3 Classes:**

- Bird-drop: 98.5%
- Physical-Damage: 0.8%
- Dusty: 0.4%



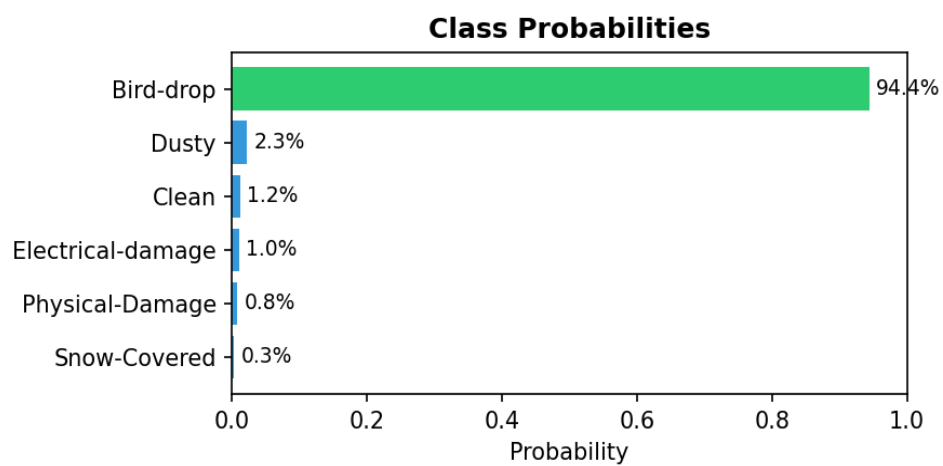
## Result 2: Bird-drop\_Bird (179).JPG

**Predicted Class:** Bird-drop

**Confidence:** 94.4%

**Top 3 Classes:**

- Bird-drop: 94.4%
- Dusty: 2.3%
- Clean: 1.2%



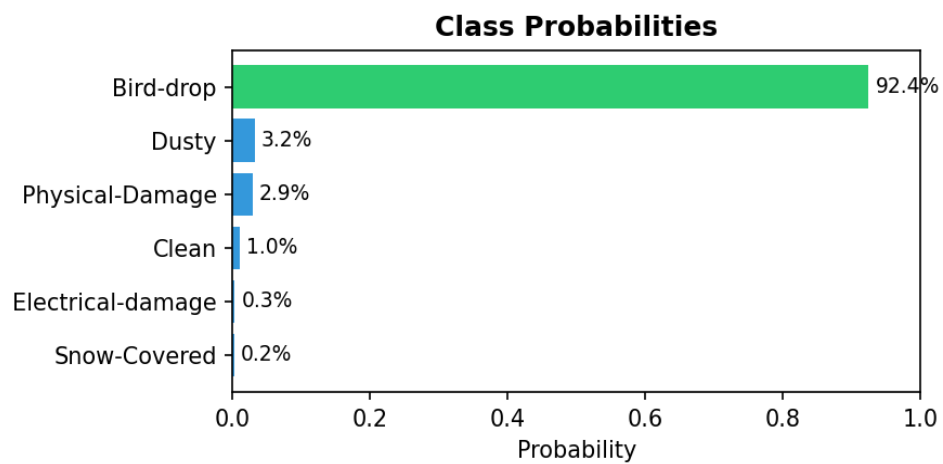
## Result 3: Bird-drop\_Bird (80).jpg

**Predicted Class:** Bird-drop

**Confidence:** 92.4%

**Top 3 Classes:**

- Bird-drop: 92.4%
- Dusty: 3.2%
- Physical-Damage: 2.9%



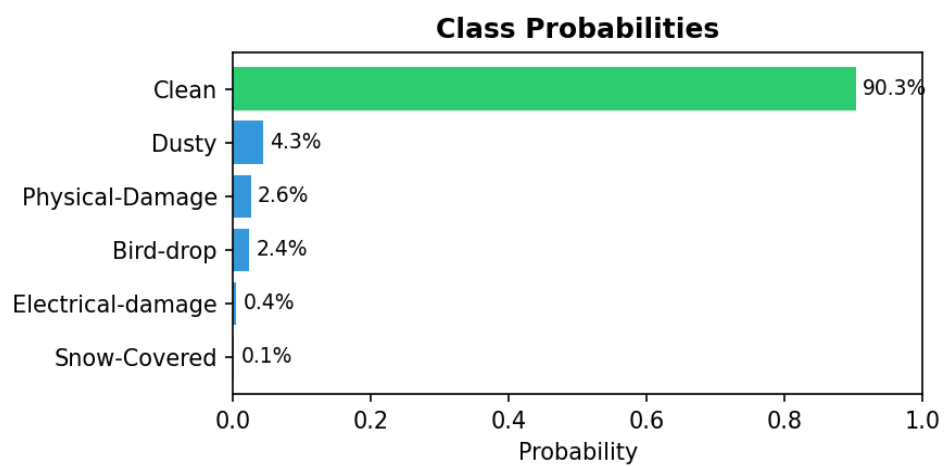
## Result 4: Clean\_Clean (122).jpg

**Predicted Class:** Clean

**Confidence:** 90.3%

**Top 3 Classes:**

- Clean: 90.3%
- Dusty: 4.3%
- Physical-Damage: 2.6%



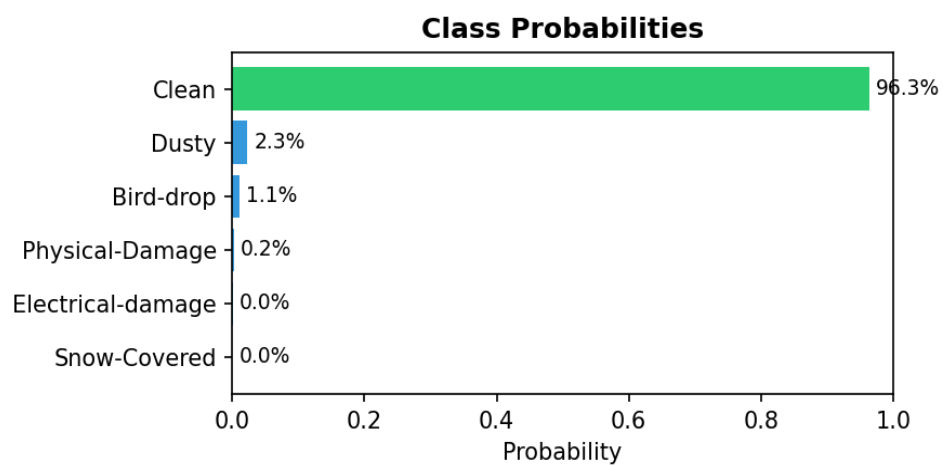
## Result 5: Clean\_Clean (47).jpg

**Predicted Class:** Clean

**Confidence:** 96.3%

**Top 3 Classes:**

- Clean: 96.3%
- Dusty: 2.3%
- Bird-drop: 1.1%



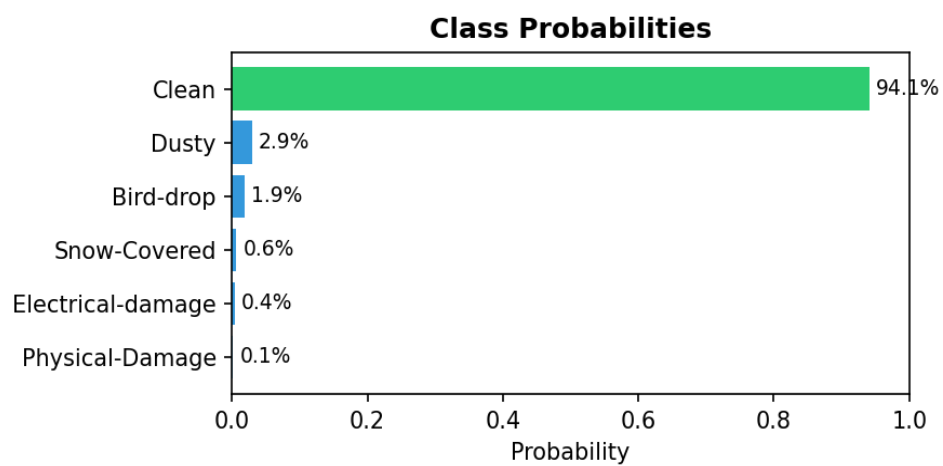
## Result 6: Clean\_Clean (56).jpg

**Predicted Class:** Clean

**Confidence:** 94.1%

**Top 3 Classes:**

- Clean: 94.1%
- Dusty: 2.9%
- Bird-drop: 1.9%



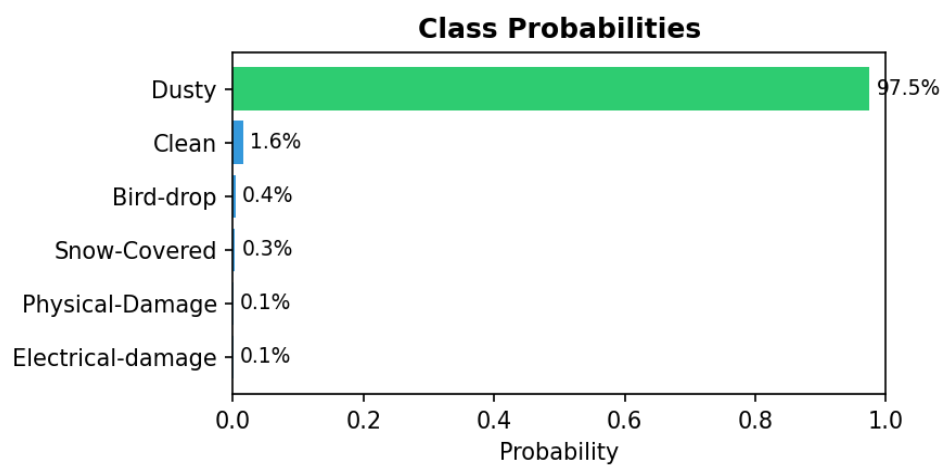
## Result 7: Dusty\_Dust (131).jpg

**Predicted Class:** Dusty

**Confidence:** 97.5%

**Top 3 Classes:**

- Dusty: 97.5%
- Clean: 1.6%
- Bird-drop: 0.4%





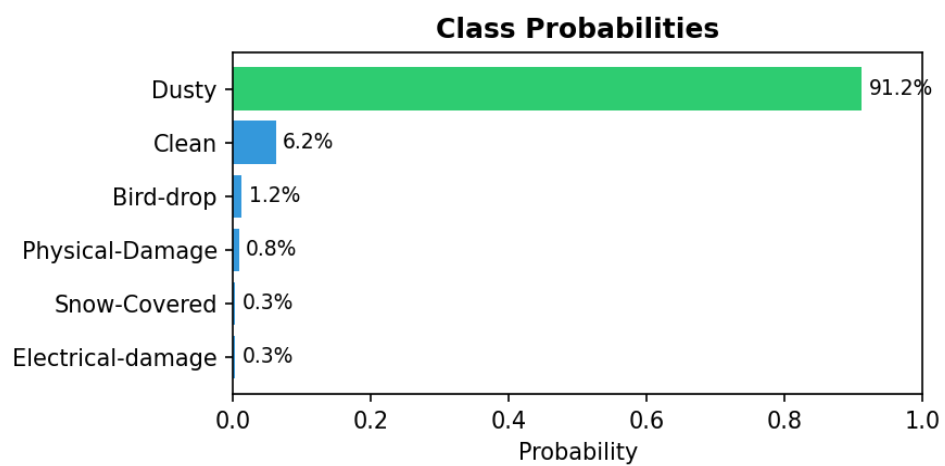
## Result 8: Dusty\_Dust (22).jpg

**Predicted Class:** Dusty

**Confidence:** 91.2%

**Top 3 Classes:**

- Dusty: 91.2%
- Clean: 6.2%
- Bird-drop: 1.2%



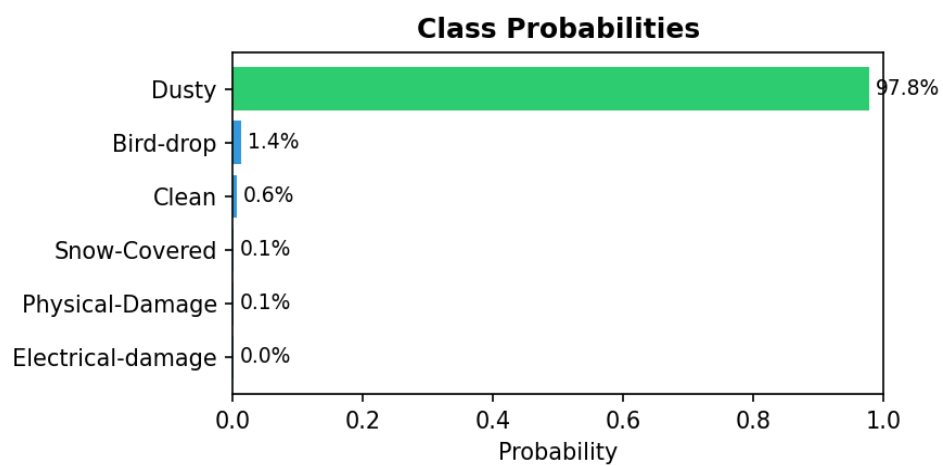
## Result 9: Dusty\_Dust (43).jpg

**Predicted Class:** Dusty

**Confidence:** 97.8%

**Top 3 Classes:**

- Dusty: 97.8%
- Bird-drop: 1.4%
- Clean: 0.6%



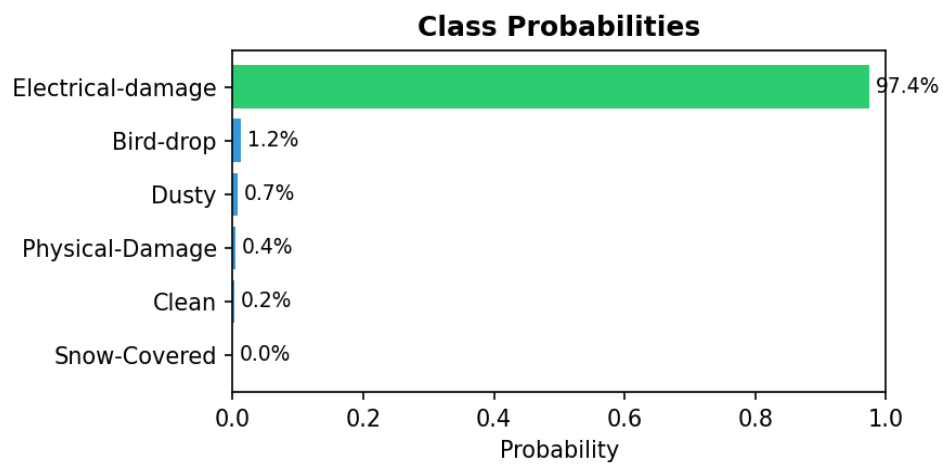
## Result 10: Electrical-damage\_Electrical (107).jpg

**Predicted Class:** Electrical-damage

**Confidence:** 97.4%

**Top 3 Classes:**

- Electrical-damage: 97.4%
- Bird-drop: 1.2%
- Dusty: 0.7%



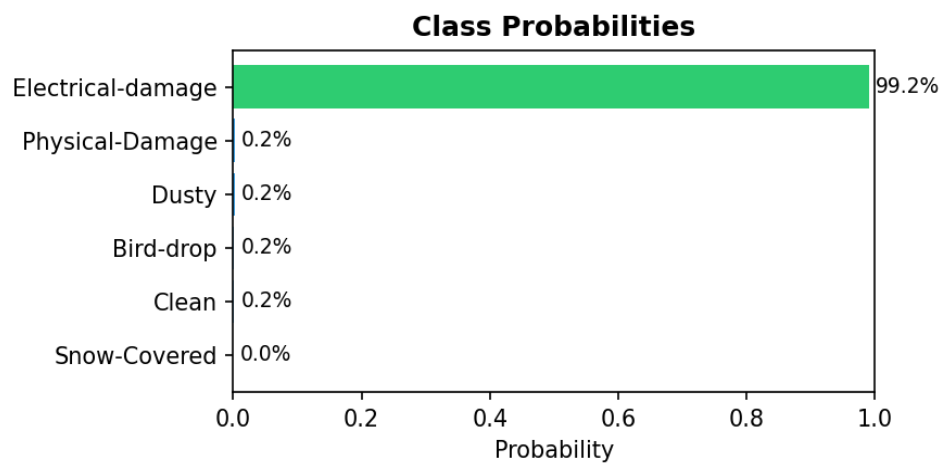
## Result 11: Electrical-damage\_Electrical (72).jpg

**Predicted Class:** Electrical-damage

**Confidence:** 99.2%

**Top 3 Classes:**

- Electrical-damage: 99.2%
- Physical-Damage: 0.2%
- Dusty: 0.2%



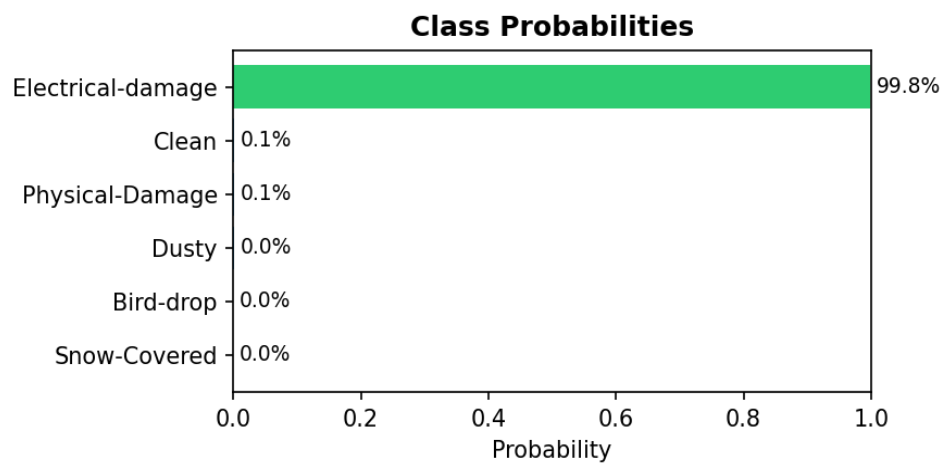
## Result 12: Electrical-damage\_Electrical (78).jpg

**Predicted Class:** Electrical-damage

**Confidence:** 99.8%

**Top 3 Classes:**

- Electrical-damage: 99.8%
- Clean: 0.1%
- Physical-Damage: 0.1%



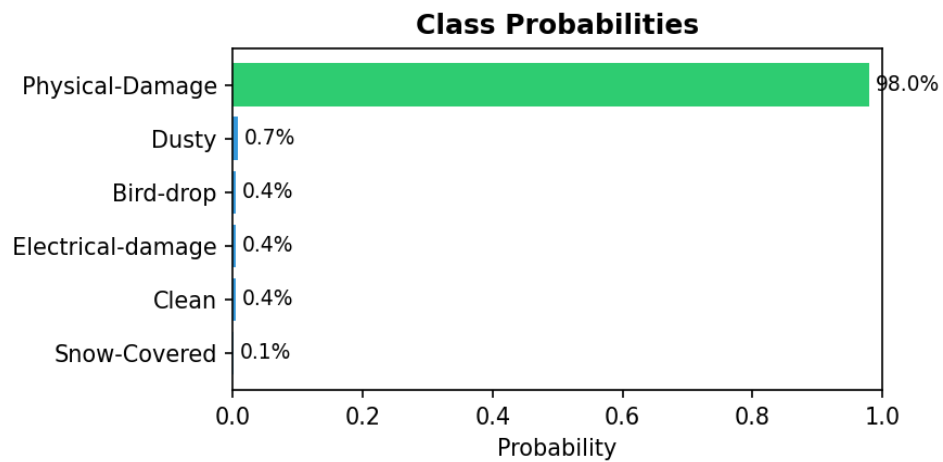
## Result 13: Physical-Damage\_Physical (148).jpg

**Predicted Class:** Physical-Damage

**Confidence:** 98.0%

**Top 3 Classes:**

- Physical-Damage: 98.0%
- Dusty: 0.7%
- Bird-drop: 0.4%



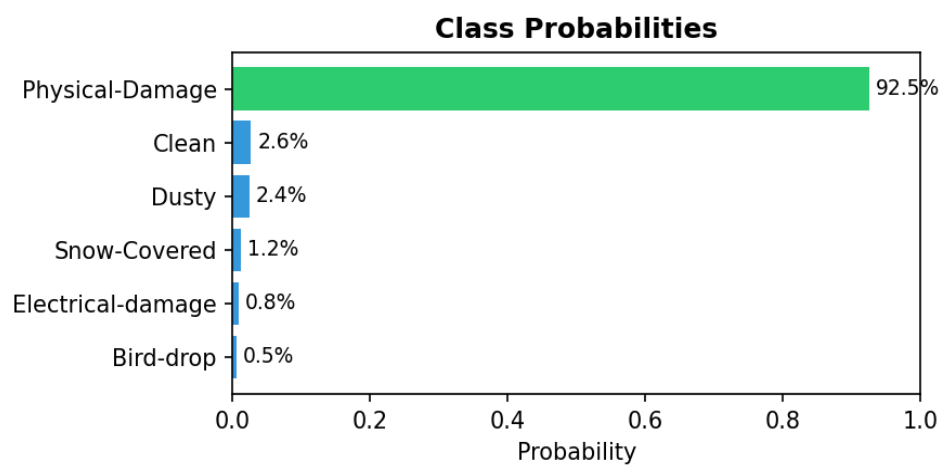
## Result 14: Physical-Damage\_Physical (38).jpg

**Predicted Class:** Physical-Damage

**Confidence:** 92.5%

**Top 3 Classes:**

- Physical-Damage: 92.5%
- Clean: 2.6%
- Dusty: 2.4%



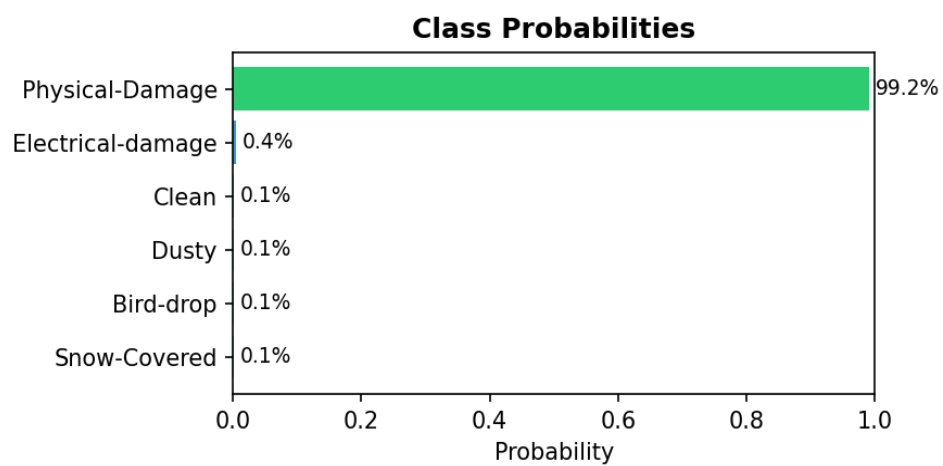
## Result 15: Physical-Damage\_Physical (54).jpg

**Predicted Class:** Physical-Damage

**Confidence:** 99.2%

**Top 3 Classes:**

- Physical-Damage: 99.2%
- Electrical-damage: 0.4%
- Clean: 0.1%





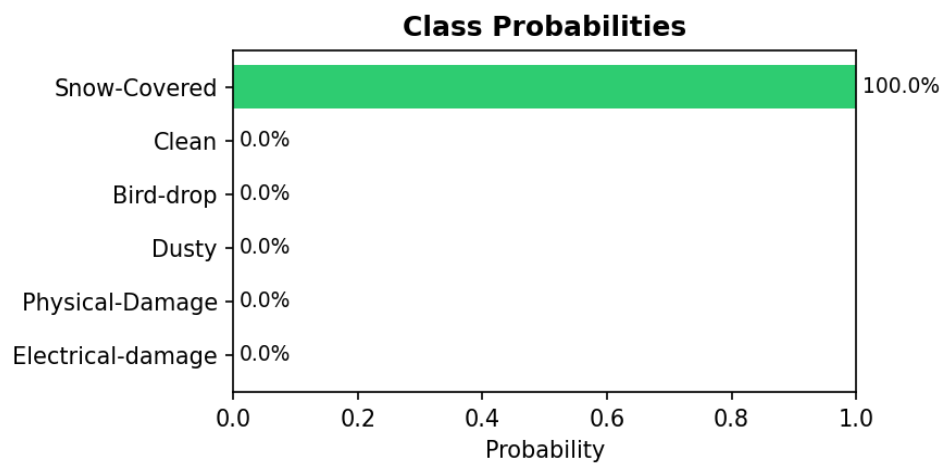
## Result 16: Snow-Covered\_Snow (149).jpg

**Predicted Class:** Snow-Covered

**Confidence:** 100.0%

**Top 3 Classes:**

- Snow-Covered: 100.0%
- Clean: 0.0%
- Bird-drop: 0.0%



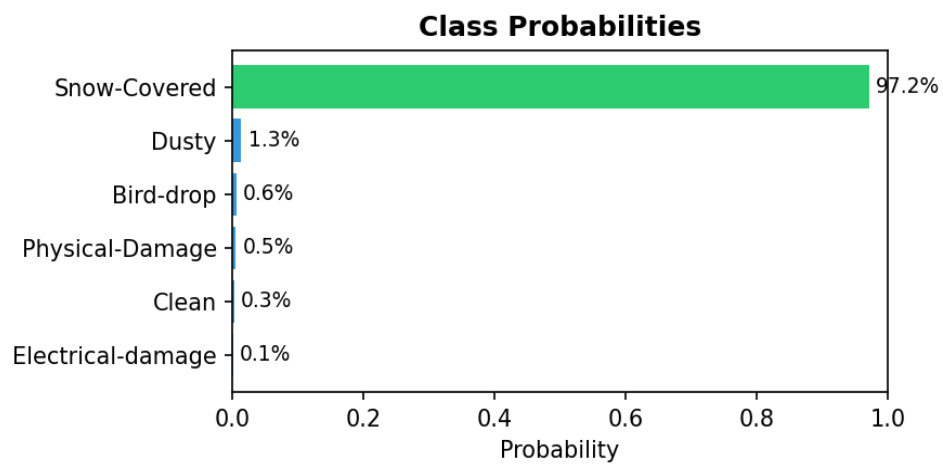
## Result 17: Snow-Covered\_Snow (154).jpg

**Predicted Class:** Snow-Covered

**Confidence:** 97.2%

**Top 3 Classes:**

- Snow-Covered: 97.2%
- Dusty: 1.3%
- Bird-drop: 0.6%



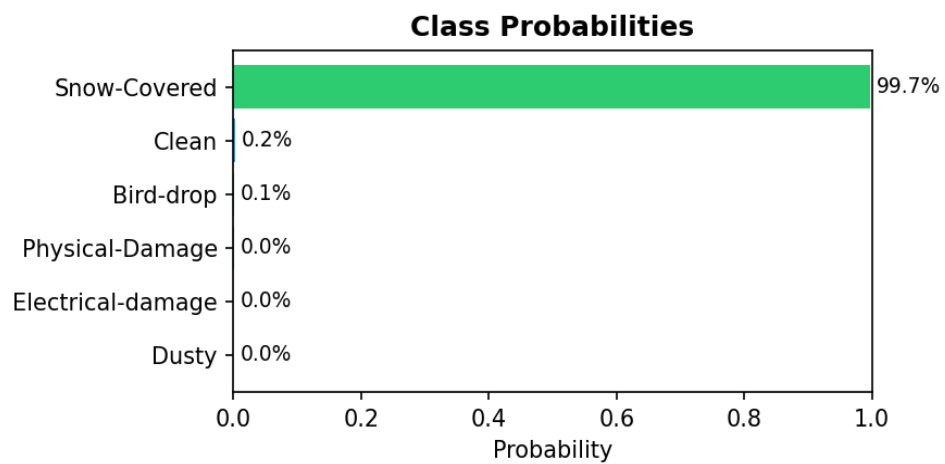
## Result 18: Snow-Covered\_Snow (173).jpg

**Predicted Class:** Snow-Covered

**Confidence:** 99.7%

**Top 3 Classes:**

- Snow-Covered: 99.7%
- Clean: 0.2%
- Bird-drop: 0.1%



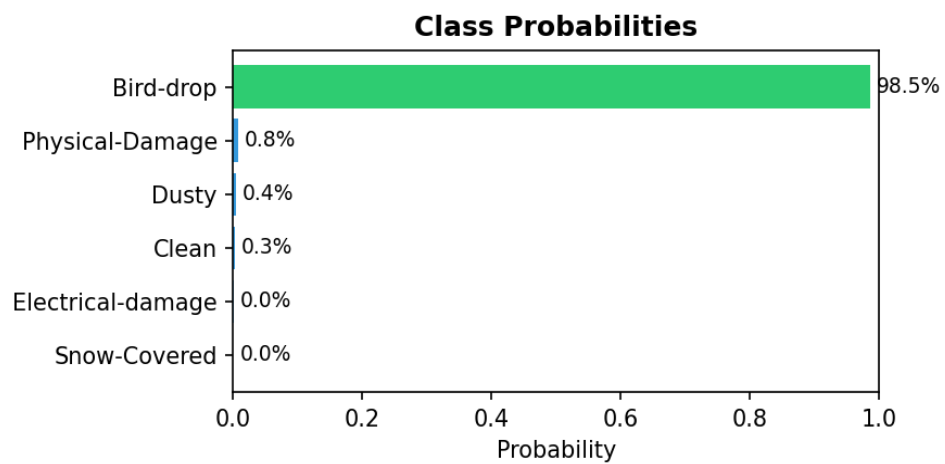
## Result 19: Bird-drop\_Bird (159).jpg

**Predicted Class:** Bird-drop

**Confidence:** 98.5%

**Top 3 Classes:**

- Bird-drop: 98.5%
- Physical-Damage: 0.8%
- Dusty: 0.4%



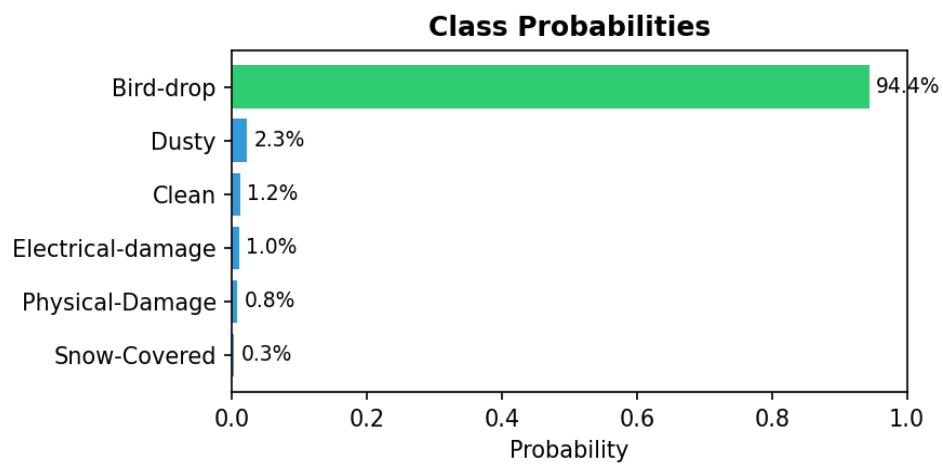
## Result 20: Bird-drop\_Bird (179).JPG

**Predicted Class:** Bird-drop

**Confidence:** 94.4%

**Top 3 Classes:**

- Bird-drop: 94.4%
- Dusty: 2.3%
- Clean: 1.2%



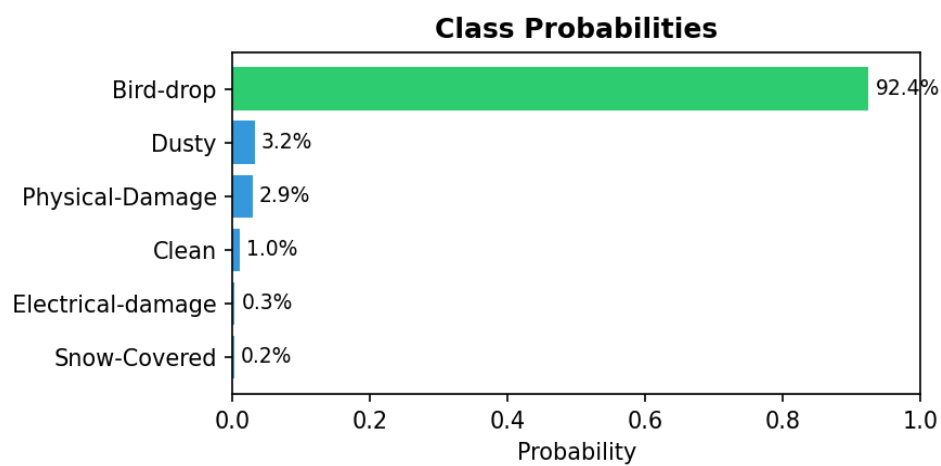
## Result 21: Bird-drop\_Bird (80).jpg

**Predicted Class:** Bird-drop

**Confidence:** 92.4%

**Top 3 Classes:**

- Bird-drop: 92.4%
- Dusty: 3.2%
- Physical-Damage: 2.9%



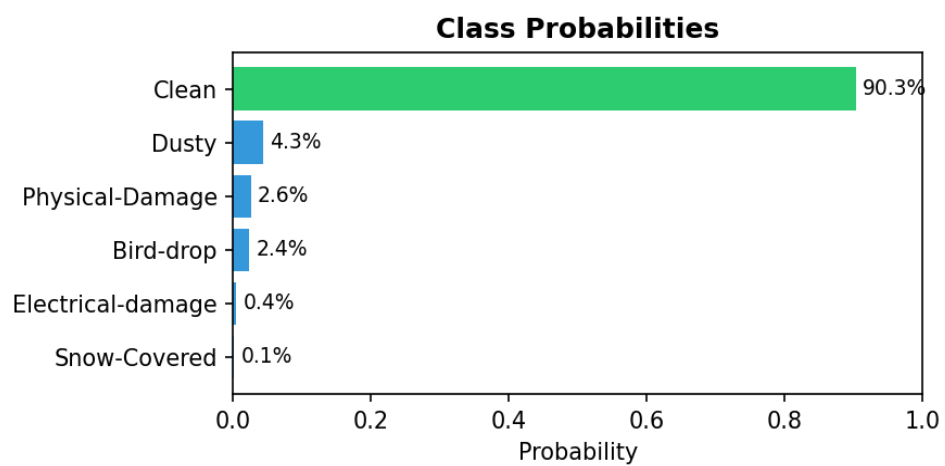
## Result 22: Clean\_Clean (122).jpg

**Predicted Class:** Clean

**Confidence:** 90.3%

**Top 3 Classes:**

- Clean: 90.3%
- Dusty: 4.3%
- Physical-Damage: 2.6%



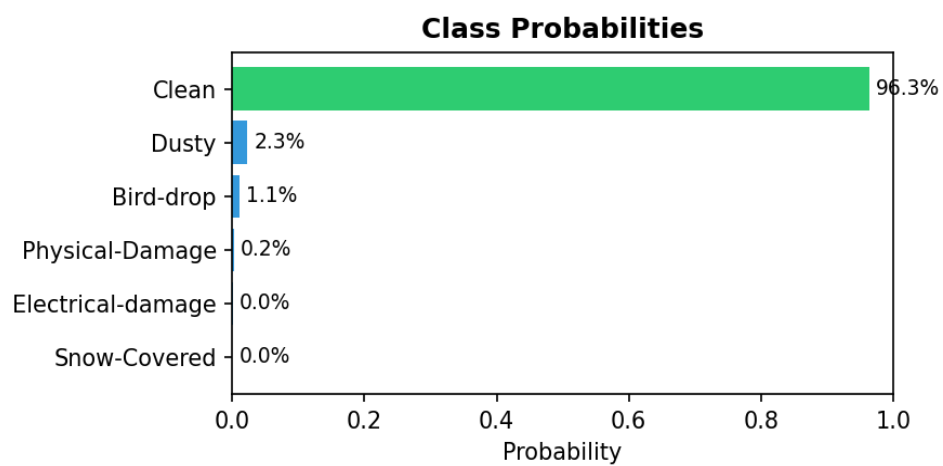
## Result 23: Clean\_Clean (47).jpg

**Predicted Class:** Clean

**Confidence:** 96.3%

**Top 3 Classes:**

- Clean: 96.3%
- Dusty: 2.3%
- Bird-drop: 1.1%





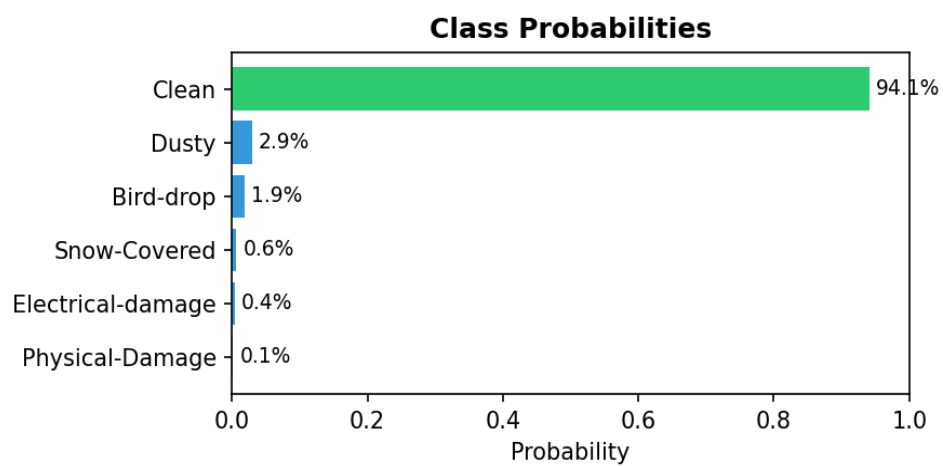
## Result 24: Clean\_Clean (56).jpg

**Predicted Class:** Clean

**Confidence:** 94.1%

**Top 3 Classes:**

- Clean: 94.1%
- Dusty: 2.9%
- Bird-drop: 1.9%



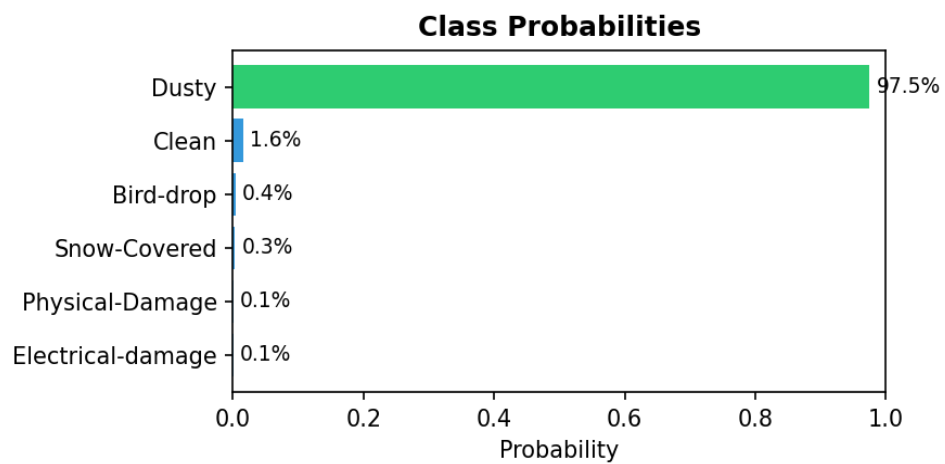
## Result 25: Dusty\_Dust (131).jpg

**Predicted Class:** Dusty

**Confidence:** 97.5%

**Top 3 Classes:**

- Dusty: 97.5%
- Clean: 1.6%
- Bird-drop: 0.4%



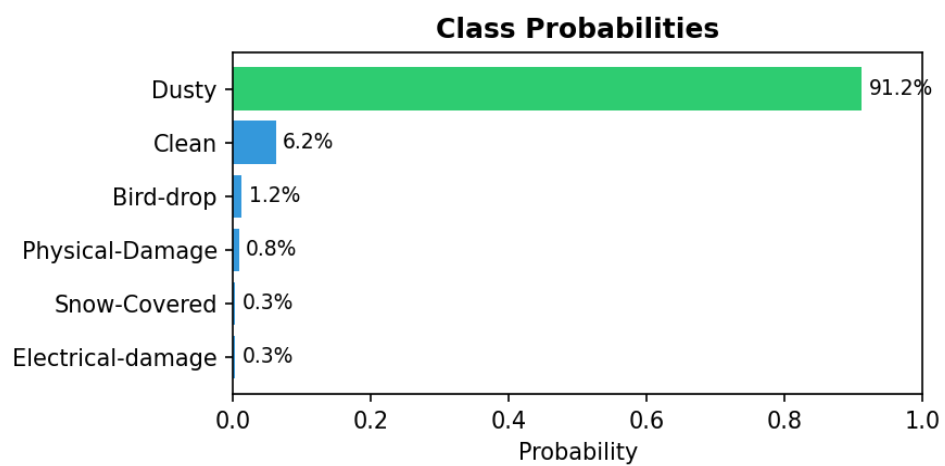
## Result 26: Dusty\_Dust (22).jpg

**Predicted Class:** Dusty

**Confidence:** 91.2%

**Top 3 Classes:**

- Dusty: 91.2%
- Clean: 6.2%
- Bird-drop: 1.2%



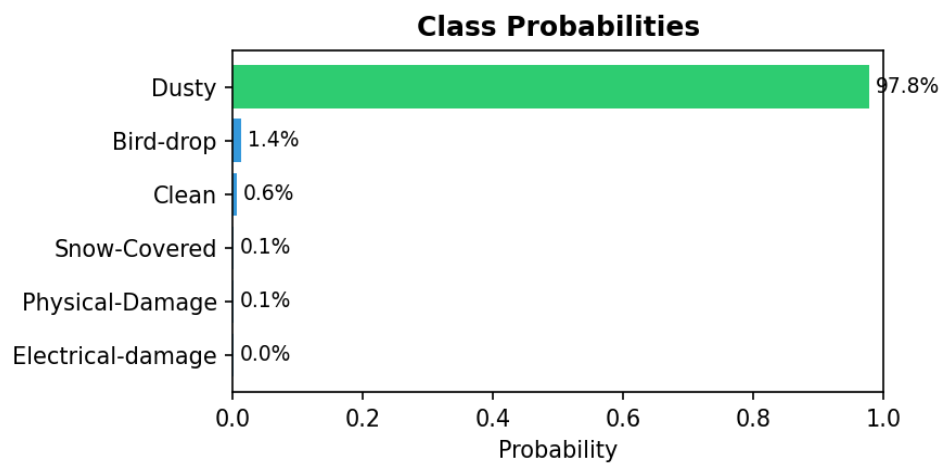
## Result 27: Dusty\_Dust (43).jpg

**Predicted Class:** Dusty

**Confidence:** 97.8%

**Top 3 Classes:**

- Dusty: 97.8%
- Bird-drop: 1.4%
- Clean: 0.6%



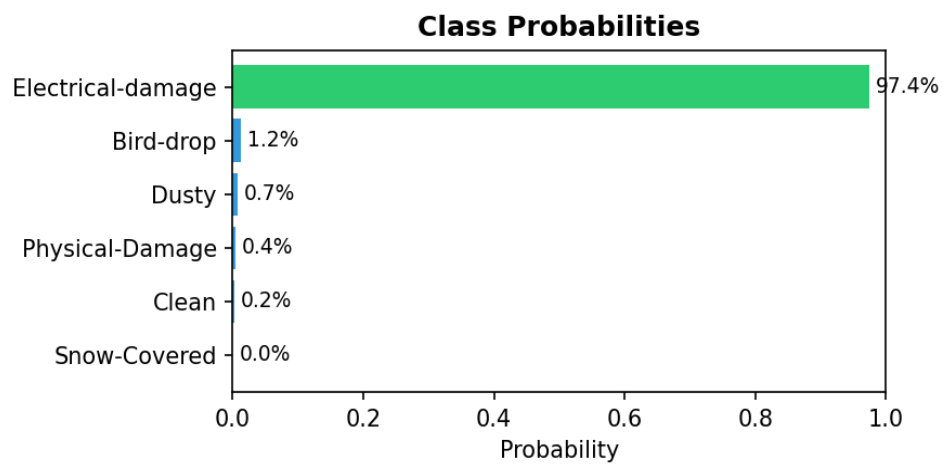
## Result 28: Electrical-damage\_Electrical (107).jpg

**Predicted Class:** Electrical-damage

**Confidence:** 97.4%

**Top 3 Classes:**

- Electrical-damage: 97.4%
- Bird-drop: 1.2%
- Dusty: 0.7%



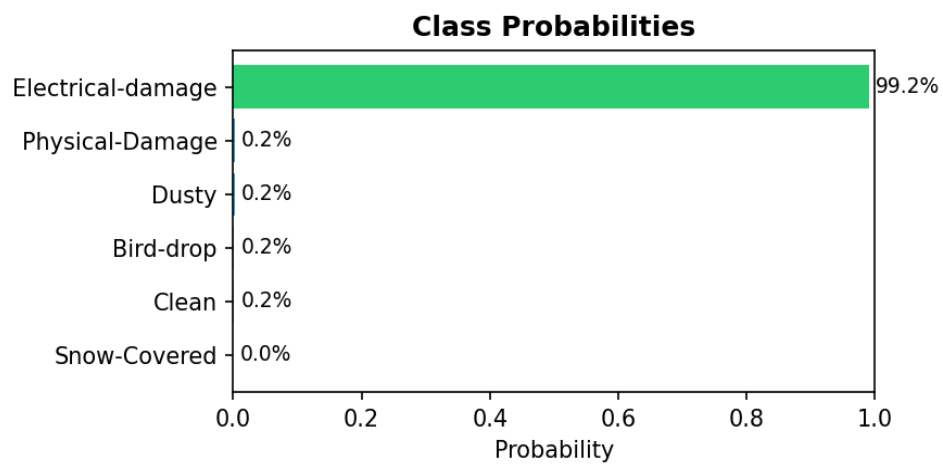
## Result 29: Electrical-damage\_Electrical (72).jpg

**Predicted Class:** Electrical-damage

**Confidence:** 99.2%

**Top 3 Classes:**

- Electrical-damage: 99.2%
- Physical-Damage: 0.2%
- Dusty: 0.2%



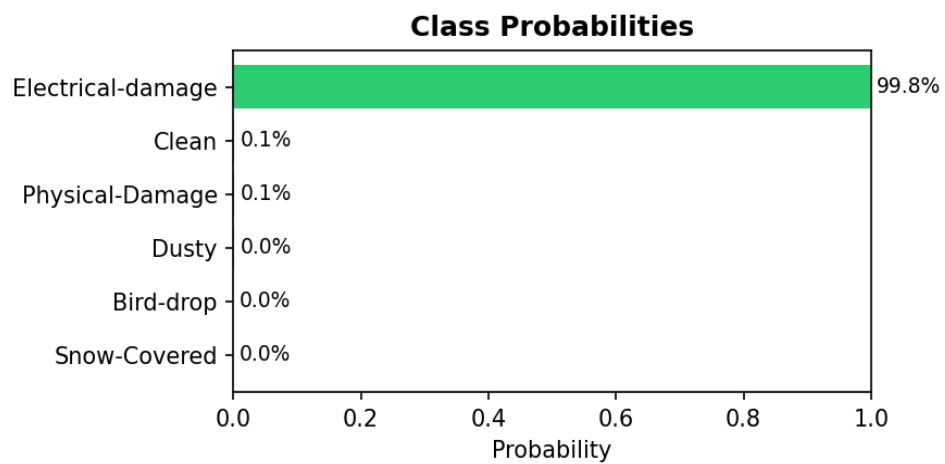
## Result 30: Electrical-damage\_Electrical (78).jpg

**Predicted Class:** Electrical-damage

**Confidence:** 99.8%

**Top 3 Classes:**

- Electrical-damage: 99.8%
- Clean: 0.1%
- Physical-Damage: 0.1%



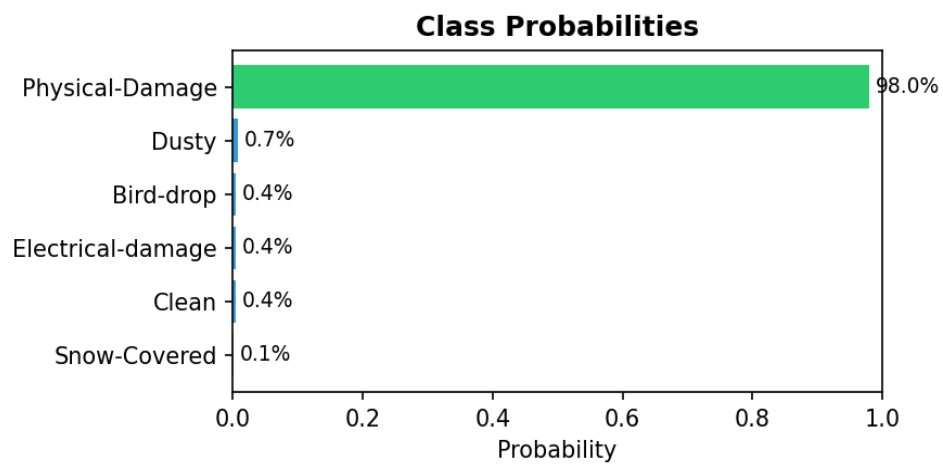
## Result 31: Physical-Damage\_Physical (148).jpg

**Predicted Class:** Physical-Damage

**Confidence:** 98.0%

**Top 3 Classes:**

- Physical-Damage: 98.0%
- Dusty: 0.7%
- Bird-drop: 0.4%





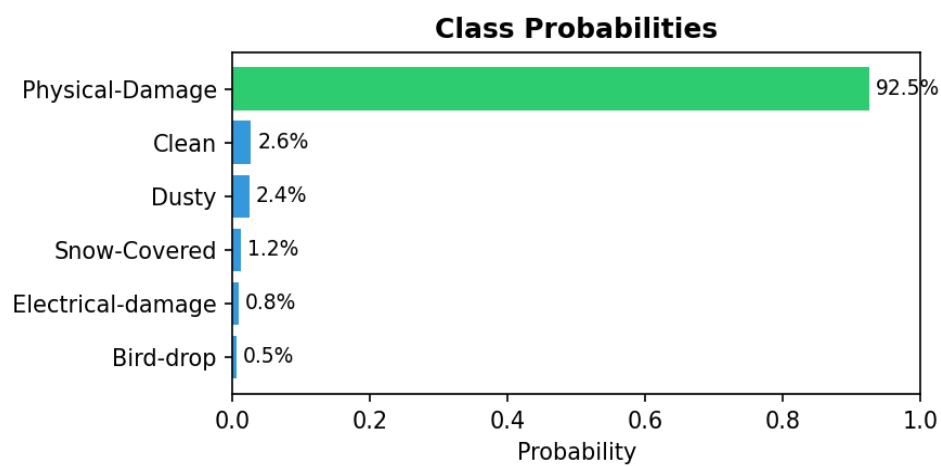
## Result 32: Physical-Damage\_Physical (38).jpg

**Predicted Class:** Physical-Damage

**Confidence:** 92.5%

**Top 3 Classes:**

- Physical-Damage: 92.5%
- Clean: 2.6%
- Dusty: 2.4%



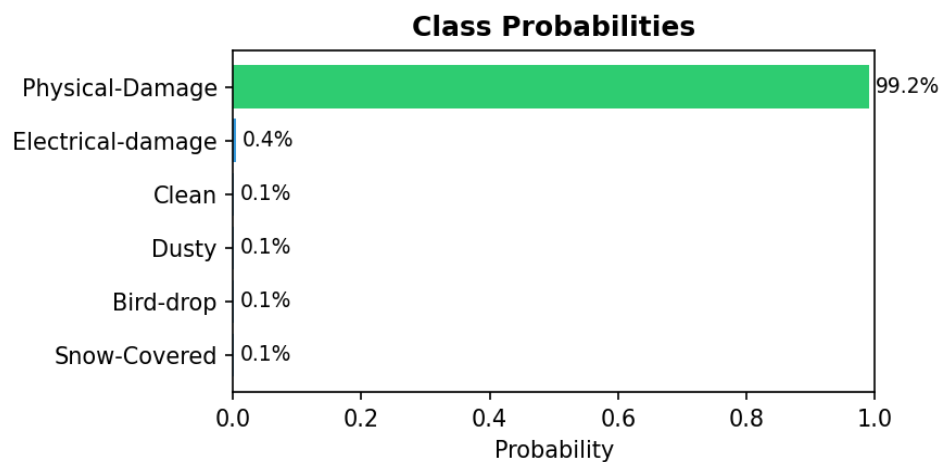
## Result 33: Physical-Damage\_Physical (54).jpg

**Predicted Class:** Physical-Damage

**Confidence:** 99.2%

**Top 3 Classes:**

- Physical-Damage: 99.2%
- Electrical-damage: 0.4%
- Clean: 0.1%



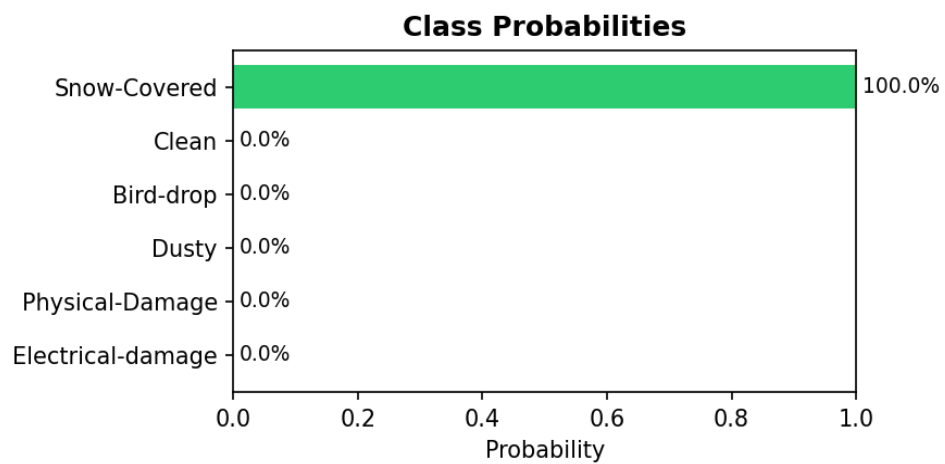
## Result 34: Snow-Covered\_Snow (149).jpg

**Predicted Class:** Snow-Covered

**Confidence:** 100.0%

**Top 3 Classes:**

- Snow-Covered: 100.0%
- Clean: 0.0%
- Bird-drop: 0.0%



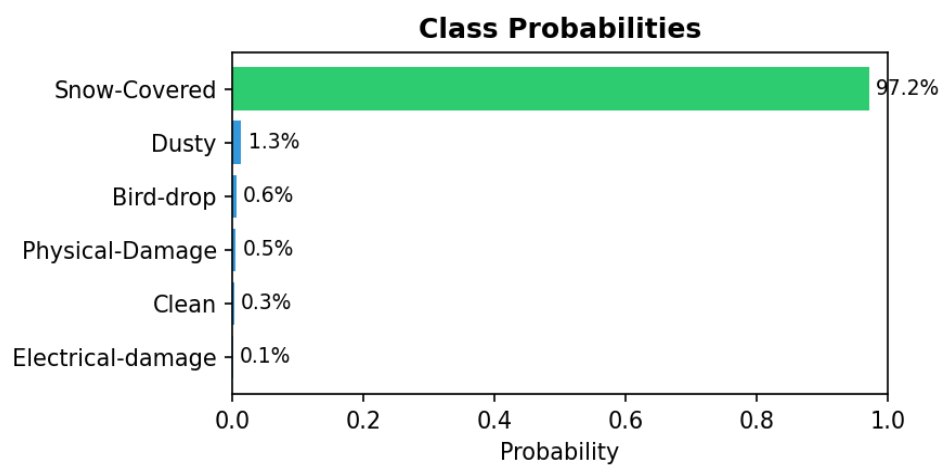
## Result 35: Snow-Covered\_Snow (154).jpg

**Predicted Class:** Snow-Covered

**Confidence:** 97.2%

**Top 3 Classes:**

- Snow-Covered: 97.2%
- Dusty: 1.3%
- Bird-drop: 0.6%



## Result 36: Snow-Covered\_Snow (173).jpg

**Predicted Class:** Snow-Covered

**Confidence:** 99.7%

**Top 3 Classes:**

- Snow-Covered: 99.7%
- Clean: 0.2%
- Bird-drop: 0.1%

