

Based on our investigation and experience, we have identified the following impacts wind farms can have on WSR-88D data and forecast/warning operations:

- False or anomalously large radar-estimated precipitation amounts due to reflection from towers/turbines;
- False low radar-estimated precipitation amounts due to radar beam blockage;
- False echoes downrange from wind farms;
- Anomalously large reflectivity values due to reflection from towers/turbines;
- False storm identification due to reflection from towers/turbines;
- Incorrect velocity values due to turbine interference;
- Incorrect wind velocity profiles; and
- Potential blockage of low-level tornado/severe weather signatures due to blockage from towers/turbines.