FIXED-WING AND DRONES COMPARISONS

HENRIQUE CAMPOS, PhD

sabri

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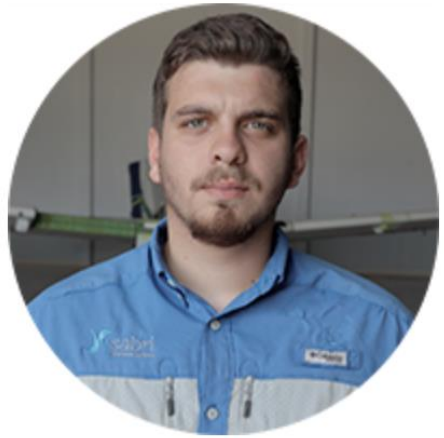

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Mato Grosso

- Lucas do Rio Verde

Bahia

- Luís Eduardo Magalhães

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KGF
ICL
VOA
Trimble
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FXO9J78
CLÍNICA DE AERONAVES

EMBRAER AGREEMENT FOR NEW IPANEMAS

Fazendo história na aviação agrícola brasileira

Special thanks to Ivan Negreti and Anderson Marchel

USA

GUATEMALA

Special thanks to John Garr (GarrCo)

Research Station – Mato Grosso, Brazil

Pesticide Application Technology Research for Cotton Growers

FIXED-WING AND DRONES COMPARISONS

HENRIQUE CAMPOS, PhD

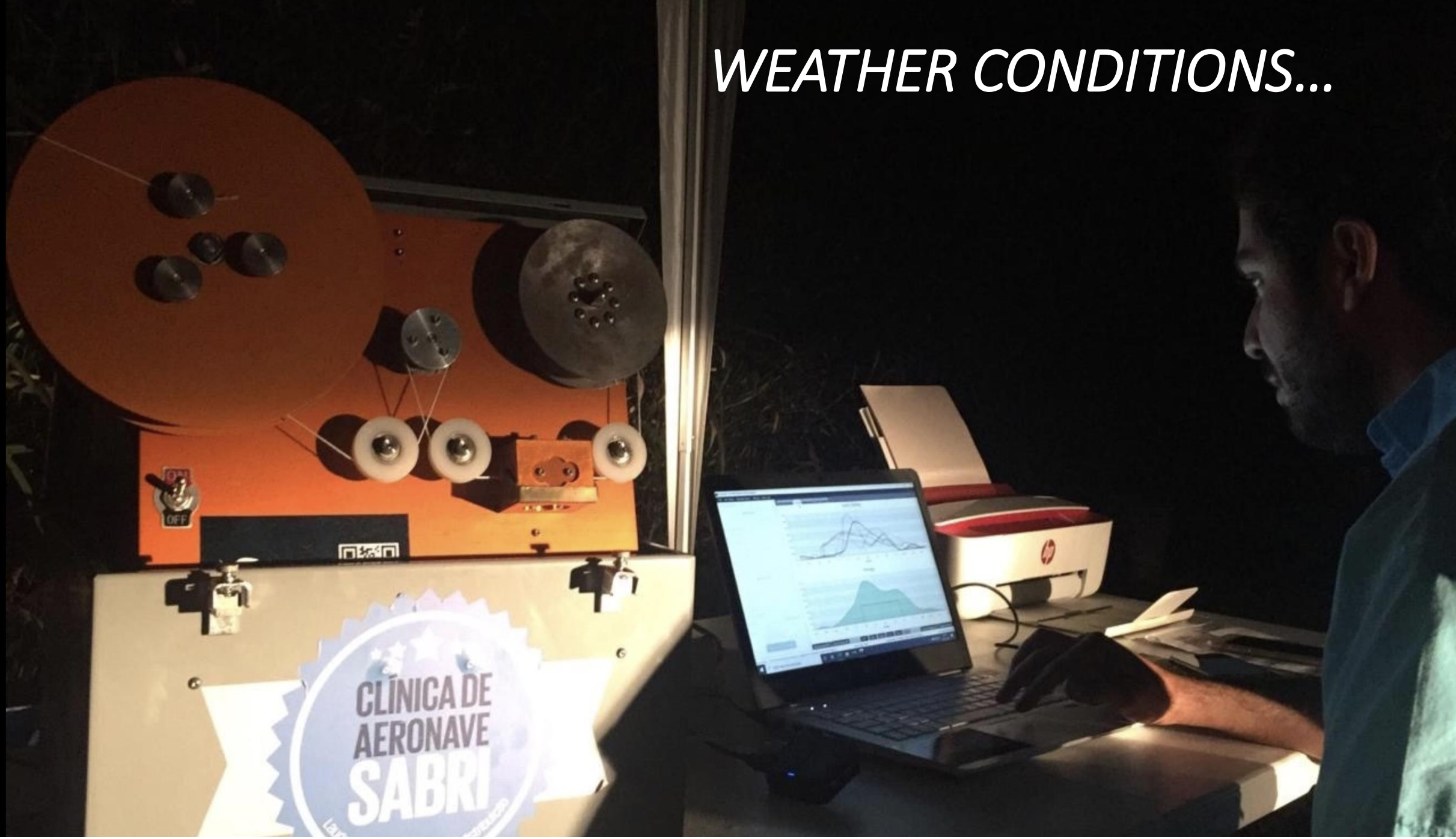
TAKE NOTES
OR
REMEMBER

Color Code	Classification	VMD Range	Drift Potential
PURPLE (XF)	EXTREMELY FINE	<60	HIGH
RED (VF)	VERY FINE	61-105	
ORANGE (F)	FINE	106-235	
YELLOW (M)	MEDIUM	236-340	
BLUE(C)	COARSE	341-403	
GREEN (VC)	VERY COARSE	404-502	
WHITE (XC)	EXTREMELY COARSE	503-665	
BLACK (UC)	ULTRA COARSE	>665	LOW

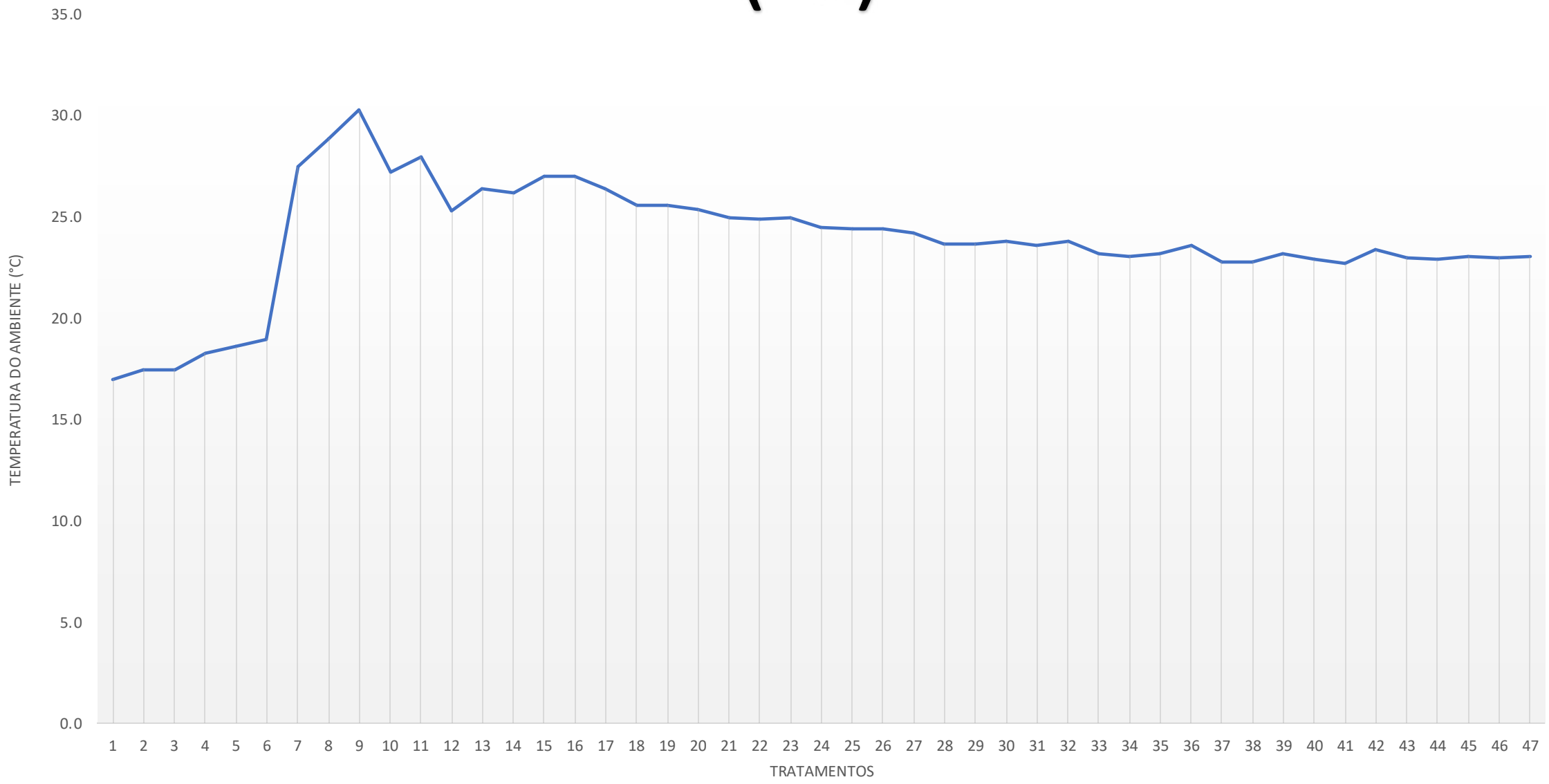
> 30%

ALWAYS INTO THE WIND…

WEATHER CONDITIONS…



T (°C)



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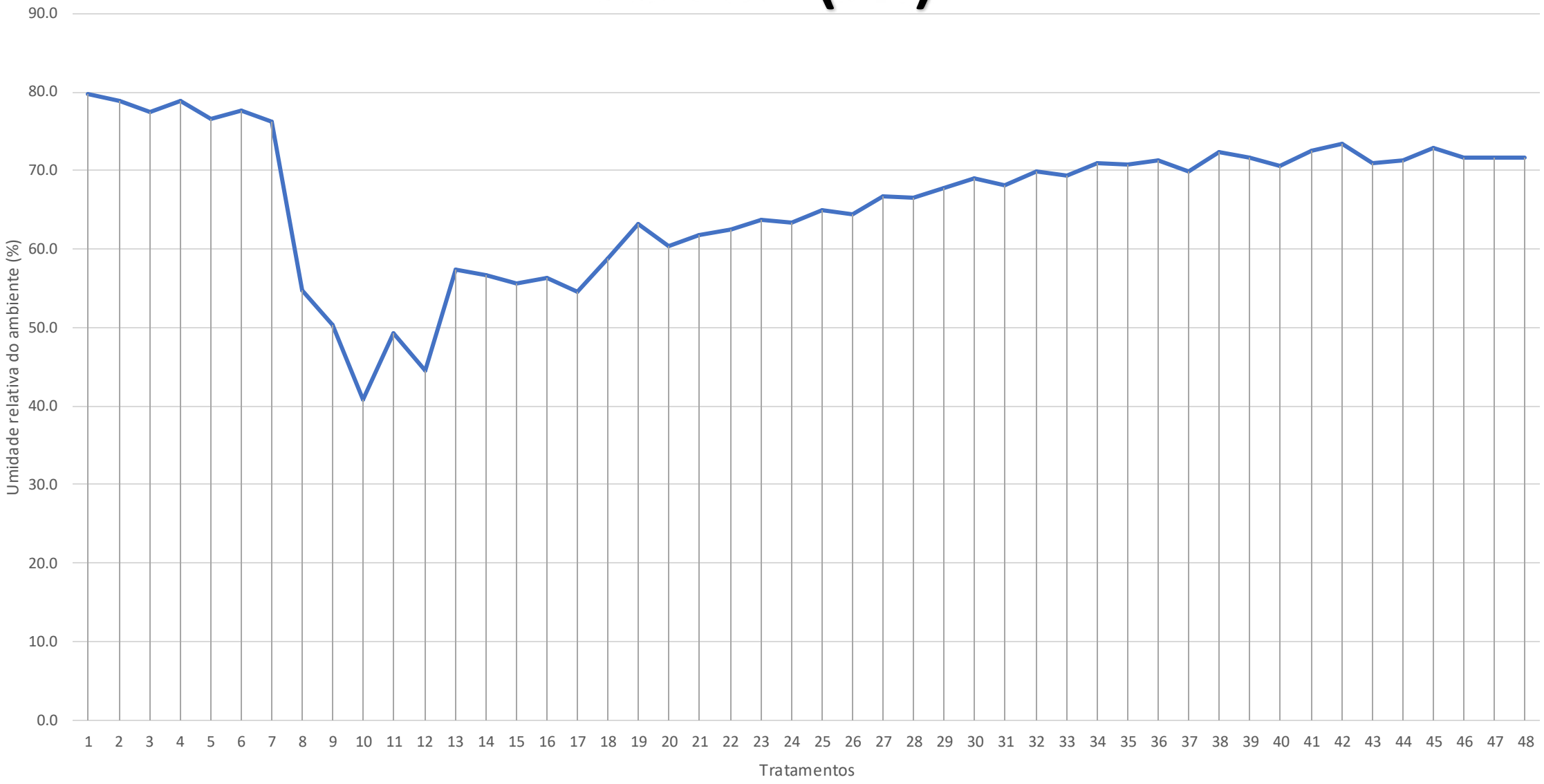
R.U. (%)



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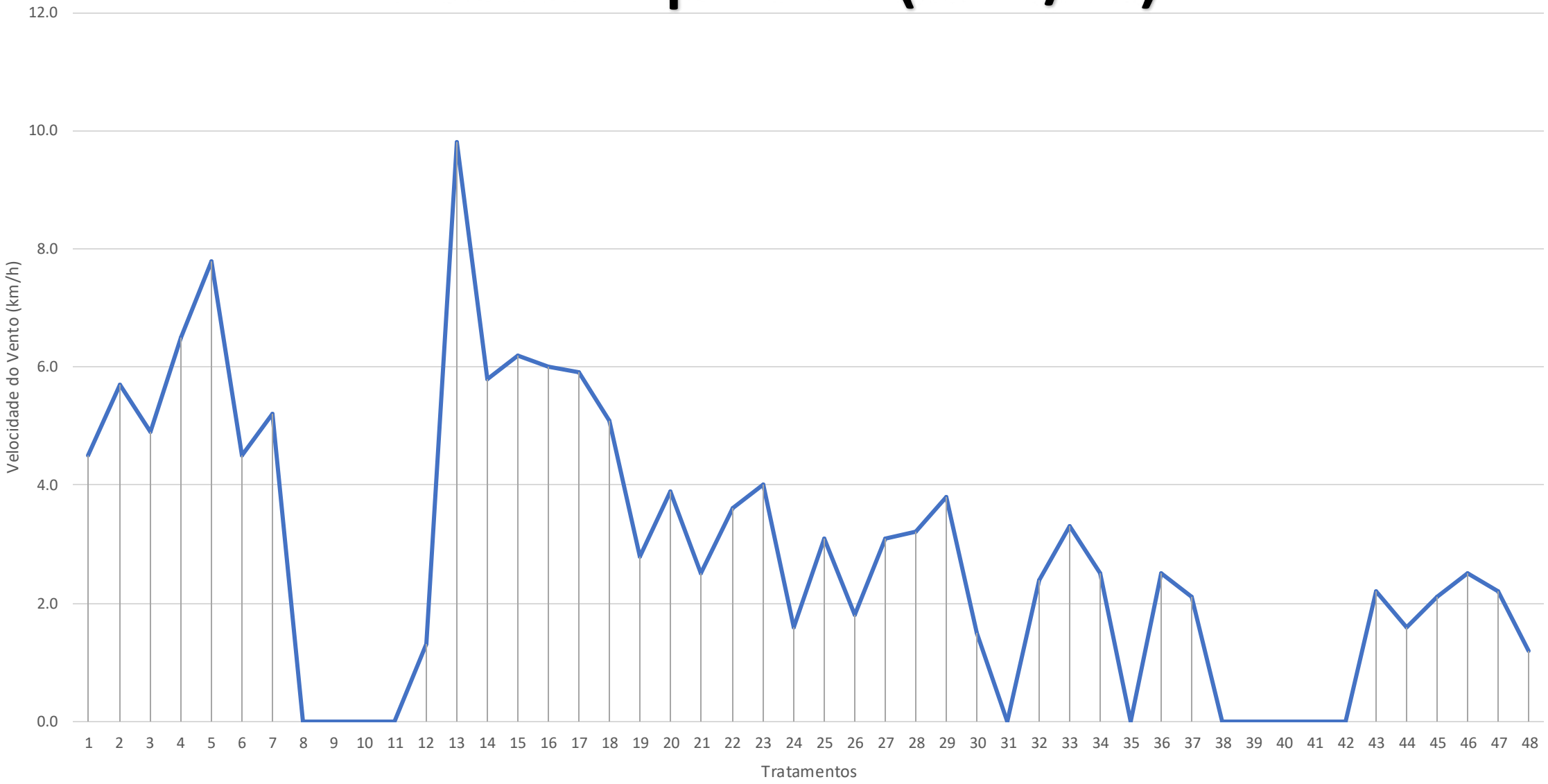
Wind Speed (km/h)



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Why Drones?

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DJI DRONES

T40 & T50

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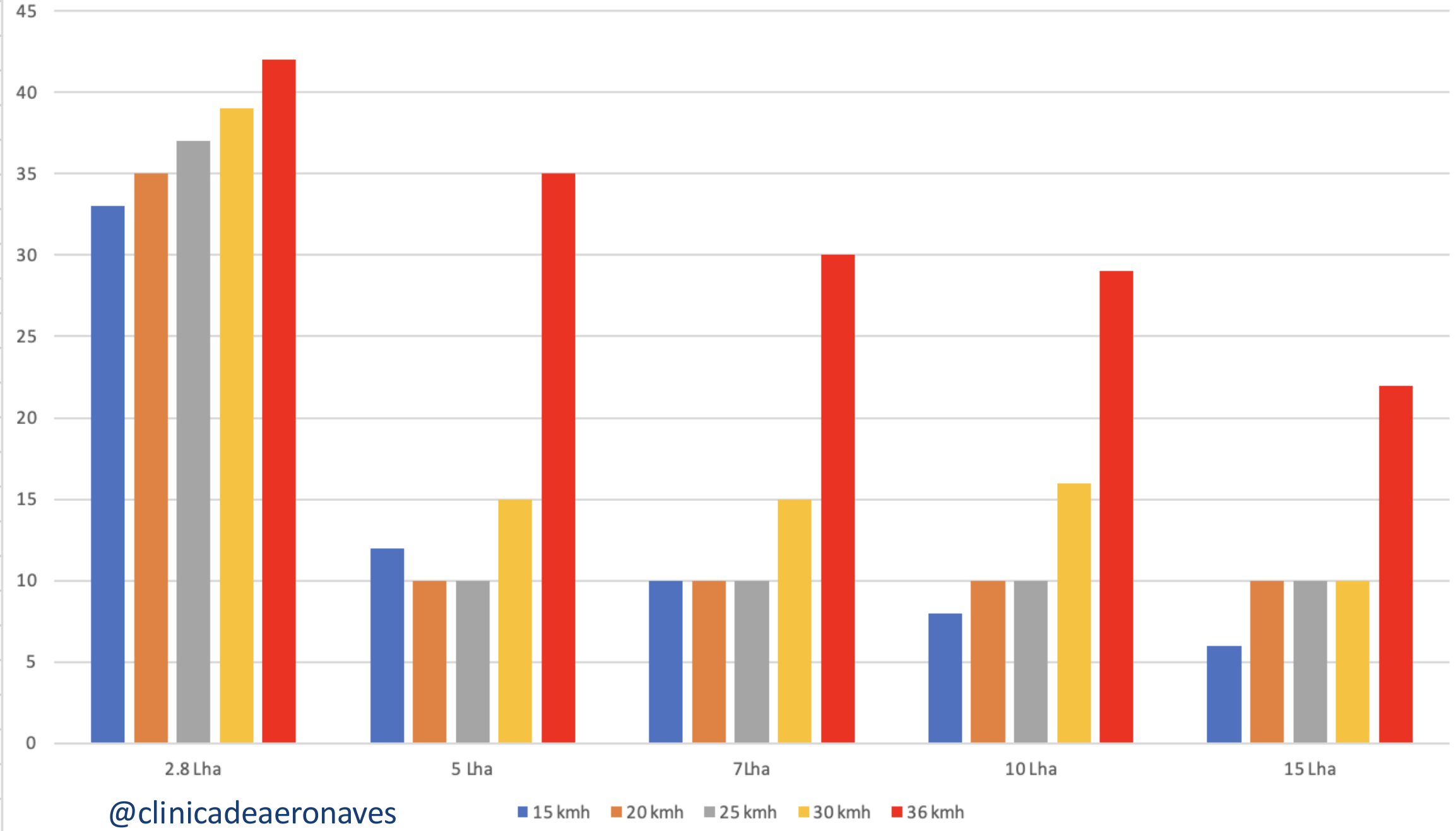
C.V. (%) by AccuPatt



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Swath (meters)
11
11
11
11
11
11
11
11
11
11
10
10
10
10

Very Fine

And

Fine

Swath by Accupatt (m)	Swath by DJI Control (m)
11	10
11	11
11	10
11	9
11	10
11	9
11	10
11	10
11	8
11	11
10	10
10	10
10	8
10	10

DROPLET SIZE BY ACCUPATT	DROPLET SIZE BY DJI CONTROL
FINE	MEDIUM
FINE	COARSE
FINE	EXTREMELY COARSE
FINE	COARSE
FINE	MEDIUM
VERY FINE	MEDIUM
VERY FINE	MEDIUM
FINE	COARSE
FINE	EXTREMELY COARSE
VERY FINE	EXTREMELY COARSE
FINE	COARSE
VERY FINE	MEDIUM
VERY FINE	MEDIUM
VERY FINE	MEDIUM

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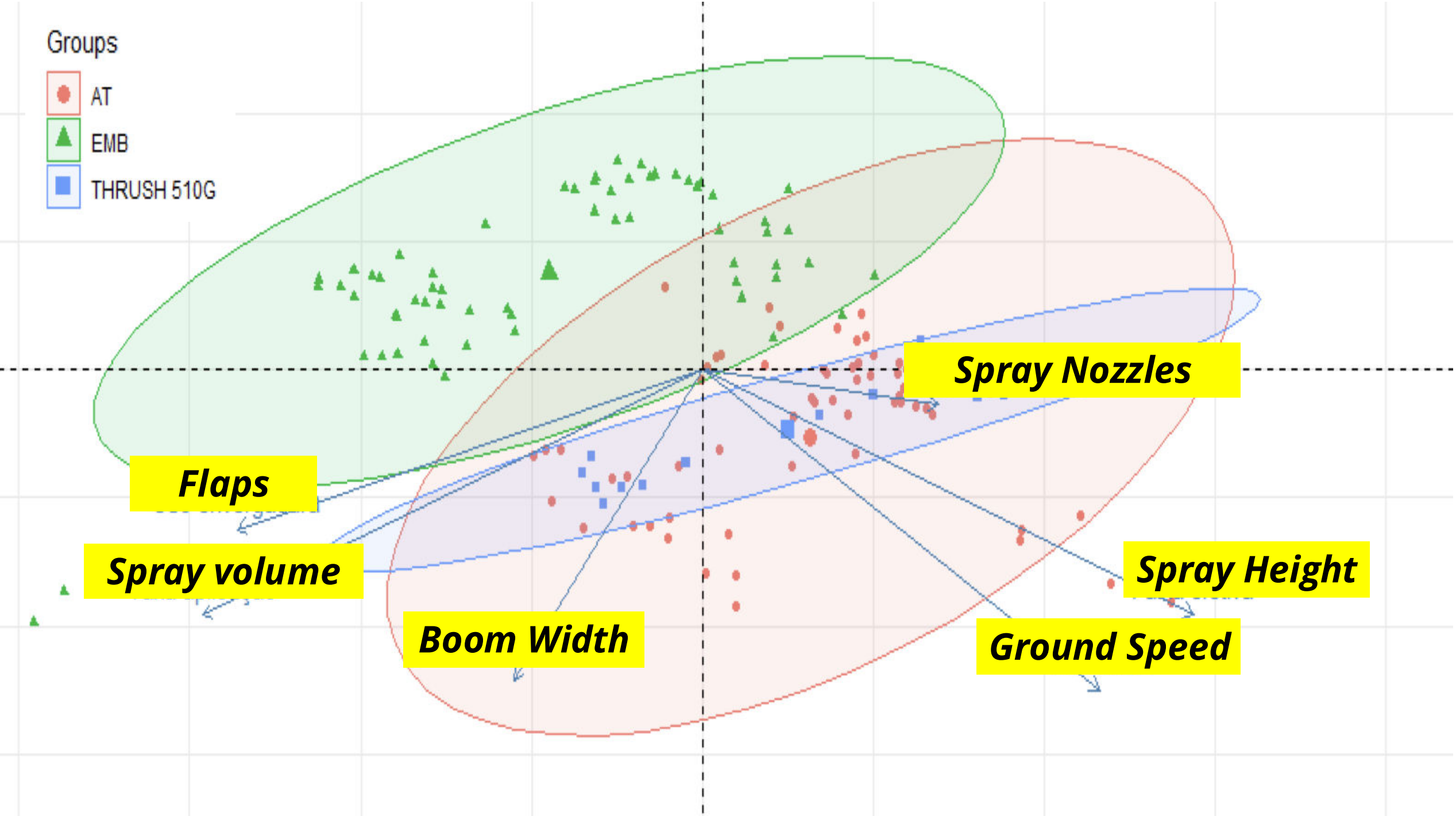
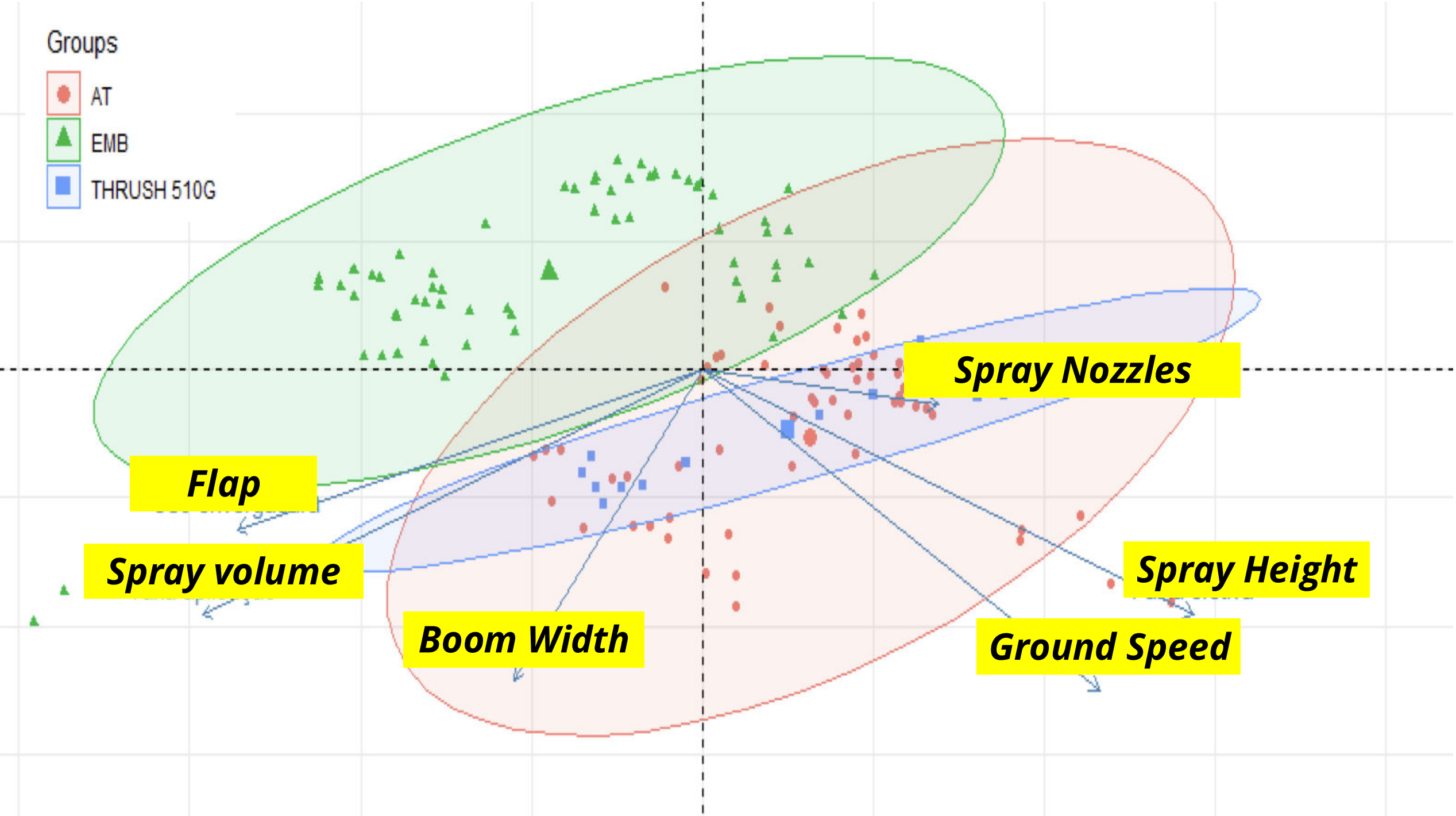
Multivariate analysis

Groups

- AT
- EMB
- THRUSH 510G


Groups
AT
EMB
THRUSH 510G
Spray Nozzles
Flaps
Spray volume
Spray Height
Boom Width
Ground Speed


Groups
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THRUSH 510G
Spray Nozzles
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Spray volume
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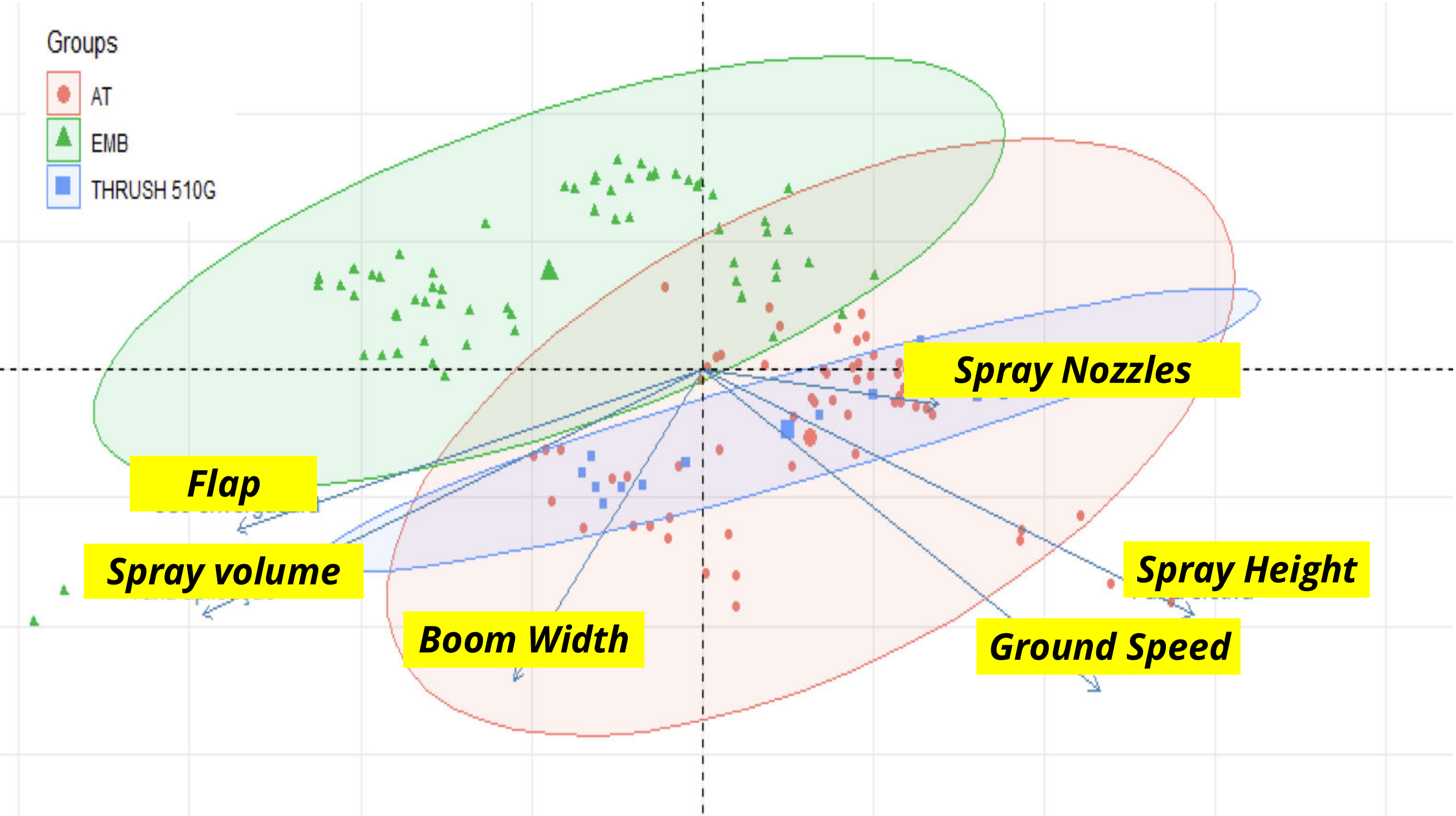
Ground Speed

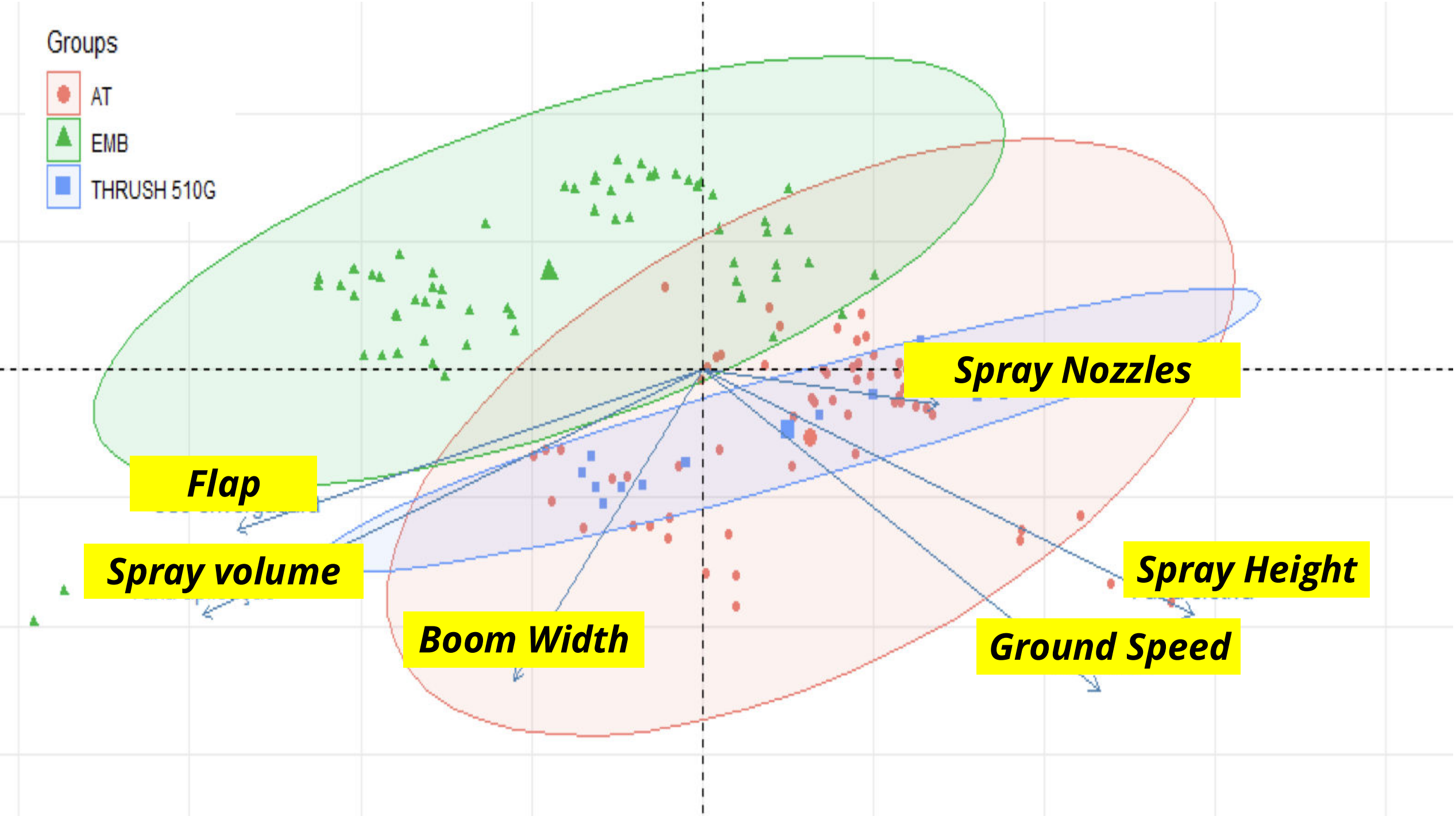
MEPEL
CLÍNICA DE AERONAVES
PERFORMANCE PARA ALTA PRODUTIVIDADE
sabri
BUFFALO


Groups
AT
EMB
THRUSH 510G
Spray Nozzles
Flap
Spray volume
Spray Height
Boom Width
Ground Speed

PR-DMJ

PR-DMJ

Kestrel
15.6
MPH


Groups
AT
EMB
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TAKE HOME…

ONTROL
MITIGATION AND
ADJUVANT
PRODUCTS, INC.
Ounces
Milliliters

Kestrel
34.8
MAX
km/h
3000

CLÍNICA DE AERONAVES
PERFORMANCE PARA ALTA PRODUTIVIDADE

PATTERN TESTING

PESTICIDES

THANKS

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