

海南天然橡胶产业集团股份有限公司
关于征求《橡胶树白粉病飞防飞控技术规程》
农业行业标准（征求意见稿）意见的函

:

2021 11 1

PDF

Word

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1.

2.

3.

2021 9 30



XX/TXXXXX—XXXX
XX/T

Technical Specification for Fly Prevention and Control of Powdery Mildew of
Rubber Tree

()

2021 9 10

GB/T 1.1—2020

1

1

2

GB/T 17980.97-2004 () :
NY/T 1089-2015
MH/T 1002.1-2016

3

MH/T 1002.1-2016

3.1

conventional spray
30 L

3.2

low volume spray
5 L 30 L

3.3

ultra low volume spray
5 L

3.4

coverage density of droplets

3.5

uniformity of deposits distribution

3.6

VMD volume median diameter

50%

μ m

3.7
number median diameter
NMD

50%

3.8
droplet particle sizespectrum

VMD/NMD 90% 10%

3.9
uniformity of vertical droplet particle sizespectrum

4

1

		/cm ²	% ¹	μ m ²	³	⁴ %
		≥ 12	≤ 60	90-100	≤ 0. 75	≤ 9
		≥ 26	≤ 75	90-140	≤ 0. 80	≤ 15
		≥ 12	≤ 40	90-100	≤ 0. 75	/
		≥ 26	≤ 60	90-140	≤ 0. 80	/
1	VDM					
2						
3						
4						
		VMD/NMD		90%	10%	

5

5.1

5.1.1

5.1.1.1

4 2668 m²

5.1.1.2

3 m/s 20 30 50%

5.1.1.3

30 m

20 °

5.1.1.4

5.1.1.5

5.1.1.6

5.1.1.7

70

5.1.2

5.1.2.1

m 11 m 6 5 3 3 3.5 m 5 m 6.5 m 8 m 9.5 15

5.1.2.2

5.1.2.3

5.1.2.4

10min

5.1.2.5

2

5.1.3

B

5.1.3.1

20cm²

5.1.3.2

5.2

1 4 6 20 cm²

—— i
—— i
—— i

$\mu\text{ m}$
 $\mu\text{ m}^3$

$$V = \sum_{i=1}^n V_i = \frac{1}{6} \sum_{i=1}^n V_i^3 \dots\dots\dots (7)$$

7
—— i
—— i
—— i
——

$\mu\text{ m}$
 $\mu\text{ m}^3$
 $\mu\text{ m}^3$

$$\left(\dots\dots\dots .50 = \frac{\dots\dots\dots}{\dots\dots\dots} \times 50 \right) + \dots\dots\dots (8)$$

8
.50——
——
——
——
——

$\mu\text{ m}$
 $\mu\text{ m}$
 $\mu\text{ m}$

$$\left(\dots\dots\dots = \frac{\sum_{i=1}^n (x_i - \bar{x})^2}{n-1} \right)^{1/2} = \frac{\sum_{i=1}^n (x_i^2 - \bar{x}^2)}{n-1}^{1/2} \dots\dots\dots (9)$$

9
—— i
——
——
——

$$= \dots\dots\dots \times 100\% \dots\dots\dots (10)$$

10
——
——
——

6

6.1

10

7
NY/T 1089-2015 5.3.1

6.2

GB/T 17980.97-2004 4.2.3

6.3

XX/TXXXXX—XXXX

A

7

B

A

A. 1

A.1

	≥ 70%	≥ 70%	≥ 70%

B

B.1 B.3

B.1

		cm ²	/cm ²	/cm ²		

B.2

	/cm ²		

B.3

		(μm)		(μm)	μm ³	%	μm ³	VDM (μm)	NDM (μm)		

农业行业标准

《橡胶树白粉病飞防飞控技术规程》

2021 09

（一）任务来源

2020

2020

[2013]96

[2014]96

125C0701

（二）主要起草单位

（三）主要工作过程

1.

2020 8

2.

2020 9 -2020 11

3.

4.

		/	

（一）制定标准的原则与依据

1.

2.

3.

(务 标 术

(三) 与法律法规的关系

(四) 主要内容中技术指标、参数、公式:

DV _{.10}	10%	μm
D _{v.50}	50%	μm
DV _{.90}	90%	μm
		/cm ²

$$\% = \frac{\quad}{\quad} \times 100$$

$$\% = \frac{\quad}{\quad} \times 100$$

$$= \frac{\quad}{\quad}$$

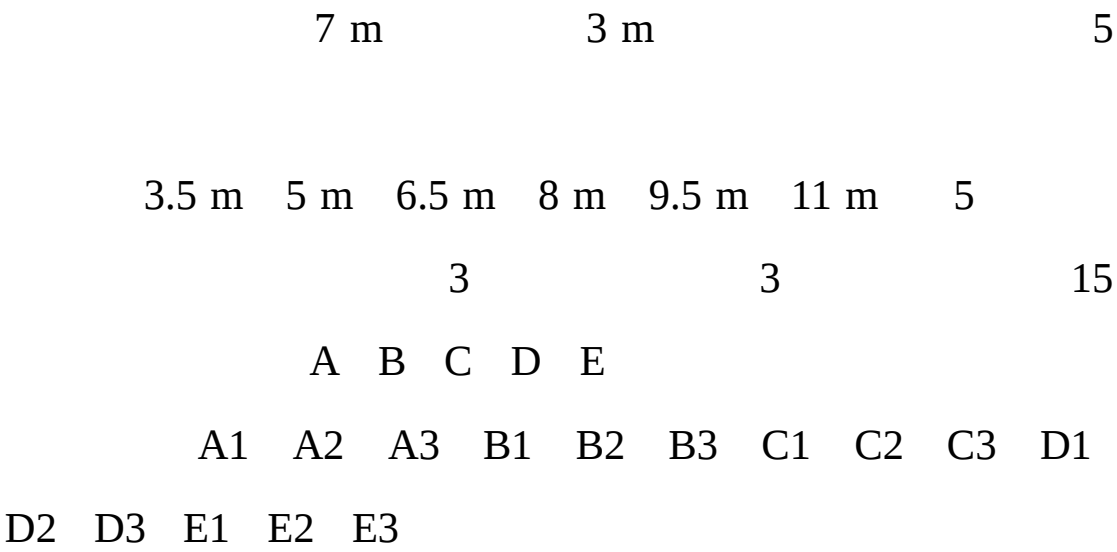
CV

$$CV\ \% = \frac{SD}{\text{mean}} \times 100\%$$

SD—— ———— ；

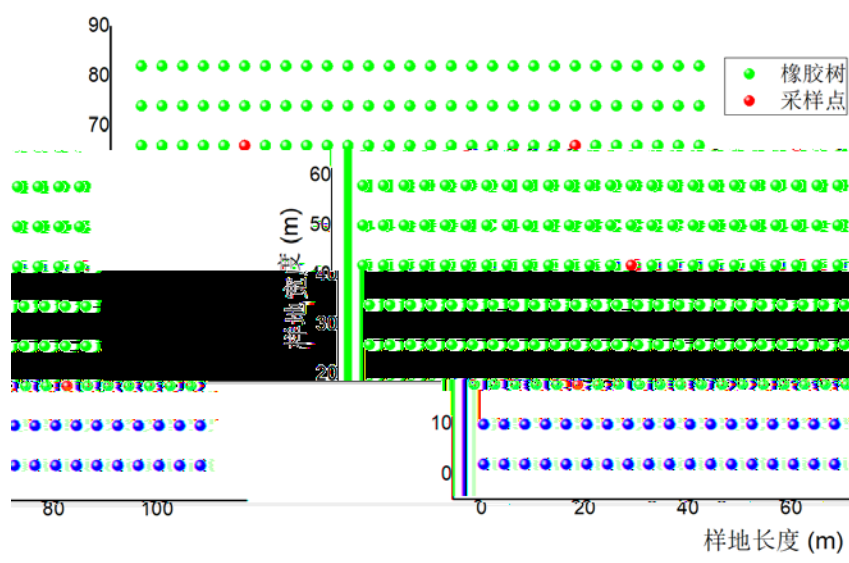
(五) 试验方法及数据分析

1.

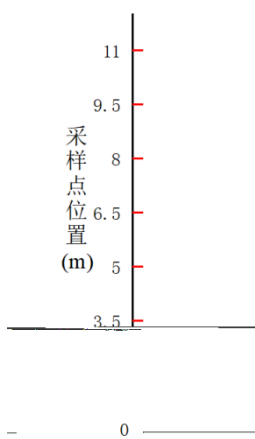


1

1 2



1



2

2.

LSD P=0.05

E-A2020

	2	3	15L
3.0	3.0m	2.5	/
50%	30μm	4.0m	
5000.0mL /			

4

4

3

2

4

2

2

2

3

4 5 6

2

	DV _{.50}	CV.		CV	
	(μ m)				
1	69.97±3.57	81.61±20.17	66.17±27.34	78.71±20.32	64.48±24.52
2	96.35±5.68	45.25±23.31	76.08±18.46	49.39±20.76	60.17±26.52
3	142.60±14.78	88.36±32.69	69.24±22.75	80.66±32.05	56.57±15.78
4	253.12±15.52	96.36±8.04	79.01±20.94	83.93±7.38	75.75±27.97

4

4

DV_{.50} 90-100μm

3

		DV _{.10} (μ m)	DV _{.50} (μ m)	DV _{.90} (μ m)	%	/cm ²
1	3.5m	63.2±9.65	95±21.18	139.2±55.67	0.05±0.03	2.97±2.13
	5m	58±14.49	90.6±22.63	119±35.37	0.07±0.05	4.67±2.57
	6.5m	57.6±18.99	91±11.05	115.8±17.47	0.07±0.07	5.17±4.08
	8m	62.5±8.54	104.25±12.04	147.5±37.97	0.13±0.1	7.8±6.05
	9.5m	61.6±7.67	104±14.35	155.2±29.17	0.17±0.1	11.07±6.12
	11m	68.75±11.06	101.5±20.29	141±31.59	0.23±0.12	14.55±6.1
2	3.5m	60.4±6.39	95±13.51	132.2±20.86	0.03±0.03	3.47±1.75
	5m	59.6±4.98	91.8±16.54	120.8±30.39	0.07±0.03	4.53±2.37
	6.5m	64.8±6.57	103.8±37.79	150.2±81.65	0.08±0.07	5.57±5.9
	8m	61±8.25	87.5±7.68	118.25±8.06	0.05±0.02	4.25±1.7
	9.5m	65.2±5.76	100.8±7.01	141.2±19.07	0.38±0.48	23.83±28.5
	11m	65.4±1.34	101±3.08	143.4±11.01	0.48±0.35	30.53±21.07
3	3.5m	54.6±3.71	83±23.18	114.6±35.47	0.02±0.02	1.9±0.78
	5m	62.4±5.37				

	8m	59.2±8.2	88.8±21.7	140.4±29.74	0.07±0.03	5.47±3.05
	9.5m	61.2±2.68	94.4±10.97	131±20.12	0.13±0.12	9.47±8.55
	11m	61.2±2.68	96.8±12.7	125.4±20.96	0.17±0.1	12.5±7.65
4	3.5m	55.2±4.38	89.6±19.67	122.2±28.47	0.03±0	2.9±1.07
	5m	55.2±6.1	74.4±15.76	92.8±25.05	0.03±0.03	3.13±2.13
	6.5m	53.6±3.58	80.8±10.59	122±16.57	0.07±0.1	5.2±6.73
	8m	60.8±5.76	98.6±32.99	149.2±78.44	0.07±0.05	4.8±2.87
	9.5m	60±0	92.5±10.47	136.75±28.46	0.12±0.05	9.47±4.8
	11m	60±0	90±5.96	148±31.02	0.22±0.12	17.23±10.28
5	3.5m	59.8±5.02	98.4±7.09	136.8±9.01	0.1±0.07	6.67±4.37
	5m	64.8±5.02	106.8±12.44	180±63.39	0.2±0.12	12.6±7.52
	6.5m	65±7.48	103.6±12.14	140.4±15.61	0.23±0.1	13.7±5.7
	8m	68.2±6.5	107.6±10.43	180±75.9	0.47±0.2	28.07±8.97
	9.5m	65.4±4.45	103.6±9.76	177.6±83.21	0.48±0.27	30.13±13.72
	11m	67.2±5.02	107±6.67	189.2±87.77	0.75±0.32	47.63±20.88
6	3.5m	56.8±4.38	96.8±13.08	137.4±22.9	0.07±0.03	4.92±1.37
	5m	61.6±10.04	93.8±16.77	119.4±21	0.15±0.12	9.12±8.05
	6.5m	66.6±10.29	101.4±24.15	144.6±41.51	0.32±0.25	18.42±15.12
	8m	63±3.46	100.75±4.27	136±7.26	0.52±0.3	33.63±18.7
	9.5m	64±3.74	104±5.66	142±5.48	0.63±0.35	41.42±25.73
	11m	66±0	82.72±45.38	146±4.3	1±0.32	63.33±20.08

4

	DV _{.10} (μ m)	DV _{.50} (μ m)	DV _{.90} (μ m)		(%)	/CM ²	(%)
1	61.87±6.67	97.39±5.36	135.88±9.07	0.76±0.06	0.12±0.04	7.69±2.89	65.72±13.94 ab
2	62.82±0.77	97.11±4.87	135.23±11.33	0.74±0.08	0.2±0.19	12.98±11.57	82.87±11.35 a
3	59.87±2.03	94.2±9.65	133.87±19.78	0.78±0.12	0.09±0.03	6.4±2.99	48.44±20.01 bc
4	57.51±2.45	87.39±3.02	127.83±12.33	0.8±0.14	0.09±0.03	7.05±2.15	37.63±9.66 c
5	65.07±3.01	104.5±4.81	167.33±35.81	0.98±0.31	0.37±0.11	23.13±6.77	26.53±4.01 b
6	63.1±3.7	96.83±10.43	137.93±11.63	0.77±0.07	0.41±0.22	26.2±15.03	70.61±26.47 a

	DV _{.10} (μ m)	DV _{.50} (μ m)	DV _{.90} (μ m)		(%)	/CM ²	(%)
1	63.06±5.05	103.15±17.36	145.1±30.83	0.78±0.13	0.12±0.07	7.7±4.39	65.72±13.94 ab
2	62.73±2.67	96.65±6.28	134.34±12.86	0.74±0.06	0.18±0. 2	12.03±11.95	82.87±11.35 a
3	59.87±2.78	94.2±8.2	133.87±12.96	0.78±0.08	0.09±0.05	6.4±3.87	48.44±20.01 bc
4	57.47±3.14	87.65±8.66	128.49±21.13	0.8±0.15	0.09±0.07	7.12±5.49	37.63±9.66 c
5	65.07±2.91	104.5±3.46	167.33±22.64	0.98±0.16	0.37±0.24	23.13±15.13	26.53±4.01 b
6	63±3.56	96.58±7.69	137.57±9.72	0.78±0.11	0.44±0.34	28.47±22.09	70.61±26.47 a

CV	DV _{.50}							
1	16.83	5.5	13.02	61.51	33.33	56.95	37.58	
2	6.50	5.01	8.79	107.55	95	99.30	89.14	
3	8.70	10.24	11.75	63.66	33.33	60.44	46.72	
4	9.88	3.46	20.41	79.87	33.33	77.05	30.5	
5	3.31	4.6	17.88	65.96	29.73	65.41	29.27	
6	7.96	10.77	15.09	77.06	53.66	74.45	57.37	

	DV. ₅₀	90-100 μ m	
	≥ 12	/cm ²	≥ 0.18%
70%			≥ 0.40%
	≥ 26	/cm ²	70% CV
			CV
CV			CV
	CV		
	CV ≤ 9		CV ≤ 15
CV ≤ 65		CV ≤ 80	CV ≤ 60
CV ≤ 75			CV ≤ 40
CV ≤ 60	CV ≤ 40		CV ≤ 60

（六）技术经济论证及预期的经济效果

				3WF-
14G	3WF-20A	6HWF-20	6HYB-25	w
		8		20-
30	/	160-180	/	E-A2020
		15		
		50-60	/	400-480
/				2-
3				
	4		2	
		3		6

1

MH/T 1002.1-2016

2-3

6

			/	