

NOZZLE TYPE SPRAY PATTERNS



FLAT FAN

- Good as a multi-purpose nozzle.
- Range of flat fan types, ex. for boom spraying, banding
- Droplet size depends on nozzle type

HOLLOW CONE

- Recommended for insecticides, fungicides, or foliar fertilizer
- When complete coverage of leaf surfaces is required
- Smaller droplets
- Drift potential is higher than full cone

FULL CONE

- Produces large droplets
- Recommended for spot applications
- Good for insecticides, fungicides and herbicides
- Ex. backpack sprayer nozzle

NOZZLE TYPES
XR: Extended Range
E: Even
DG: Drift Guard
TT: Twin Turbo
AI: Air Induction

How to Read a Nozzle



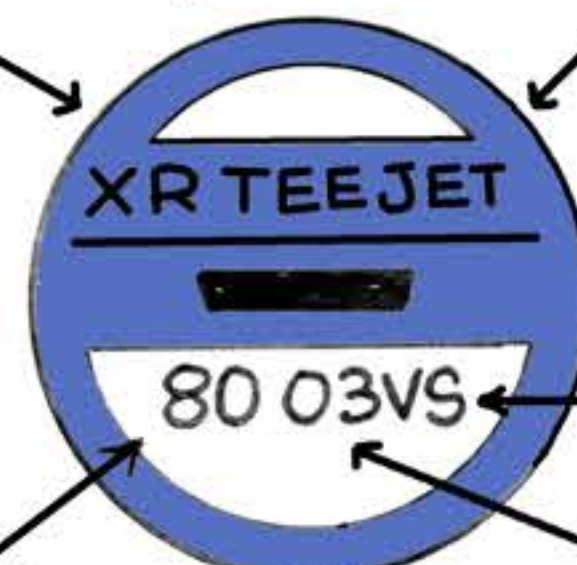
Mr. NozzleHead Says:

NOZZLE SELECTION IS IMPORTANT
BECAUSE:

It affects application volume



Nozzle Type Manufacturer



Spray Angle

Color =

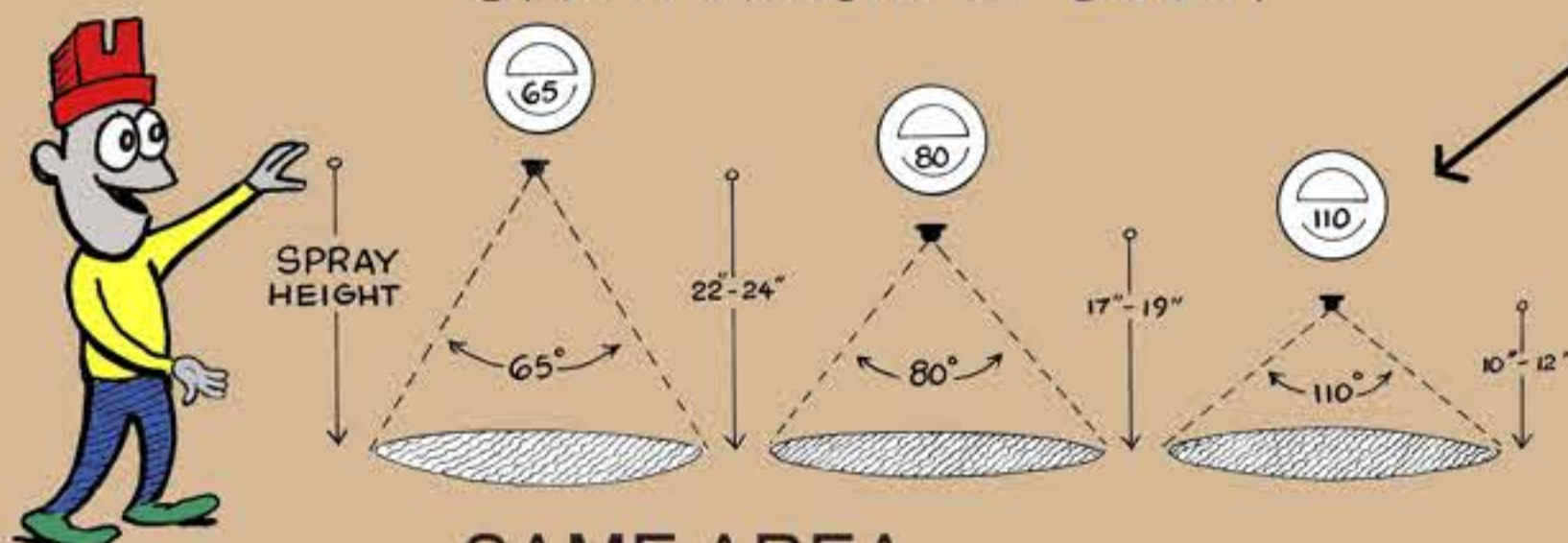
Material

Nozzle Volume

MATERIALS

- BR: Brass
- SS: Stainless Steel
- VK: Ceramic with color coding
- VS: Stainless steel with color coding

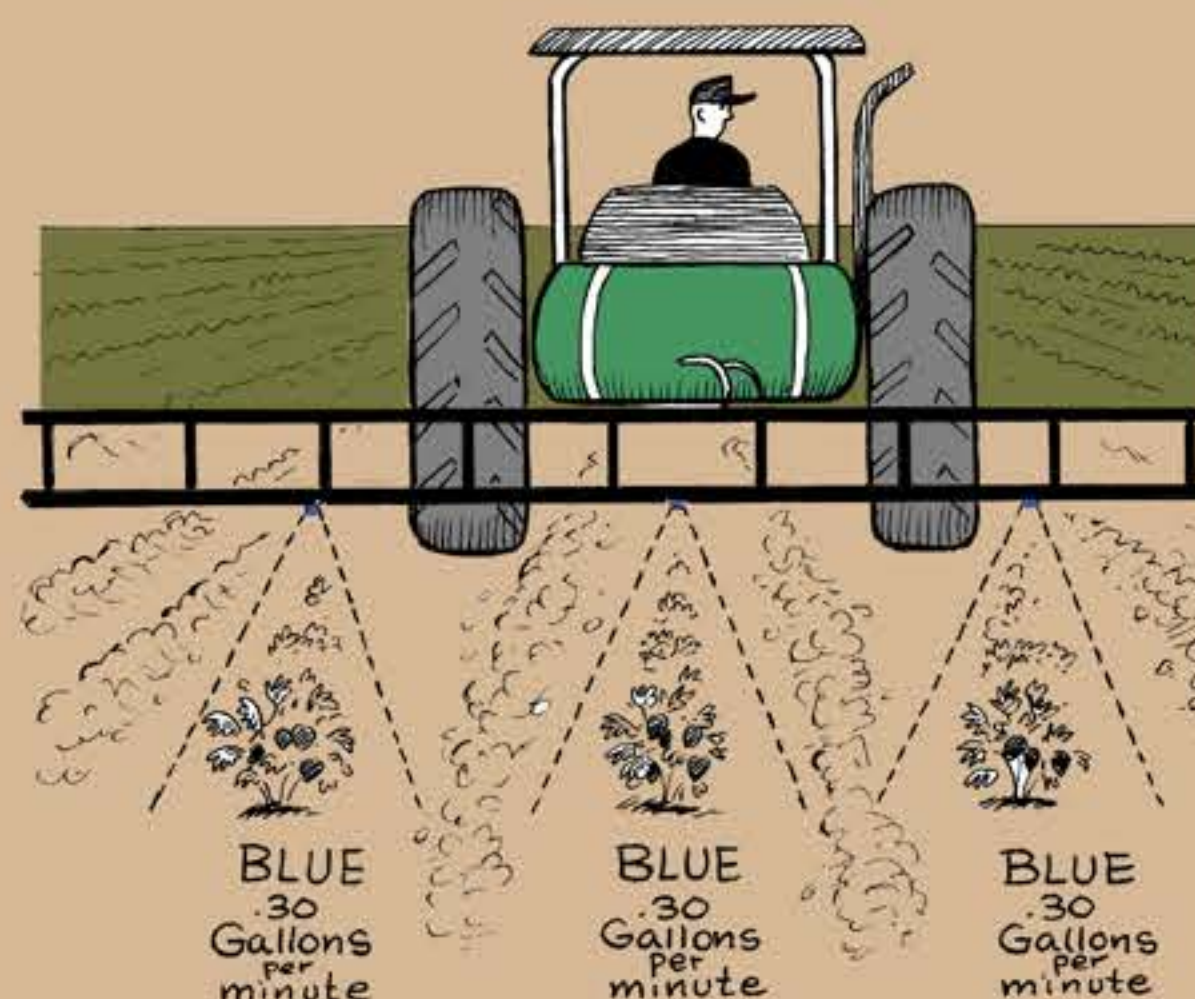
SPRAY HEIGHT OF BOOM



SAME AREA

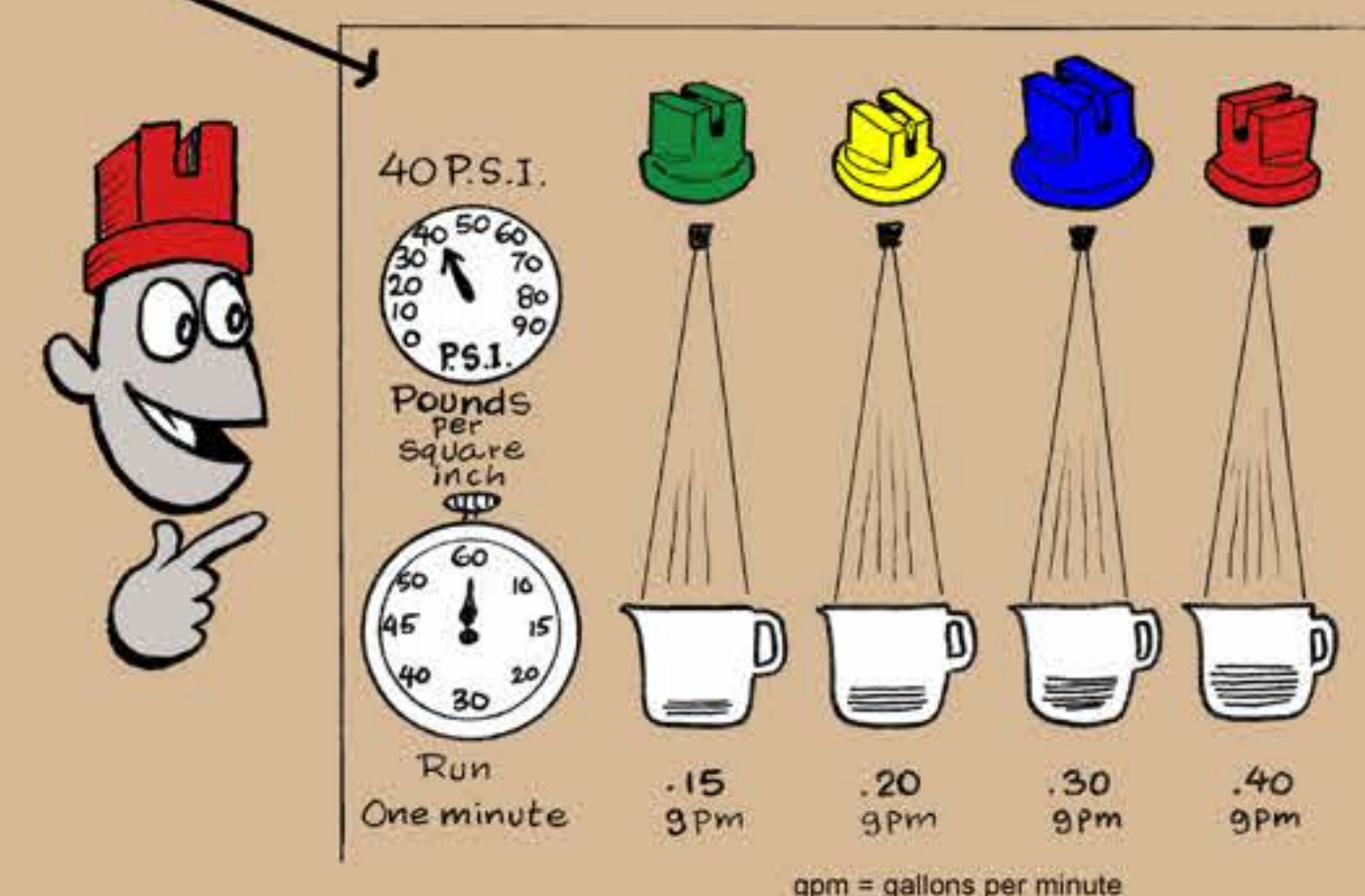
Spray Angle (degrees)	Spray Height (inches)			
	20" Spacing Overlap		30" Spacing Overlap	
	50%	100%	50%	100%
65	22-24	NR	NR	NR
80	17-19	26-28	26-28	37-39
110	10-12	15-17	14-18	25-27

NR: Not Recommended



SAME NOZZLE COLOR + SAME ANGLE = BEST PLAN!

NOZZLE COLOR DETERMINES VOLUME



NOZZLES THAT MAKE LARGER DROPLETS REDUCE DRIFT

Droplet Category	Symbol*	
Very Fine	VF	More drift
Fine	F	
Medium	M	
Coarse	C	
Very Coarse	VC	
Extremely Coarse	XC	
Ultra Coarse	UC	Less drift



Droplet size:

- Standard flat fan - Fine to Medium
- XR Extended Range - Fine to Medium
- Drift Guard - Medium to Coarse
- Turbo Jet - Medium to Very Coarse
- Air Induction - Very Coarse to Ultra Coarse

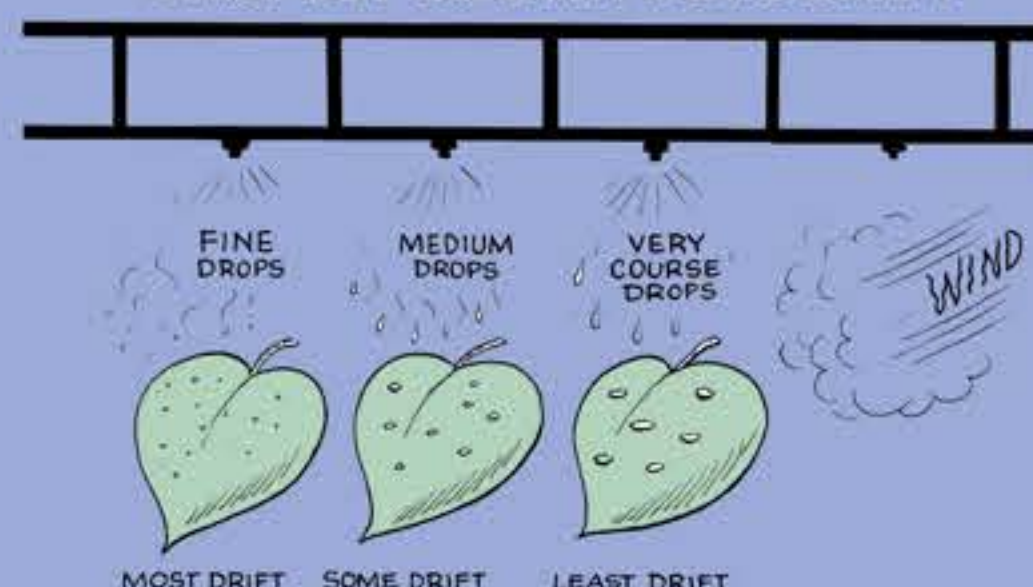
Same angle & color (volume) but different droplet size

Standard flat fan nozzles:
fine to medium droplets

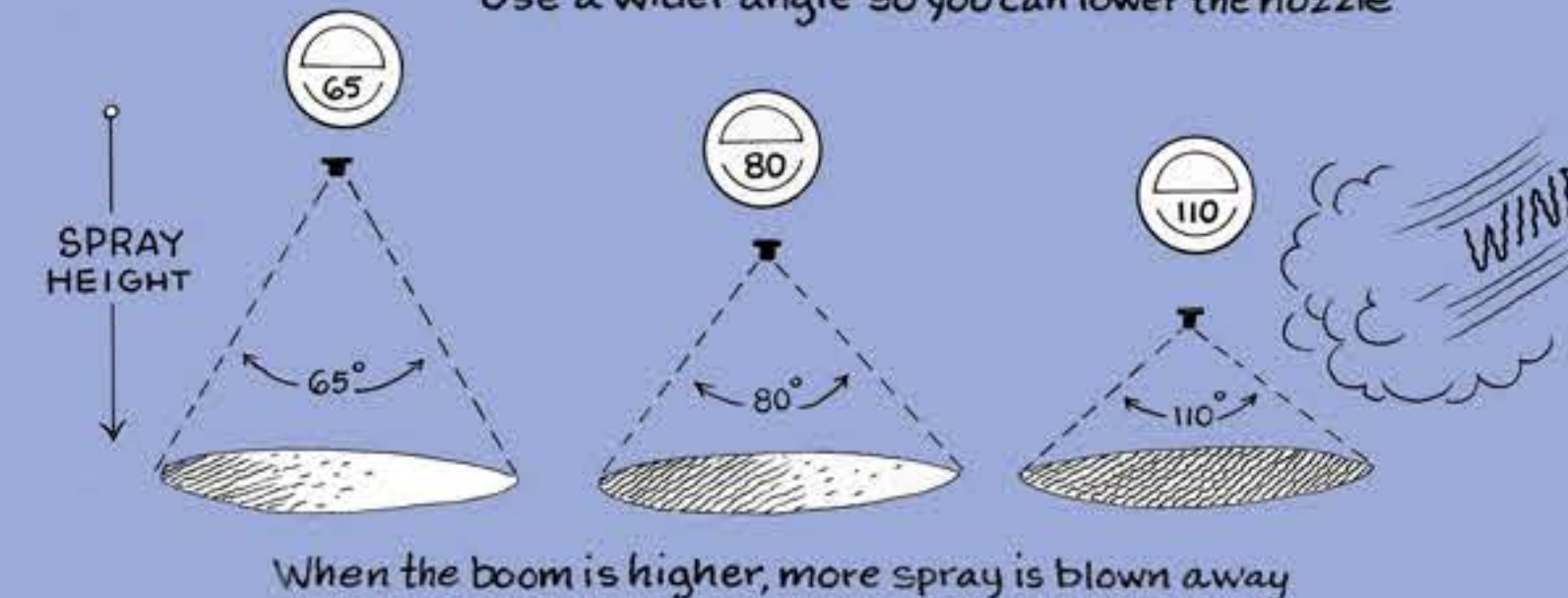
Air induction nozzles:
coarse to very coarse droplets

DRIFT

DROPLET SIZE AFFECTS DRIFT



REDUCE DRIFT:
Use a wider angle so you can lower the nozzle



When the boom is higher, more spray is blown away