



ENSAIOS DE VALIDAÇÃO TÉCNICA DOS BICOS DE PULVERIZAÇÃO AÉREA STOL ULD

COMPARATIVO 20 x 50 PSI

**Eng. Agr. Dr. Eugênio Passos Schröder
SCHRODER CONSULTORIA**

AT-502





Stol[®]

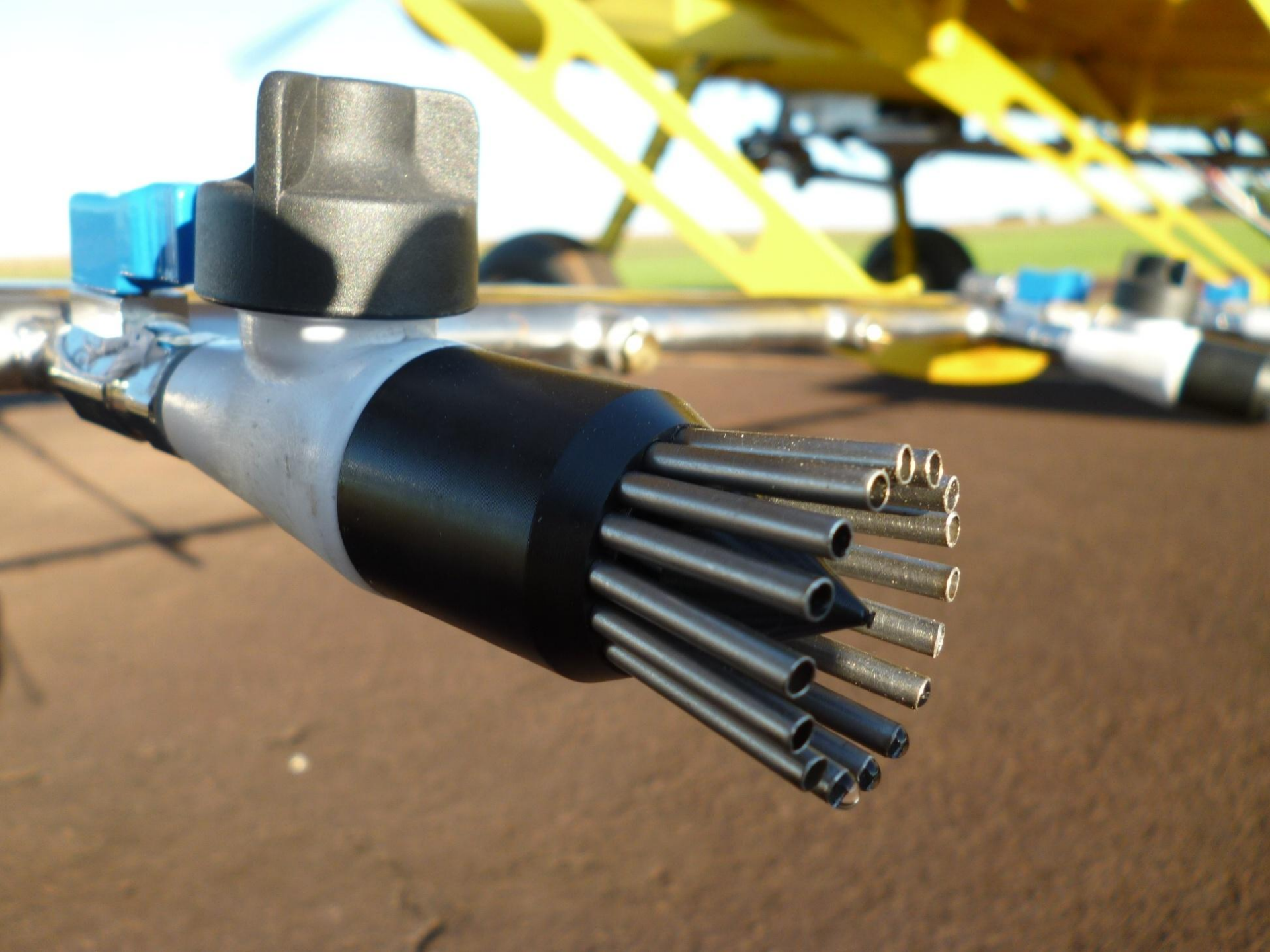


0.063

0.085

0.100





COLETA DE GOTAS





TRATAMENTOS



AVIÃO	NÚMERO BICOS	DIÂMETRO TUBULAÇÕES (pol)	VOLUME (L/ha)	PRESSÃO (PSI)
AT-502	24	0.063	17	20
AT-502	24	0.063	38	50
AT-502	24	0.085	17	20
AT-502	24	0.085	38	50
AT-502	24	0.100	17	20
AT-502	24	0.100	38	50



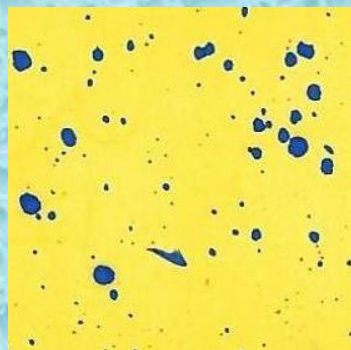


RESULTADOS



**20
psi**

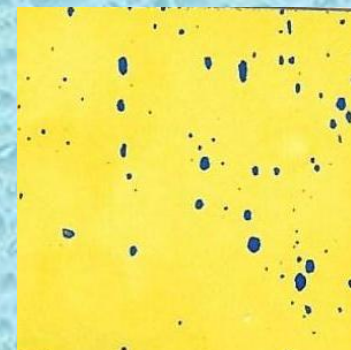
0.063



0.085



0.100



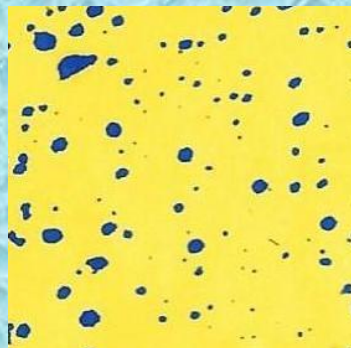


RESULTADOS

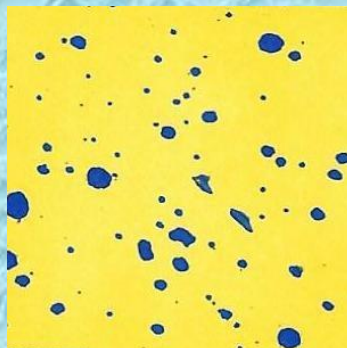


**50
psi**

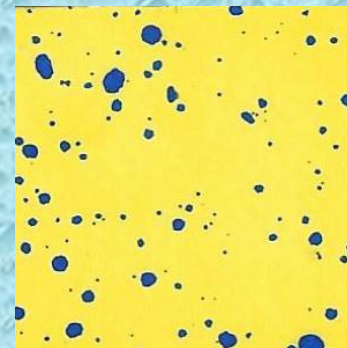
0.063



0.085



0.100



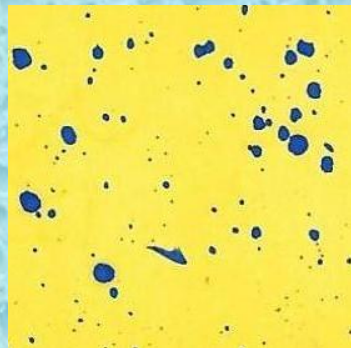


RESULTADOS



**20
psi**

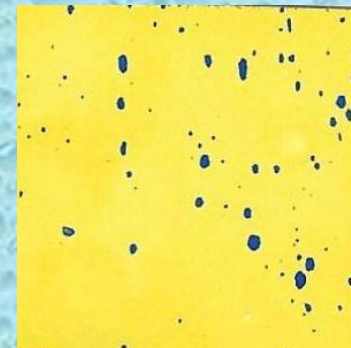
0.063



0.085

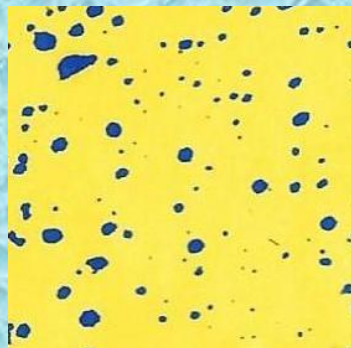


0.100

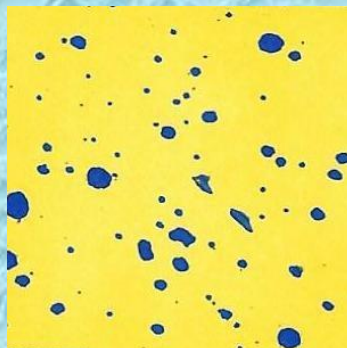


**50
psi**

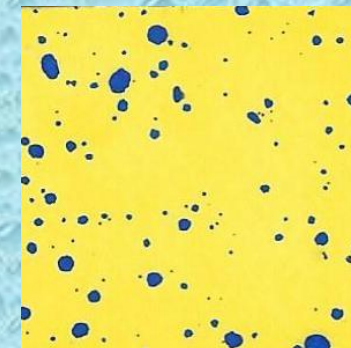
0.063



0.085



0.100



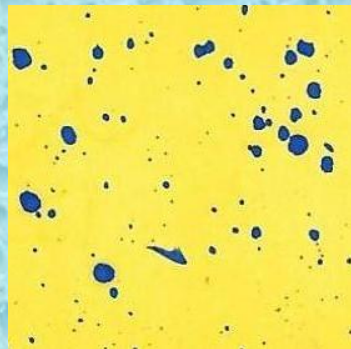


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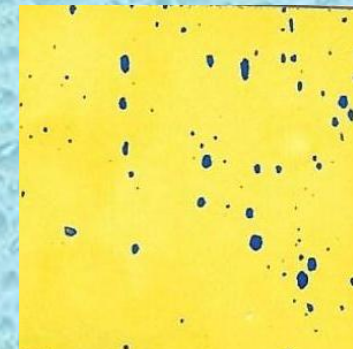
521 μm

0.085



533 μm

0.100



364 μm
Pressão
insuficiente
para este
orifício ???

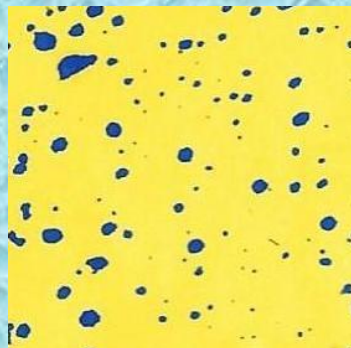


RESULTADOS



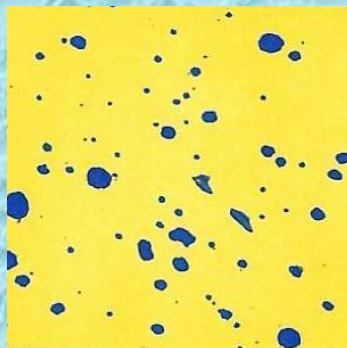
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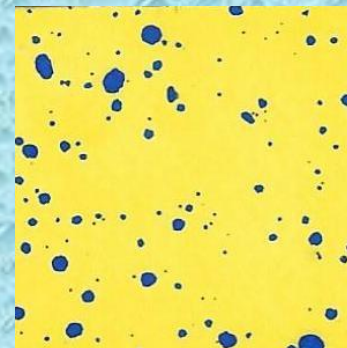
452 μm

0.085



495 μm

0.100



528 μm

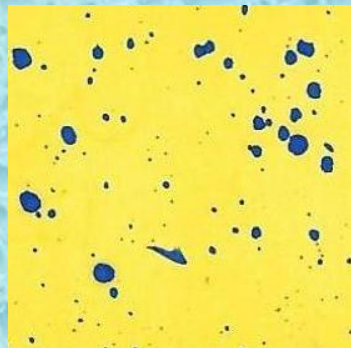


RESULTADOS



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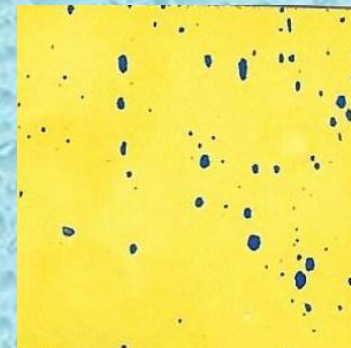
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0.085



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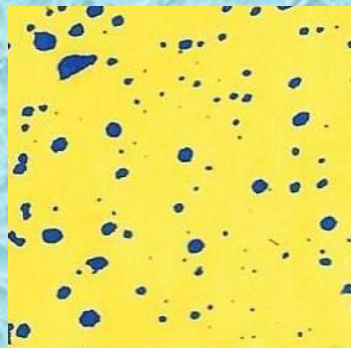
0.100



364 μm
???

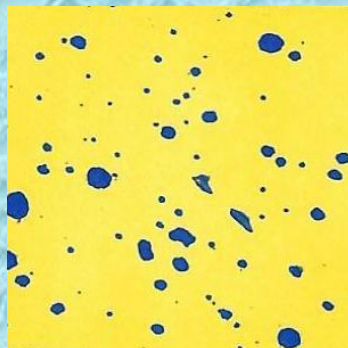
**50
psi**

0.063



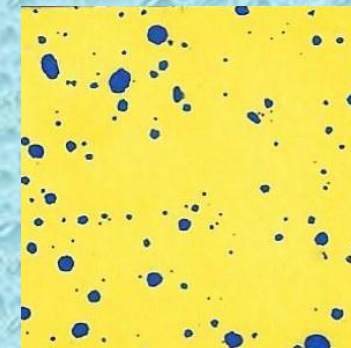
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RESULTADOS



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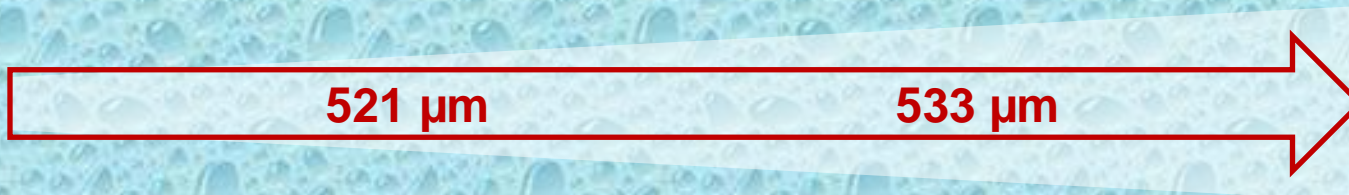
528 μm



RESULTADOS

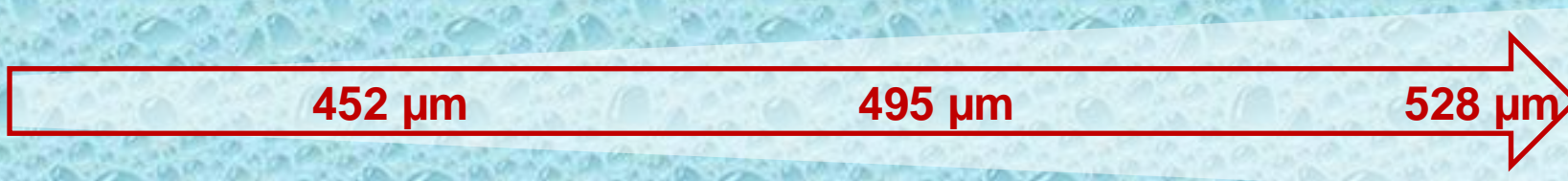


20
psi



O tamanho das gotas **aumentou** com o **aumento** do tamanho das tubulações dos bicos.
Mas a variação foi pequena

50
psi





RESULTADOS



**20
psi**

521 μm

**50
psi**

452 μm

533 μm

495 μm

O tamanho das gotas **aumentou** com a **redução** da pressão. Mas a variação foi pequena.



RESULTADOS



Na média das seis coletas,
foram observadas densidades de **16 gotas/cm²**
e taxas de aplicação de **29 L/ha**



CONCLUSÃO



Bicos **STOL ULD** com **orifícios maiores** e **pressões menores** geram gota maiores, desejável para a redução da deriva de gotas.



NOVOS TESTES



Sugestão para novos testes:

Aplicação 30 L/ha com
água + adjuvante ou
água + agroquímico

Air Tractor 24 bicos Stol ULD furos médios, 25 PSI.

Ipanema 20 bicos Stol ULD furos médios, 25 PSI.