

Swath Gobbler Report: SG-4-2023-10-05T1127

Scanning Parameter	Value
Date YMD	2023-10-05 11:27
Report Date	2024-02-22 22:04
Trial Number	4
Swath Number	4
Aircraft Type	P100Pro
Nozzle Type	Rotary
Nozzle Size	TBD
Image Spacing	100.0 mm (3.94 in)
Lighting	Red:0 Green:0 Blue:0 White:10
HSV Intervals	Hue: [30, 89], Saturation: [0, 115], Value: [0, 162]

Scan Notes

None

Analysis Notes

Single Pass from RPAAS 2023, P100

Expected Center

7 m

Term	Definition
Expected Center	The Centerline or flightline position that the spray was applied on. This is a user-entered value in meters. Negative numbers are to the left of the Expected Center, positive to the right.
Min %	The minimum percent cover that defines the left and right extents of the swath.
Left	The furthest extent of the swath to the left that the Min % is achieved, expressed as the distance from the Expected Center.
Right	The furthest extent of the swath to the right of the Min % is achieved, expressed as the distance from the Expected Center.
Swath	The distance between the Left and Right extents at the Min % value in this data line. NOTE: the coverage may drop below the Min % inside the swath, the software looks for the first and last example of Min % in the scanned dataset.
Center	The actual center of the swath, expressed as the absolute position from the left edge on the scanned dataset.
Shift	The distance left (-) or right (+) from the Expected Center that the swath is shifted.
CV	The Coefficient of Variation (CV) of the percent coverage between Left and Right.
T. Left	Using a gaussian smoothed trend line, the furthest extent of the swath to the left that the Min % is achieved, expressed as the distance from the Expected Center.
T. Right	Using a gaussian smoothed trend line, the furthest extent of the swath to the right that the Min % is achieved, expressed as the distance from the Expected Center.
T. Swath	Using a gaussian smoothed Trendline, the distance between Left and Right extents at the Min % value in this data line. NOTE: the coverage may drop below the Min % inside the swath, the software looks for the maximum extent.

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Min %	Left	Right	Swath	Center	Shift	CV	T. Left	T. Right	T. Swath
0.5%	-6.90 m	8.40 m	15.30 m	7.75 m	0.75 m	91.12%	-6.70 m	7.80 m	14.50 m
1.0%	-6.40 m	7.30 m	13.70 m	7.45 m	0.45 m	82.29%	-6.30 m	7.30 m	13.60 m
1.5%	-6.20 m	7.00 m	13.20 m	7.40 m	0.40 m	80.01%	-5.60 m	7.10 m	12.70 m
2.0%	-5.40 m	6.90 m	12.30 m	7.75 m	0.75 m	76.13%	-5.40 m	6.80 m	12.20 m
2.5%	-5.40 m	6.90 m	12.30 m	7.75 m	0.75 m	76.13%	-5.20 m	4.70 m	9.90 m
3.0%	-5.40 m	4.60 m	10.00 m	6.60 m	-0.40 m	65.16%	-5.00 m	3.80 m	8.80 m
4.0%	-4.90 m	3.20 m	8.10 m	6.15 m	-0.85 m	57.59%	-2.80 m	3.20 m	6.00 m
5.0%	-4.00 m	3.00 m	7.00 m	6.50 m	-0.50 m	51.20%	-2.70 m	2.80 m	5.50 m
6.0%	-2.60 m	2.70 m	5.30 m	7.05 m	0.05 m	33.59%	-2.60 m	2.50 m	5.10 m
7.0%	-2.50 m	1.80 m	4.30 m	6.65 m	-0.35 m	26.61%	-2.50 m	1.70 m	4.20 m
8.0%	-2.50 m	1.60 m	4.10 m	6.55 m	-0.45 m	25.88%	-2.30 m	1.50 m	3.80 m
9.0%	-2.50 m	1.50 m	4.00 m	6.50 m	-0.50 m	25.84%	-2.10 m	1.40 m	3.50 m
10.0%	-1.90 m	1.20 m	3.10 m	6.65 m	-0.35 m	23.70%	-1.80 m	1.30 m	3.10 m
15.0%	0.00 m	0.90 m	0.90 m	7.45 m	0.45 m	6.99%	0.10 m	0.70 m	0.60 m
20.0%	--	--	--	--	--	--	--	--	--
25.0%	--	--	--	--	--	--	--	--	--
30.0%	--	--	--	--	--	--	--	--	--

Min %	Left	Right	Swath	Center	Shift	CV	T. Left	T. Right	T. Swath
0.5%	-22.64 ft	27.56 ft	50.20 ft	25.43 ft	2.46 ft	91.12%	-21.98 ft	25.59 ft	47.57 ft
1.0%	-21.00 ft	23.95 ft	44.95 ft	24.44 ft	1.48 ft	82.29%	-20.67 ft	23.95 ft	44.62 ft
1.5%	-20.34 ft	22.97 ft	43.31 ft	24.28 ft	1.31 ft	80.01%	-18.37 ft	23.29 ft	41.67 ft
2.0%	-17.72 ft	22.64 ft	40.35 ft	25.43 ft	2.46 ft	76.13%	-17.72 ft	22.31 ft	40.03 ft
2.5%	-17.72 ft	22.64 ft	40.35 ft	25.43 ft	2.46 ft	76.13%	-17.06 ft	15.42 ft	32.48 ft
3.0%	-17.72 ft	15.09 ft	32.81 ft	21.65 ft	-1.31 ft	65.16%	-16.40 ft	12.47 ft	28.87 ft
4.0%	-16.08 ft	10.50 ft	26.57 ft	20.18 ft	-2.79 ft	57.59%	-9.19 ft	10.50 ft	19.69 ft
5.0%	-13.12 ft	9.84 ft	22.97 ft	21.33 ft	-1.64 ft	51.20%	-8.86 ft	9.19 ft	18.04 ft
6.0%	-8.53 ft	8.86 ft	17.39 ft	23.13 ft	0.16 ft	33.59%	-8.53 ft	8.20 ft	16.73 ft
7.0%	-8.20 ft	5.91 ft	14.11 ft	21.82 ft	-1.15 ft	26.61%	-8.20 ft	5.58 ft	13.78 ft
8.0%	-8.20 ft	5.25 ft	13.45 ft	21.49 ft	-1.48 ft	25.88%	-7.55 ft	4.92 ft	12.47 ft
9.0%	-8.20 ft	4.92 ft	13.12 ft	21.33 ft	-1.64 ft	25.84%	-6.89 ft	4.59 ft	11.48 ft
10.0%	-6.23 ft	3.94 ft	10.17 ft	21.82 ft	-1.15 ft	23.70%	-5.91 ft	4.27 ft	10.17 ft
15.0%	0.00 ft	2.95 ft	2.95 ft	24.44 ft	1.48 ft	6.99%	0.33 ft	2.30 ft	1.97 ft
20.0%	--	--	--	--	--	--	--	--	--
25.0%	--	--	--	--	--	--	--	--	--
30.0%	--	--	--	--	--	--	--	--	--

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