# COMBO-JET SR Series Spray Tips

The SR series spray tip is a closed-chamber, pre-orifice drift reduction nozzle, emphasizing a first stage of drift reduction. The SR series balances excellent coverage spray with significant drift reduction upwards of 50%+.

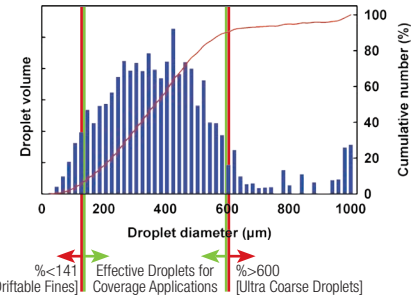
- **Longer Lasting Stainless Tips**
- **Less Plugged Nozzles**
- **Perfect for PWM Sprayers**
- **Consistent Pattern at Lower PSI**
- **Solid Mass Spray Droplets**
- **Acid Resistant Nozzles**

A DETAILED LOOK AT: **SR110-06**


Balance of Drift Control & Coverage

FINE COVERAGE — DRIFT REDUCTION

SR110-06 Droplet Distribution Example (40PSI)




SR series droplet distribution balances excellent fine spray coverage while reducing driftable fines.

## COMBO-JET® SR80° ASABE S572.1 Spray Quality Chart

| Pressure (PSI) | 25 | 30 | 35 | 40 | 45 | 50 | 60 | 65 | 70 | 80 |
|---|---|---|---|---|---|---|---|---|---|---|
| SR80-01 | M | M | F | F | F | F | F | F | F | F |
| SR80-015 | C | M | M | M | M | F | F | F | F | F |
| SR80-02 | C | M | M | M | M | M | F | F | F | F |
| SR80-025 | C | C | C | M | M | M | M | M | M | F |
| SR80-03 | C | C | C | C | C | C | M | M | M | M |
| SR80-04 | C | C | C | C | C | C | C | M | M | M |
| SR80-05 | VC | VC | C | C | C | C | C | C | C | C |
| SR80-06 | XC | VC | VC | VC | C | C | C | C | C | C |
| SR80-08 | UC | UC | UC | UC | XC | XC | XC | XC | XC | XC |
| SR80-10 | UC | UC | UC | UC | UC | UC | XC | XC | XC | XC |
| SR80-125 | UC | UC | UC | UC | UC | UC | UC | XC | XC | XC |
| SR80-15 | UC | UC | UC | UC | UC | UC | UC | UC | UC | UC |
| SR80-20 | | UC | UC | UC | UC | UC | UC | UC | UC | UC |
| SR80-25 | | UC | UC | UC | UC | UC | UC | UC | UC | UC |
| SR80-30 | | UC | UC | UC | UC | UC | UC | UC | UC | UC |

## COMBO-JET® SR110° ASABE S572.1 Spray Quality Chart

| Pressure (PSI) | 25 | 30 | 35 | 40 | 45 | 50 | 60 | 65 | 70 | 80 |
|---|---|---|---|---|---|---|---|---|---|---|
| SR110-015 | M | F | F | F | F | F | F | F | F | F |
| SR110-02 | M | M | F | F | F | F | F | F | F | F |
| SR110-025 | M | M | M | M | M | F | F | F | F | F |
| SR110-03 | C | C | C | C | M | M | M | M | M | F |
| SR110-04 | C | C | C | C | C | M | M | M | M | M |
| SR110-05 | C | C | C | C | C | C | C | M | M | M |
| SR110-06 | VC | VC | C | C | C | C | C | C | C | M |
| SR110-08 | UC | XC | XC | XC | XC | VC | C | C | C | C |
| SR110-10 | UC | XC | XC | XC | XC | XC | VC | C | C | C |
| SR110-125 | UC | UC | XC | XC | XC | XC | XC | VC | C | C |
| SR110-15 | UC | UC | UC | UC | XC | XC | XC | XC | XC | XC |
| SR110-20 | | UC | UC | XC | XC | XC | XC | XC | XC | XC |
| SR110-25 | | UC | UC | XC | XC | XC | XC | XC | XC | XC |

### COMBO-JET® SR Series Specifications

Approved for PWM Spray Systems
Compatible with all PWM Spray systems/Hz.

Operating Pressure
25-100PSI

Flat Fan Nozzle Type
Closed-Chamber, Pre-Orifice Drift Reduction

Nozzle Materials
Spray Tip: Stainless Steel
O-ring: FKM, 13mm x 3mm #40260-00 (viton avail.)
Cap: Glass-reinforced Polypropylene

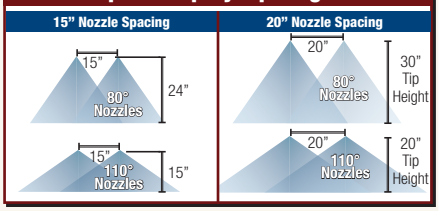
### ASABE Spray Classification

*(ASABE S572.1 Standard)*
Spray quality is categorized based on Dv0.1 and VMD droplet sizes. Objective 3rd party testing data, from spray spectrum recording equipment (without wind tunnel use), has been used to classify spray quality for this chart. Chart shown includes spray quality at tested data points as well as extrapolated data points.

- Fine (F)
- Medium (M)
- Coarse (C)
- Very Coarse (VC)
- Extremely Coarse (XC)
- Ultra Coarse (UC)

Tips sized up to 110-06 verified on Phase Doppler Particle Analyzer (PDPA); tips sized over 110-06 verified on Malvern.

### Optimal Spray Tip Height




### LERAP Ratings for SR Series
*As of January 2021*

| | ★★★ 75% 1.0-1.5BAR | ★★ 50% 1.6-3.0BAR |
|---|---|---|
| SR110-05 | | |

**For the updated list of nozzles, visit www.wilger.net/LERAP**

More information on LERAP certification, process, and the most up to date listing of approved nozzles and their ratings, is available from the Health and Safety Executive (HSE), also available online @ **https://secure.pesticides.gov.uk/SprayEquipment**

### COMBO-JET® SR Pre-orifices - by nozzle size [Replacement Only]

| -01 | -015 | -02 | -025 | -03 | -04 | -05 | -06 | -08 | -10 | -125 | -15 | -20 | -25 | -30 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 40285-01 | 40285-015 | 40285-01 | 40285-025 | 40285-03 | 40285-04 | 40285-05 | 40285-06 | 40285-08 | 40285-10 | 40285-125 | 40285-15 | 40285-20 | 40285-25 | 40285-30 |

# COMBO-JET 110° Spray Tips - Standard Sprayer Systems

**Disclaimer:** These charts are published for comparative purposes to demonstrate the differences in the series of Combo-Jet® spray tips. Data used to populate this chart is extrapolated from third party testing data from a controlled conditions test with water as the testing solution. Actual spray applications with active chemical ingredients may change the spray dynamics and spray tip performance specifications. Wilger is not liable for any misuse or misrepresentation of this information, leading to (but not limited to) incorrect spray application, crop damage, or any other harm. (Not limited to human, livestock or environmental). Always verify these charts with the most recent charts found on the www.wilger.net, and ALWAYS follow chemical label nozzle requirements.

**ASABE Spray Classification** *(ASABE S572.1 Standard)*
Spray quality is categorized based on Dv0.1 and VMD droplet sizes.
Objective testing data (by 3rd party), from spray spectrum recording equipment (without wind tunnel use), has been used to classify spray quality for this chart. Extra data (e.g. VMD, etc.) can vary between testing equipment and method, and is provided as an educational resource only.
Tips sized up to 110-06 verified on Phase Doppler Particle Analyzer (PDPA); tips sized over 110-06 verified on Malvern.

- Fine (F)
- Medium (M)
- Coarse (C)
- Very Coarse (VC)
- Extremely Coarse (XC)
- Ultra Coarse (UC)

**VMD** *(Volume Median Diameter)*
The median droplet (in µ) for a sprayed volume. Half of the volume is made of droplets smaller, with half made up of droplets larger.

**% <141µ** *(% Driftable Fines)*
Percentage of volume which is likely to drift. As wind & boom height increase, observed spray drift will increase substantially.

**% <600µ** *(% of Small Droplets)*
% of volume which is made up of 'small' droplets, useful for coverage. As % of useful droplets lowers, overall coverage is reduced.

| Nozzle Angle & Sizes | Flow Rate USGPM | Boom Pressure PSI | Application Rate in US Gallons / Acre on 20" Nozzle Spacing @ Sprayer Speed - Miles / Hour | Spray Classification, VMD (Droplet Size in µ); %<141µ (Drift %); %<600µ (Small Droplets) | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ER110° Series | | | | SR110° Series | | | | MR110° Series | | | | DR110° Series | | | | UR Series | |
| | Flow | Boom | Application Speed (mph) @ | ER110-04 | (40281-04) | | | SR110-04 | (40287-04) | | | MR110-04 | (40291-04) | | | DR110-04 | (40286-04) | | | UR110-04 | |
| | us gpm | psi | 8GPA 10GPA 12.5GPA 15GPA 20GPA 25GPA 30GPA | Class | VMD | <141 | <600 | Class | VMD | <141 | <600 | Class | VMD | <141 | <600 | Class | VMD | <141 | <600 | Class | VMD | <141 | <600 | Class | VMD | <141 | <600 | #40292-04 | |
| 110° -04 Nozzles | 0.28 | 20 | 11 8 6.7 5.6 4.2 3.4 2.8 | M | 240 | 18% | 97% | | | | | | | | | | | | | | | | | | | |
| | 0.32 | 25 | 13 9 7.5 6.3 4.7 3.8 3.1 | M | 232 | 20% | 97% | C | 330 | 9% | 93% | | | | | | | | | | | | | | | |
| | 0.35 | 30 | 14 10 8 6.9 5.1 4.1 3.4 | M | 225 | 22% | 97% | C | 314 | 11% | 94% | VC | 416 | 5% | 84% | XC | 510 | 3% | 69% | | | | | | | |
| | 0.37 | 35 | 15 11 9 7.4 5.6 4.4 3.7 | M | 220 | 23% | 97% | C | 300 | 12% | 95% | VC | 395 | 6% | 87% | XC | 488 | 4% | 73% | UC | 621 | | | | | |
| | 0.40 | 40 | 16 12 10 7.9 5.9 4.8 4.0 | F | 215 | 24% | 96% | C | 288 | 14% | 95% | C | 377 | 7% | 89% | VC | 469 | 4% | 76% | UC | 601 | | | | | |
| | 0.42 | 45 | 17 13 10 8 6.3 5.0 4.2 | F | 210 | 25% | 96% | C | 278 | 15% | 96% | C | 361 | 8% | 91% | VC | 453 | 5% | 78% | UC | 583 | | | | | |
| | 0.45 | 50 | 18 13 11 9 6.6 5.3 4.4 | F | 206 | 26% | 96% | M | 269 | 16% | 96% | C | 346 | 8% | 92% | VC | 438 | 5% | 80% | UC | 567 | | | | | |
| | 0.49 | 60 | 19 15 12 10 7.3 5.8 4.8 | F | 199 | 28% | 96% | M | 253 | 17% | 96% | C | 321 | 9% | 94% | VC | 412 | 6% | 83% | UC | 539 | | | | | |
| | 0.51 | 65 | 20 15 12 10 8 6.1 5.0 | F | 196 | 29% | 96% | M | 246 | 18% | 97% | C | 310 | 10% | 94% | C | 401 | 6% | 84% | UC | 527 | | | | | |
| | 0.53 | 70 | 21 16 13 10 8 6.3 5.2 | F | 194 | 29% | 95% | M | 239 | 19% | 97% | C | 300 | 10% | 95% | C | 391 | 6% | 85% | UC | 516 | | | | | |
| | 0.57 | 80 | 22 17 13 11 8 6.7 5.6 | F | 189 | 30% | 95% | M | 228 | 20% | 97% | C | 282 | 11% | 96% | C | 372 | 7% | 87% | UC | 496 | | | | | |
| | Flow | Boom | Application Speed (mph) @ | ER110-05 | (40281-05) | | | SR110-05 | (40287-05) | | | MR110-05 | (40291-05) | | | DR110-05 | (40286-05) | | | UR110-05 | |
| | us gpm | psi | 10GPA 12.5GPA 15GPA 18GPA 20GPA 25GPA 30GPA | Class | VMD | <141 | <600 | Class | VMD | <141 | <600 | Class | VMD | <141 | <600 | Class | VMD | <141 | <600 | 40292-05 | |
| 110° -05 Nozzles | 0.35 | 20 | 11 8 7 5.8 5.3 4.2 3.5 | M | 248 | 18% | 95% | | | | | | | | | | | | | | | | | | | |
| | 0.40 | 25 | 12 9 8 6.5 5.9 4.7 3.9 | M | 237 | 20% | 95% | C | 377 | 7% | 89% | | | | | | | | | | | | | | | |
| | 0.43 | 30 | 13 10 9 7 6.4 5.1 4.3 | M | 228 | 22% | 95% | C | 355 | 8% | 91% | XC | 486 | 3% | 72% | XC | 530 | 2% | 63% | | | | | | | |
| | 0.47 | 35 | 14 11 9 8 6.9 5.6 4.6 | M | 220 | 24% | 95% | C | 338 | 10% | 93% | XC | 464 | 4% | 75% | XC | 516 | 2% | 66% | UC | 638 | | | | | |
| | 0.50 | 40 | 15 12 10 8 7.4 5.9 5.0 | F | 214 | 26% | 95% | C | 322 | 11% | 93% | VC | 445 | 5% | 78% | XC | 503 | 3% | 68% | UC | 621 | | | | | |
| | 0.53 | 45 | 16 13 11 9 8 6.3 5.3 | F | 208 | 27% | 95% | C | 309 | 12% | 94% | VC | 428 | 5% | 80% | XC | 492 | 3% | 70% | UC | 605 | | | | | |
| | 0.56 | 50 | 17 13 11 9 8 6.6 5.5 | F | 203 | 28% | 95% | C | 296 | 13% | 95% | VC | 412 | 6% | 82% | XC | 482 | 3% | 72% | UC | 592 | | | | | |
| | 0.61 | 60 | 18 15 12 10 9 7 6.1 | F | 194 | 30% | 95% | C | 275 | 15% | 96% | C | 386 | 7% | 85% | XC | 465 | 3% | 74% | UC | 570 | | | | | |
| | 0.64 | 65 | 19 15 13 11 10 8 6.3 | F | 190 | 31% | 95% | M | 266 | 16% | 96% | C | 374 | 7% | 86% | XC | 458 | 4% | 75% | UC | 560 | | | | | |
| | 0.66 | 70 | 20 16 13 11 10 8 6.5 | F | 187 | 32% | 95% | M | 257 | 16% | 96% | C | 364 | 7% | 87% | VC | 451 | 4% | 76% | UC | 551 | | | | | |
| | 0.71 | 80 | 21 17 14 12 11 8 7 | F | 180 | 34% | 95% | M | 242 | 17% | 97% | C | 344 | 8% | 88% | VC | 438 | 4% | 78% | UC | 536 | | | | | |
| | Flow | Boom | Application Speed (mph) @ | ER110-06 | (40281-06) | | | SR110-06 | (40287-06) | | | MR110-06 | (40291-06) | | | DR110-06 | (40286-06) | | | UR110-06 | |
| | us gpm | psi | 10GPA 12.5GPA 15GPA 18GPA 20GPA 30GPA 35GPA | Class | VMD | <141 | <600 | Class | VMD | <141 | <600 | Class | VMD | <141 | <600 | Class | VMD | <141 | <600 | 40292-06 | |
| 110° -06 Nozzles | 0.42 | 20 | 13 10 8 7 6.3 4.2 3.6 | C | 282 | 14% | 94% | | | | | | | | | | | | | | | | | | | |
| | 0.47 | 25 | 14 11 9 8 7.0 4.7 4.0 | M | 270 | 16% | 94% | VC | 444 | 4% | 80% | | | | | | | | | | | | | | | |
| | 0.52 | 30 | 15 12 10 9 8 5.1 4.4 | M | 261 | 18% | 94% | VC | 416 | 6% | 84% | XC | 507 | 3% | 68% | XC | 565 | 2% | 57% | | | | | | | |
| | 0.56 | 35 | 17 13 11 9 8 5.6 4.8 | M | 253 | 19% | 94% | C | 392 | 7% | 87% | XC | 490 | 4% | 71% | XC | 546 | 2% | 61% | UC | 652 | | | | | |
| | 0.60 | 40 | 18 14 12 10 9 6 5.1 | M | 246 | 20% | 94% | C | 371 | 8% | 89% | XC | 474 | 4% | 74% | XC | 529 | 2% | 64% | UC | 633 | | | | | |
| | 0.64 | 45 | 19 15 13 11 10 6 5.4 | M | 240 | 21% | 95% | C | 353 | 9% | 90% | VC | 461 | 4% | 76% | XC | 514 | 3% | 66% | UC | 617 | | | | | |
| | 0.67 | 50 | 20 16 13 11 10 7 6 | M | 235 | 22% | 95% | C | 337 | 10% | 92% | VC | 448 | 4% | 78% | XC | 501 | 3% | 68% | UC | 603 | | | | | |
| | 0.73 | 60 | 22 17 15 12 11 7 6 | M | 225 | 24% | 95% | C | 308 | 12% | 93% | VC | 427 | 5% | 81% | XC | 478 | 3% | 71% | UC | 580 | | | | | |
| | 0.76 | 65 | 23 18 15 13 11 8 7 | M | 221 | 25% | 95% | C | 296 | 13% | 94% | VC | 418 | 5% | 82% | XC | 468 | 3% | 72% | UC | 570 | | | | | |
| | 0.79 | 70 | 24 19 16 13 12 8 7 | F | 217 | 25% | 95% | C | 284 | 13% | 94% | VC | 409 | 5% | 83% | XC | 459 | 3% | 74% | UC | 560 | | | | | |
| | 0.85 | 80 | 25 20 17 14 13 8 7 | F | 211 | 27% | 95% | M | 264 | 14% | 95% | C | 394 | 6% | 85% | VC | 442 | 4% | 75% | UC | 544 | | | | | |
| | Flow | Boom | Application Speed (mph) @ | ER110-08 | (40281-08) | | | SR110-08 | (40287-08) | | | MR110-08 | (40291-08) | | | DR110-08 | (40286-08) | | | UR110-08 | |
| | us gpm | psi | 15GPA 18GPA 20GPA 25GPA 30GPA 35GPA 40GPA | Class | VMD | <141 | <600 | Class | VMD | <141 | <600 | Class | VMD | <141 | <600 | Class | VMD | <141 | <600 | 40292-08 | |
| 110° -08 Nozzles | 0.57 | 20 | 11 9 8 7 6 4.8 4.2 | C | 327 | 14% | 91% | | | | | | | | | | | | | | | | | | | |
| | 0.63 | 25 | 13 10 9 8 6 5 4.7 | C | 307 | 16% | 92% | UC | 481 | 5% | 61% | | | | | | | | | | | | | | | |
| | 0.69 | 30 | 14 11 10 8 7 6 5 | C | 290 | 17% | 93% | XC | 453 | 6% | 67% | UC | 531 | 4% | 53% | UC | 614 | 3% | 40% | | | | | | | |
| | 0.75 | 35 | 15 12 11 9 7 6 6 | M | 276 | 19% | 94% | XC | 429 | 7% | 71% | UC | 506 | 5% | 57% | UC | 590 | 3% | 44% | UC | 675 | | | | | |
| | 0.80 | 40 | 16 13 12 10 8 7 6 | M | 264 | 20% | 95% | XC | 408 | 7% | 74% | UC | 483 | 5% | 61% | UC | 569 | 4% | 47% | UC | 651 | | | | | |
| | 0.85 | 45 | 17 14 13 10 8 7 6 | M | 254 | 21% | 95% | XC | 390 | 8% | 77% | XC | 464 | 6% | 64% | UC | 551 | 4% | 49% | UC | 632 | | | | | |
| | 0.89 | 50 | 18 15 13 11 9 8 7 | M | 244 | 22% | 95% | VC | 374 | 9% | 79% | XC | 446 | 6% | 67% | UC | 534 | 4% | 51% | UC | 614 | | | | | |
| | 0.98 | 60 | 19 16 15 12 10 8 7 | F | 228 | 23% | 96% | C | 346 | 10% | 82% | XC | 416 | 7% | 70% | UC | 506 | 4% | 55% | UC | 585 | | | | | |
| | 1.02 | 65 | 20 17 15 12 10 9 8 | F | 221 | 24% | 96% | C | 334 | 10% | 83% | XC | 403 | 7% | 72% | UC | 493 | 5% | 56% | UC | 573 | | | | | |
| | 1.06 | 70 | 21 17 16 13 10 9 8 | F | 214 | 25% | 97% | C | 322 | 11% | 84% | XC | 391 | 7% | 73% | UC | 482 | 5% | 57% | UC | 562 | | | | | |
| | 1.13 | 80 | 22 19 17 13 11 10 8 | F | 202 | 26% | 97% | C | 302 | 11% | 86% | VC | 369 | 8% | 76% | XC | 461 | 5% | 60% | UC | 543 | | | | | |
| | Flow | Boom | Application Speed (mph) @ | ER110-10 | (40281-10) | | | SR110-10 | (40287-10) | | | MR110-10 | (40291-10) | | | DR110-10 | (40286-10) | | | UR110-10 | |
| | us gpm | psi | 15GPA 18GPA 20GPA 25GPA 30GPA 40GPA 50GPA | Class | VMD | <141 | <600 | Class | VMD | <141 | <600 | Class | VMD | <141 | <600 | Class | VMD | <141 | <600 | 40292-10 | |
| 110° -10 Nozzles | 0.71 | 20 | 14 12 11 8 7 5 4 | VC | 362 | 10% | 88% | | | | | | | | | | | | | | | | | | | |
| | 0.79 | 25 | 16 13 12 9 8 6 5 | C | 341 | 12% | 89% | UC | 500 | 5% | 56% | | | | | | | | | | | | | | | |
| | 0.87 | 30 | 17 14 13 10 9 6 5 | C | 325 | 14% | 90% | XC | 470 | 6% | 62% | UC | 523 | 4% | 53% | UC | 609 | 5% | 59% | | | | | | | |
| | 0.94 | 35 | 19 15 14 11 9 7 6 | C | 310 | 15% | 91% | XC | 445 | 7% | 67% | UC | 499 | 5% | 56% | UC | 596 | 5% | 57% | UC | 682 | | | | | |
| | 1.00 | 40 | 20 17 15 12 10 7 6 | C | 298 | 17% | 92% | XC | 424 | 7% | 70% | XC | 478 | 5% | 59% | UC | 584 | 5% | 55% | UC | 658 | | | | | |
| | 1.06 | 45 | 21 18 16 13 11 8 6 | C | 287 | 18% | 92% | XC | 405 | 8% | 73% | XC | 459 | 5% | 62% | UC | 574 | 5% | 53% | UC | 637 | | | | | |
| | 1.12 | 50 | 22 18 17 13 11 8 7 | M | 277 | 19% | 93% | XC | 388 | 8% | 75% | XC | 442 | 6% | 64% | UC | 565 | 6% | 51% | UC | 620 | | | | | |
| | 1.22 | 60 | 24 20 18 15 12 9 7 | M | 260 | 21% | 94% | VC | 358 | 9% | 79% | XC | 413 | 6% | 67% | UC | 550 | 6% | 48% | UC | 590 | | | | | |
| | 1.27 | 65 | 25 21 19 15 13 10 8 | M | 253 | 21% | 94% | C | 345 | 10% | 80% | XC | 400 | 6% | 69% | UC | 543 | 6% | 47% | UC | 577 | | | | | |
| | 1.32 | 70 | 26 22 20 16 13 10 8 | M | 246 | 22% | 94% | C | 333 | 10% | 81% | XC | 388 | 7% | 70% | UC | 537 | 6% | 46% | UC | 566 | | | | | |
| | 1.41 | 80 | 28 23 21 17 14 11 8 | F | 234 | 23% | 94% | C | 311 | 11% | 83% | VC | 367 | 7% | 72% | UC | 525 | 6% | 43% | UC | 546 | | | | | |
| | Flow | Boom | Application Speed (mph) @ | ER110-125 | (40281-125) | | | SR110-125 | (40287-125) | | | MR110-125 | (40291-125) | | | DR110-125 | (40286-125) | | | | |
| | us gpm | psi | 20GPA 25GPA 30GPA 35GPA 40GPA 45GPA 50GPA | Class | VMD | <141 | <600 | Class | VMD | <141 | <600 | Class | VMD | <141 | <600 | Class | VMD | <141 | <600 | | |
| 110° -125 Nozzles | 0.99 | 25 | 15 12 10 8 7 7 6 | XC | 421 | 9% | 70% | UC | 538 | 4% | 48% | | | | | | | | | | |
| | 1.08 | 30 | 16 13 11 9 8 7 6 | XC | 400 | 10% | 74% | UC | 501 | 4% | 56% | UC | 647 | 4% | 34% | UC | 667 | 3% | 32% | | |
| | 1.17 | 35 | 17 14 12 10 9 8 7 | XC | 383 | 10% | 76% | XC | 471 | 5% | 62% | UC | 618 | 4% | 39% | UC | 647 | 3% | 35% | | |
| | 1.25 | 40 | 19 15 12 11 9 8 7 | VC | 369 | 11% | 79% | XC | 445 | 5% | 66% | UC | 593 | 4% | 43% | UC | 630 | 4% | 37% | | |
| | 1.33 | 45 | 20 16 13 11 10 9 8 | VC | 357 | 11% | 80% | XC | 423 | 6% | 70% | UC | 571 | 4% | 47% | UC | 616 | 4% | 39% | | |
| | 1.40 | 50 | 21 17 14 12 10 9 8 | C | 346 | 12% | 82% | XC | 403 | 6% | 72% | UC | 552 | 5% | 49% | UC | 603 | 4% | 40% | | |
| | 1.53 | 60 | 23 18 15 13 11 10 9 | C | 336 | 12% | 83% | XC | 386 | 7% | 74% | UC | 535 | 5% | 52% | UC | 592 | 4% | 42% | | |
| | 1.59 | 65 | 24 19 16 14 12 11 10 | C | 319 | 13% | 85% | VC | 355 | 7% | 78% | UC | 506 | 5% | 55% | UC | 572 | 5% | 44% | | |
| | 1.65 | 70 | 25 20 16 14 12 11 10 | C | 312 | 13% | 85% | C | 342 | 8% | 79% | UC | 493 | 5% | 57% | UC | 563 | 5% | 45% | | |
| | 1.77 | 80 | 26 21 18 15 13 12 11 | C | 305 | 14% | 86% | C | 329 | 8% | 80% | UC | 481 | 6% | 58% | UC | 555 | 5% | 46% | | |

## COMBO-JET 110° Spray Tips - PWM Spray Systems

Comprehensive rate & speed charts for any nozzle spacing/speed/rate is available on Tip Wizard. Try it today!

### 110 -04 Nozzles

| Flow us gpm | Boom psi | Tip psi | Application Speed (mph) @ 25-100% D.C. 4gpa | 5gpa | 7.5gpa | 10gpa | ER110-04 (40281-04) Class | VMD | <141 | <600 | SR110-04 (40287-04) Class | VMD | <141 | <600 | MR110-04 (40291-04) Class | VMD | <141 | <600 | DR110-04 (40286-04) Class | VMD | <141 | <600 | UR110-04 40292-04 Class | VMD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0.27 | 20 | 19 | 5-20 | 4-16 | 2.8-11 | 2-8.1 | M | 243 | 18% | 97% | | | | | | | | | | | | | | |
| 0.31 | 25 | 23 | 5.8-23 | 4.5-18 | 3-12 | 2.3-9.1 | M | 235 | 20% | 97% | C | 330 | 9% | 93% | | | | | | | | | | |
| 0.34 | 30 | 28 | 6.3-25 | 5-20 | 3.3-13 | 2.5-10 | M | 228 | 21% | 97% | C | 314 | 11% | 94% | VC | 425 | 4% | 83% | XC | 519 | 3% | 67% | | |
| 0.36 | 35 | 33 | 6.8-27 | 5.5-22 | 3.5-14 | 2.8-11 | M | 222 | 23% | 97% | C | 300 | 12% | 95% | VC | 404 | 5% | 86% | XC | 497 | 3% | 71% | UC | 621 |
| 0.39 | 40 | 37 | 7.3-29 | 5.8-23 | 3.8-15 | 3-12 | M | 217 | 24% | 97% | C | 288 | 14% | 95% | C | 386 | 6% | 88% | XC | 478 | 4% | 74% | UC | 601 |
| 0.41 | 45 | 42 | 7.5-30 | 6-24 | 4-16 | 3-12 | F | 213 | 25% | 96% | C | 278 | 15% | 96% | C | 370 | 7% | 90% | VC | 462 | 4% | 77% | UC | 583 |
| 0.43 | 50 | 47 | 8-32 | 6.5-26 | 4.3-17 | 3.3-13 | F | 209 | 26% | 96% | M | 269 | 16% | 96% | C | 355 | 8% | 91% | VC | 447 | 5% | 79% | UC | 567 |
| 0.47 | 60 | 56 | 8.8-35 | 7-28 | 4.8-19 | 3.5-14 | F | 202 | 27% | 96% | M | 253 | 17% | 96% | C | 330 | 9% | 93% | VC | 421 | 6% | 82% | UC | 539 |
| 0.49 | 65 | 61 | 9.3-37 | 7.3-29 | 5-20 | 3.8-15 | F | 199 | 28% | 96% | M | 246 | 18% | 97% | C | 319 | 9% | 94% | VC | 410 | 6% | 83% | UC | 527 |
| 0.51 | 70 | 66 | 9.5-38 | 7.5-30 | 5-20 | 3.8-15 | F | 196 | 29% | 96% | M | 239 | 19% | 97% | C | 309 | 10% | 95% | C | 400 | 6% | 84% | UC | 516 |
| 0.55 | 80 | 75 | 10-41 | 8.3-33 | 5.5-22 | 4-16 | F | 191 | 30% | 95% | M | 228 | 20% | 97% | C | 291 | 11% | 95% | C | 381 | 7% | 86% | UC | 496 |

### 110 -05 Nozzles

| Flow us gpm | Boom psi | Tip psi | Application Speed (mph) @ 25-100% D.C. 6gpa | 8gpa | 10gpa | 12gpa | ER110-05 (40281-05) Class | VMD | <141 | <600 | SR110-05 (40287-05) Class | VMD | <141 | <600 | MR110-05 (40291-05) Class | VMD | <141 | <600 | DR110-05 (40286-05) Class | VMD | <141 | <600 | UR110-05 40292-05 Class | VMD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0.34 | 20 | 18 | 4.3-17 | 3-12 | 2.5-10 | 2.1-8.3 | M | 253 | 17% | 95% | | | | | | | | | | | | | | |
| 0.38 | 25 | 23 | 4.8-19 | 3.5-14 | 2.8-11 | 2.3-9.3 | M | 242 | 19% | 95% | C | 377 | 7% | 89% | | | | | | | | | | |
| 0.41 | 30 | 27 | 5-20 | 3.8-15 | 3-12 | 2.5-10 | M | 233 | 21% | 95% | C | 355 | 8% | 91% | XC | 501 | 3% | 69% | XC | 539 | 2% | 61% | | |
| 0.45 | 35 | 32 | 5.5-22 | 4.3-17 | 3.3-13 | 2.8-11 | M | 225 | 23% | 95% | C | 338 | 10% | 93% | XC | 478 | 4% | 73% | XC | 525 | 2% | 64% | UC | 638 |
| 0.48 | 40 | 36 | 6-24 | 4.5-18 | 3.5-14 | 3-12 | M | 219 | 25% | 95% | C | 322 | 11% | 93% | VC | 459 | 4% | 76% | XC | 513 | 3% | 66% | UC | 621 |
| 0.50 | 45 | 41 | 6.3-25 | 4.8-19 | 3.8-15 | 3-12 | F | 213 | 26% | 95% | C | 309 | 12% | 94% | VC | 442 | 5% | 78% | XC | 502 | 3% | 68% | UC | 605 |
| 0.53 | 50 | 45 | 6.5-26 | 5-20 | 4-16 | 3.3-13 | F | 208 | 27% | 95% | C | 296 | 13% | 95% | VC | 427 | 5% | 80% | XC | 492 | 3% | 70% | UC | 592 |
| 0.58 | 60 | 54 | 7.3-29 | 5.5-22 | 4.3-17 | 3.5-14 | F | 199 | 29% | 95% | C | 275 | 15% | 96% | C | 400 | 6% | 83% | XC | 475 | 3% | 73% | UC | 570 |
| 0.61 | 65 | 59 | 7.5-30 | 5.8-23 | 4.5-18 | 3.8-15 | F | 195 | 30% | 95% | M | 266 | 16% | 96% | C | 389 | 6% | 84% | XC | 467 | 3% | 74% | UC | 560 |
| 0.63 | 70 | 63 | 7.8-31 | 5.8-23 | 4.8-19 | 4-16 | F | 191 | 31% | 95% | M | 257 | 16% | 96% | C | 378 | 7% | 85% | XC | 460 | 4% | 75% | UC | 551 |
| 0.67 | 80 | 72 | 8.3-33 | 6.3-25 | 5-20 | 4.3-17 | F | 185 | 32% | 95% | M | 242 | 17% | 97% | C | 359 | 7% | 87% | VC | 448 | 4% | 77% | UC | 536 |

### 110 -06 Nozzles

| Flow us gpm | Boom psi | Tip psi | Application Speed (mph) @ 25-100% D.C. 7.5gpa | 10gpa | 12gpa | 15gpa | ER110-06 (40281-06) Class | VMD | <141 | <600 | SR110-06 (40287-06) Class | VMD | <141 | <600 | MR110-06 (40291-06) Class | VMD | <141 | <600 | DR110-06 (40286-06) Class | VMD | <141 | <600 | UR110-06 40292-06 Class | VMD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0.44 | 25 | 22 | 4.5-18 | 3.3-13 | 2.8-11 | 2.2-8.8 | C | 278 | 15% | 94% | VC | 444 | 4% | 80% | XC | 545 | 2% | 58% | XC | 605 | 1% | 49% | UC | 701 |
| 0.48 | 30 | 26 | 4.8-19 | 3.5-14 | 3-12 | 2.4-9.6 | M | 268 | 16% | 94% | VC | 416 | 6% | 84% | XC | 524 | 3% | 64% | XC | 583 | 2% | 54% | UC | 674 |
| 0.52 | 35 | 30 | 5.3-21 | 4-16 | 3.3-13 | 2.5-10 | M | 260 | 18% | 94% | C | 392 | 7% | 87% | XC | 506 | 3% | 68% | XC | 563 | 2% | 58% | UC | 652 |
| 0.56 | 40 | 35 | 5.5-22 | 4.3-17 | 3.5-14 | 2.8-11 | M | 253 | 19% | 94% | C | 371 | 8% | 89% | XC | 490 | 3% | 71% | XC | 547 | 2% | 61% | UC | 633 |
| 0.59 | 45 | 39 | 6-24 | 4.5-18 | 3.8-15 | 3-12 | M | 247 | 20% | 94% | C | 353 | 9% | 90% | XC | 477 | 4% | 74% | XC | 532 | 2% | 63% | UC | 617 |
| 0.63 | 50 | 43 | 6.3-25 | 4.8-19 | 3.8-15 | 3-12 | M | 242 | 21% | 95% | C | 337 | 10% | 92% | XC | 465 | 4% | 76% | XC | 519 | 3% | 65% | UC | 603 |
| 0.69 | 60 | 52 | 6.8-27 | 5-20 | 4.3-17 | 3.5-14 | M | 233 | 23% | 95% | C | 308 | 12% | 93% | VC | 443 | 5% | 79% | XC | 496 | 3% | 69% | UC | 580 |
| 0.71 | 65 | 57 | 7-28 | 5.3-21 | 4.5-18 | 3.5-14 | M | 228 | 23% | 95% | C | 296 | 13% | 94% | VC | 434 | 5% | 80% | XC | 486 | 3% | 70% | UC | 570 |
| 0.74 | 70 | 61 | 7.3-29 | 5.5-22 | 4.5-18 | 3.8-15 | M | 225 | 24% | 95% | C | 284 | 13% | 94% | VC | 426 | 5% | 81% | XC | 476 | 3% | 71% | UC | 560 |
| 0.79 | 80 | 70 | 7.8-31 | 6-24 | 5-20 | 4-16 | F | 218 | 25% | 95% | M | 264 | 14% | 95% | VC | 410 | 5% | 83% | XC | 460 | 3% | 73% | UC | 544 |

### 110 -08 Nozzles

| Flow us gpm | Boom psi | Tip psi | Application Speed (mph) @ 25-100% D.C. 12gpa | 15gpa | 18gpa | 20gpa | ER110-08 (40281-08) Class | VMD | <141 | <600 | SR110-08 (40287-08) Class | VMD | <141 | <600 | MR110-08 (40291-08) Class | VMD | <141 | <600 | DR110-08 (40286-08) Class | VMD | <141 | <600 | UR110-08 40292-08 Class | VMD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0.44 | 25 | 22 | 4.5-18 | 3.3-13 | 2.8-11 | 2.2-8.8 | C | 328 | 14% | 90% | | | | | | | | | | | | | | |
| 0.48 | 30 | 26 | 4.8-19 | 3.5-14 | 3-12 | 2.4-9.6 | C | 312 | 15% | 92% | XC | 453 | 6% | 67% | | | | | | | | | | |
| 0.52 | 35 | 30 | 5.3-21 | 4-16 | 3.3-13 | 2.5-10 | C | 298 | 17% | 93% | XC | 429 | 7% | 71% | UC | 545 | 4% | 50% | UC | 627 | 3% | 38% | | |
| 0.56 | 40 | 35 | 5.5-22 | 4.3-17 | 3.5-14 | 2.8-11 | C | 286 | 18% | 93% | XC | 408 | 7% | 74% | UC | 522 | 4% | 54% | UC | 606 | 3% | 42% | UC | 651 |
| 0.59 | 45 | 39 | 6-24 | 4.5-18 | 3.8-15 | 3-12 | M | 275 | 19% | 94% | XC | 390 | 8% | 77% | UC | 503 | 5% | 58% | UC | 588 | 3% | 44% | UC | 632 |
| 0.63 | 50 | 43 | 6.3-25 | 4.8-19 | 3.8-15 | 3-12 | M | 266 | 20% | 95% | VC | 374 | 9% | 79% | UC | 486 | 5% | 61% | UC | 571 | 4% | 47% | UC | 614 |
| 0.69 | 60 | 52 | 6.8-27 | 5-20 | 4.3-17 | 3.5-14 | M | 249 | 21% | 95% | C | 346 | 10% | 82% | XC | 455 | 6% | 65% | UC | 543 | 4% | 50% | UC | 585 |
| 0.71 | 65 | 57 | 7-28 | 5.3-21 | 4.5-18 | 3.5-14 | M | 242 | 22% | 96% | C | 334 | 10% | 83% | XC | 442 | 6% | 67% | UC | 530 | 4% | 52% | UC | 573 |
| 0.74 | 70 | 61 | 7.3-29 | 5.5-22 | 4.5-18 | 3.8-15 | M | 235 | 23% | 96% | C | 322 | 11% | 84% | XC | 430 | 6% | 69% | UC | 519 | 4% | 53% | UC | 562 |
| 0.79 | 80 | 70 | 7.8-31 | 6-24 | 5-20 | 4-16 | F | 223 | 24% | 96% | C | 302 | 11% | 86% | XC | 408 | 7% | 71% | UC | 498 | 4% | 56% | UC | 543 |

### 110 -10 Nozzles

| Flow us gpm | Boom psi | Tip psi | Application Speed (mph) @ 25-100% D.C. 15gpa | 18gpa | 20gpa | 25gpa | ER110-10 (40281-10) Class | VMD | <141 | <600 | SR110-10 (40287-10) Class | VMD | <141 | <600 | MR110-10 (40291-10) Class | VMD | <141 | <600 | DR110-10 (40286-10) Class | VMD | <141 | <600 | UR110-10 40292-10 Class | VMD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0.73 | 30 | 21 | 3.5-14 | 3-12 | 2.8-11 | 2.2-8.6 | VC | 357 | 11% | 88% | XC | 470 | 6% | 62% | UC | 579 | 3% | 43% | UC | 639 | 4% | 63% | UC | 711 |
| 0.79 | 35 | 25 | 4-16 | 3.3-13 | 3-12 | 2.3-9.3 | C | 343 | 12% | 89% | XC | 445 | 7% | 67% | UC | 554 | 4% | 48% | UC | 625 | 5% | 61% | UC | 682 |
| 0.84 | 40 | 28 | 4.3-17 | 3.5-14 | 3-12 | 2.5-10 | C | 330 | 13% | 90% | XC | 424 | 7% | 70% | UC | 533 | 4% | 51% | UC | 614 | 5% | 59% | UC | 658 |
| 0.89 | 45 | 32 | 4.5-18 | 3.8-15 | 3.3-13 | 2.8-11 | C | 319 | 15% | 91% | XC | 405 | 8% | 73% | UC | 514 | 4% | 54% | UC | 604 | 5% | 58% | UC | 637 |
| 0.94 | 50 | 35 | 4.8-19 | 4-16 | 3.5-14 | 2.8-11 | C | 310 | 16% | 91% | XC | 388 | 8% | 75% | UC | 497 | 5% | 57% | UC | 595 | 5% | 56% | UC | 620 |
| 1.03 | 60 | 42 | 5-20 | 4.3-17 | 3.8-15 | 3-12 | C | 293 | 17% | 92% | VC | 358 | 9% | 79% | XC | 468 | 5% | 61% | UC | 580 | 5% | 54% | UC | 590 |
| 1.07 | 65 | 46 | 5.3-21 | 4.5-18 | 4-16 | 3.3-13 | C | 285 | 18% | 92% | C | 345 | 10% | 80% | XC | 456 | 5% | 62% | UC | 573 | 5% | 53% | UC | 577 |
| 1.11 | 70 | 49 | 5.5-22 | 4.5-18 | 4.3-17 | 3.3-13 | C | 278 | 19% | 93% | C | 333 | 10% | 81% | XC | 444 | 6% | 64% | UC | 566 | 5% | 51% | UC | 566 |
| 1.19 | 80 | 56 | 6-24 | 5-20 | 4.5-18 | 3.5-14 | M | 266 | 20% | 93% | C | 311 | 11% | 83% | XC | 423 | 6% | 66% | UC | 555 | 6% | 49% | UC | 546 |

### 110 -125 Nozzles

| Flow us gpm | Boom psi | Tip psi | Application Speed (mph) @ 25-100% D.C. 15gpa | 18gpa | 20gpa | 25gpa | ER110-125 (40281-125) Class | VMD | <141 | <600 | SR110-125 (40287-125) Class | VMD | <141 | <600 | MR110-125 (40291-125) Class | VMD | <141 | <600 | DR110-125 (40286-125) Class | VMD | <141 | <600 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1.08 | 30 | 18 | 5.3-21 | 4.5-18 | 4-16 | 3.3-13 | XC | 447 | 8% | 64% | | | | | | | | | | | | |
| 1.17 | 35 | 21 | 5.8-23 | 4.8-19 | 4.3-17 | 3.5-14 | XC | 430 | 8% | 68% | | | | | | | | | | | | |
| 1.25 | 40 | 24 | 6.3-25 | 5.3-21 | 4.8-19 | 3.8-15 | XC | 416 | 9% | 71% | XC | 445 | 5% | 66% | | | | | | | | |
| 1.33 | 45 | 27 | 6.5-26 | 5.5-22 | 5-20 | 4-16 | XC | 403 | 9% | 73% | XC | 423 | 6% | 70% | | | | | | | | |
| 1.40 | 50 | 30 | 7-28 | 5.8-23 | 5.3-21 | 4.3-17 | XC | 392 | 10% | 75% | XC | 403 | 6% | 72% | UC | 633 | 4% | 37% | UC | 658 | 3% | 33% |
| 1.53 | 60 | 36 | 7.5-30 | 6.3-25 | 5.8-23 | 4.5-18 | XC | 383 | 10% | 77% | XC | 386 | 7% | 74% | UC | 616 | 4% | 40% | UC | 646 | 3% | 35% |
| 1.59 | 65 | 39 | 8-32 | 6.5-26 | 6-24 | 4.8-19 | VC | 366 | 11% | 79% | VC | 355 | 7% | 78% | UC | 587 | 4% | 44% | UC | 626 | 4% | 37% |
| 1.65 | 70 | 42 | 8.3-33 | 6.8-27 | 6.3-25 | 5-20 | VC | 358 | 11% | 80% | C | 342 | 8% | 79% | UC | 574 | 4% | 46% | UC | 618 | 4% | 39% |
| 1.77 | 80 | 48 | 8.8-35 | 7.3-29 | 6.5-26 | 5.3-21 | C | 351 | 12% | 81% | C | 329 | 8% | 80% | UC | 562 | 5% | 48% | UC | 609 | 4% | 40% |

### 110 -15 Nozzles

| Flow us gpm | Boom psi | Tip psi | Application Speed (mph) @ 25-100% D.C. 18gpa | 20gpa | 25gpa | 30gpa | ER110-15 (40281-15) Class | VMD | <141 | <600 | SR110-15 (40287-15) Class | VMD | <141 | <600 | MR110-15 (40291-15) Class | VMD | <141 | <600 | DR110-15 (40286-15) Class | VMD | <141 | <600 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1.40 | 35 | 18 | 5.8-23 | 5.3-21 | 4.3-17 | 3.5-14 | XC | 447 | 8% | 62% | | | | | | | | | | | | |
| 1.50 | 40 | 21 | 6.3-25 | 5.5-22 | 4.5-18 | 3.8-15 | XC | 434 | 9% | 65% | | | | | | | | | | | | |
| 1.59 | 45 | 23 | 6.5-26 | 6-24 | 4.8-19 | 4-16 | XC | 423 | 9% | 67% | XC | 478 | 6% | 61% | | | | | | | | |
| 1.68 | 50 | 26 | 7-28 | 6.3-25 | 5-20 | 4.3-17 | XC | 413 | 10% | 69% | XC | 463 | 6% | 64% | | | | | | | | |
| 1.84 | 60 | 31 | 7.5-30 | 6.8-27 | 5.5-22 | 4.5-18 | XC | 395 | 11% | 72% | XC | 436 | 7% | 67% | UC | 604 | 4% | 41% | UC | 655 | 3% | 40% |
| 1.91 | 65 | 34 | 8-32 | 7-28 | 5.8-23 | 4.8-19 | XC | 387 | 11% | 73% | XC | 424 | 7% | 69% | UC | 595 | 4% | 42% | UC | 646 | 4% | 42% |
| 1.98 | 70 | 36 | 8.3-33 | 7.3-29 | 6-24 | 5-20 | XC | 380 | 11% | 74% | XC | 413 | 7% | 70% | UC | 586 | 4% | 44% | UC | 637 | 4% | 43% |
| 2.12 | 80 | 41 | 8.8-35 | 8-32 | 6.3-25 | 5.3-21 | VC | 367 | 12% | 76% | XC | 393 | 8% | 72% | UC | 570 | 5% | 46% | UC | 620 | 4% | 46% |

### 110 -20 Nozzles

| Flow us gpm | Boom psi | Tip psi | Application Speed (mph) @ 25-100% D.C. 25gpa | 30gpa | 35gpa | 40gpa | ER110-20 (40281-20) Class | VMD | <141 | <600 | SR110-20 (40287-20) Class | VMD | <141 | <600 | MR110-20 (40291-20) Class | VMD | <141 | <600 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1.37 | 50 | 19 | 6.8-27 | 5-20 | 3.5-14 | 2.5-10 | UC | 504 | 6% | 54% | | | | | | | | |
| 1.50 | 60 | 23 | 7.5-30 | 5.5-22 | 3.8-15 | 2.8-11 | UC | 484 | 7% | 58% | | | | | | | | |
| 1.56 | 65 | 24 | 7.8-31 | 5.8-23 | 3.8-15 | 3-12 | XC | 476 | 7% | 60% | | | | | | | | |
| 1.62 | 70 | 26 | 8-32 | 6-24 | 4-16 | 3-12 | XC | 468 | 7% | 61% | XC | 403 | 8% | 73% | UC | 610 | 4% | 40% |
| 1.73 | 80 | 30 | 8.5-34 | 6.5-26 | 4.3-17 | 3.3-13 | XC | 453 | 8% | 64% | XC | 385 | 8% | 75% | UC | 593 | 4% | 42% |