Heavy Rainfall Forecast Problems

Extreme weather has an enormous impact on all facets of transportation. According to the Weather Information for Surface Transportation (WIST, 2005), there are:

1) Approximately 3.9 million miles of public roadways.
2) 122,000 miles of major railroad tracks.
3) Over 26,000 miles of commercially navigable waterways.
4) Nearly 5,300 public-use airports.
5) 28% of all highway crashes and 18% of all fatalities are directly or indirectly related to adverse weather conditions.
6) Weather-related crashes have an estimated annual economic impact of nearly 42 billion USD.

Heavy rainfall is just one type of numerous weather events, but has the potential to cause a variety of socioeconomic problems:

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