FACTORS AFFECTING HERBICIDE ACTIVITY AND SELECTIVITY

- there are several environmental, chemical, and physiological factors that affect herbicide activity and selectivity.

- most important determinant of herbicide selectivity

- Assuming the correct spray mixture is being applied, the following factors are important:
  - A. Reaching the target
    - 1. Drift-
    - 2. Volatility-

- Both drift and volatility can result in reduced effectiveness, injury to non-target plants, and environmental contamination.
B. After reaching the target

1. Spray interception and retention:
   a. Leaf properties
   b. Other plant characteristics
   c. Characteristics of the spray solution

2. Environmental Factors
   a. Moisture/rainfall/humidity
   b. Temperature
c. Light

• Summary- in general, environmental conditions that result in optimum plant growth are best for herbicide application.