

1.

1972 Griddi-Papp Sabino

Baureihe 230

(institute de Redcherches de Cotton et des

Textiles Exotiques) Gutknecht 가 Baureihe 430

. Spinlab bulletin 107 108

2.

20

(causticaire Index) 63~84

(USDA)

18 가

(U.S. Upland cotton)

(American Pima)

(Peruvian Tanguis)

(Lengupa)

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3.

10

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가 7.25~7.75

50%

2.5%

(span

length)

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2

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4.

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1.5

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TV

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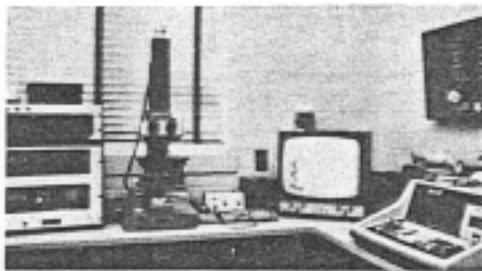
< 1>.

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μm^2

< 2>.

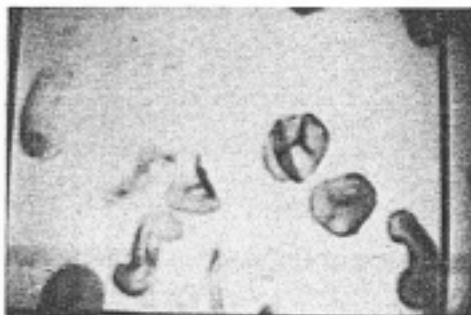
3, 4, 5 가 .



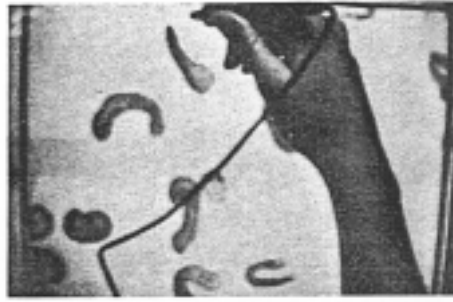
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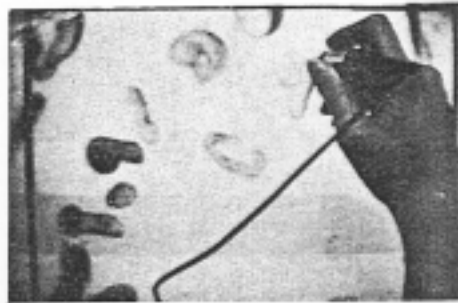
< 2>



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< 4>



< 5>

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5.

20 < 1> .

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$\pi MC :$ μm^2

MI :

FM₁ : %

$$= 172.2 - 1.23\{(A/W)^2 + 0.091(750 - A)\} - 1.3(2.5\%SL) \text{ -----(1)}$$

FM₂ : %

$$= 153 - \{(A/W)^2 + 2(50\%SL)\} \text{ -----(2)}$$

.

(πMC)

(Micronaire; Mic)

(areakometer) A

(areakometer) D

(MI)

(1) - (FM₁)

(1) - (FM₂)

50% (50% SL, mm)

2.5% (2.5% SL, mm)

< 1>

Sample	X-Section ^{1/}		Mic	Arealometer		MI ^{2/}	FM ₁ ^{3/}	FM ₂ ^{4/}	50% SL	2.5% SL
	A	μm^2		A	D					
1	152		5.7	366	27	84	79	80	10.2	20.6
2	150		5.5	370	21	82	80	80	10.2	22.2
3	116		4.6	427	35	80	74	76	12.2	25.6
4	146		5.6	365	20	85	80	81	10.3	22.8
5	130		4.3	452	40	78	72	74	10.2	22.5
6	89		3.2	559	48	74	64	71	13.2	29.8
7	108		2.9	606	103	63	58	65	9.7	23.9
8	87		3.5	520	45	75	65	71	12.3	27.8
9	137		5.0	396	28	80	73	76	11.1	24.7
10	139		4.7	416	33	79	75	77	10.3	23.7
11	105		3.4	537	52	72	62	69	10.7	26.1
12	123		4.5	432	32	79	76	78	12.4	27.1
13	144		5.0	394	33	81	79	81	12.1	26.4
14	134		4.6	425	35	79	77	79	10.2	22.2
15	122		3.8	492	53	76	70	73	12.2	26.4
16	150		4.7	417	39	78	78	79	9.9	21.0
17	152		5.1	396	30	80	78	80	11.8	26.7
18	92		2.7	635	84	65	54	62	11.3	27.3
19	127		4.6	427	35	78	74	78	11.5	26.7
20	129		4.6	417	26	80	77	80	10.9	25.2
$\bar{X}$	126		4.4	452	41	77	72	75	11.1	24.9

20

87 μm^2

152 μm^2

가

6, 7, 8

가

7 6 8 ,
가 .

6 8 (Elpaso) (Acala) 1517

2.7~5.7,

63~84 .

< 2>

	: FM ₁	: FM ₂	: πMC	: 50%	: 2.5%	: Mic	: A	: D
MI	.933	.936	.738	-0.017	-0.497	.929		
FM ₁	1.000	.990	.827	-0.156	-0.586	.946		
FM ₂		1.000	.830	-0.096	-0.533	.971		
πMC			1.000	-0.558	-0.778	.739		
50%				1.000	0.864	-.261		
2.5%					1.000	-.636		
Mic						1.000		
A								
D								

< 2> 20 .

< 2> .

/ = 0.74(6)

/ 1(FM₁) = 0.83(7)

/ = 0.93(8)

- (B) .

$$FM\% = 172.2 - 123. \left\{ \frac{A^2}{W} + 0.0919750 - A \right\} - 1.3(2.5\%SL) \text{-----}(3)$$

A= (V)×100

W : (mg) ×100

2 .

$$FM\% = 153 - \left[\frac{A^2}{W} + 2(50\%SL) \right] \text{-----(4)}$$

1976

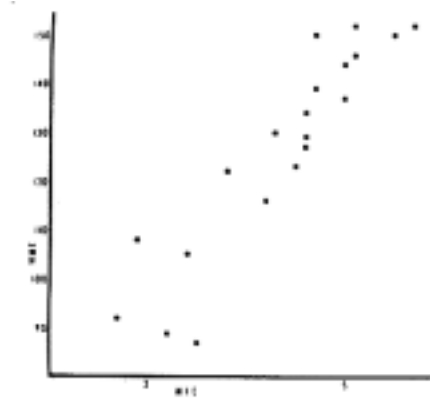
M.

Preysch가

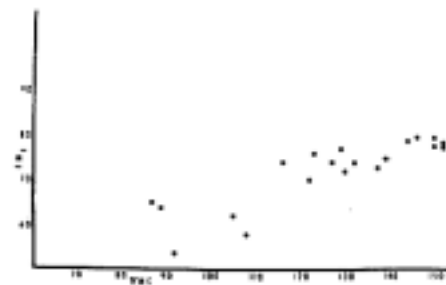
(3) (4)

가 0.97 가

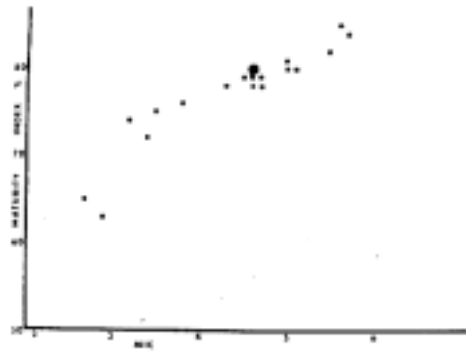
.(9)



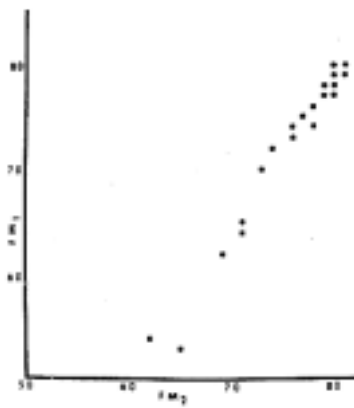
< 6> /



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가

$$(4) FM_2 / = 0.94$$

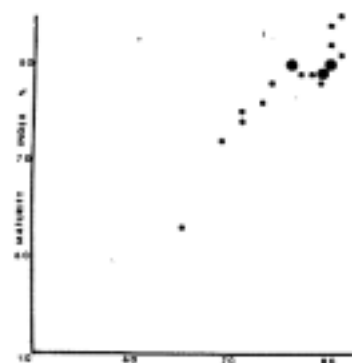
$$/ = 0.74(11)$$

$$(4) FM_2 / = 0.83(12)$$

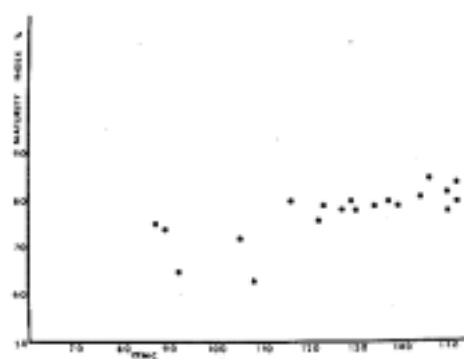
$$/ = 0.93$$

$$(4) FM_2 / = 0.89(13)$$

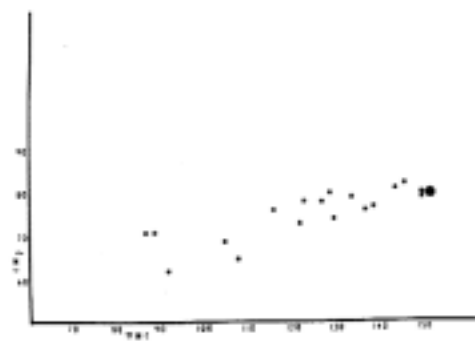
가 < 4>



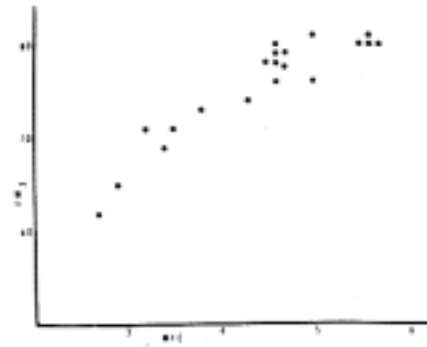
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< 13>

< 3> 18 가

Sample	WMC X-Section A μm^2	Mic	Arealometer A	D	MI ^{2/}	FM ₁ ^{3/}	FM ₂ ^{4/}	50% SL mm	2.5% SL mm
21	133	5.4	364	19	85	85	82	12.3	23.6
22	109	4.2	437	24	77	74	77	11.4	25.5
23	107	4.0	454	30	75	71	76	11.1	25.4
24	102	3.4	510	46	66	68	72	10.5	23.9
25	77	3.4	513	32	75	65	70	14.5	32.3
26	117	4.0	464	35	79	72	76	13.2	29.2
27	126	4.8	416	33	81	82	82	12.3	26.3
28	118	3.8	467	36	76	71	74	11.2	26.1
29	122	4.3	442	31	79	71	75	11.4	25.9
30	121	5.2	382	22	86	84	82	12.3	24.7
31	110	4.6	405	21	82	80	79	12.2	25.3
32	120	5.4	381	27	84	86	89	13.8	32.5
33	192	6.8	321	23	89	93	89	12.8	25.1
34	120	4.2	423	26	79	76	80	11.6	25.0
35	108	3.9	466	37	75	73	78	14.3	31.5
36	92	2.8	559	56	60	63	71	10.2	25.8
37	109	3.2	521	46	71	65	73	10.4	26.5
38	96	3.0	538	48	64	61	69	9.8	25.6
$\bar{X}$	116	4.2	447	33	77	75	77	12.0	26.7

< 4> 21~38

	FM ₁	FM ₂	WMC	50%	2.5%	Mic	A	D
MI	.891	.838	.679	.603	.120	.900	-0.940	-0.907
FM ₁	1.000	.967	.799	.465	-.097	.971	-0.971	-0.791
FM ₂		1.000	.775	.468	.032	.931	-0.921	-0.702
WMC			1.000	.155	-.292	.859	-0.792	-0.498
50%				1.000	.734	.450	-0.440	-0.511
2.5%					1.000	-.100	0.143	-0.064
Mic						1.000	-0.969	-0.789
A							1.000	0.889
D								1.000

25

. 18

π MC : μm^2

MI :

FM₁ : %

$$= 172.2 - 1.23\{(A/W)^2 + 0.091(750 - A)\} - 1.2(2.5\%SL) \text{ -----(1)}$$

FM₂ : %

$$= 153 - \{(A/W)^2 + 2(50\%SL)\} \text{ -----(2)}$$

$$/ = 0.90$$

$$/ = 0.68$$

$$/ = 0.86$$

가 가

0.80 0.87

가 .

가 . (3) (4)

0.97 0.93 가

가

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4%

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1~5

6~10

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2%

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Baureihe 430

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