

Cotton Contamination Surveys 2007•2009•2011•2013•2016•2019

INTERNATIONAL TEXTILE MANUFACTURERS FEDERATION FÉDÉRATION INTERNATIONALE DES INDUSTRIES TEXTILES INTERNATIONALE VEREINIGUNG DER TEXTILINDUSTRIE



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Foreword

In an effort to shed light on spinners' perception of the problem of cotton contamination and foreign matter, the International Textile Manufacturers Federation (ITMF) has conducted regular surveys since 1982 with spinning mills affiliated to its world-wide membership.

For decades, spinners have produced evidence of all kinds of foreign matter found inside cotton bales which could often be eliminated by hand as long as spinning was still largely a labour-intensive processing technology. Following the extensive modernization of production equipment in recent years, processing steps which previously required the intervention of manual labour are increasingly performed by machines. The trend towards automation in textile manufacturing is not limited to any particular geographical area and will gain further momentum in the years to come.

The biggest problem which automation presents for cotton relates to cleanliness. Automated equipment can detect and eliminate contamination or foreign matter only to a limited degree. In the case of plastic material - one of the most vicious forms of contamination - the damage is becoming visible only by the time the fabric leaves the final finishing process, at which stage it is too late to apply any remedy. It is not only affecting the quality and appearance of the final textile product but may actually damage the processing machinery itself.

By accumulating evidence of contamination and foreign matter at regular intervals, ITMF helps cotton producers, merchants and spinners to better identify problem areas and thus contribute towards their eradication.

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Survey conducted and distributed by

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Methodology

The data used in the survey have been collected by means of a questionnaire which gave spinning companies the possibility of evaluating virtually all cotton descriptions (i.e. combinations of country of origin and name of growth) consumed and traded internationally. An excerpt of the questionnaire showing its legend and four of the pre-indicated descriptions is reproduced on the following page.

It is important to point out some methodological aspects and underlying assumptions before reading the results of the survey.

For each description, participating companies (respondents) were asked to indicate whether or not they had consumed that particular description. This has been done in an attempt to avoid respondents inadvertently "forgetting" descriptions which had been consumed but were not found to be contaminated.

The basic statistical unit (the sample) of this survey is a mill's evaluation of a given description which it had consumed during the last 12 months. It is assumed that no description by the average mill has been consumed to a distorting degree, i.e. in much larger/smaller quantities than each of the other descriptions reported on. If this were not the case, sources of contamination appearing in a discrete, i.e. discontinuous fashion (e.g. metal/wire) might in this survey make descriptions consumed in larger quantities appear "worse" than descriptions consumed in smaller quantities. Nevertheless, in order to technically prevent such a possible bias from having an undue impact on the final results, no distinction has been made between "non-existent" and "insignificant" contamination, the underlying assumption being that respondents who have experienced discrete contamination in a much used description would be inclined to consider it insignificant in relation to the volume consumed.

In the weighting of the 16 sources of contamination, these are all assumed to be equally serious. It is, therefore, important to note that the key summary indicators for each description (the averages of all 16 contaminants combined) are calculated only for the purpose of facilitating general comparisons between different descriptions. Thus, for instance, a low average percentage figure under the category "seriously contaminated" in the summary indicator for a description does not exclude that description from being seriously contaminated by one of the 16 sources indicated. The latter would, however, be clearly visible from the individual table for the description in question.

Moreover, in the introductory summary tables, in which comparisons are made between different descriptions, the ranking has basically been made according to the percentages of replies falling into the category "non-existent/insignificant". However, descriptions with an identical percentage of replies falling into this category have been further ranked according to the percentages of replies falling into the category "serious". In the same summary tables showing a ranking of descriptions, only those descriptions which have been evaluated by at least five respondents have been included.

Finally, concerning stickiness and seed-coat fragments, there do not seem to be any methodologically critical points in the rather simple approach to those two questions in the survey.

Continent			AFI	RICA	
Country		Ethiopia	Ghana	Ivory Coast	Kenya
Growth		Ethiopia	Ghana	Ivory Coast	Kenya
	escription whether you have option during last 12 months	No Yes	No Yes	No Yes	No Yes
whether contamination	eription you have consumed in by the following sources was ent / insignificant (I), moderate	If con	sumed, please co	mplete the <u>entire</u> o	column!
Fabrics made of	woven plastic				
	plastic film				
	jute/hessian				
	cotton				
Strings made of	woven plastic				
	plastic film				
	jute/hessian				
	cotton				
Organic matter	leaves, feathers, paper, leather, etc.				
Inorganic matter	sand/dust				
	rust				
	metal/wire				
Oily substances / chemicals	grease/oil				
	rubber				
	stamp colour				
	tar				
	ou have consumed state erienced stickiness during last	No Yes □ □	No Yes	No Yes	No Yes
For each description you have consumed state whether you have encountered seed-coat fragments during last 12 months		No Yes	No Yes	No Yes	No Yes

Contamination

Fig. 1: Contamination 1989 – 2019

% of all cottons evaluated

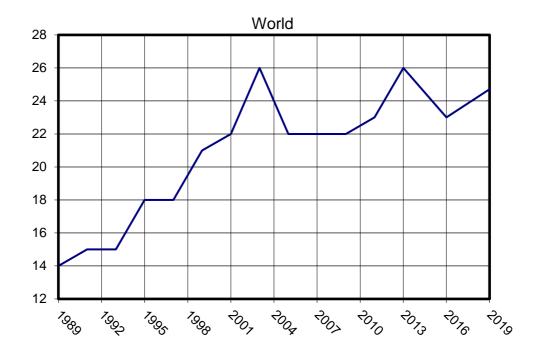
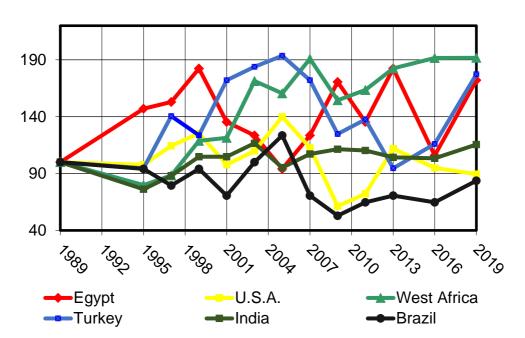


Fig. 2: Contamination by Country 1989 – 2019

1989 = 100



Stickiness

Fig. 3: Stickiness 1989 - 2019

% of all cottons evaluated

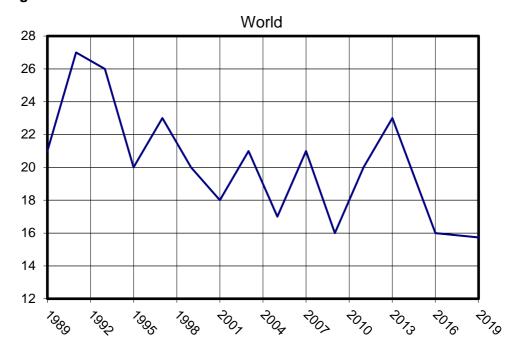
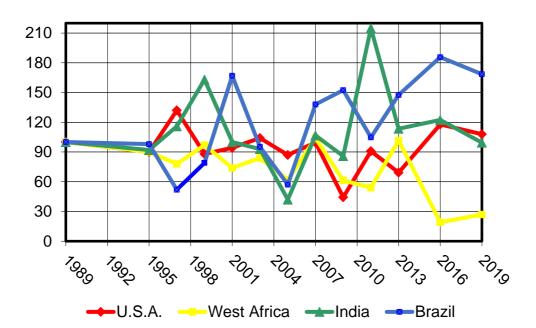


Fig. 4: Stickiness by Country 1989 – 2019

1989 = 100



1991 = 100

Seed-coat Fragments

Fig. 5: Seed-coat Fragments 1991 - 2019 % of all cottons evaluated

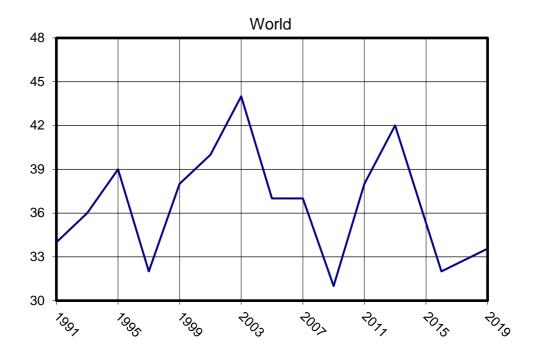
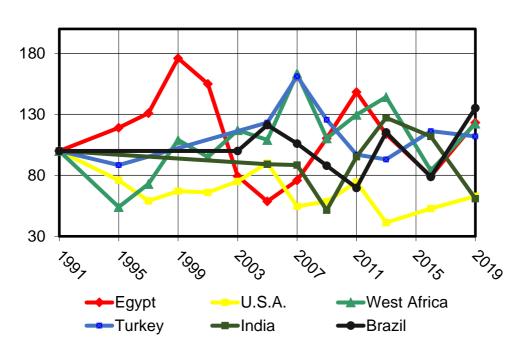


Fig. 6 Seed-coat Fragments by Country 1991 - 2019



Press Release

Summary of Survey Results 2007

Foreign matter, stickiness and seed-coat fragments in raw cotton continue to be serious challenges to the cotton spinning industry worldwide. This is the general conclusion to be drawn from the "Cotton Contamination Survey 2007" which has just been released by the International Textile manufacturers Federation (ITMF). The survey is carried out every other year, the 2007 edition being the tenth in the series since the changeover to a new methodology in 1989. In the 2007 report, 114 spinning mills located in 23 countries evaluated 72 different cotton growths.

Contamination -- unchanged in comparison to 2005

The level of cottons modestly or seriously contaminated as perceived by the spinning mills from around the world did not increase compared to the last survey in 2005 remaining constant at 22%. A closer look at the extent of the contamination shows that 7% (2005: 7%) of all cotton evaluated were seriously contaminated by some sort of foreign matter whereas 15% (2005: 15%) were only moderately contaminated. As the summary data are arithmetic averages, the extent of contamination is fully illustrated only by the results for the individual contaminants. They range from 5% for "tar" (2005: 5%) to 40% of all cottons processed being contaminated by organic matter, i.e. leaves, feathers, paper, leather, etc. (2005: 40%). With respect to the extent of contamination through "organic matter" it is worthwhile noting that the degree of contamination increased nevertheless due to the fact that more cottons were affected seriously (2007: 13% versus 2005: 8%) and less moderately (2007:27% versus 2005: 32%) compared to the last survey. Other serious contaminants are fabrics made of plastic film or cotton (30% each) and strings made of plastic film or jute/hessian (29% each). The most contaminated cotton descriptions originated in India, Togo, Turkey, Mali and Uzbekistan. In contrast, very clean raw cottons were produced in the USA (Memphis, Texas High Plains, Others, South Eastern, California, Pima), Australia, Israel, Brazil and Cameroon.

Stickiness - on the rise again

The presence of sticky cotton as perceived by the spinning mills increased in 2007 to 21% after haven fallen to 17% in 2005, the lowest level since 1989. This level of stickiness is in line with the long-term average and shows that stickiness remains a major challenge to the spinning industry. Descriptions that were affected most by stickiness were those from Benin, Cameroon and Uzbekistan (medium staples). Also US cotton growths like USA-Others, Pima and California were reported to be sticky. On the other hand, cottons from Greece, India (H-4 and Others), Turkey (Izmir), Egypt (Giza) or Zimbabwe as well as US cotton growths like South Eastern or Texas High Plains were not or hardly affected by stickiness.

Seed-coat fragments -- remained on the long-term average

With regard to seed-coat fragments the Cotton Contamination Survey 2007 shows that theirappearance in cotton growths remained an issue for the spinners around the world with 37% claiming that they have encountered them in the cotton growths consumed. This is the same levelas reached in 2005 and is equivalent to the long-term average. The origins affected most byseed-coat fragments are those from India (LRA, J-34, Others), Uzbekistan (medium staples), Chad, Benin, Turkmenistan (medium staples) and Ivory Cost. Cotton descriptions for which the existence of seed-coat fragments was negligible (prevalence of less than 25%) included those from the US(Texas High Plains, California, Arizona, Others, Pima), Australia, Egypt (Giza), Greece and Came-roon.

January 2008

Participation

Table I

Country	Number of respondents (participating companies)	Number of samples (evaluations)	Number of cotton growths evaluated*
Argentina	1	2	2
Bangladesh	1	12	12
Belgium	4	42	18
Brazil	8	21	11
Czech Republic	2	12	11
Egypt	21	21	1
Germany	5	35	16
Greece	1	2	2
India	15	65	16
Indonesia	5	49	25
Italy	5	33	18
Japan	6	50	20
Kenya	2	4	3
Korea Rep.	5	46	19
Nigeria	1	1	1
South Africa	1	6	6
Spain	3	6	4
Switzerland	2	8	7
Taiwan, ROC	4	33	18
Thailand	1	17	17
Turkey	10	54	27
Uganda	1	1	1
USA	10	32	9
Total	114	552	-

^{* 72} different cotton descriptions have been evaluated.

Main Results

Table IIa 2007

AllCountries/AllGrowths			Numb	Number of Samples: 552			
		Degree	Degree of contamination (%)				
So	Source of contamination			Moderate	Serious		
1	Fabrics made of	woven plastic	77	17	6		
2		plastic film	70	20	10		
3		jute/hessian	73	17	10		
4		cotton	70	19	11		
5	Strings made of	woven plastic	75	16	9		
6		plastic film	71	18	11		
7		jute/hessian	71	17	12		
8		cotton	74	14	12		
9	Organic matter	leaves,feathers,paper,leather,etc.	60	27	13		
10	Inorganic matter	sand/dust	75	18	7		
11		rust	87	9	4		
12		metal/wire	83	13	4		
13	Oily substances/chemicals	grease/oil	83	15	2		
14		rubber	91	8	1		
15		stamp colour	89	8	3		
16		tar	95	3	2		
Αv	erage of1-16		78	15	7		
Sti	ckiness No (* 79	21	at fragments	No (%) Yo	es (%) 37		

TableIIb 2007

	Deg	ree of contaminatio	n (%)		Seed-coa
Year	Non- existent/ insignificant	Moderate	Serious	Stickiness (%)	fragments (%)
1989	86	9	5	21	-
1991	85	11	4	27	34
1993	85	11	4	26	36
1995	82	13	5	20	39
1997	82	13	5	23	32
1999	79	15	6	20	38
2001	78	16	6	18	40
2003	73	18	8	21	44
2005	78	15	7	17	37
2007	78	15	7	21	37

Contamination

Table IIIa 2007

The Most Contaminated Descriptions								
	Degree of contamination (%)*							
Ranking	Description		Non- existent/ insignificant	Moderate	Serious	Number of samples**		
1.	India	LRA	45	31	24	5		
2.	India	MCU-5	54	23	23	13		
3.	India	J-34	56	19	25	13		
4.	India	Shankar-4/6	58	26	16	24		
5.	India	H-4	58	29	13	12		
6.	India	India-Others	60	22	18	12		
7.	Togo	Togo	67	28	5	6		
8.	Turkey	Izmir	68	15	17	6		
9.	Mali	Mali	69	22	9	18		
10.	Uzbekistan	Medium Staples	69	23	8	20		
11.	Ivory Coast	Ivory Coast	74	18	8	10		
12.	Greece	Greece	76	19	5	17		
13.	USA	Arizona	77	19	4	5		
14.	Burkina Faso	Burkina Faso	79	9	12	18		
15.	Egypt	Giza	79	14	7	41		
16.	Turkmenistan	Medium Staples	80	18	2	8		

 $^{^{\}star}$ Average degree of contamination by $\it each$ of the 16 pre-indicated contaminants ** Minimum: 5 samples

Contamination

TableIIIb 2007

The Least Contaminated Descriptions							
	Degree of contamination (%)*						
Ranking	Description		Non- existent/ insignificant	Moderate	Serious	Number of samples**	
1.	USA	Memphis Territory	94	5	1	29	
2.	USA	Texas High Plains	93	7	0	21	
3.	Australia	Australia	93	6	1	19	
4.	USA	USA-Others	93	6	1	9	
5.	USA	South Eastern	92	7	1	12	
6.	Israel	Pima	91	9	0	7	
7.	USA	California	88	11	1	18	
8.	Brazil	Brazil	88	10	2	34	
9.	Cameroon	Cameroon	88	6	6	8	
10.	USA	Pima	85	14	1	25	
11.	Zimbabwe	Zimbabwe	85	10	5	11	
12.	Chad	Chad	84	16	0	8	
13.	Spain	Spain	84	13	3	8	
14.	Benin	Benin	84	12	4	10	
15.	Tajikistan	Medium Staples	84	12	4	10	
16.	Syria	Syria	83	15	2	9	

 $^{^{\}star}$ $\,$ Average degree of contamination by $\it each$ of the 16 pre-indicated contaminants ** Minimum: 5 samples

Stickiness

Table IVa 2007

	•	ed by Stickiness			
Ranking	Description		Affirmative replies (%)*	Number of samples**	
1.	Benin	Benin	60	10	
2.	Cameroon	Cameroon	50	8	
3.	Uzbekistan	Medium Staples	40	20	
4.	Burkina Faso	Burkina Faso	33	18	
5.	Mali	Mali	33	18	
6.	USA	USA-Others	33	9	
7.	USA	Pima	32	25	
8.	India	J-34	31	13	
9.	Brazil	Brazil	29	34	
10.	USA	California	28	18	
11.	Chad	Chad	25	8	
12.	Syria	Syria	22	9	
13.	Australia	Australia	21	19	
14.	Ivory Coast	Ivory Coast	20	10	
15.	India	LRA	20	5	
16.	USA	Arizona	20	5	

^{*} Percentage of replies indicating the existence of stickiness ** Minimum: 5 samples

Stickiness

Table IVb 2007

Ranking		Description	Affirmative replies (%)*	Number of samples**
1.	Greece	Greece	0	17
2.	India	H-4	0	12
3.	Turkey	Izmir	0	6
4.	Egypt	Giza	2	41
5.	India	India-Others	8	12
6.	USA	South Eastern	8	12
7.	Zimbabwe	Zimbabwe	9	11
8.	USA	Texas High Plains	10	21
9.	Tajikistan	Medium Staples	10	10
10.	Spain	Spain	12	8
11.	Turkmenistan	Medium Staples	12	8
12.	Israel	Pima	14	7
13.	India	MCU-5	15	13
14.	USA	Memphis Territory	17	29
15.	India	Shankar-4/6	17	24
16.	Togo	Togo	17	6

^{*} Percentage of replies indicating the existence of stickiness ** Minimum: 5 samples

Seed-coat Fragments

Table Va 2007

Ranking		Description	Affirmative replies (%)*	Number of samples**
1.	India	LRA	80	5
2.	Uzbekistan	Medium Staples	75	20
3.	Chad	Chad	75	8
4.	Benin	Benin	70	10
5.	India	J-34	69	13
6.	India	India-Others	67	12
7.	Turkmenistan	Medium Staples	62	8
8.	Ivory Coast	Ivory Coast	60	10
9.	Israel	Pima	57	7
10.	Zimbabwe	Zimbabwe	55	11
11.	India	MCU-5	54	13
12.	Tajikistan	Medium Staples	50	10
13.	Mali	Mali	44	18
14.	Syria	Syria	44	9
15.	USA	Memphis Territory	38	29
16.	Spain	Spain	37	8

 $^{^\}star$ Percentage of replies indicating the existence of seed-coat fragments ** Minimum: 5 samples

Seed-coat Fragments

Table Vb 2007

Ranking	Description		Affirmative replies (%)*	Number of samples**
1.	USA	Texas High Plains	5	21
2.	Australia	Australia	11	19
3.	USA	California	11	18
4.	USA	Arizona	20	5
5.	Egypt	Giza	22	41
6.	USA	USA-Others	22	9
7.	USA	Pima	24	25
8.	Greece	Greece	24	17
9.	Cameroon	Cameroon	25	8
10.	Burkina Faso	Burkina Faso	28	18
11.	India	Shankar-4/6	29	24
12.	India	H-4	33	12
13.	USA	South Eastern	33	12
14.	Togo	Togo	33	6
15.	Turkey	Izmir	33	6
16.	Brazil	Brazil	35	34

^{*} Percentage of replies indicating the existence of seed-coat fragments ** Minimum: 5 samples

Table 1 2007

Country: Benin	Growth: Benin		Number of Sar	nples: 10
		Degree	of contamina	tion (%)
Source of contamination		Non- existent/ insignificant	Moderate	Serious
1 Fabrics made of	- woven plastic	100	0	0
2	- plastic film	90	0	10
3	- jute/hessian	90	10	0
4	- cotton	50	30	20
5 Strings made of	- woven plastic	90	10	0
6	- plastic film	80	10	10
7	- jute/hessian	90	10	0
8	- cotton	60	20	20
9 Organic matter	- leaves, feathers, paper, leathere	70	30	0
10 Inorganic matter	- sand/dust	60	30	10
11	- rust	80	20	0
12	- metal/wire	100	0	0
13 Oily substances/chemicals	- grease/oil	80	20	0
14	- rubber	100	0	0
15	- stamp colour	100	0	0
16	- tar	100	0	0
Average of 1-16		84	12	4
Stickiness	No(%) Yes(%) 40 60	Seed-coat fragn	No(%	

Table 2 2007

Country: Burkina Faso	Growth: Burkina Fa	aso	Number of Samples: 1		
		Degree	Degree of contamination (%)		
Source of contamination		Non- existent/ insignificant	Moderate	Serious	
1 Fabrics made of	- woven plastic	83	6	11	
2	- plastic film	78	11	11	
3	- jute/hessian	78	11	11	
4	- cotton	61	17	22	
5 Strings made of	- woven plastic	78	11	11	
6	- plastic film	61	17	22	
7	- jute/hessian	88	6	6	
8	- cotton	66	6	28	
9 Organic matter	- leaves, feathers, paper, leathere	72	11	17	
10 Inorganic matter	- sand/dust	61	28	11	
11	- rust	88	6	6	
12	- metal/wire	83	6	11	
13 Oily substances/chemicals	- grease/oil	78	11	11	
14	- rubber	94	0	6	
15	- stamp colour	94	0	6	
16	- tar	94	0	6	
Average of 1-16		79	9	12	
Stickiness	No(%) Yes(%) 67 33	Seed-coat fragm	No(%	o) Yes(%) 28	

Table 3 2007

Country: Burundi	Growth: Burundi	Number of Samples:		
		Degree	of contamin	ation (%)
Source of contamination		Non- existent/ insignificant	Moderate	Serious
1 Fabrics made of	- woven plastic	0	0	100
2	- plastic film	0	0	100
3	- jute/hessian	0	0	100
4	- cotton	0	0	100
5 Strings made of	- woven plastic	0	0	100
6	- plastic film	0	0	100
7	- jute/hessian	0	0	100
8	- cotton	0	0	100
9 Organic matter	- leaves, feathers, paper, leathere	0	0	100
10 Inorganic matter	- sand/dust	100	0	0
11	- rust	100	0	0
12	- metal/wire	0	100	0
13 Oily substances/chemicals	- grease/oil	0	100	0
14	- rubber	100	0	0
15	- stamp colour	100	0	0
16	- tar	100	0	0
Average of 1-16		31	13	56
Stickiness	No(%) Yes(%) 100 0	Seed-coat fragn	40	(%) Yes(%) 0 0

Table 4 2007

Country: C. A. Republic	Growth: Central Af	rican Rep N	lumber of Sam	ples:
		Degree	of contaminati	ion (%)
Source of contamination		Non- existent/ insignificant	Moderate	Serious
1 Fabrics made of	- woven plastic	100	0	0
2	- plastic film	100	0	0
3	- jute/hessian	100	0	0
4	- cotton	100	0	0
5 Strings made of	- woven plastic	100	0	0
6	- plastic film	100	0	0
7	- jute/hessian	100	0	0
8	- cotton	100	0	0
9 Organic matter	- leaves, feathers, paper, leathere	100	0	0
10 Inorganic matter	- sand/dust	100	0	0
11	- rust	100	0	0
12	- metal/wire	100	0	0
13 Oily substances/chemicals	- grease/oil	100	0	0
14	- rubber	100	0	0
15	- stamp colour	100	0	0
16	- tar	100	0	0
Average of 1-16		100	0	0
Stickiness	No(%) Yes(%) 50 50	Seed-coat fragm	No(% ents 100	o) Yes(%) 0

Table 5 2007

Country: Cameroon	Growth: Cameroor	Number of Samples:		
		Degree	of contaminati	on (%)
Source of contamination		Non- existent/ insignificant	Moderate	Serious
1 Fabrics made of	- woven plastic	87	0	13
2	- plastic film	87	13	0
3	- jute/hessian	74	13	13
4	- cotton	74	13	13
5 Strings made of	- woven plastic	100	0	0
6	- plastic film	87	13	0
7	- jute/hessian	87	0	13
8	- cotton	74	13	13
9 Organic matter	- leaves, feathers, paper, leathere	62	25	13
10 Inorganic matter	- sand/dust	87	0	13
11	- rust	100	0	0
12	- metal/wire	87	0	13
13 Oily substances/chemicals	- grease/oil	87	13	0
14	- rubber	100	0	0
15	- stamp colour	100	0	0
16	- tar	100	0	0
Average of 1-16		87	6	7
Stickiness	No(%) Yes(%) 50 50	Seed-coat fragn	No(%	%) Yes(%) 25

Table 6 2007

Country: Chad	Growth: Chad		nples:		
		Degree	Degree of contamination (%)		
Source of contamination		Non- existent/ insignificant	Moderate	Serious	
1 Fabrics made of	- woven plastic	87	13	0	
2	- plastic film	50	50	0	
3	- jute/hessian	100	0	0	
4	- cotton	75	25	0	
5 Strings made of	- woven plastic	75	25	0	
6	- plastic film	87	13	0	
7	- jute/hessian	87	13	0	
8	- cotton	75	25	0	
9 Organic matter	- leaves, feathers, paper, leathere	62	38	0	
10 Inorganic matter	- sand/dust	75	25	0	
11	- rust	100	0	0	
12	- metal/wire	100	0	0	
13 Oily substances/chemicals	- grease/oil	75	25	0	
14	- rubber	87	13	0	
15	- stamp colour	100	0	0	
16	- tar	100	0	0	
Average of 1-16		83	17	0	
Stickiness	No(%) Yes(%) 75 25	Seed-coat fragn	No(% nents 25	%) Yes(%) 75	

Table 7 2007

Country: Egypt	Growth: Egypt-Oth	ers	Number of Sam	nples:
		Degree	of contaminat	ion (%)
Source of contamination		Non- existent/ insignificant	Moderate	Serious
1 Fabrics made of	- woven plastic	100	0	0
2	- plastic film	100	0	0
3	- jute/hessian	100	0	0
4	- cotton	0	0	100
5 Strings made of	- woven plastic	100	0	0
6	- plastic film	100	0	0
7	- jute/hessian	100	0	0
8	- cotton	0	0	100
9 Organic matter	- leaves, feathers, paper, leathere	100	0	0
10 Inorganic matter	- sand/dust	100	0	0
11	- rust	100	0	0
12	- metal/wire	100	0	0
13 Oily substances/chemicals	- grease/oil	100	0	0
14	- rubber	100	0	0
15	- stamp colour	100	0	0
16	- tar	100	0	0
Average of 1-16		87	0	13
Stickiness	No(%) Yes(%) 100 0	Seed-coat fragn	No(% 100	b) Yes(%) 0

Table 8 2007

Country: Egypt	Growth: Giza		Number of San	nples: 41	
		Degree	e of contamination (%)		
Source of contamination		Non- existent/ insignificant	Moderate	Serious	
1 Fabrics made of	- woven plastic	78	17	5	
2	- plastic film	75	20	5	
3	- jute/hessian	65	20	15	
4	- cotton	73	20	7	
5 Strings made of	- woven plastic	78	12	10	
6	- plastic film	71	17	12	
7	- jute/hessian	68	10	22	
8	- cotton	71	22	7	
9 Organic matter	- leaves, feathers, paper, leathere	70	20	10	
10 Inorganic matter	- sand/dust	81	12	7	
11	- rust	85	15	0	
12	- metal/wire	83	15	2	
13 Oily substances/chemicals	- grease/oil	88	10	2	
14	- rubber	96	2	2	
15	- stamp colour	85	5	10	
16	- tar	96	2	2	
Average of 1-16		79	14	7	
Stickiness	No(%) Yes(%) 98 2	Seed-coat fragm	No(% 78	%) Yes(%) 22	

Table 9 2007

Country: Ghana	Growth: Ghana		Number of Sar	nples:
		Degree	of contamina	tion (%)
Source of contamination		Non- existent/ insignificant	Moderate	Serious
1 Fabrics made of	- woven plastic	100	0	0
2	- plastic film	100	0	0
3	- jute/hessian	0	100	0
4	- cotton	0	0	100
5 Strings made of	- woven plastic	100	0	0
6	- plastic film	100	0	0
7	- jute/hessian	0	0	100
8	- cotton	0	100	0
9 Organic matter	- leaves, feathers, paper, leathere	0	0	100
10 Inorganic matter	- sand/dust	100	0	0
11	- rust	100	0	0
12	- metal/wire	100	0	0
13 Oily substances/chemicals	- grease/oil	100	0	0
14	- rubber	100	0	0
15	- stamp colour	100	0	0
16	- tar	100	0	0
Average of 1-16		68	13	19
Stickiness	No(%) Yes(%) 100 0	Seed-coat fragn	nents No(9	

Table 10 2007

Country: Ivory Coast	Growth: Ivory Coas	st	Number of Samples:		
		Degree	of contaminati	on (%)	
Source of contamination		Non- existent/ insignificant	Moderate	Serious	
1 Fabrics made of	- woven plastic	80	10	10	
2	- plastic film	70	20	10	
3	- jute/hessian	90	0	10	
4	- cotton	50	30	20	
5 Strings made of	- woven plastic	70	20	10	
6	- plastic film	60	20	20	
7	- jute/hessian	80	10	10	
8	- cotton	60	20	20	
9 Organic matter	- leaves, feathers, paper, leathere	50	50	0	
10 Inorganic matter	- sand/dust	70	20	10	
11	- rust	70	30	0	
12	- metal/wire	90	10	0	
13 Oily substances/chemicals	- grease/oil	80	20	0	
14	- rubber	90	10	0	
15	- stamp colour	90	10	0	
16	- tar	100	0	0	
Average of 1-16		74	18	8	
Stickiness	No(%) Yes(%) 80 20	Seed-coat fragm	No(%	s) Yes(%) 60	

Table 11 2007

Country: Kenya	Growth: Kenya		Number of San	nples: 2
		Degree	of contaminat	ion(%)
Source of contamination		Non- existent/ insignificant	Moderate	Serious
1 Fabrics made of	- woven plastic	50	50	0
2	- plastic film	50	50	0
3	- jute/hessian	50	50	0
4	- cotton	50	0	50
5 Strings made of	- woven plastic	50	50	0
6	- plastic film	50	50	0
7	- jute/hessian	50	50	0
8	- cotton	50	0	50
9 Organic matter	- leaves, feathers, paper, leathere	50	50	0
10 Inorganic matter	- sand/dust	0	100	0
11	- rust	100	0	0
12	- metal/wire	100	0	0
13 Oily substances/chemicals	- grease/oil	100	0	0
14	- rubber	100	0	0
15	- stamp colour	100	0	0
16	- tar	100	0	0
Average of 1-16		66	28	6
Stickiness	No(%) Yes(%) 100 0	Seed-coat fragn	No(% 50	%) Yes(%) 50

Table 12 2007

Country: Malawi	Growth: Malawi		Number of Samples:		
		Degree	Degree of contamination (%)		
Source of contamination		Non- existent/ insignificant	Moderate	Serious	
1 Fabrics made of	- woven plastic	100	0	0	
2	- plastic film	100	0	0	
3	- jute/hessian	100	0	0	
4	- cotton	100	0	0	
5 Strings made of	- woven plastic	100	0	0	
6	- plastic film	100	0	0	
7	- jute/hessian	0	100	0	
8	- cotton	100	0	0	
9 Organic matter	- leaves, feathers, paper, leathere	0	100	0	
10 Inorganic matter	- sand/dust	100	0	0	
11	- rust	100	0	0	
12	- metal/wire	100	0	0	
13 Oily substances/chemicals	- grease/oil	100	0	0	
14	- rubber	100	0	0	
15	- stamp colour	100	0	0	
16	- tar	100	0	0	
Average of 1-16		87	13	0	
Stickiness	No(%) Yes(%) 100 0	Seed-coat fragm	No(nents 100		

Table 13 2007

Country: Mali	Growth: Mali		nples: 18	
		Degree	of contaminat	ion (%)
Source of contamination		Non- existent/ insignificant	Moderate	Serious
1 Fabrics made of	- woven plastic	67	22	11
2	- plastic film	55	28	17
3	- jute/hessian	61	28	11
4	- cotton	45	44	11
5 Strings made of	- woven plastic	61	22	17
6	- plastic film	61	22	17
7	- jute/hessian	77	17	6
8	- cotton	50	33	17
9 Organic matter	- leaves, feathers, paper, leathere	50	33	17
10 Inorganic matter	- sand/dust	61	28	11
11	- rust	77	17	6
12	- metal/wire	88	6	6
13 Oily substances/chemicals	- grease/oil	77	17	6
14	- rubber	89	11	0
15	- stamp colour	89	11	0
16	- tar	94	6	0
Average of 1-16		68	22	10
Stickiness	No(%) Yes(%) 67 33	Seed-coat fragn	No(%	%) Yes(%) 44

Table 14 2007

Country: Mozambique	Growth: Mozambio	lue '	Number of Sam	ples: 3
		Degree	of contaminati	on (%)
Source of contamination		Non- existent/ insignificant	Moderate	Serious
1 Fabrics made of	- woven plastic	100	0	0
2	- plastic film	100	0	0
3	- jute/hessian	100	0	0
4	- cotton	67	0	33
5 Strings made of	- woven plastic	100	0	0
6	- plastic film	100	0	0
7	- jute/hessian	67	0	33
8	- cotton	67	0	33
9 Organic matter	- leaves, feathers, paper, leathere	100	0	0
10 Inorganic matter	- sand/dust	100	0	0
11	- rust	100	0	0
12	- metal/wire	100	0	0
13 Oily substances/chemicals	- grease/oil	100	0	0
14	- rubber	100	0	0
15	- stamp colour	100	0	0
16	- tar	100	0	0
Average of 1-16		94	0	6
Stickiness	No(%) Yes(%) 67 33	Seed-coat fragm	No(% ents 67	yes(%) 33

Table 15 2007

Country: Nigeria	Growth: Nigeria		Number of San	nples:
		Degree	of contaminat	tion (%)
Source of contamination		Non- existent/ insignificant	Moderate	Serious
1 Fabrics made of	- woven plastic	50	50	0
2	- plastic film	50	25	25
3	- jute/hessian	100	0	0
4	- cotton	50	25	25
5 Strings made of	- woven plastic	50	0	50
6	- plastic film	50	0	50
7	- jute/hessian	100	0	0
8	- cotton	75	25	0
9 Organic matter	- leaves, feathers, paper, leathere	75	0	25
10 Inorganic matter	- sand/dust	0	100	0
11	- rust	75	25	0
12	- metal/wire	100	0	0
13 Oily substances/chemicals	- grease/oil	100	0	0
14	- rubber	75	25	0
15	- stamp colour	100	0	0
16	- tar	100	0	0
Average of 1-16		72	17	11
Stickiness	No(%) Yes(%) 50 50	Seed-coat fragm	No(% 50	%) Yes(%) 50

Table 16 2007

Country: Senegal	Growth: Senegal		nples: 3		
		Degree	of contaminat	mination (%)	
Source of contamination		Non- existent/ insignificant	Moderate	Serious	
1 Fabrics made of	- woven plastic	67	33	0	
2	- plastic film	34	33	33	
3	- jute/hessian	67	33	0	
4	- cotton	67	33	0	
5 Strings made of	- woven plastic	67	33	0	
6	- plastic film	34	33	33	
7	- jute/hessian	67	33	0	
8	- cotton	67	33	0	
9 Organic matter	- leaves, feathers, paper, leathere	33	67	0	
10 Inorganic matter	- sand/dust	33	67	0	
11	- rust	67	33	0	
12	- metal/wire	67	33	0	
13 Oily substances/chemicals	- grease/oil	33	67	0	
14	- rubber	67	33	0	
15	- stamp colour	67	33	0	
16	- tar	67	33	0	
Average of 1-16		57	39	4	
Stickiness	No(%) Yes(%) 67 33	Seed-coat fragm	No(%	%) Yes(%) 33	

Table 17 2007

Country: South Africa	Growth: South Afri	ca	Number of Sam	ples:
		Degree	of contaminati	ion (%)
Source of contamination		Non- existent/ insignificant	Moderate	Serious
1 Fabrics made of	- woven plastic	100	0	0
2	- plastic film	100	0	0
3	- jute/hessian	100	0	0
4	- cotton	100	0	0
5 Strings made of	- woven plastic	100	0	0
6	- plastic film	100	0	0
7	- jute/hessian	100	0	0
8	- cotton	100	0	0
9 Organic matter	- leaves, feathers, paper, leathere	100	0	0
10 Inorganic matter	- sand/dust	100	0	0
11	- rust	100	0	0
12	- metal/wire	100	0	0
13 Oily substances/chemicals	- grease/oil	100	0	0
14	- rubber	100	0	0
15	- stamp colour	100	0	0
16	- tar	100	0	0
Average of 1-16		100	0	0
Stickiness	No(%) Yes(%) 100 0	Seed-coat fragm	No(% 100	b) Yes(%) 0

Table 18 2007

Country: Sudan	Growth: Acala	N	lumber of Sam	iples:
		Degree o	of contaminati	on (%)
Source of contamination		Non- existent/ insignificant	Moderate	Serious
1 Fabrics made of	- woven plastic	100	0	0
2	- plastic film	100	0	0
3	- jute/hessian	100	0	0
4	- cotton	100	0	0
5 Strings made of	- woven plastic	100	0	0
6	- plastic film	100	0	0
7	- jute/hessian	100	0	0
8	- cotton	100	0	0
9 Organic matter	- leaves, feathers, paper, leathere	100	0	0
10 Inorganic matter	- sand/dust	100	0	0
11	- rust	100	0	0
12	- metal/wire	100	0	0
13 Oily substances/chemicals	- grease/oil	100	0	0
14	- rubber	100	0	0
15	- stamp colour	100	0	0
16	- tar	100	0	0
Average of 1-16		100	0	0
Stickiness	No(%) Yes(%) 0 100	Seed-coat fragme	No(% ents 100	o) Yes(%) 0

Table 19 2007

Country: Sudan	Growth: Barakat	Number of Samples:		
		Degree	of contamina	tion (%)
Source of contamination		Non- existent/ insignificant	Moderate	Serious
1 Fabrics made of	- woven plastic	0	75	25
2	- plastic film	25	50	25
3	- jute/hessian	0	100	0
4	- cotton	75	25	0
5 Strings made of	- woven plastic	25	50	25
6	- plastic film	75	0	25
7	- jute/hessian	50	50	0
8	- cotton	75	25	0
9 Organic matter	- leaves, feathers, paper, leathere	25	75	0
10 Inorganic matter	- sand/dust	50	25	25
11	- rust	0	75	25
12	- metal/wire	25	75	0
13 Oily substances/chemicals	- grease/oil	50	50	0
14	- rubber	75	25	0
15	- stamp colour	100	0	0
16	- tar	100	0	0
Average of 1-16		47	44	9
Stickiness	No(%) Yes(%) 25 75	Seed-coat fragn	No(°	

Table 20 2007

Country: Sudan	Growth: Sudan-Otl	ners	Number of Samples:		
		Degree	Degree of contamination (%)		
Source of contamination		Non- existent/ insignificant	Moderate	Serious	
1 Fabrics made of	- woven plastic	0	100	0	
2	- plastic film	0	100	0	
3	- jute/hessian	0	100	0	
4	- cotton	0	100	0	
5 Strings made of	- woven plastic	0	0	100	
6	- plastic film	0	0	100	
7	- jute/hessian	0	0	100	
8	- cotton	100	0	0	
9 Organic matter	- leaves, feathers, paper, leathere	100	0	0	
10 Inorganic matter	- sand/dust	100	0	0	
11	- rust	100	0	0	
12	- metal/wire	0	100	0	
13 Oily substances/chemicals	- grease/oil	100	0	0	
14	- rubber	100	0	0	
15	- stamp colour	100	0	0	
16	- tar	100	0	0	
Average of 1-16		50	31	19	
Stickiness	No(%) Yes(%) 100 0	Seed-coat fragn	No(°		

Table 21 2007

Country: Tanzania	Growth: Coastal		Number of San	nples: 2
		Degree	of contaminat	ion (%)
Source of contamination		Non- existent/ insignificant	Moderate	Serious
1 Fabrics made of	- woven plastic	100	0	0
2	- plastic film	100	0	0
3	- jute/hessian	50	0	50
4	- cotton	100	0	0
5 Strings made of	- woven plastic	100	0	0
6	- plastic film	50	50	0
7	- jute/hessian	50	0	50
8	- cotton	100	0	0
9 Organic matter	- leaves, feathers, paper, leathere	50	0	50
10 Inorganic matter	- sand/dust	50	0	50
11	- rust	100	0	0
12	- metal/wire	50	50	0
13 Oily substances/chemicals	- grease/oil	50	50	0
14	- rubber	100	0	0
15	- stamp colour	100	0	0
16	- tar	100	0	0
Average of 1-16		78	9	13
Stickiness	No(%) Yes(%) 50 50	Seed-coat fragm	No(%	5) Yes(%) 100

Table 22 2007

Country: Tanzania	Growth: Mwanza		mples: 2		
		Degree	Degree of contamination (%)		
Source of contamination		Non- existent/ insignificant	Moderate	Serious	
1 Fabrics made of	- woven plastic	100	0	0	
2	- plastic film	100	0	0	
3	- jute/hessian	100	0	0	
4	- cotton	0	0	100	
5 Strings made of	- woven plastic	100	0	0	
6	- plastic film	100	0	0	
7	- jute/hessian	50	50	0	
8	- cotton	0	50	50	
9 Organic matter	- leaves, feathers, paper, leathere	0	50	50	
10 Inorganic matter	- sand/dust	0	100	0	
11	- rust	100	0	0	
12	- metal/wire	50	0	50	
13 Oily substances/chemicals	- grease/oil	100	0	0	
14	- rubber	100	0	0	
15	- stamp colour	100	0	0	
16	- tar	100	0	0	
Average of 1-16		68	16	16	
Stickiness	No(%) Yes(%) 100 0	Seed-coat fragm	No(9		

Table 23 2007

Country: Togo	Growth: Togo	Number of Samples:		
		Degree	of contaminat	ion (%)
Source of contamination		Non- existent/ insignificant	Moderate	Serious
1 Fabrics made of	- woven plastic	67	33	0
2	- plastic film	67	33	0
3	- jute/hessian	66	17	17
4	- cotton	33	50	17
5 Strings made of	- woven plastic	67	33	0
6	- plastic film	67	33	0
7	- jute/hessian	66	17	17
8	- cotton	50	33	17
9 Organic matter	- leaves, feathers, paper, leathere	50	33	17
10 Inorganic matter	- sand/dust	67	33	0
11	- rust	83	17	0
12	- metal/wire	67	33	0
13 Oily substances/chemicals	- grease/oil	67	33	0
14	- rubber	83	17	0
15	- stamp colour	83	17	0
16	- tar	83	17	0
Average of 1-16		67	28	5
Stickiness	No(%) Yes(%) 83 17	Seed-coat fragn	No(%	%) Yes(%) 33

Table 24 2007

Country: Uganda	Growth: Uganda		nples: 4	
		Degree	of contaminat	ion (%)
Source of contamination		Non- existent/ insignificant	Moderate	Serious
1 Fabrics made of	- woven plastic	75	0	25
2	- plastic film	50	0	50
3	- jute/hessian	50	0	50
4	- cotton	0	75	25
5 Strings made of	- woven plastic	75	0	25
6	- plastic film	75	0	25
7	- jute/hessian	25	0	75
8	- cotton	25	25	50
9 Organic matter	- leaves, feathers, paper, leathere	25	25	50
10 Inorganic matter	- sand/dust	100	0	0
11	- rust	100	0	0
12	- metal/wire	75	0	25
13 Oily substances/chemicals	- grease/oil	100	0	0
14	- rubber	75	0	25
15	- stamp colour	75	0	25
16	- tar	100	0	0
Average of 1-16		64	8	28
Stickiness	No(%) Yes(%) 75 25	Seed-coat fragm	No(% nents 25	%) Yes(%) 75

Table 25 2007

Country: Zambia	Growth: Zambia	Number of Samples:		
		Degree	of contaminat	ion (%)
Source of contamination		Non- existent/ insignificant	Moderate	Serious
1 Fabrics made of	- woven plastic	100	0	0
2	- plastic film	100	0	0
3	- jute/hessian	100	0	0
4	- cotton	100	0	0
5 Strings made of	- woven plastic	100	0	0
6	- plastic film	50	50	0
7	- jute/hessian	0	100	0
8	- cotton	50	50	0
9 Organic matter	- leaves, feathers, paper, leathere	100	0	0
10 Inorganic matter	- sand/dust	100	0	0
11	- rust	100	0	0
12	- metal/wire	100	0	0
13 Oily substances/chemicals	- grease/oil	100	0	0
14	- rubber	100	0	0
15	- stamp colour	100	0	0
16	- tar	100	0	0
Average of 1-16		87	13	0
Stickiness	No(%) Yes(%) 50 50	Seed-coat fragm	No(% 50	5) Yes(%) 50

Table 26 2007

Country: Zimbabwe	Growth: Zimbabwe)	Number of Samples:		
		Degree	of contamination	on (%)	
Source of contamination		Non- existent/ insignificant	Moderate	Serious	
1 Fabrics made of	- woven plastic	91	9	0	
2	- plastic film	64	9	27	
3	- jute/hessian	91	9	0	
4	- cotton	73	18	9	
5 Strings made of	- woven plastic	82	18	0	
6	- plastic film	73	18	9	
7	- jute/hessian	64	18	18	
8	- cotton	73	18	9	
9 Organic matter	- leaves, feathers, paper, leathere	64	27	9	
10 Inorganic matter	- sand/dust	82	18	0	
11	- rust	100	0	0	
12	- metal/wire	100	0	0	
13 Oily substances/chemicals	- grease/oil	100	0	0	
14	- rubber	100	0	0	
15	- stamp colour	100	0	0	
16	- tar	100	0	0	
Average of 1-16		85	10	5	
Stickiness	No(%) Yes(%) 91 9	Seed-coat fragn	No(% nents 45	b) Yes(%) 55	

Table 27 2007

Country: Mexico	Growth: Juarez		Number of Sar	nples:	
		Degree	egree of contamination (%)		
Source of contamination		Non- existent/ insignificant	Moderate	Serious	
1 Fabrics made of	- woven plastic	75	25	0	
2	- plastic film	50	25	25	
3	- jute/hessian	50	25	25	
4	- cotton	100	0	0	
5 Strings made of	- woven plastic	50	25	25	
6	- plastic film	75	0	25	
7	- jute/hessian	75	25	0	
8	- cotton	100	0	0	
9 Organic matter	- leaves, feathers, paper, leathere	75	25	0	
10 Inorganic matter	- sand/dust	25	25	50	
11	- rust	100	0	0	
12	- metal/wire	75	25	0	
13 Oily substances/chemicals	- grease/oil	100	0	0	
14	- rubber	100	0	0	
15	- stamp colour	100	0	0	
16	- tar	100	0	0	
Average of 1-16		78	13	9	
Stickiness	No(%) Yes(%) 75 25	Seed-coat fragn	No(9		

Table 28 2007

Country: Mexico	Growth: Laguna/De	elicias ,	Number of Sam	ples: 1
		Degree	of contaminati	on (%)
Source of contamination		Non- existent/ insignificant	Moderate	Serious
1 Fabrics made of	- woven plastic	100	0	0
2	- plastic film	100	0	0
3	- jute/hessian	100	0	0
4	- cotton	100	0	0
5 Strings made of	- woven plastic	100	0	0
6	- plastic film	100	0	0
7	- jute/hessian	100	0	0
8	- cotton	100	0	0
9 Organic matter	- leaves, feathers, paper, leathere	100	0	0
10 Inorganic matter	- sand/dust	100	0	0
11	- rust	100	0	0
12	- metal/wire	100	0	0
13 Oily substances/chemicals	- grease/oil	100	0	0
14	- rubber	100	0	0
15	- stamp colour	100	0	0
16	- tar	100	0	0
Average of 1-16		100	0	0
Stickiness	No(%) Yes(%) 100 0	Seed-coat fragm	No(% ents 100) Yes(%) 0

Table 29 2007

Country: U.S.A.	Growth: Arizona		Number of San	f Samples: 5	
		Degree	of contaminat	ion (%)	
Source of contamination		Non- existent/ insignificant	Moderate	Serious	
1 Fabrics made of	- woven plastic	60	40	0	
2	- plastic film	60	20	20	
3	- jute/hessian	60	20	20	
4	- cotton	100	0	0	
5 Strings made of	- woven plastic	60	40	0	
6	- plastic film	60	40	0	
7	- jute/hessian	60	20	20	
8	- cotton	100	0	0	
9 Organic matter	- leaves, feathers, paper, leathere	80	20	0	
10 Inorganic matter	- sand/dust	100	0	0	
11	- rust	100	0	0	
12	- metal/wire	80	20	0	
13 Oily substances/chemicals	- grease/oil	80	20	0	
14	- rubber	80	20	0	
15	- stamp colour	60	40	0	
16	- tar	100	0	0	
Average of 1-16		77	19	4	
Stickiness	No(%) Yes(%) 80 20	Seed-coat fragn	No(%	%) Yes(%) 20	

Table 30 2007

Country: U.S.A.	Growth: California		Number of Samples:	
		Degree	tion (%)	
Source of contamination		Non- existent/ insignificant	Moderate	Serious
1 Fabrics made of	- woven plastic	83	17	0
2	- plastic film	72	22	6
3	- jute/hessian	88	6	6
4	- cotton	94	6	0
5 Strings made of	- woven plastic	72	28	0
6	- plastic film	72	22	6
7	- jute/hessian	88	6	6
8	- cotton	89	11	0
9 Organic matter	- leaves, feathers, paper, leathere	83	17	0
10 Inorganic matter	- sand/dust	94	6	0
11	- rust	100	0	0
12	- metal/wire	89	11	0
13 Oily substances/chemicals	- grease/oil	89	11	0
14	- rubber	89	11	0
15	- stamp colour	89	11	0
16	- tar	100	0	0
Average of 1-16		86	12	2
Stickiness	No(%) Yes(%) 72 28	Seed-coat fragn	No(° nents 89	, , ,

Table 31 2007

Country: U.S.A.	Growth: El Paso	Number of Samples:			
		Degree	of contamination (%)		
Source of contamination		Non- existent/ insignificant	Moderate	Serious	
1 Fabrics made of	- woven plastic	100	0	0	
2	- plastic film	100	0	0	
3	- jute/hessian	100	0	0	
4	- cotton	100	0	0	
5 Strings made of	- woven plastic	100	0	0	
6	- plastic film	50	50	0	
7	- jute/hessian	100	0	0	
8	- cotton	100	0	0	
9 Organic matter	- leaves, feathers, paper, leathere	100	0	0	
10 Inorganic matter	- sand/dust	100	0	0	
11	- rust	100	0	0	
12	- metal/wire	100	0	0	
13 Oily substances/chemicals	- grease/oil	100	0	0	
14	- rubber	100	0	0	
15	- stamp colour	100	0	0	
16	- tar	100	0	0	
Average of 1-16		97	3	0	
Stickiness	No(%) Yes(%) 50 50	Seed-coat fragn	No(% 50	%) Yes(%) 50	

Table 32 2007

Country: U.S.A.	Growth: Memphis	Territory	Number of Sam	iples: 29
		Degree	of contaminati	on (%)
Source of contamination		Non- existent/ insignificant	Moderate	Serious
1 Fabrics made of	- woven plastic	90	10	0
2	- plastic film	97	3	0
3	- jute/hessian	97	0	3
4	- cotton	97	3	0
5 Strings made of	- woven plastic	86	14	0
6	- plastic film	97	3	0
7	- jute/hessian	94	3	3
8	- cotton	97	0	3
9 Organic matter	- leaves, feathers, paper, leathere	83	10	7
10 Inorganic matter	- sand/dust	97	3	0
11	- rust	97	3	0
12	- metal/wire	100	0	0
13 Oily substances/chemicals	- grease/oil	83	14	3
14	- rubber	93	7	0
15	- stamp colour	97	3	0
16	- tar	97	3	0
Average of 1-16		94	5	1
Stickiness	No(%) Yes(%) 83 17	Seed-coat fragm	No(%	s) Yes(%) 38

Table 33 2007

Country: U.S.A.	Growth: Pima		Number of Sar	r of Samples: 25		
		Degree	gree of contamination (%)			
Source of contamination		Non- existent/ insignificant	Moderate	Serious		
1 Fabrics made of	- woven plastic	84	16	0		
2	- plastic film	72	28	0		
3	- jute/hessian	88	12	0		
4	- cotton	84	12	4		
5 Strings made of	- woven plastic	76	24	0		
6	- plastic film	72	24	4		
7	- jute/hessian	84	16	0		
8	- cotton	84	12	4		
9 Organic matter	- leaves, feathers, paper, leathere	72	28	0		
10 Inorganic matter	- sand/dust	92	8	0		
11	- rust	92	4	4		
12	- metal/wire	92	8	0		
13 Oily substances/chemicals	- grease/oil	88	12	0		
14	- rubber	96	4	0		
15	- stamp colour	92	8	0		
16	- tar	100	0	0		
Average of 1-16		85	14	1		
	No(%) Yes(%)		No(%			
Stickiness	68 32	Seed-coat fragm	nents 76	24		

Table 34 2007

Country: U.S.A.	Growth: Rio Grand	e Valley	Number of San	nples: 4
		Degree	of contaminat	ion (%)
Source of contamination		Non- existent/ insignificant	Moderate	Serious
1 Fabrics made of	- woven plastic	100	0	0
2	- plastic film	100	0	0
3	- jute/hessian	100	0	0
4	- cotton	100	0	0
5 Strings made of	- woven plastic	100	0	0
6	- plastic film	100	0	0
7	- jute/hessian	100	0	0
8	- cotton	100	0	0
9 Organic matter	- leaves, feathers, paper, leathere	100	0	0
10 Inorganic matter	- sand/dust	100	0	0
11	- rust	100	0	0
12	- metal/wire	75	0	25
13 Oily substances/chemicals	- grease/oil	75	25	0
14	- rubber	100	0	0
15	- stamp colour	100	0	0
16	- tar	100	0	0
Average of 1-16		96	2	2
Stickiness	No(%) Yes(%) 100 0	Seed-coat fragm	No(%	%) Yes(%) 0

Table 35 2007

Country: U.S.A.	Growth: South Eas	tern	Number of San	nples: 12
		Degree	of contaminat	ion (%)
Source of contamination		Non- existent/ insignificant	Moderate	Serious
1 Fabrics made of	- woven plastic	92	8	0
2	- plastic film	83	17	0
3	- jute/hessian	100	0	0
4	- cotton	92	8	0
5 Strings made of	- woven plastic	75	25	0
6	- plastic film	92	8	0
7	- jute/hessian	92	8	0
8	- cotton	100	0	0
9 Organic matter	- leaves, feathers, paper, leathere	100	0	0
10 Inorganic matter	- sand/dust	100	0	0
11	- rust	100	0	0
12	- metal/wire	100	0	0
13 Oily substances/chemicals	- grease/oil	59	33	8
14	- rubber	100	0	0
15	- stamp colour	100	0	0
16	- tar	100	0	0
Average of 1-16		92	7	1
Stickiness	No(%) Yes(%) 92 8	Seed-coat fragr	No(% 67	%) Yes(%) 33

Table 36 2007

Country: U.S.A.	Growth: Texas Hig	h Plains	Number of Sam	nples: 21
		Degree	of contaminat	ion (%)
Source of contamination		Non- existent/ insignificant	Moderate	Serious
1 Fabrics made of	- woven plastic	90	10	0
2	- plastic film	86	14	0
3	- jute/hessian	95	5	0
4	- cotton	100	0	0
5 Strings made of	- woven plastic	90	10	0
6	- plastic film	90	10	0
7	- jute/hessian	95	5	0
8	- cotton	100	0	0
9 Organic matter	- leaves, feathers, paper, leathere	76	19	5
10 Inorganic matter	- sand/dust	90	10	0
11	- rust	100	0	0
12	- metal/wire	95	5	0
13 Oily substances/chemicals	- grease/oil	81	19	0
14	- rubber	95	5	0
15	- stamp colour	95	5	0
16	- tar	100	0	0
Average of 1-16		93	7	0
Stickiness	No(%) Yes(%) 90 10	Seed-coat fragn	No(%	5) Yes(%) 5

Table 37 2007

Country: U.S.A.	Growth: USA-Others Numb			per of Samples:	
		Degree of contamination (%)			
Source of contamination		Non- existent/ insignificant	Moderate	Serious	
1 Fabrics made of	- woven plastic	89	11	0	
2	- plastic film	67	33	0	
3	- jute/hessian	100	0	0	
4	- cotton	100	0	0	
5 Strings made of	- woven plastic	100	0	0	
6	- plastic film	89	11	0	
7	- jute/hessian	100	0	0	
8	- cotton	100	0	0	
9 Organic matter	- leaves, feathers, paper, leathere	56	33	11	
10 Inorganic matter	- sand/dust	89	11	0	
11	- rust	89	0	11	
12	- metal/wire	100	0	0	
13 Oily substances/chemicals	- grease/oil	100	0	0	
14	- rubber	100	0	0	
15	- stamp colour	100	0	0	
16	- tar	100	0	0	
Average of 1-16		93	6	1	
Stickiness	No(%) Yes(%) 	Seed-coat fragn	No(% nents	%) Yes(%) 22	

America, South

Table 38 2007

Country: Argentina	Growth: Argentina		nples: 2	
		Degree	of contaminat	ion (%)
Source of contamination		Non- existent/ insignificant	Moderate	Serious
1 Fabrics made of	- woven plastic	100	0	0
2	- plastic film	100	0	0
3	- jute/hessian	50	50	0
4	- cotton	50	50	0
5 Strings made of	- woven plastic	50	50	0
6	- plastic film	100	0	0
7	- jute/hessian	50	50	0
8	- cotton	50	50	0
9 Organic matter	- leaves, feathers, paper, leathere	100	0	0
10 Inorganic matter	- sand/dust	100	0	0
11	- rust	100	0	0
12	- metal/wire	100	0	0
13 Oily substances/chemicals	- grease/oil	100	0	0
14	- rubber	100	0	0
15	- stamp colour	100	0	0
16	- tar	100	0	0
Average of 1-16		84	16	0
Stickiness	No(%) Yes(%) 100 0	Seed-coat fragn	No(% 100	%) Yes(%) 0

Table 39 2007

Country: Brazil	Growth: Brazil		Number of Samples: 3		
		Degree	gree of contamination (%)		
Source of contamination		Non- existent/ insignificant	Moderate	Serious	
1 Fabrics made of	- woven plastic	88	12	0	
2	- plastic film	91	9	0	
3	- jute/hessian	91	9	0	
4	- cotton	82	9	9	
5 Strings made of	- woven plastic	85	15	0	
6	- plastic film	91	9	0	
7	- jute/hessian	94	6	0	
8	- cotton	88	9	3	
9 Organic matter	- leaves, feathers, paper, leathere	65	26	9	
10 Inorganic matter	- sand/dust	79	18	3	
11	- rust	88	9	3	
12	- metal/wire	94	6	0	
13 Oily substances/chemicals	- grease/oil	91	9	0	
14	- rubber	94	6	0	
15	- stamp colour	91	9	0	
16	- tar	97	3	0	
Average of 1-16		88	10	2	
Stickiness	No(%) Yes(%) 71 29	Seed-coat fragn	No(%	b) Yes(%) 35	

America, South

Table 40 2007

Country: Paraguay	Growth: Paraguay	Number of Samples:		
		Degree	of contaminat	ion (%)
Source of contamination		Non- existent/ insignificant	Moderate	Serious
1 Fabrics made of	- woven plastic	100	0	0
2	- plastic film	50	0	50
3	- jute/hessian	100	0	0
4	- cotton	50	0	50
5 Strings made of	- woven plastic	100	0	0
6	- plastic film	50	0	50
7	- jute/hessian	50	50	0
8	- cotton	50	0	50
9 Organic matter	- leaves, feathers, paper, leathere	50	0	50
10 Inorganic matter	- sand/dust	100	0	0
11	- rust	100	0	0
12	- metal/wire	50	50	0
13 Oily substances/chemicals	- grease/oil	100	0	0
14	- rubber	100	0	0
15	- stamp colour	100	0	0
16	- tar	50	0	50
Average of 1-16		75	6	19
Stickiness	No(%) Yes(%) 0 100	Seed-coat fragn	No(%	%) Yes(%) 100

Table 41 2007

Country: Peru	Growth: Aspero		Number of Samples:		
		Degree	tion (%)		
Source of contamination		Non- existent/ insignificant	Moderate	Serious	
1 Fabrics made of	- woven plastic	34	33	33	
2	- plastic film	34	33	33	
3	- jute/hessian	67	0	33	
4	- cotton	100	0	0	
5 Strings made of	- woven plastic	34	33	33	
6	- plastic film	34	33	33	
7	- jute/hessian	67	0	33	
8	- cotton	100	0	0	
9 Organic matter	- leaves, feathers, paper, leathere	67	33	0	
10 Inorganic matter	- sand/dust	100	0	0	
11	- rust	100	0	0	
12	- metal/wire	100	0	0	
13 Oily substances/chemicals	- grease/oil	67	33	0	
14	- rubber	100	0	0	
15	- stamp colour	100	0	0	
16	- tar	100	0	0	
Average of 1-16		76	12	12	
Stickiness	No(%) Yes(%) 100 0	Seed-coat fragm	No(% nents 100		

America, South

Table 42 2007

Country: Peru	Growth: Pima	Number of Samples:		
		Degree of contamination (%)		
Source of contamination		Non- existent/ insignificant	Moderate	Serious
1 Fabrics made of	- woven plastic	100	0	0
2	- plastic film	100	0	0
3	- jute/hessian	100	0	0
4	- cotton	100	0	0
5 Strings made of	- woven plastic	100	0	0
6	- plastic film	100	0	0
7	- jute/hessian	100	0	0
8	- cotton	100	0	0
9 Organic matter	- leaves, feathers, paper, leathere	100	0	0
10 Inorganic matter	- sand/dust	100	0	0
11	- rust	100	0	0
12	- metal/wire	100	0	0
13 Oily substances/chemicals	- grease/oil	100	0	0
14	- rubber	100	0	0
15	- stamp colour	100	0	0
16	- tar	100	0	0
Average of 1-16		100	0	0
Stickiness	No(%) Yes(%) 100 0	Seed-coat fragm	No(% 100) Yes(%) 0

Table 43 2007

Country: Peru	Growth: Tanguis		Number of Sar	nples:
		Degree	tion (%)	
Source of contamination		Non- existent/ insignificant	Moderate	Serious
1 Fabrics made of	- woven plastic	100	0	0
2	- plastic film	100	0	0
3	- jute/hessian	100	0	0
4	- cotton	100	0	0
5 Strings made of	- woven plastic	0	100	0
6	- plastic film	0	100	0
7	- jute/hessian	100	0	0
8	- cotton	100	0	0
9 Organic matter	- leaves, feathers, paper, leathere	100	0	0
10 Inorganic matter	- sand/dust	100	0	0
11	- rust	100	0	0
12	- metal/wire	100	0	0
13 Oily substances/chemicals	- grease/oil	100	0	0
14	- rubber	100	0	0
15	- stamp colour	100	0	0
16	- tar	100	0	0
Average of 1-16		87	13	0
Stickiness	No(%) Yes(%) 100 0	Seed-coat fragm	No(%	

Table 44 2007

Country: Afghanistan	Growth: Afghanista	an	Number of Sar	nples:
		Degree of contamination (%)		
Source of contamination		Non- existent/ insignificant	Moderate	Serious
1 Fabrics made of	- woven plastic	100	0	0
2	- plastic film	0	0	100
3	- jute/hessian	100	0	0
4	- cotton	0	0	100
5 Strings made of	- woven plastic	100	0	0
6	- plastic film	0	0	100
7	- jute/hessian	0	100	0
8	- cotton	0	0	100
9 Organic matter	- leaves, feathers, paper, leathere	0	0	100
10 Inorganic matter	- sand/dust	100	0	0
11	- rust	100	0	0
12	- metal/wire	100	0	0
13 Oily substances/chemicals	- grease/oil	100	0	0
14	- rubber	0	100	0
15	- stamp colour	100	0	0
16	- tar	0	0	100
Average of 1-16		49	13	38
Stickiness	No(%) Yes(%) 0 100	Seed-coat fragn	nents No(5	

Table 45 2007

Country: Australia	Growth: Australia		nples: 19	
		Degree	ion (%)	
Source of contamination		Non- existent/ insignificant	Moderate	Serious
1 Fabrics made of	- woven plastic	100	0	0
2	- plastic film	95	5	0
3	- jute/hessian	89	11	0
4	- cotton	95	5	0
5 Strings made of	- woven plastic	95	5	0
6	- plastic film	74	21	5
7	- jute/hessian	95	5	0
8	- cotton	100	0	0
9 Organic matter	- leaves, feathers, paper, leathere	79	16	5
10 Inorganic matter	- sand/dust	89	11	0
11	- rust	95	5	0
12	- metal/wire	95	5	0
13 Oily substances/chemicals	- grease/oil	95	5	0
14	- rubber	100	0	0
15	- stamp colour	100	0	0
16	- tar	100	0	0
Average of 1-16		93	6	1
Stickiness	No(%) Yes(%) 79 21	Seed-coat fragm	No(%	5) Yes(%) 11

Table 46 2007

Country: China	Growth: Xinjiang	Number of Samples:		
		Degree	of contaminat	ion (%)
Source of contamination		Non- existent/ insignificant	Moderate	Serious
1 Fabrics made of	- woven plastic	100	0	0
2	- plastic film	100	0	0
3	- jute/hessian	100	0	0
4	- cotton	100	0	0
5 Strings made of	- woven plastic	100	0	0
6	- plastic film	100	0	0
7	- jute/hessian	100	0	0
8	- cotton	100	0	0
9 Organic matter	- leaves, feathers, paper, leathere	100	0	0
10 Inorganic matter	- sand/dust	100	0	0
11	- rust	100	0	0
12	- metal/wire	100	0	0
13 Oily substances/chemicals	- grease/oil	100	0	0
14	- rubber	100	0	0
15	- stamp colour	100	0	0
16	- tar	100	0	0
Average of 1-16		100	0	0
Stickiness	No(%) Yes(%) 100 0	Seed-coat fragn	No(% 100	6) Yes(%) 0

Table 47 2007

Country: India	Growth: DCH		Number of San	nples: 3	
		Degree	Degree of contamination (%)		
Source of contamination		Non- existent/ insignificant	Moderate	Serious	
1 Fabrics made of	- woven plastic	33	67	0	
2	- plastic film	0	100	0	
3	- jute/hessian	0	100	0	
4	- cotton	67	33	0	
5 Strings made of	- woven plastic	67	33	0	
6	- plastic film	33	67	0	
7	- jute/hessian	0	100	0	
8	- cotton	100	0	0	
9 Organic matter	- leaves, feathers, paper, leathere	67	33	0	
10 Inorganic matter	- sand/dust	67	33	0	
11	- rust	100	0	0	
12	- metal/wire	100	0	0	
13 Oily substances/chemicals	- grease/oil	100	0	0	
14	- rubber	100	0	0	
15	- stamp colour	100	0	0	
16	- tar	100	0	0	
Average of 1-16		65	35	0	
Stickiness	No(%) Yes(%) 67 33	Seed-coat fragn	No(%		

Table 48 2007

Country: India	Growth: F-414		Number of San	amples:	
		Degree	of contaminat	tion (%)	
Source of contamination		Non- existent/ insignificant	Moderate	Serious	
1 Fabrics made of	- woven plastic	100	0	0	
2	- plastic film	0	0	100	
3	- jute/hessian	0	0	100	
4	- cotton	100	0	0	
5 Strings made of	- woven plastic	100	0	0	
6	- plastic film	100	0	0	
7	- jute/hessian	0	100	0	
8	- cotton	100	0	0	
9 Organic matter	- leaves, feathers, paper, leathere	0	100	0	
10 Inorganic matter	- sand/dust	100	0	0	
11	- rust	100	0	0	
12	- metal/wire	100	0	0	
13 Oily substances/chemicals	- grease/oil	100	0	0	
14	- rubber	100	0	0	
15	- stamp colour	100	0	0	
16	- tar	100	0	0	
Average of 1-16		74	13	13	
Stickiness	No(%) Yes(%) 100 0	Seed-coat fragn	No(% 100		

Table 49 2007

Country: India	Growth: H-4		Number of Samples:		
		Degree	ion (%)		
Source of contamination		Non- existent/ insignificant	Moderate	Serious	
1 Fabrics made of	- woven plastic	67	33	0	
2	- plastic film	42	50	8	
3	- jute/hessian	17	58	25	
4	- cotton	42	58	0	
5 Strings made of	- woven plastic	67	0	33	
6	- plastic film	66	17	17	
7	- jute/hessian	16	42	42	
8	- cotton	58	17	25	
9 Organic matter	- leaves, feathers, paper, leathere	42	25	33	
10 Inorganic matter	- sand/dust	66	17	17	
11	- rust	75	25	0	
12	- metal/wire	58	42	0	
13 Oily substances/chemicals	- grease/oil	67	33	0	
14	- rubber	100	0	0	
15	- stamp colour	67	33	0	
16	- tar	92	8	0	
Average of 1-16		58	29	13	
Stickiness	No(%) Yes(%) 100 0	Seed-coat fragm	No(% nents 67	%) Yes(%) 33	

Table 50 2007

Country: India	Growth: India-Othe	ers	Number of Sam	nples: 12
		Degree	of contaminati	ion (%)
Source of contamination		Non- existent/ insignificant	Moderate	Serious
1 Fabrics made of	- woven plastic	58	25	17
2	- plastic film	34	33	33
3	- jute/hessian	41	17	42
4	- cotton	66	17	17
5 Strings made of	- woven plastic	42	25	33
6	- plastic film	25	50	25
7	- jute/hessian	34	33	33
8	- cotton	50	17	33
9 Organic matter	- leaves, feathers, paper, leathere	42	25	33
10 Inorganic matter	- sand/dust	75	8	17
11	- rust	92	8	0
12	- metal/wire	75	17	8
13 Oily substances/chemicals	- grease/oil	75	25	0
14	- rubber	83	17	0
15	- stamp colour	67	33	0
16	- tar	92	8	0
Average of 1-16		60	22	18
Stickiness	No(%) Yes(%) 92 8	Seed-coat fragm	nents $\frac{\text{No}(\%)}{33}$	6) Yes(%)

Table 51 2007

Country: India	Growth: J-34		nples: 13	
		Degree	of contaminat	ion (%)
Source of contamination		Non- existent/ insignificant	Moderate	Serious
1 Fabrics made of	- woven plastic	62	15	23
2	- plastic film	54	8	38
3	- jute/hessian	31	31	38
4	- cotton	39	38	23
5 Strings made of	- woven plastic	69	0	31
6	- plastic film	46	23	31
7	- jute/hessian	16	15	69
8	- cotton	54	15	31
9 Organic matter	- leaves, feathers, paper, leathere	16	15	69
10 Inorganic matter	- sand/dust	62	23	15
11	- rust	85	15	0
12	- metal/wire	39	46	15
13 Oily substances/chemicals	- grease/oil	69	31	0
14	- rubber	84	8	8
15	- stamp colour	77	23	0
16	- tar	92	0	8
Average of 1-16		56	19	25
Stickiness	No(%) Yes(%) 69 31	Seed-coat fragm	No(%	%) Yes(%) 69

Table 52 2007

Country: India	Growth: LRA		Number of San	nples: 5
		Degree	of contaminat	tion (%)
Source of contamination		Non- existent/ insignificant	Moderate	Serious
1 Fabrics made of	- woven plastic	40	40	20
2	- plastic film	40	40	20
3	- jute/hessian	40	20	40
4	- cotton	0	60	40
5 Strings made of	- woven plastic	40	40	20
6	- plastic film	40	40	20
7	- jute/hessian	40	20	40
8	- cotton	60	0	40
9 Organic matter	- leaves, feathers, paper, leathere	20	40	40
10 Inorganic matter	- sand/dust	60	20	20
11	- rust	60	20	20
12	- metal/wire	20	60	20
13 Oily substances/chemicals	- grease/oil	80	0	20
14	- rubber	60	40	0
15	- stamp colour	40	40	20
16	- tar	80	20	0
Average of 1-16		45	31	24
Stickiness	No(%) Yes(%) 80 20	Seed-coat fragm	No(% 20	%) Yes(%) 80

Table 53 2007

Country: India	Growth: MCU-5		nples: 13	
		Degree	of contaminat	ion (%)
Source of contamination		Non- existent/ insignificant	Moderate	Serious
1 Fabrics made of	- woven plastic	62	15	23
2	- plastic film	46	23	31
3	- jute/hessian	31	31	38
4	- cotton	38	31	31
5 Strings made of	- woven plastic	54	15	31
6	- plastic film	47	15	38
7	- jute/hessian	31	15	54
8	- cotton	46	23	31
9 Organic matter	- leaves, feathers, paper, leathere	31	31	38
10 Inorganic matter	- sand/dust	69	23	8
11	- rust	69	8	23
12	- metal/wire	54	31	15
13 Oily substances/chemicals	- grease/oil	69	31	0
14	- rubber	69	31	0
15	- stamp colour	69	23	8
16	- tar	85	15	0
Average of 1-16		54	23	23
Stickiness	No(%) Yes(%) 85 15	Seed-coat fragm	No(% nents 46	%) Yes(%) 54

Table 54 2007

Country: India	Growth: Shankar-4	/6	Number of Samples: 2		
		Degree	of contaminat	ion (%)	
Source of contamination		Non- existent/ insignificant	Moderate	Serious	
1 Fabrics made of	- woven plastic	63	29	8	
2	- plastic film	41	42	17	
3	- jute/hessian	29	50	21	
4	- cotton	46	33	21	
5 Strings made of	- woven plastic	54	29	17	
6	- plastic film	46	29	25	
7	- jute/hessian	21	46	33	
8	- cotton	54	17	29	
9 Organic matter	- leaves, feathers, paper, leathere	33	46	21	
10 Inorganic matter	- sand/dust	54	29	17	
11	- rust	84	8	8	
12	- metal/wire	67	25	8	
13 Oily substances/chemicals	- grease/oil	88	4	8	
14	- rubber	79	17	4	
15	- stamp colour	88	8	4	
16	- tar	92	0	8	
Average of 1-16		58	26	16	
Stickiness	No(%) Yes(%) 83 17	Seed-coat fragm	No(% 71	b) Yes(%) 29	

Table 55 2007

Country: Israel	Growth: Acala	Number of Samples:		
		Degree	of contaminat	ion (%)
Source of contamination		Non- existent/ insignificant	Moderate	Serious
1 Fabrics made of	- woven plastic	100	0	0
2	- plastic film	100	0	0
3	- jute/hessian	100	0	0
4	- cotton	100	0	0
5 Strings made of	- woven plastic	100	0	0
6	- plastic film	100	0	0
7	- jute/hessian	75	25	0
8	- cotton	100	0	0
9 Organic matter	- leaves, feathers, paper, leathere	50	50	0
10 Inorganic matter	- sand/dust	75	25	0
11	- rust	100	0	0
12	- metal/wire	100	0	0
13 Oily substances/chemicals	- grease/oil	100	0	0
14	- rubber	100	0	0
15	- stamp colour	100	0	0
16	- tar	100	0	0
Average of 1-16		94	6	0
Stickiness	No(%) Yes(%) 100 0	Seed-coat fragm	No(% nents 25	%) Yes(%) 75

Table 56 2007

Country: Israel	Growth: Pima	Number of Samples:		
		Degree	of contaminat	ion (%)
Source of contamination		Non- existent/ insignificant	Moderate	Serious
1 Fabrics made of	- woven plastic	100	0	0
2	- plastic film	100	0	0
3	- jute/hessian	71	29	0
4	- cotton	100	0	0
5 Strings made of	- woven plastic	100	0	0
6	- plastic film	86	14	0
7	- jute/hessian	57	43	0
8	- cotton	100	0	0
9 Organic matter	- leaves, feathers, paper, leathere	71	29	0
10 Inorganic matter	- sand/dust	86	14	0
11	- rust	100	0	0
12	- metal/wire	100	0	0
13 Oily substances/chemicals	- grease/oil	86	14	0
14	- rubber	100	0	0
15	- stamp colour	100	0	0
16	- tar	100	0	0
Average of 1-16		91	9	0
Stickiness	No(%) Yes(%) 86 14	Seed-coat fragn	No(%	

Table 57 2007

Country: Pakistan	Growth: AmSeed 1	505	Number of Sa	mples:
		Degree of contamination (%)		
Source of contamination		Non- existent/ insignificant	Moderate	Serious
1 Fabrics made of	- woven plastic	0	0	100
2	- plastic film	0	0	100
3	- jute/hessian	0	0	100
4	- cotton	0	0	100
5 Strings made of	- woven plastic	0	0	100
6	- plastic film	0	0	100
7	- jute/hessian	0	0	100
8	- cotton	0	0	100
9 Organic matter	- leaves, feathers, paper, leathere	0	0	100
10 Inorganic matter	- sand/dust	0	0	100
11	- rust	0	0	100
12	- metal/wire	0	0	100
13 Oily substances/chemicals	- grease/oil	0	100	0
14	- rubber	0	100	0
15	- stamp colour	0	100	0
16	- tar	0	100	0
Average of 1-16		0	25	75
Stickiness	No(%) Yes(%) 100 0	Seed-coat fragm	No(

Table 58 2007

Country: Pakistan	Growth: AmSeed A	FZAL	Number of Sar	mples:
		Degree	of contamina	tion (%)
Source of contamination		Non- existent/ insignificant	Moderate	Serious
1 Fabrics made of	- woven plastic	0	100	0
2	- plastic film	0	100	0
3	- jute/hessian	0	100	0
4	- cotton	100	0	0
5 Strings made of	- woven plastic	100	0	0
6	- plastic film	100	0	0
7	- jute/hessian	100	0	0
8	- cotton	100	0	0
9 Organic matter	- leaves, feathers, paper, leathere	0	100	0
10 Inorganic matter	- sand/dust	100	0	0
11	- rust	100	0	0
12	- metal/wire	0	100	0
13 Oily substances/chemicals	- grease/oil	100	0	0
14	- rubber	100	0	0
15	- stamp colour	100	0	0
16	- tar	100	0	0
Average of 1-16		69	31	0
Stickiness	No(%) Yes(%) 100 0	Seed-coat fragn	nents No(5	

Table 59 2007

Country: Pakistan	Growth: Pakistan-C	Others	Number of Sar	nples: 2	
		Degree	Degree of contamination (%)		
Source of contamination		Non- existent/ insignificant	Moderate	Serious	
1 Fabrics made of	- woven plastic	0	50	50	
2	- plastic film	50	0	50	
3	- jute/hessian	0	50	50	
4	- cotton	50	0	50	
5 Strings made of	- woven plastic	50	0	50	
6	- plastic film	50	0	50	
7	- jute/hessian	50	0	50	
8	- cotton	50	0	50	
9 Organic matter	- leaves, feathers, paper, leathere	50	0	50	
10 Inorganic matter	- sand/dust	50	0	50	
11	- rust	50	0	50	
12	- metal/wire	50	0	50	
13 Oily substances/chemicals	- grease/oil	50	50	0	
14	- rubber	50	50	0	
15	- stamp colour	50	50	0	
16	- tar	50	50	0	
Average of 1-16		43	19	38	
Stickiness	No(%) Yes(%) 100 0	Seed-coat fragm	No(9		

Table 60 2007

Country: Syria	Growth: Syria	Number of Samples:			
		Degree	of contaminat	ation (%)	
Source of contamination		Non- existent/ insignificant	Moderate	Serious	
1 Fabrics made of	- woven plastic	89	11	0	
2	- plastic film	67	33	0	
3	- jute/hessian	89	11	0	
4	- cotton	78	11	11	
5 Strings made of	- woven plastic	89	11	0	
6	- plastic film	89	11	0	
7	- jute/hessian	67	33	0	
8	- cotton	67	11	22	
9 Organic matter	- leaves, feathers, paper, leathere	44	56	0	
10 Inorganic matter	- sand/dust	78	22	0	
11	- rust	89	11	0	
12	- metal/wire	89	11	0	
13 Oily substances/chemicals	- grease/oil	100	0	0	
14	- rubber	100	0	0	
15	- stamp colour	89	11	0	
16	- tar	100	0	0	
Average of 1-16		83	15	2	
Stickiness	No(%) Yes(%) 78 22	Seed-coat fragn	No(%		

Table 61 2007

Country: Tajikistan	Growth: Long Stap	les	Number of San	nples: 2
		Degree	of contaminat	ion (%)
Source of contamination		Non- existent/ insignificant	Moderate	Serious
1 Fabrics made of	- woven plastic	50	50	0
2	- plastic film	50	50	0
3	- jute/hessian	50	50	0
4	- cotton	50	50	0
5 Strings made of	- woven plastic	50	50	0
6	- plastic film	50	50	0
7	- jute/hessian	50	50	0
8	- cotton	50	50	0
9 Organic matter	- leaves, feathers, paper, leathere	50	50	0
10 Inorganic matter	- sand/dust	100	0	0
11	- rust	50	0	50
12	- metal/wire	100	0	0
13 Oily substances/chemicals	- grease/oil	100	0	0
14	- rubber	100	0	0
15	- stamp colour	100	0	0
16	- tar	100	0	0
Average of 1-16		69	28	3
Stickiness	No(%) Yes(%) 100 0	Seed-coat fragn	No(% nents 100	b) Yes(%) 0

Table 62 2007

Country: Tajikistan	Growth: Medium Staples Num			umber of Samples: 10		
		Degree	tion (%)			
Source of contamination		Non- existent/ insignificant	Moderate	Serious		
1 Fabrics made of	- woven plastic	80	20	0		
2	- plastic film	70	10	20		
3	- jute/hessian	80	20	0		
4	- cotton	60	20	20		
5 Strings made of	- woven plastic	90	10	0		
6	- plastic film	90	0	10		
7	- jute/hessian	90	10	0		
8	- cotton	80	20	0		
9 Organic matter	- leaves, feathers, paper, leathere	80	20	0		
10 Inorganic matter	- sand/dust	90	10	0		
11	- rust	90	0	10		
12	- metal/wire	90	10	0		
13 Oily substances/chemicals	- grease/oil	80	20	0		
14	- rubber	90	10	0		
15	- stamp colour	90	0	10		
16	- tar	90	10	0		
Average of 1-16		84	12	4		
Stickiness	No(%) Yes(%) 90 10	Seed-coat fragn	No(9			

Table 63 2007

Country: Turkmenistan	Growth: Medium Staples		Number of Sa	imples:	
		Degree	Degree of contamination (%)		
Source of contamination		Non- existent/ insignificant	Moderate	Serious	
1 Fabrics made of	- woven plastic	75	25	0	
2	- plastic film	74	13	13	
3	- jute/hessian	75	25	0	
4	- cotton	74	13	13	
5 Strings made of	- woven plastic	62	38	0	
6	- plastic film	87	13	0	
7	- jute/hessian	87	13	0	
8	- cotton	87	13	0	
9 Organic matter	- leaves, feathers, paper, leathere	62	38	0	
10 Inorganic matter	- sand/dust	62	38	0	
11	- rust	87	13	0	
12	- metal/wire	74	13	13	
13 Oily substances/chemicals	- grease/oil	75	25	0	
14	- rubber	87	13	0	
15	- stamp colour	100	0	0	
16	- tar	100	0	0	
Average of 1-16		80	18	2	
Stickiness	No(%) Yes(%) 88 13	Seed-coat fragn	No(

Table 64 2007

Country: Uzbekistan	Growth: Long Stap	les	Number of San	nples:
		Degree	of contaminat	ion (%)
Source of contamination		Non- existent/ insignificant	Moderate	Serious
1 Fabrics made of	- woven plastic	75	25	0
2	- plastic film	75	25	0
3	- jute/hessian	75	25	0
4	- cotton	50	25	25
5 Strings made of	- woven plastic	75	25	0
6	- plastic film	75	25	0
7	- jute/hessian	75	25	0
8	- cotton	50	25	25
9 Organic matter	- leaves, feathers, paper, leathere	25	50	25
10 Inorganic matter	- sand/dust	75	0	25
11	- rust	75	0	25
12	- metal/wire	75	25	0
13 Oily substances/chemicals	- grease/oil	75	25	0
14	- rubber	75	25	0
15	- stamp colour	75	25	0
16	- tar	100	0	0
Average of 1-16		70	22	8
Stickiness	No(%) Yes(%) 75 25	Seed-coat fragn	No(%	5) Yes(%) 50

Table 65 2007

Country: Uzbekistan	Growth: Medium S	taples	· Number of Samples.		
		Degree	of contaminat	ion (%)	
Source of contamination		Non- existent/ insignificant	Moderate	Serious	
1 Fabrics made of	- woven plastic	60	25	15	
2	- plastic film	70	25	5	
3	- jute/hessian	75	25	0	
4	- cotton	40	45	15	
5 Strings made of	- woven plastic	65	20	15	
6	- plastic film	75	20	5	
7	- jute/hessian	85	15	0	
8	- cotton	55	30	15	
9 Organic matter	- leaves, feathers, paper, leathere	40	40	20	
10 Inorganic matter	- sand/dust	80	15	5	
11	- rust	70	25	5	
12	- metal/wire	65	20	15	
13 Oily substances/chemicals	- grease/oil	70	25	5	
14	- rubber	85	15	0	
15	- stamp colour	85	10	5	
16	- tar	90	10	0	
Average of 1-16		69	23	8	
Stickiness	No(%) Yes(%) 60 40	Seed-coat fragm	No(% nents 25	%) Yes(%) 75	

Table 66 2007

Country: Yemen	Growth: Yemen	Number of Samples:		
		Degree	of contaminat	ion (%)
Source of contamination		Non- existent/ insignificant	Moderate	Serious
1 Fabrics made of	- woven plastic	50	50	0
2	- plastic film	50	50	0
3	- jute/hessian	0	100	0
4	- cotton	0	100	0
5 Strings made of	- woven plastic	50	50	0
6	- plastic film	50	50	0
7	- jute/hessian	0	100	0
8	- cotton	0	100	0
9 Organic matter	- leaves, feathers, paper, leathere	0	100	0
10 Inorganic matter	- sand/dust	50	50	0
11	- rust	100	0	0
12	- metal/wire	100	0	0
13 Oily substances/chemicals	- grease/oil	100	0	0
14	- rubber	100	0	0
15	- stamp colour	100	0	0
16	- tar	100	0	0
Average of 1-16		53	47	0
Stickiness	No(%) Yes(%) 100 0	Seed-coat fragn	No(% nents <u>100</u>	%) Yes(%) 0

Europe

Table 67 2007

Country: Greece	Growth: Greece	Number of Samples:		
		Degree	ion (%)	
Source of contamination		Non- existent/ insignificant	Moderate	Serious
1 Fabrics made of	- woven plastic	82	12	6
2	- plastic film	59	29	12
3	- jute/hessian	82	18	0
4	- cotton	82	12	6
5 Strings made of	- woven plastic	76	18	6
6	- plastic film	59	35	6
7	- jute/hessian	76	18	6
8	- cotton	82	18	0
9 Organic matter	- leaves, feathers, paper, leathere	41	41	18
10 Inorganic matter	- sand/dust	47	41	12
11	- rust	88	12	0
12	- metal/wire	94	6	0
13 Oily substances/chemicals	- grease/oil	82	18	0
14	- rubber	82	18	0
15	- stamp colour	88	6	6
16	- tar	94	6	0
Average of 1-16		76	19	5
Stickiness	No(%) Yes(%) 100 0	Seed-coat fragn	No(% 76	%) Yes(%) 24

Table 68 2007

Country: Spain	Growth: Spain	Number of Samples:		
		Degree	of contaminat	ion (%)
Source of contamination		Non- existent/ insignificant	Moderate	Serious
1 Fabrics made of	- woven plastic	75	25	0
2	- plastic film	87	13	0
3	- jute/hessian	87	13	0
4	- cotton	74	13	13
5 Strings made of	- woven plastic	87	13	0
6	- plastic film	62	25	13
7	- jute/hessian	62	38	0
8	- cotton	87	0	13
9 Organic matter	- leaves, feathers, paper, leathere	75	25	0
10 Inorganic matter	- sand/dust	62	25	13
11	- rust	100	0	0
12	- metal/wire	87	13	0
13 Oily substances/chemicals	- grease/oil	100	0	0
14	- rubber	100	0	0
15	- stamp colour	100	0	0
16	- tar	100	0	0
Average of 1-16		84	13	3
Stickiness	No(%) Yes(%) 	Seed-coat fragm	No(% 63	%) Yes(%) 38

Europe

Table 69 2007

Country: Turkey	Growth: Antalya	Number of Samples:		
		Degree	of contamina	ition (%)
Source of contamination		Non- existent/ insignificant	Moderate	Serious
1 Fabrics made of	- woven plastic	100	0	0
2	- plastic film	100	0	0
3	- jute/hessian	100	0	0
4	- cotton	0	0	100
5 Strings made of	- woven plastic	0	0	100
6	- plastic film	100	0	0
7	- jute/hessian	100	0	0
8	- cotton	0	0	100
9 Organic matter	- leaves, feathers, paper, leathere	100	0	0
10 Inorganic matter	- sand/dust	100	0	0
11	- rust	100	0	0
12	- metal/wire	100	0	0
13 Oily substances/chemicals	- grease/oil	0	100	0
14	- rubber	100	0	0
15	- stamp colour	100	0	0
16	- tar	100	0	0
Average of 1-16		75	6	19
Stickiness	No(%) Yes(%) 100 0	Seed-coat fragn	No(

Table 70 2007

Country: Turkey	Growth: Cukurova/	/South	Number of Sam	ples: 3
		Degree	of contaminati	on (%)
Source of contamination		Non- existent/ insignificant	Moderate	Serious
1 Fabrics made of	- woven plastic	67	0	33
2	- plastic film	67	0	33
3	- jute/hessian	67	0	33
4	- cotton	67	0	33
5 Strings made of	- woven plastic	67	0	33
6	- plastic film	67	0	33
7	- jute/hessian	67	0	33
8	- cotton	34	33	33
9 Organic matter	- leaves, feathers, paper, leathere	0	67	33
10 Inorganic matter	- sand/dust	0	67	33
11	- rust	34	33	33
12	- metal/wire	34	33	33
13 Oily substances/chemicals	- grease/oil	67	0	33
14	- rubber	34	33	33
15	- stamp colour	34	33	33
16	- tar	67	0	33
Average of 1-16		48	19	33
Stickiness	No(%) Yes(%) 100 0	Seed-coat fragm	No(%) Yes(%) 100

Europe

Table 71 2007

Country: Turkey	Growth: Izmir	Number of Samples:			
		Degree	of contaminat	mination (%)	
Source of contamination		Non- existent/ insignificant	Moderate	Serious	
1 Fabrics made of	- woven plastic	66	17	17	
2	- plastic film	66	17	17	
3	- jute/hessian	83	0	17	
4	- cotton	66	17	17	
5 Strings made of	- woven plastic	66	17	17	
6	- plastic film	66	17	17	
7	- jute/hessian	66	17	17	
8	- cotton	83	0	17	
9 Organic matter	- leaves, feathers, paper, leathere	33	50	17	
10 Inorganic matter	- sand/dust	50	33	17	
11	- rust	66	17	17	
12	- metal/wire	66	17	17	
13 Oily substances/chemicals	- grease/oil	83	0	17	
14	- rubber	66	17	17	
15	- stamp colour	83	0	17	
16	- tar	83	0	17	
Average of 1-16		68	15	17	
Stickiness	No(%) Yes(%) 100 0	Seed-coat fragn	nents No(%	%) Yes(%) 33	

Table 72 2007

Country: Turkey	Growth: Turkey-Ot	hers	Number of Sa	amples:
		Degree	of contamina	ation (%)
Source of contamination		Non- existent/ insignificant	Moderate	Serious
1 Fabrics made of	- woven plastic	50	50	0
2	- plastic film	50	50	0
3	- jute/hessian	50	25	25
4	- cotton	75	25	0
5 Strings made of	- woven plastic	75	25	0
6	- plastic film	75	25	0
7	- jute/hessian	75	25	0
8	- cotton	75	25	0
9 Organic matter	- leaves, feathers, paper, leathere	0	75	25
10 Inorganic matter	- sand/dust	25	75	0
11	- rust	50	50	0
12	- metal/wire	75	25	0
13 Oily substances/chemicals	- grease/oil	100	0	0
14	- rubber	75	25	0
15	- stamp colour	75	25	0
16	- tar	100	0	0
Average of 1-16		64	33	3
Stickiness	No(%) Yes(%) 100 0	Seed-coat fragn	•	(%) Yes(%) 5 75

Press Release

Summary of Survey Results 2009

"Despite some improvements in the recent past foreign matter, stickiness and seed-coat fragments in raw cotton continue to be serious challenges to the cotton spinning industry worldwide." This is the general conclusion to be drawn from the "Cotton Contamination Survey 2009" which has just been released by the International Textile Manufacturers Federation (ITMF). The survey is carried out every other year, the 2009 edition being the eleventh in the series since the changeover to a new methodology in 1989. In the 2009 report, 110 spinning mills located in 23 countries evaluated 63 different cotton growths.

Contamination -- unchanged in comparison to 2007

The level of cottons modestly or seriously contaminated as perceived by the spinning mills from around the world did not increase compared to the last survey in 2007 remaining constant at 22%. A closer look at the extent of the contamination shows that 6% (2007: 7%) of all cotton evaluated were seriously contaminated by some sort of foreign matter whereas 16% (2007: 15%) were only moderately contaminated. As the summary data are arithmetic averages of the different contaminants, the extent of contamination is fully illustrated only by the results for the individual contaminants. They range from 4% for "tar" (2007: 5%) to 42% of all cottons processed being contaminated by "organic matter", i.e. leaves, feathers, paper, leather, etc. (2007: 40%). Other serious contaminants are "strings made of jute hessian" (32%), "strings made of woven plastic" (29%), "fabrics made of cotton" as well as "fabrics made of plastic film" and "strings made of cotton" (26% each). The most contaminated cotton descriptions considered for the survey originated in India, Pakistan, Egypt, Uzbekistan and Mali. In contrast, very clean raw cottons were produced in the USA, (Texas High Plains, Memphis, Pima, South Eastern, California), Israel, Australia, Brazil and the Ivory Coast.

Stickiness-record low

The presence of sticky cotton as perceived by the spinning mills fell in 2009 to 16%, the lowest level ever recorded (compared to 21% in 2007). Nevertheless, the level of stickiness is still considerable high and remains a major challenge to the spinning industry. Descriptions that were affected most by stickiness were those from Burkina Faso, Benin, Brazil, Chad, and Uzbekistan (medium staples). Also US cotton growths like US-Pima, Israel-Pima, Mali or Tajikistan (medium staples) were reported to be sticky. On the other end of the range, cottons from Egypt, Greece, USA (California, South Eastern), Australia, Ivory Coast, Nigeria, and Pakistan (AmSeed AFZAL, Others) or India (Shankar-4/6, MCU-5) were not or hardly affected by stickiness.

Seed-coatfragments--lowestlevelrecorded since introduction in 1991

With regard to seed-coat fragments the Cotton Contamination Survey 2009 shows that theirappearance in cotton growths remained an issue for spinners around the world with 31% claimingthat they have encountered them in the cotton growths consumed. This is the lowest level sinceincluding measuring the level of seed-coat fragments in the survey in 1991. The origins affected most by seed-coat fragments are those from Nigeria, India (H-4, J-34), USA (South Eastern), Uzbekistan (medium staples), Tajikistan (medium staples), Burkina Faso and Syria. Cotton descriptions for which the existence of seed-coat fragments was negligible (prevalence of less than 20%) included those from Australia, Benin, India (Others), Pakistan (Others), and the US (California, Texas High Plains).

April 2010

Participation

Table I 2009

Country	Number of respondents	Number of samples	Number of cotton growths
,	(participating companies)	(evaluations)	evaluated*
Argentina	2	4	2
Bangladesh	1	7	7
Belgium	1	10	10
Brazil	6	13	7
China	10	17	9
Ecuador	1	1	1
Egypt	26	56	5
Germany	4	18	11
Greece	1	2	2
India	17	79	20
Indonesia	1	19	19
Italy	2	13	11
Korea, Rep.	3	12	8
Malaysia	1	4	4
Nigeria	5	5	1
Pakistan	6	34	21
South Africa	2	9	6
Spain	2	6	5
Switzerland	1	3	3
Taiwan, China	5	33	24
Thailand	4	34	23
Turkey	5	18	11
USA	4	11	7
Total	110	408	-

^{* 63} different cotton descriptions have been evaluated.

Main Results

Table IIa 2009

AllCountries/AllGrowths			Number of Samples: 408			
				Degree of contamination (%)		
Source of contamination		Non- existent/ insignificant	Moderate	Serious		
1 Fabric	s made of	woven plastic		75	13	12
2		plastic film		74	19	7
3		jute/hessian		75	15	10
4		cotton		73	22	5
5 String	s made of	woven plastic		71	16	13
6		plastic film		77	15	8
7		jute/hessian		68	20	12
8		cotton		74	22	4
9 Organ	ic matter	leaves,feathers,paper,le	eather,etc.	58	32	10
10 Inorga	nic matter	sand/dust		74	21	5
11		rust		85	14	1
12		metal/wire		85	10	5
13 Oily s	ubstances/chemicals	grease/oil		84	13	3
14		rubber		92	8	0
15		stamp colour		89	9	2
16		tar		96	3	1
Average of	f1-16			78	16	6
Stickiness	No ('	%) Yes (%)			No (%) Y	es (%) 31
Ottoringss	04	10	Seed-coat	t fragments	03	J1

TableIIb 2009

	Deg	ree of contaminatio	n (%)	Stickiness	044
Year	Non- existent/ insignificant	Moderate	Serious	(%)	Seed-coat fragments (%)
1989	86	9	5	21	-
1991	85	11	4	27	34
1993	85	11	4	26	36
1995	82	13	5	20	39
1997	82	13	5	23	32
1999	79	15	6	20	38
2001	78	16	6	18	40
2003	73	18	8	21	44
2005	78	15	7	17	37
2007	78	15	7	21	37
2009	78	16	6	16	31

Contamination

Table IIIa 2009

The Mo	ost Contamina	ated Descriptions				
			Degree o	f contamination	on (%)*	
Ranking		Description	Non- existent/ insignificant	Moderate	Serious	Number of samples**
1.	India	MCU-5	44	30	26	14
2.	India	J-34	46	36	18	10
3.	India	H-4	48	30	22	8
4.	India	DCH	50	31	19	11
5.	Pakistan	Pakistan-Others	54	21	25	5
6.	India	Shankar-4/6	54	34	12	23
7.	Pakistan	AmSeed AFZAL	56	33	11	5
8.	Egypt	Giza	71	22	7	38
9.	Uzbekistan	Medium Staples	71	22	7	12
10.	Mali	Mali	73	18	9	5
11.	Benin	Benin	76	16	8	6
12.	India	India-Others	76	23	1	6
13.	Tajikistan	Medium Staples	77	20	3	5
14.	Nigeria	Nigeria	81	6	13	5

 $^{^{\}star}$ Average degree of contamination by $\it each$ of the 16 pre-indicated contaminants ** Minimum: 5 samples

Contamination

Table IIIb 2009

i able ili						2008
TheLe	ast Contamina	ated Descriptions				
			Degree o	f contaminatio	on (%)*	
Ranking		Description	Non- existent/ insignificant	Moderate	Serious	Number of samples**
1.	USA	Texas High Plains	96	4	0	13
2.	USA	Pima	95	5	0	15
3.	Israel	Pima	95	5	0	5
4.	USA	Memphis Territory	94	6	0	17
5.	Australia	Australia	94	6	0	9
6.	USA	South Eastern	94	6	0	7
7.	Brazil	Brazil	92	7	1	28
8.	Ivory Coast	Ivory Coast	91	8	1	5
9.	Syria	Syria	90	7	3	11
10.	USA	California	90	7	3	10
11.	Greece	Greece	88	11	1	27
12.	Chad	Chad	86	12	2	7
13.	Zimbabwe	Zimbabwe	81	19	0	8
14.	Burkina Faso	Burkina Faso	81	16	3	11

^{*} Average degree of contamination by *each* of the 16 pre-indicated contaminants ** Minimum: 5 samples

Stickiness

Table IVa 2009

Descri	Descriptions Most Affected by Stickiness							
Ranking		Affirmative replies (%)*	Number of samples**					
1.	Burkina Faso	Burkina Faso	45	11				
2.	Benin	Benin	33	6				
3.	Brazil	Brazil	32	28				
4.	Chad	Chad	29	7				
5.	Uzbekistan	Medium Staples	25	12				
6.	USA	Pima	20	15				
7.	Israel	Pima	20	5				
8.	Mali	Mali	20	5				
9.	Tajikistan	Medium Staples	20	5				
10.	India	DCH	18	11				
11.	Syria	Syria	18	11				
12.	India	India-Others	17	6				
13.	USA	Texas High Plains	15	13				
14.	USA	Memphis Territory	12	17				

^{*} Percentage of replies indicating the existence of stickiness ** Minimum: 5 samples

Stickiness

Table IVb 2009

Descri	Descriptions Least Affected by Stickiness							
Ranking		Description	Affirmative replies (%)*	Number of samples**				
1.	Egypt	Giza	0	38				
2.	Greece	Greece	0	27				
3.	USA	California	0	10				
4.	Australia	Australia	0	9				
5.	USA	South Eastern	0	7				
6.	Ivory Coast	Ivory Coast	0	5				
7.	Nigeria	Nigeria	0	5				
8.	Pakistan	AmSeed AFZAL	0	5				
9.	Pakistan	Pakistan-Others	0	5				
10.	India	Shankar-4/6	4	23				
11.	India	MCU-5	7	14				
12.	India	J-34	10	10				
13.	USA	Memphis Territory	12	17				
14.	India	H-4	12	8				

^{*} Percentage of replies indicating the existence of stickiness ** Minimum: 5 samples

Seed-coat Fragments

Table Va 2009

Descriptions Most Affected by Seed-coat Fragments							
Ranking		Description	Affirmative replies (%)*	Number of samples**			
1.	Nigeria	Nigeria	100	5			
2.	India	H-4	50	8			
3.	USA	South Eastern	43	7			
4.	Uzbekistan	Medium Staples	42	12			
5.	India	J-34	40	10			
6.	Tajikistan	Medium Staples	40	5			
7.	Burkina Faso	Burkina Faso	36	11			
8.	Syria	Syria	36	11			
9.	Egypt	Giza	32	38			
10.	Greece	Greece	30	27			
11.	India	Shankar-4/6	30	23			
12.	Brazil	Brazil	29	28			
13.	USA	Memphis Territory	29	17			
14.	India	MCU-5	29	14			

^{*} Percentage of replies indicating the existence of seed-coat fragments ** Minimum: 5 samples

Seed-coat Fragments

Table Vb 2009

Descriptions Least Affected by Seed-coat Fragments						
Ranking		Affirmative replies (%)*	Number of samples**			
1.	Australia	Australia	0	9		
2.	Benin	Benin	0	6		
3.	India	India-Others	0	6		
4.	Pakistan	Pakistan-Others	0	5		
5.	USA	California	10	10		
6.	Zimbabwe	Zimbabwe	12	8		
7.	USA	Texas High Plains	15	13		
8.	USA	Pima	20	15		
9.	Israel	Pima	20	5		
10.	Ivory Coast	Ivory Coast	20	5		
11.	Mali	Mali	20	5		
12.	Pakistan	AmSeed AFZAL	20	5		
13.	India	DCH	27	11		
14.	Brazil	Brazil	29	28		

^{*} Percentage of replies indicating the existence of seed-coat fragments ** Minimum: 5 samples

Table 1 2009

Country: Benin	Growth: Benin		nples: 6	
		Degree	of contaminat	ion (%)
Source of contamination		Non- existent/ insignificant	Moderate	Serious
1 Fabrics made of	- woven plastic	50	17	33
2	- plastic film	66	17	17
3	- jute/hessian	83	17	0
4	- cotton	66	17	17
5 Strings made of	- woven plastic	66	17	17
6	- plastic film	83	0	17
7	- jute/hessian	50	50	0
8	- cotton	50	17	33
9 Organic matter	- leaves, feathers, paper, leather e	50	50	0
10 Inorganic matter	- sand/dust	83	17	0
11	- rust	83	17	0
12	- metal/wire	100	0	0
13 Oily substances/chemicals	- grease/oil	83	17	0
14	- rubber	100	0	0
15	- stamp colour	100	0	0
16	- tar	100	0	0
Average of 1-16		76	16	8
Stickiness	No(%) Yes(%) 67 33	Seed-coat fragn	No(% 100	%) Yes(%) 0

Table 2 2009

Country: Burkina Faso	Growth: Burkina F	aso	Number of Samples:		
		Degree	of contaminat	ion (%)	
Source of contamination		Non- existent/ insignificant	Moderate	Serious	
1 Fabrics made of	- woven plastic	64	18	18	
2	- plastic film	91	0	9	
3	- jute/hessian	100	0	0	
4	- cotton	82	18	0	
5 Strings made of	- woven plastic	73	18	9	
6	- plastic film	91	0	9	
7	- jute/hessian	91	9	0	
8	- cotton	73	27	0	
9 Organic matter	- leaves, feathers, paper, leather e	55	36	9	
10 Inorganic matter	- sand/dust	64	36	0	
11	- rust	82	18	0	
12	- metal/wire	82	18	0	
13 Oily substances/chemicals	- grease/oil	82	18	0	
14	- rubber	91	9	0	
15	- stamp colour	82	18	0	
16	- tar	91	9	0	
Average of 1-16		81	16	3	
	No(%) Yes(%)		No(%	5) Yes(%)	
Stickiness	55 45	Seed-coat fragn		36	

Table 3 2009

Country: C. A. Republic Growth: Central African Rep Number of Samples:					
		Degree	tion (%)		
Source of contamination		Non- existent/ insignificant	Moderate	Serious	
1 Fabrics made of	- woven plastic	100	0	0	
2	- plastic film	0	100	0	
3	- jute/hessian	100	0	0	
4	- cotton	100	0	0	
5 Strings made of	- woven plastic	0	100	0	
6	- plastic film	100	0	0	
7	- jute/hessian	100	0	0	
8	- cotton	0	100	0	
9 Organic matter	- leaves, feathers, paper, leather e	0	100	0	
10 Inorganic matter	- sand/dust	100	0	0	
11	- rust	100	0	0	
12	- metal/wire	100	0	0	
13 Oily substances/chemicals	- grease/oil	100	0	0	
14	- rubber	100	0	0	
15	- stamp colour	100	0	0	
16	- tar	100	0	0	
Average of 1-16		75	25	0	
Stickiness	No(%) Yes(%) 100 0	Seed-coat fragn	No(conents 100		

Table 4 2009

Country: Cameroon	Growth: Cameroor	1	Number of Samples: 3			
		Degree	of contaminati	on (%)		
Source of contamination		Non- existent/ insignificant	Moderate	Serious		
1 Fabrics made of	- woven plastic	100	0	0		
2	- plastic film	100	0	0		
3	- jute/hessian	100	0	0		
4	- cotton	67	33	0		
5 Strings made of	- woven plastic	100	0	0		
6	- plastic film	100	0	0		
7	- jute/hessian	100	0	0		
8	- cotton	100	0	0		
9 Organic matter	- leaves, feathers, paper, leather e	67	33	0		
10 Inorganic matter	- sand/dust	33	67	0		
11	- rust	100	0	0		
12	- metal/wire	100	0	0		
13 Oily substances/chemicals	- grease/oil	33	67	0		
14	- rubber	100	0	0		
15	- stamp colour	100	0	0		
16	- tar	100	0	0		
Average of 1-16		87	13	0		
Stickiness	No(%) Yes(%) 67 33	Seed-coat fragn	No(% nents 67	6) Yes(%) 33		

Table 5 2009

Country: Chad	Growth: Chad		nples: 7	
		Degree	of contaminat	ion (%)
Source of contamination		Non- existent/ insignificant	Moderate	Serious
1 Fabrics made of	- woven plastic	86	14	0
2	- plastic film	86	14	0
3	- jute/hessian	100	0	0
4	- cotton	100	0	0
5 Strings made of	- woven plastic	100	0	0
6	- plastic film	86	14	0
7	- jute/hessian	100	0	0
8	- cotton	100	0	0
9 Organic matter	- leaves, feathers, paper, leather e	71	29	0
10 Inorganic matter	- sand/dust	14	57	29
11	- rust	71	29	0
12	- metal/wire	100	0	0
13 Oily substances/chemicals	- grease/oil	86	14	0
14	- rubber	100	0	0
15	- stamp colour	100	0	0
16	- tar	86	14	0
Average of 1-16		86	12	2
Stickiness	No(%) Yes(%) 71 29	Seed-coat fragn	No(%	%) Yes(%) 29

Table 6 2009

Country: Egypt	Growth: Giza	1	Number of San	nples: 38
		Degree	of contaminati	ion (%)
Source of contamination		Non- existent/ insignificant	Moderate	Serious
1 Fabrics made of	- woven plastic	71	21	8
2	- plastic film	79	16	5
3	- jute/hessian	73	16	11
4	- cotton	66	29	5
5 Strings made of	- woven plastic	71	21	8
6	- plastic film	63	21	16
7	- jute/hessian	57	32	11
8	- cotton	63	32	5
9 Organic matter	- leaves, feathers, paper, leather e	39	50	11
10 Inorganic matter	- sand/dust	73	24	3
11	- rust	76	21	3
12	- metal/wire	84	8	8
13 Oily substances/chemicals	- grease/oil	74	21	5
14	- rubber	86	11	3
15	- stamp colour	68	24	8
16	- tar	97	3	0
Average of 1-16		71	22	7
Stickiness	No(%) Yes(%) 100 0	Seed-coat fragn	No(%	S) Yes(%) 32

Table 7 2009

Country: Ethiopia	Growth: Ethiopia		Number of Samples:		
		Degree	of contaminat	ion (%)	
Source of contamination		Non- existent/ insignificant	Moderate	Serious	
1 Fabrics made of	- woven plastic	33	0	67	
2	- plastic film	100	0	0	
3	- jute/hessian	33	0	67	
4	- cotton	33	0	67	
5 Strings made of	- woven plastic	33	0	67	
6	- plastic film	100	0	0	
7	- jute/hessian	33	0	67	
8	- cotton	33	0	67	
9 Organic matter	- leaves, feathers, paper, leather e	0	33	67	
10 Inorganic matter	- sand/dust	67	33	0	
11	- rust	67	33	0	
12	- metal/wire	100	0	0	
13 Oily substances/chemicals	- grease/oil	100	0	0	
14	- rubber	100	0	0	
15	- stamp colour	100	0	0	
16	- tar	100	0	0	
Average of 1-16		65	6	29	
Stickiness	No(%) Yes(%) 100 0	Seed-coat fragn	No(%	%) Yes(%) 0	

Table 8 2009

Country: Ghana	Growth: Ghana	ı	Number of Sam	ıples:
		Degree	of contaminati	on (%)
Source of contamination		Non- existent/ insignificant	Moderate	Serious
1 Fabrics made of	- woven plastic	100	0	0
2	- plastic film	100	0	0
3	- jute/hessian	100	0	0
4	- cotton	100	0	0
5 Strings made of	- woven plastic	100	0	0
6	- plastic film	100	0	0
7	- jute/hessian	100	0	0
8	- cotton	100	0	0
9 Organic matter	- leaves, feathers, paper, leather e	100	0	0
10 Inorganic matter	- sand/dust	100	0	0
11	- rust	0	0	100
12	- metal/wire	100	0	0
13 Oily substances/chemicals	- grease/oil	100	0	0
14	- rubber	100	0	0
15	- stamp colour	100	0	0
16	- tar	100	0	0
Average of 1-16		94	0	6
Stickiness	No(%) Yes(%) 0 100	Seed-coat fragn	No(% nents 100) Yes(%) 0

Table 9 2009

Country: Ivory Coast	Growth: Ivory Coas	st	t Number of Samples:		
		Degree	of contamination (%)		
Source of contamination		Non- existent/ insignificant	Moderate	Serious	
1 Fabrics made of	- woven plastic	80	0	20	
2	- plastic film	100	0	0	
3	- jute/hessian	100	0	0	
4	- cotton	80	20	0	
5 Strings made of	- woven plastic	80	20	0	
6	- plastic film	100	0	0	
7	- jute/hessian	100	0	0	
8	- cotton	80	20	0	
9 Organic matter	- leaves, feathers, paper, leather e	80	20	0	
10 Inorganic matter	- sand/dust	100	0	0	
11	- rust	100	0	0	
12	- metal/wire	60	40	0	
13 Oily substances/chemicals	- grease/oil	100	0	0	
14	- rubber	100	0	0	
15	- stamp colour	100	0	0	
16	- tar	100	0	0	
Average of 1-16		91	8	1	
Stickiness	No(%) Yes(%) 100 0	Seed-coat fragn	No(%	%) Yes(%) 20	

Table 10 2009

Country: Malawi	Growth: Malawi	1	Number of San	of Samples: 2	
		Degree	ion (%)		
Source of contamination		Non- existent/ insignificant	Moderate	Serious	
1 Fabrics made of	- woven plastic	100	0	0	
2	- plastic film	100	0	0	
3	- jute/hessian	50	50	0	
4	- cotton	50	50	0	
5 Strings made of	- woven plastic	100	0	0	
6	- plastic film	100	0	0	
7	- jute/hessian	50	50	0	
8	- cotton	50	50	0	
9 Organic matter	- leaves, feathers, paper, leather e	50	50	0	
10 Inorganic matter	- sand/dust	100	0	0	
11	- rust	100	0	0	
12	- metal/wire	100	0	0	
13 Oily substances/chemicals	- grease/oil	100	0	0	
14	- rubber	100	0	0	
15	- stamp colour	100	0	0	
16	- tar	100	0	0	
Average of 1-16		84	16	0	
Stickiness	No(%) Yes(%) 100 0	Seed-coat fragn	No(% nents 50	%) Yes(%) 50	

Table 11 2009

Country: Mali	Growth: Mali		Number of Samples:		
		Degree	of contaminat	ion (%)	
Source of contamination		Non- existent/ insignificant	Moderate	Serious	
1 Fabrics made of	- woven plastic	60	20	20	
2	- plastic film	40	40	20	
3	- jute/hessian	80	20	0	
4	- cotton	80	0	20	
5 Strings made of	- woven plastic	40	20	40	
6	- plastic film	60	20	20	
7	- jute/hessian	60	40	0	
8	- cotton	60	20	20	
9 Organic matter	- leaves, feathers, paper, leather e	40	60	0	
10 Inorganic matter	- sand/dust	80	20	0	
11	- rust	80	20	0	
12	- metal/wire	100	0	0	
13 Oily substances/chemicals	- grease/oil	100	0	0	
14	- rubber	100	0	0	
15	- stamp colour	100	0	0	
16	- tar	100	0	0	
Average of 1-16		73	18	9	
Stickiness	No(%) Yes(%) 80 20	Seed-coat fragn	No(% nents 80	%) Yes(%) 20	

Table 12 2009

Country: Mozambique	Growth: Mozambio	lue	Number of Samples:	
		Degree of contamination (%		
Source of contamination		Non- existent/ insignificant	Moderate	Serious
1 Fabrics made of	- woven plastic	100	0	0
2	- plastic film	50	50	0
3	- jute/hessian	100	0	0
4	- cotton	100	0	0
5 Strings made of	- woven plastic	100	0	0
6	- plastic film	50	50	0
7	- jute/hessian	50	50	0
8	- cotton	100	0	0
9 Organic matter	- leaves, feathers, paper, leather e	50	50	0
10 Inorganic matter	- sand/dust	0	100	0
11	- rust	100	0	0
12	- metal/wire	100	0	0
13 Oily substances/chemicals	- grease/oil	50	50	0
14	- rubber	100	0	0
15	- stamp colour	100	0	0
16	- tar	50	50	0
Average of 1-16		75	25	0
Stickiness	No(%) Yes(%) 50 50	Seed-coat fragn	No(% nents 50	%) Yes(%) 50

Table 13 2009

Country: Nigeria	Growth: Nigeria		Number of San	mber of Samples:		
		Degree	of contaminat	ion (%)		
Source of contamination		Non- existent/ insignificant	Moderate	Serious		
1 Fabrics made of	- woven plastic	0	0	100		
2	- plastic film	100	0	0		
3	- jute/hessian	100	0	0		
4	- cotton	100	0	0		
5 Strings made of	- woven plastic	0	0	100		
6	- plastic film	100	0	0		
7	- jute/hessian	100	0	0		
8	- cotton	100	0	0		
9 Organic matter	- leaves, feathers, paper, leather e	100	0	0		
10 Inorganic matter	- sand/dust	0	100	0		
11	- rust	100	0	0		
12	- metal/wire	100	0	0		
13 Oily substances/chemicals	- grease/oil	100	0	0		
14	- rubber	100	0	0		
15	- stamp colour	100	0	0		
16	- tar	100	0	0		
Average of 1-16		81	6	13		
Stickiness	No(%) Yes(%) 100 0	Seed-coat fragn	No(%	%) Yes(%)		

Table 14 2009

Country: Senegal	Growth: Senegal	ı	Number of Sam			
		Degree of contamination (9		on (%)		
Source of contamination		Non- existent/ insignificant	Moderate	Serious		
1 Fabrics made of	- woven plastic	100	0	0		
2	- plastic film	100	0	0		
3	- jute/hessian	67	0	33		
4	- cotton	100	0	0		
5 Strings made of	- woven plastic	100	0	0		
6	- plastic film	67	33	0		
7	- jute/hessian	67	33	0		
8	- cotton	100	0	0		
9 Organic matter	- leaves, feathers, paper, leather e	34	33	33		
10 Inorganic matter	- sand/dust	100	0	0		
11	- rust	100	0	0		
12	- metal/wire	100	0	0		
13 Oily substances/chemicals	- grease/oil	100	0	0		
14	- rubber	100	0	0		
15	- stamp colour	100	0	0		
16	- tar	100	0	0		
Average of 1-16		90	6	4		
Stickiness	No(%) Yes(%) 100 0	Seed-coat fragn	No(% nents 100	o) Yes(%) 0		

Table 15 2009

Country: South Africa	Growth: South Afri	ca	Number of Samples: 2		
		Degree of contamination (%)			
Source of contamination		Non- existent/ insignificant	Moderate	Serious	
1 Fabrics made of	- woven plastic	100	0	0	
2	- plastic film	100	0	0	
3	- jute/hessian	100	0	0	
4	- cotton	100	0	0	
5 Strings made of	- woven plastic	100	0	0	
6	- plastic film	100	0	0	
7	- jute/hessian	100	0	0	
8	- cotton	100	0	0	
9 Organic matter	- leaves, feathers, paper, leather e	100	0	0	
10 Inorganic matter	- sand/dust	100	0	0	
11	- rust	100	0	0	
12	- metal/wire	100	0	0	
13 Oily substances/chemicals	- grease/oil	100	0	0	
14	- rubber	100	0	0	
15	- stamp colour	100	0	0	
16	- tar	100	0	0	
Average of 1-16		100	0	0	
Stickiness	No(%) Yes(%) 100 0	Seed-coat fragn	No(% nents 50	b) Yes(%) 50	

Table 16 2009

Country: Sudan	Growth: Barakat		Number of Samples:		
		Degree	of contaminat	ion (%)	
Source of contamination		Non- existent/ insignificant	Moderate	Serious	
1 Fabrics made of	- woven plastic	75	25	0	
2	- plastic film	100	0	0	
3	- jute/hessian	25	75	0	
4	- cotton	50	25	25	
5 Strings made of	- woven plastic	100	0	0	
6	- plastic film	75	25	0	
7	- jute/hessian	0	50	50	
8	- cotton	75	25	0	
9 Organic matter	- leaves, feathers, paper, leather e	75	0	25	
10 Inorganic matter	- sand/dust	75	0	25	
11	- rust	100	0	0	
12	- metal/wire	25	25	50	
13 Oily substances/chemicals	- grease/oil	75	25	0	
14	- rubber	50	50	0	
15	- stamp colour	100	0	0	
16	- tar	75	25	0	
Average of 1-16		67	22	11	
	No(%) Yes(%)		No(%	%) Yes(%)	
Stickiness	50 50	Seed-coat fragm		25	

Table 17 2009

Country: Tanzania	Growth: Coastal	Number of Samples:		
		Degree of contamination (%)		
Source of contamination		Non- existent/ insignificant	Moderate	Serious
1 Fabrics made of	- woven plastic	100	0	0
2	- plastic film	100	0	0
3	- jute/hessian	0	100	0
4	- cotton	100	0	0
5 Strings made of	- woven plastic	0	100	0
6	- plastic film	100	0	0
7	- jute/hessian	0	100	0
8	- cotton	0	100	0
9 Organic matter	- leaves, feathers, paper, leather e	0	100	0
10 Inorganic matter	- sand/dust	0	100	0
11	- rust	100	0	0
12	- metal/wire	100	0	0
13 Oily substances/chemicals	- grease/oil	100	0	0
14	- rubber	100	0	0
15	- stamp colour	100	0	0
16	- tar	100	0	0
Average of 1-16		62	38	0
Stickiness	No(%) Yes(%) 100 0	Seed-coat fragn	No(9 nents 100	

Table 18 2009

Country: Togo	Growth: Togo	Number of Samples:			
		Degree	of contamina	mination (%)	
Source of contamination		Non- existent/ insignificant	Moderate	Serious	
1 Fabrics made of	- woven plastic	50	50	0	
2	- plastic film	100	0	0	
3	- jute/hessian	100	0	0	
4	- cotton	100	0	0	
5 Strings made of	- woven plastic	50	50	0	
6	- plastic film	100	0	0	
7	- jute/hessian	50	50	0	
8	- cotton	50	50	0	
9 Organic matter	- leaves, feathers, paper, leather e	50	50	0	
10 Inorganic matter	- sand/dust	100	0	0	
11	- rust	100	0	0	
12	- metal/wire	100	0	0	
13 Oily substances/chemicals	- grease/oil	100	0	0	
14	- rubber	100	0	0	
15	- stamp colour	100	0	0	
16	- tar	100	0	0	
Average of 1-16		84	16	0	
	No(%) Yes(%)		No(^c	%) Yes(%)	
Stickiness	100 0	Seed-coat fragments 100 0			

Table 19 2009

Country: Uganda	Growth: Uganda	Number of Samples:			
		Degree	e of contamination (%)		
Source of contamination		Non- existent/ insignificant	Moderate	Serious	
1 Fabrics made of	- woven plastic	100	0	0	
2	- plastic film	100	0	0	
3	- jute/hessian	100	0	0	
4	- cotton	33	67	0	
5 Strings made of	- woven plastic	100	0	0	
6	- plastic film	100	0	0	
7	- jute/hessian	100	0	0	
8	- cotton	33	67	0	
9 Organic matter	- leaves, feathers, paper, leather e	100	0	0	
10 Inorganic matter	- sand/dust	100	0	0	
11	- rust	100	0	0	
12	- metal/wire	100	0	0	
13 Oily substances/chemicals	- grease/oil	100	0	0	
14	- rubber	100	0	0	
15	- stamp colour	100	0	0	
16	- tar	100	0	0	
Average of 1-16		92	8	0	
Stickiness	No(%) Yes(%) 100 0	Seed-coat fragn	No(% 100	S) Yes(%) 0	

Table 20 2009

Country: Zambia	Growth: Zambia		mples: 3		
		Degree	ee of contamination (%)		
Source of contamination		Non- existent/ insignificant	Moderate	Serious	
1 Fabrics made of	- woven plastic	67	33	0	
2	- plastic film	67	33	0	
3	- jute/hessian	67	33	0	
4	- cotton	33	67	0	
5 Strings made of	- woven plastic	67	33	0	
6	- plastic film	67	33	0	
7	- jute/hessian	33	67	0	
8	- cotton	33	67	0	
9 Organic matter	- leaves, feathers, paper, leather e	67	33	0	
10 Inorganic matter	- sand/dust	100	0	0	
11	- rust	100	0	0	
12	- metal/wire	100	0	0	
13 Oily substances/chemicals	- grease/oil	100	0	0	
14	- rubber	100	0	0	
15	- stamp colour	100	0	0	
16	- tar	100	0	0	
Average of 1-16		75	25	0	
Stickiness	No(%) Yes(%) 100 0	Seed-coat fragn	No(% nents 67	%) Yes(%) 33	

Table 21 2009

Country: Zimbabwe	Growth: Zimbabwe		Number of San	nples: 8
		Degree	of contaminati	on (%)
Source of contamination		Non- existent/ insignificant	Moderate	Serious
1 Fabrics made of	- woven plastic	87	13	0
2	- plastic film	87	13	0
3	- jute/hessian	75	25	0
4	- cotton	62	38	0
5 Strings made of	- woven plastic	75	25	0
6	- plastic film	87	13	0
7	- jute/hessian	62	38	0
8	- cotton	62	38	0
9 Organic matter	- leaves, feathers, paper, leather e	62	38	0
10 Inorganic matter	- sand/dust	62	38	0
11	- rust	87	13	0
12	- metal/wire	100	0	0
13 Oily substances/chemicals	- grease/oil	87	13	0
14	- rubber	100	0	0
15	- stamp colour	100	0	0
16	- tar	100	0	0
Average of 1-16		81	19	0
Stickiness	No(%) Yes(%) 88 13	Seed-coat fragi	No(%	%) Yes(%)

Table 22 2009

Country: Mexico	Growth: Mexicali	Number of Samples:			
		Degree	ee of contamination (%)		
Source of contamination		Non- existent/ insignificant	Moderate	Serious	
1 Fabrics made of	- woven plastic	100	0	0	
2	- plastic film	100	0	0	
3	- jute/hessian	100	0	0	
4	- cotton	100	0	0	
5 Strings made of	- woven plastic	100	0	0	
6	- plastic film	100	0	0	
7	- jute/hessian	100	0	0	
8	- cotton	100	0	0	
9 Organic matter	- leaves, feathers, paper, leather e	100	0	0	
10 Inorganic matter	- sand/dust	100	0	0	
11	- rust	100	0	0	
12	- metal/wire	100	0	0	
13 Oily substances/chemicals	- grease/oil	100	0	0	
14	- rubber	100	0	0	
15	- stamp colour	100	0	0	
16	- tar	100	0	0	
Average of 1-16		100	0	0	
Stickiness	No(%) Yes(%) 0 100	Seed-coat fragn	No(% 100	o) Yes(%) 0	

Table 23 2009

Country: Mexico	Growth: Mexico-Of	thers	Number of Samples:	
		Degree of contamination		on (%)
Source of contamination		Non- existent/ insignificant	Moderate	Serious
1 Fabrics made of	- woven plastic	0	0	100
2	- plastic film	100	0	0
3	- jute/hessian	100	0	0
4	- cotton	100	0	0
5 Strings made of	- woven plastic	0	0	100
6	- plastic film	100	0	0
7	- jute/hessian	100	0	0
8	- cotton	100	0	0
9 Organic matter	- leaves, feathers, paper, leather e	100	0	0
10 Inorganic matter	- sand/dust	100	0	0
11	- rust	100	0	0
12	- metal/wire	100	0	0
13 Oily substances/chemicals	- grease/oil	100	0	0
14	- rubber	100	0	0
15	- stamp colour	100	0	0
16	- tar	100	0	0
Average of 1-16		87	0	13
Stickiness	No(%) Yes(%) 100 0	Seed-coat fragm	No(% nents 100	o) Yes(%)

Table 24 2009

Country: Mexico	Growth: Sinaloa/Se	enora	Number of Samples:		
		Degree	Degree of contamination (%)		
Source of contamination		Non- existent/ insignificant	Moderate	Serious	
1 Fabrics made of	- woven plastic	100	0	0	
2	- plastic film	100	0	0	
3	- jute/hessian	100	0	0	
4	- cotton	100	0	0	
5 Strings made of	- woven plastic	0	100	0	
6	- plastic film	100	0	0	
7	- jute/hessian	0	100	0	
8	- cotton	0	100	0	
9 Organic matter	- leaves, feathers, paper, leather e	0	100	0	
10 Inorganic matter	- sand/dust	100	0	0	
11	- rust	100	0	0	
12	- metal/wire	100	0	0	
13 Oily substances/chemicals	- grease/oil	100	0	0	
14	- rubber	100	0	0	
15	- stamp colour	100	0	0	
16	- tar	100	0	0	
Average of 1-16		75	25	0	
Stickiness	No(%) Yes(%) 100 0	Seed-coat fragn	No(%	%) Yes(%) 0	

Table 25 2009

Country: U.S.A.	Growth: Arizona	ı	Number of Samples:		
		Degree	of contaminati	on (%)	
Source of contamination		Non- existent/ insignificant	Moderate	Serious	
1 Fabrics made of	- woven plastic	100	0	0	
2	- plastic film	100	0	0	
3	- jute/hessian	67	33	0	
4	- cotton	67	33	0	
5 Strings made of	- woven plastic	100	0	0	
6	- plastic film	100	0	0	
7	- jute/hessian	100	0	0	
8	- cotton	100	0	0	
9 Organic matter	- leaves, feathers, paper, leather e	100	0	0	
10 Inorganic matter	- sand/dust	100	0	0	
11	- rust	100	0	0	
12	- metal/wire	100	0	0	
13 Oily substances/chemicals	- grease/oil	100	0	0	
14	- rubber	100	0	0	
15	- stamp colour	100	0	0	
16	- tar	100	0	0	
Average of 1-16		96	4	0	
Stickiness	No(%) Yes(%) 100 0	Seed-coat fragm	No(% nents 100	yes(%) 0	

Table 26 2009

Country: U.S.A.	Growth: California	Number of Samples:		
		Degree	of contaminat	tion (%)
Source of contamination		Non- existent/ insignificant	Moderate	Serious
1 Fabrics made of	- woven plastic	100	0	0
2	- plastic film	80	20	0
3	- jute/hessian	80	0	20
4	- cotton	100	0	0
5 Strings made of	- woven plastic	90	0	10
6	- plastic film	80	20	0
7	- jute/hessian	80	0	20
8	- cotton	100	0	0
9 Organic matter	- leaves, feathers, paper, leather e	80	20	0
10 Inorganic matter	- sand/dust	70	30	0
11	- rust	80	20	0
12	- metal/wire	100	0	0
13 Oily substances/chemicals	- grease/oil	100	0	0
14	- rubber	100	0	0
15	- stamp colour	100	0	0
16	- tar	100	0	0
Average of 1-16		90	7	3
Stickiness	No(%) Yes(%) 100 0	Seed-coat fragn	No(%	%) Yes(%) 10

Table 27 2009

Country: U.S.A.	Growth: El Paso	- 1	Number of Samples:		
		Degree	on (%)		
Source of contamination		Non- existent/ insignificant	Moderate	Serious	
1 Fabrics made of	- woven plastic	100	0	0	
2	- plastic film	100	0	0	
3	- jute/hessian	100	0	0	
4	- cotton	100	0	0	
5 Strings made of	- woven plastic	100	0	0	
6	- plastic film	100	0	0	
7	- jute/hessian	100	0	0	
8	- cotton	100	0	0	
9 Organic matter	- leaves, feathers, paper, leather e	100	0	0	
10 Inorganic matter	- sand/dust	100	0	0	
11	- rust	100	0	0	
12	- metal/wire	100	0	0	
13 Oily substances/chemicals	- grease/oil	100	0	0	
14	- rubber	100	0	0	
15	- stamp colour	100	0	0	
16	- tar	100	0	0	
Average of 1-16		100	0	0	
	No(%) Yes(%)		No(%) Yes(%)	
Stickiness	100 0	Seed-coat fragm	nents 100	0	

Table 28 2009

Country: U.S.A.	Growth: Memphis	Territory	Number of San	nples: 17	
		Degree	e of contamination (%)		
Source of contamination		Non- existent/ insignificant	Moderate	Serious	
1 Fabrics made of	- woven plastic	94	6	0	
2	- plastic film	70	24	6	
3	- jute/hessian	100	0	0	
4	- cotton	94	6	0	
5 Strings made of	- woven plastic	94	6	0	
6	- plastic film	94	6	0	
7	- jute/hessian	100	0	0	
8	- cotton	94	6	0	
9 Organic matter	- leaves, feathers, paper, leather e	88	12	0	
10 Inorganic matter	- sand/dust	94	6	0	
11	- rust	94	6	0	
12	- metal/wire	94	6	0	
13 Oily substances/chemicals	- grease/oil	88	12	0	
14	- rubber	100	0	0	
15	- stamp colour	100	0	0	
16	- tar	100	0	0	
Average of 1-16		94	6	0	
Stickiness	No(%) Yes(%) 88 12	Seed-coat frag	No(%	5) Yes(%) 29	

Table 29 2009

Country: U.S.A.	Growth: Pima	1	Number of Samples:		
		Degree	of contaminati	on (%)	
Source of contamination		Non- existent/ insignificant	Moderate	Serious	
1 Fabrics made of	- woven plastic	100	0	0	
2	- plastic film	100	0	0	
3	- jute/hessian	93	7	0	
4	- cotton	100	0	0	
5 Strings made of	- woven plastic	93	7	0	
6	- plastic film	93	7	0	
7	- jute/hessian	87	13	0	
8	- cotton	93	7	0	
9 Organic matter	- leaves, feathers, paper, leather e	80	20	0	
10 Inorganic matter	- sand/dust	93	7	0	
11	- rust	100	0	0	
12	- metal/wire	100	0	0	
13 Oily substances/chemicals	- grease/oil	93	7	0	
14	- rubber	100	0	0	
15	- stamp colour	100	0	0	
16	- tar	100	0	0	
Average of 1-16		95	5	0	
Stickiness	No(%) Yes(%) 80 20	Seed-coat fragn	No(%	o) Yes(%) 20	

Table 30 2009

Country: U.S.A.	Growth: South Eas	tern	Number of San	nples: 7	
		Degree	egree of contamination (%)		
Source of contamination		Non- existent/ insignificant	Moderate	Serious	
1 Fabrics made of	- woven plastic	100	0	0	
2	- plastic film	71	29	0	
3	- jute/hessian	100	0	0	
4	- cotton	100	0	0	
5 Strings made of	- woven plastic	100	0	0	
6	- plastic film	100	0	0	
7	- jute/hessian	100	0	0	
8	- cotton	100	0	0	
9 Organic matter	- leaves, feathers, paper, leather e	100	0	0	
10 Inorganic matter	- sand/dust	86	14	0	
11	- rust	86	14	0	
12	- metal/wire	86	14	0	
13 Oily substances/chemicals	- grease/oil	71	29	0	
14	- rubber	100	0	0	
15	- stamp colour	100	0	0	
16	- tar	100	0	0	
Average of 1-16		94	6	0	
Stickiness	No(%) Yes(%) 100 0	Seed-coat fragr	No(%	%) Yes(%) 43	

Table 31 2009

Country: U.S.A.	Growth: Texas Hig	h Plains	Number of San	nples: 1	
		Degre	Degree of contamination (%)		
Source of contamination		Non- existent/ insignificant	Moderate	Serious	
1 Fabrics made of	- woven plastic	100	0	0	
2	- plastic film	92	8	0	
3	- jute/hessian	85	15	0	
4	- cotton	100	0	0	
5 Strings made of	- woven plastic	100	0	0	
6	- plastic film	100	0	0	
7	- jute/hessian	100	0	0	
8	- cotton	100	0	0	
9 Organic matter	- leaves, feathers, paper, leather e	85	15	0	
10 Inorganic matter	- sand/dust	85	15	0	
11	- rust	100	0	0	
12	- metal/wire	92	8	0	
13 Oily substances/chemicals	- grease/oil	92	8	0	
14	- rubber	100	0	0	
15	- stamp colour	100	0	0	
16	- tar	100	0	0	
Average of 1-16		96	4	0	
Stickiness	No(%) Yes(%) 85 15	Seed-coat frag	No(% ments 85	5) Yes(%) 15	

Table 32 2009

Country: U.S.A.	Growth: USA-Othe	rs	Number of San	nples: 3
		Degree	of contaminat	ion (%)
Source of contamination		Non- existent/ insignificant	Moderate	Serious
1 Fabrics made of	- woven plastic	100	0	0
2	- plastic film	100	0	0
3	- jute/hessian	100	0	0
4	- cotton	100	0	0
5 Strings made of	- woven plastic	100	0	0
6	- plastic film	100	0	0
7	- jute/hessian	100	0	0
8	- cotton	100	0	0
9 Organic matter	- leaves, feathers, paper, leather e	67	0	33
10 Inorganic matter	- sand/dust	100	0	0
11	- rust	100	0	0
12	- metal/wire	100	0	0
13 Oily substances/chemicals	- grease/oil	100	0	0
14	- rubber	100	0	0
15	- stamp colour	100	0	0
16	- tar	100	0	0
Average of 1-16		98	0	2
Stickiness	No(%) Yes(%)	Seed-coat fragn	No(% nents	%) Yes(%)

America, South

Table 33 2009

Country: Argentina	Growth: Argentina	Number of Samples:			
		Degree of contaminat		ion (%)	
Source of contamination		Non- existent/ insignificant	Moderate	Serious	
1 Fabrics made of	- woven plastic	75	25	0	
2	- plastic film	100	0	0	
3	- jute/hessian	100	0	0	
4	- cotton	75	25	0	
5 Strings made of	- woven plastic	75	25	0	
6	- plastic film	100	0	0	
7	- jute/hessian	100	0	0	
8	- cotton	75	25	0	
9 Organic matter	- leaves, feathers, paper, leather e	100	0	0	
10 Inorganic matter	- sand/dust	100	0	0	
11	- rust	75	25	0	
12	- metal/wire	100	0	0	
13 Oily substances/chemicals	- grease/oil	100	0	0	
14	- rubber	100	0	0	
15	- stamp colour	100	0	0	
16	- tar	100	0	0	
Average of 1-16		92	8	0	
Stickiness	No(%) Yes(%) 100 0	Seed-coat fragn	No(% nents 75	%) Yes(%) 25	

Table 34 2009

Country: Brazil	Growth: Brazil		Number of San	nples: 2
		Degree	of contaminati	ion (%)
Source of contamination		Non- existent/ insignificant	Moderate	Serious
1 Fabrics made of	- woven plastic	92	4	4
2	- plastic film	82	14	4
3	- jute/hessian	100	0	0
4	- cotton	86	14	0
5 Strings made of	- woven plastic	82	14	4
6	- plastic film	89	7	4
7	- jute/hessian	93	7	0
8	- cotton	93	7	0
9 Organic matter	- leaves, feathers, paper, leather e	75	25	0
10 Inorganic matter	- sand/dust	86	14	0
11	- rust	100	0	0
12	- metal/wire	89	7	4
13 Oily substances/chemicals	- grease/oil	96	0	4
14	- rubber	96	4	0
15	- stamp colour	100	0	0
16	- tar	100	0	0
Average of 1-16		91	7	2
	No(%) Yes(%)		No(%	
Stickiness	68 32	Seed-coat fragm	nents /1	29

America, South

Table 35 2009

Country: Colombia	Growth: Acala	1	lumber of Samples:		
		Degree	Degree of contamination (%)		
Source of contamination		Non- existent/ insignificant	Moderate	Serious	
1 Fabrics made of	- woven plastic	100	0	0	
2	- plastic film	100	0	0	
3	- jute/hessian	100	0	0	
4	- cotton	100	0	0	
5 Strings made of	- woven plastic	100	0	0	
6	- plastic film	100	0	0	
7	- jute/hessian	100	0	0	
8	- cotton	100	0	0	
9 Organic matter	- leaves, feathers, paper, leather e	100	0	0	
10 Inorganic matter	- sand/dust	100	0	0	
11	- rust	100	0	0	
12	- metal/wire	100	0	0	
13 Oily substances/chemicals	- grease/oil	100	0	0	
14	- rubber	100	0	0	
15	- stamp colour	100	0	0	
16	- tar	100	0	0	
Average of 1-16		100	0	0	
Stickiness	No(%) Yes(%)	Seed-coat fragn	No(%)) Yes(%) 0	

Table 36 2009

Country: Peru	Growth: Pima	ı	Number of Samples:		
		Degree	of contaminati	on (%)	
Source of contamination		Non- existent/ insignificant	Moderate	Serious	
1 Fabrics made of	- woven plastic	100	0	0	
2	- plastic film	100	0	0	
3	- jute/hessian	100	0	0	
4	- cotton	100	0	0	
5 Strings made of	- woven plastic	100	0	0	
6	- plastic film	100	0	0	
7	- jute/hessian	100	0	0	
8	- cotton	100	0	0	
9 Organic matter	- leaves, feathers, paper, leather e	100	0	0	
10 Inorganic matter	- sand/dust	100	0	0	
11	- rust	100	0	0	
12	- metal/wire	100	0	0	
13 Oily substances/chemicals	- grease/oil	100	0	0	
14	- rubber	100	0	0	
15	- stamp colour	100	0	0	
16	- tar	100	0	0	
Average of 1-16		100	0	0	
Stickiness	No(%) Yes(%) 0 100	Seed-coat fragm	No(% nents 100) Yes(%) 0	

Table 37 2009

Country: Australia	Growth: Australia		Number of Samples:		
		Degree	of contaminati	ion (%)	
Source of contamination		Non- existent/ insignificant	Moderate	Serious	
1 Fabrics made of	- woven plastic	100	0	0	
2	- plastic film	100	0	0	
3	- jute/hessian	89	11	0	
4	- cotton	89	11	0	
5 Strings made of	- woven plastic	89	11	0	
6	- plastic film	100	0	0	
7	- jute/hessian	67	33	0	
8	- cotton	89	11	0	
9 Organic matter	- leaves, feathers, paper, leather e	89	11	0	
10 Inorganic matter	- sand/dust	100	0	0	
11	- rust	100	0	0	
12	- metal/wire	100	0	0	
13 Oily substances/chemicals	- grease/oil	100	0	0	
14	- rubber	100	0	0	
15	- stamp colour	100	0	0	
16	- tar	100	0	0	
Average of 1-16		94	6	0	
Stickiness	No(%) Yes(%) 100 0	Seed-coat fragn	No(% 100	b) Yes(%) 0	

Table 38 2009

Country: China	Growth: China-Oth	iers _N	Number of Samples:	
		Degree o	Degree of contamination (%	
Source of contamination		Non- existent/ insignificant	Moderate	Serious
1 Fabrics made of	- woven plastic	100	0	0
2	- plastic film	100	0	0
3	- jute/hessian	100	0	0
4	- cotton	100	0	0
5 Strings made of	- woven plastic	100	0	0
6	- plastic film	100	0	0
7	- jute/hessian	100	0	0
8	- cotton	100	0	0
9 Organic matter	- leaves, feathers, paper, leather e	100	0	0
10 Inorganic matter	- sand/dust	100	0	0
11	- rust	100	0	0
12	- metal/wire	100	0	0
13 Oily substances/chemicals	- grease/oil	100	0	0
14	- rubber	100	0	0
15	- stamp colour	100	0	0
16	- tar	100	0	0
Average of 1-16		100	0	0
Stickiness	No(%) Yes(%) 100 0	Seed-coat fragme	No(% ents 100	yes(%) 0

Table 39 2009

Country: China	Growth: Xinjiang		Number of San	nples: 3
		Degree	of contaminat	ion (%)
Source of contamination		Non- existent/ insignificant	Moderate	Serious
1 Fabrics made of	- woven plastic	100	0	0
2	- plastic film	100	0	0
3	- jute/hessian	100	0	0
4	- cotton	100	0	0
5 Strings made of	- woven plastic	100	0	0
6	- plastic film	67	33	0
7	- jute/hessian	67	33	0
8	- cotton	100	0	0
9 Organic matter	- leaves, feathers, paper, leather e	100	0	0
10 Inorganic matter	- sand/dust	100	0	0
11	- rust	100	0	0
12	- metal/wire	100	0	0
13 Oily substances/chemicals	- grease/oil	100	0	0
14	- rubber	100	0	0
15	- stamp colour	100	0	0
16	- tar	100	0	0
Average of 1-16		96	4	0
Stickiness	No(%) Yes(%) 100 0	Seed-coat fragn	No(% 100 nents	%) Yes(%) 0

Table 40 2009

Country: India	Growth: DCH		Number of San	nples: 1
		Degree of contamination (%		
Source of contamination		Non- existent/ insignificant	Moderate	Serious
1 Fabrics made of	- woven plastic	45	0	55
2	- plastic film	46	36	18
3	- jute/hessian	46	9	45
4	- cotton	27	73	0
5 Strings made of	- woven plastic	27	18	55
6	- plastic film	37	36	27
7	- jute/hessian	9	27	64
8	- cotton	45	55	0
9 Organic matter	- leaves, feathers, paper, leather e	19	36	45
10 Inorganic matter	- sand/dust	45	55	0
11	- rust	64	36	0
12	- metal/wire	64	36	0
13 Oily substances/chemicals	- grease/oil	91	9	0
14	- rubber	73	27	0
15	- stamp colour	73	27	0
16	- tar	91	9	0
Average of 1-16		50	31	19
Stickiness	No(%) Yes(%) 82 18	Seed-coat fragn	No(%	5) Yes(%) 27

Table 41 2009

Country: India	Growth: H-4		nples: 8	
		Degree	of contaminat	ion (%)
Source of contamination		Non- existent/ insignificant	Moderate	Serious
1 Fabrics made of	- woven plastic	62	0	38
2	- plastic film	50	25	25
3	- jute/hessian	24	13	63
4	- cotton	12	75	13
5 Strings made of	- woven plastic	37	50	13
6	- plastic film	37	38	25
7	- jute/hessian	37	0	63
8	- cotton	25	75	0
9 Organic matter	- leaves, feathers, paper, leather e	24	38	38
10 Inorganic matter	- sand/dust	49	13	38
11	- rust	62	38	0
12	- metal/wire	49	38	13
13 Oily substances/chemicals	- grease/oil	62	25	13
14	- rubber	75	25	0
15	- stamp colour	62	25	13
16	- tar	100	0	0
Average of 1-16		48	30	22
Stickiness	No(%) Yes(%) 88 13	Seed-coat fragn	No(% nents 50	%) Yes(%) 50

Table 42 2009

Country: India	Growth: India-Othe	ers	Number of Samples:	
		Degree of contamination (%		
Source of contamination		Non- existent/ insignificant	Moderate	Serious
1 Fabrics made of	- woven plastic	67	33	0
2	- plastic film	83	0	17
3	- jute/hessian	33	67	0
4	- cotton	83	17	0
5 Strings made of	- woven plastic	67	33	0
6	- plastic film	83	17	0
7	- jute/hessian	33	67	0
8	- cotton	83	17	0
9 Organic matter	- leaves, feathers, paper, leather e	0	100	0
10 Inorganic matter	- sand/dust	100	0	0
11	- rust	100	0	0
12	- metal/wire	100	0	0
13 Oily substances/chemicals	- grease/oil	83	17	0
14	- rubber	100	0	0
15	- stamp colour	100	0	0
16	- tar	100	0	0
Average of 1-16		76	23	1
Stickiness	No(%) Yes(%) 83 17	Seed-coat fragn	No(% nents 100	%) Yes(%) 0

Table 43 2009

Country: India	Growth: J-34		nples: 10		
		Degree	of contamination (%)		
Source of contamination		Non- existent/ insignificant	Moderate	Serious	
1 Fabrics made of	- woven plastic	30	40	30	
2	- plastic film	40	40	20	
3	- jute/hessian	30	40	30	
4	- cotton	40	60	0	
5 Strings made of	- woven plastic	20	60	20	
6	- plastic film	30	50	20	
7	- jute/hessian	20	30	50	
8	- cotton	30	60	10	
9 Organic matter	- leaves, feathers, paper, leather e	30	30	40	
10 Inorganic matter	- sand/dust	40	10	50	
11	- rust	60	40	0	
12	- metal/wire	60	40	0	
13 Oily substances/chemicals	- grease/oil	70	10	20	
14	- rubber	50	50	0	
15	- stamp colour	80	20	0	
16	- tar	100	0	0	
Average of 1-16		46	36	18	
Stickiness	No(%) Yes(%) 90 10	Seed-coat fragn	No(%	%) Yes(%) 40	

Table 44 2009

Country: India	Growth: LRA	Number of Samples:		
		Degree	of contamina	tion (%)
Source of contamination		Non- existent/ insignificant	Moderate	Serious
1 Fabrics made of	- woven plastic	67	33	0
2	- plastic film	0	100	0
3	- jute/hessian	67	33	0
4	- cotton	67	33	0
5 Strings made of	- woven plastic	100	0	0
6	- plastic film	33	67	0
7	- jute/hessian	67	33	0
8	- cotton	67	33	0
9 Organic matter	- leaves, feathers, paper, leather e	67	33	0
10 Inorganic matter	- sand/dust	100	0	0
11	- rust	100	0	0
12	- metal/wire	100	0	0
13 Oily substances/chemicals	- grease/oil	100	0	0
14	- rubber	100	0	0
15	- stamp colour	100	0	0
16	- tar	100	0	0
Average of 1-16		77	23	0
	No(%) Yes(%)		No(⁹	%) Yes(%)
Stickiness	100 0	Seed-coat fragm	400	

Table 45 2009

Country: India	Growth: MCU-5		Number of San	nples: 14	
		Degree	of contamination (%)		
Source of contamination		Non- existent/ insignificant	Moderate	Serious	
1 Fabrics made of	- woven plastic	36	7	57	
2	- plastic film	43	36	21	
3	- jute/hessian	15	14	71	
4	- cotton	29	57	14	
5 Strings made of	- woven plastic	15	14	71	
6	- plastic film	36	43	21	
7	- jute/hessian	8	21	71	
8	- cotton	43	43	14	
9 Organic matter	- leaves, feathers, paper, leather e	14	57	29	
10 Inorganic matter	- sand/dust	57	36	7	
11	- rust	57	43	0	
12	- metal/wire	50	14	36	
13 Oily substances/chemicals	- grease/oil	50	50	0	
14	- rubber	79	21	0	
15	- stamp colour	79	21	0	
16	- tar	86	7	7	
Average of 1-16		44	30	26	
Stickiness	No(%) Yes(%) 93 7	Seed-coat fragn	No(% 71	%) Yes(%) 29	

Table 46 2009

Country: India	Growth: Shankar-4	/6	Number of Samples:	
		Degree	Degree of contamination (%	
Source of contamination		Non- existent/ insignificant	Moderate	Serious
1 Fabrics made of	- woven plastic	43	48	9
2	- plastic film	35	52	13
3	- jute/hessian	35	39	26
4	- cotton	31	52	17
5 Strings made of	- woven plastic	48	35	17
6	- plastic film	52	35	13
7	- jute/hessian	31	43	26
8	- cotton	35	48	17
9 Organic matter	- leaves, feathers, paper, leather e	22	52	26
10 Inorganic matter	- sand/dust	69	22	9
11	- rust	83	17	0
12	- metal/wire	57	30	13
13 Oily substances/chemicals	- grease/oil	83	17	0
14	- rubber	74	26	0
15	- stamp colour	74	26	0
16	- tar	92	4	4
Average of 1-16		54	34	12
Stickiness	No(%) Yes(%) 96 4	Seed-coat fragr	No(% 70	5) Yes(%) 30

Table 47 2009

Country: Israel	ntry: Israel Growth: Acala Number of				
		Degree	egree of contamination (%)		
Source of contamination		Non- existent/ insignificant	Moderate	Serious	
1 Fabrics made of	- woven plastic	100	0	0	
2	- plastic film	100	0	0	
3	- jute/hessian	100	0	0	
4	- cotton	100	0	0	
5 Strings made of	- woven plastic	100	0	0	
6	- plastic film	100	0	0	
7	- jute/hessian	100	0	0	
8	- cotton	100	0	0	
9 Organic matter	- leaves, feathers, paper, leather e	100	0	0	
10 Inorganic matter	- sand/dust	100	0	0	
11	- rust	100	0	0	
12	- metal/wire	100	0	0	
13 Oily substances/chemicals	- grease/oil	100	0	0	
14	- rubber	100	0	0	
15	- stamp colour	100	0	0	
16	- tar	100	0	0	
Average of 1-16		100	0	0	
Stickiness	No(%) Yes(%) 100 0	Seed-coat fragm	No(%	5) Yes(%) 50	

Table 48 2009

Country: Israel	Growth: Pima		Number of Samples:		
		Degree of contamination (%)			
Source of contamination		Non- existent/ insignificant	Moderate	Serious	
1 Fabrics made of	- woven plastic	100	0	0	
2	- plastic film	100	0	0	
3	- jute/hessian	100	0	0	
4	- cotton	100	0	0	
5 Strings made of	- woven plastic	80	20	0	
6	- plastic film	80	20	0	
7	- jute/hessian	80	20	0	
8	- cotton	100	0	0	
9 Organic matter	- leaves, feathers, paper, leather e	80	20	0	
10 Inorganic matter	- sand/dust	100	0	0	
11	- rust	100	0	0	
12	- metal/wire	100	0	0	
13 Oily substances/chemicals	- grease/oil	100	0	0	
14	- rubber	100	0	0	
15	- stamp colour	100	0	0	
16	- tar	100	0	0	
Average of 1-16		95	5	0	
Stickiness	No(%) Yes(%) 80 20	Seed-coat fragn	No(%	b) Yes(%) 20	

Table 49 2009

Country: Pakistan	Growth: AmSeed A	FZAL	Number of San	nples: 5	
		Degree	Degree of contamination (%)		
Source of contamination		Non- existent/ insignificant	Moderate	Serious	
1 Fabrics made of	- woven plastic	40	20	40	
2	- plastic film	20	40	40	
3	- jute/hessian	20	80	0	
4	- cotton	40	60	0	
5 Strings made of	- woven plastic	20	20	60	
6	- plastic film	40	20	40	
7	- jute/hessian	20	80	0	
8	- cotton	60	40	0	
9 Organic matter	- leaves, feathers, paper, leather e	60	40	0	
10 Inorganic matter	- sand/dust	60	40	0	
11	- rust	60	40	0	
12	- metal/wire	80	20	0	
13 Oily substances/chemicals	- grease/oil	80	20	0	
14	- rubber	100	0	0	
15	- stamp colour	100	0	0	
16	- tar	100	0	0	
Average of 1-16		56	33	11	
Stickiness	No(%) Yes(%) 100 0	Seed-coat fragn	No(% nents 80	%) Yes(%) 20	

Table 50 2009

Country: Pakistan	Growth: MNH93	ı	lumber of Samples: of contamination (%)		
		Degree of contamination (%)			
Source of contamination		Non- existent/ insignificant	Moderate Seri		
1 Fabrics made of	- woven plastic	25	75	0	
2	- plastic film	50	50	0	
3	- jute/hessian	50	25	25	
4	- cotton	50	25	25	
5 Strings made of	- woven plastic	50	0	50	
6	- plastic film	25	25	50	
7	- jute/hessian	25	25	50	
8	- cotton	75	0	25	
9 Organic matter	- leaves, feathers, paper, leather e	50	25	25	
10 Inorganic matter	- sand/dust	75	0	25	
11	- rust	75	25	0	
12	- metal/wire	75	0	25	
13 Oily substances/chemicals	- grease/oil	75	25	0	
14	- rubber	75	25	0	
15	- stamp colour	75	25	0	
16	- tar	100	0	0	
Average of 1-16		59	22	19	
Stickiness	No(%) Yes(%) 75 25	Seed-coat fragn	No(%	%) Yes(%) 25	

Table 51 2009

Country: Pakistan	Growth: NAIB		nples: 2		
		Degree	ee of contamination (%)		
Source of contamination		Non- existent/ insignificant	Moderate	Serious	
1 Fabrics made of	- woven plastic	50	50	0	
2	- plastic film	50	50	0	
3	- jute/hessian	50	50	0	
4	- cotton	50	50	0	
5 Strings made of	- woven plastic	50	0	50	
6	- plastic film	50	50	0	
7	- jute/hessian	50	50	0	
8	- cotton	50	50	0	
9 Organic matter	- leaves, feathers, paper, leather e	100	0	0	
10 Inorganic matter	- sand/dust	100	0	0	
11	- rust	100	0	0	
12	- metal/wire	100	0	0	
13 Oily substances/chemicals	- grease/oil	100	0	0	
14	- rubber	100	0	0	
15	- stamp colour	100	0	0	
16	- tar	100	0	0	
Average of 1-16		75	22	3	
Stickiness	No(%) Yes(%) 50 50	Seed-coat fragn	No(%	%) Yes(%) 50	

Table 52 2009

Country: Pakistan	Growth: Pakistan-C	Others	Number of Samples:	
		Degree of contamination		tion (%)
Source of contamination		Non- existent/ insignificant	Moderate Serio	
1 Fabrics made of	- woven plastic	20	40	40
2	- plastic film	20	40	40
3	- jute/hessian	40	40	20
4	- cotton	60	20	20
5 Strings made of	- woven plastic	0	0	100
6	- plastic film	20	20	60
7	- jute/hessian	40	40	20
8	- cotton	80	0	20
9 Organic matter	- leaves, feathers, paper, leather e	20	20	60
10 Inorganic matter	- sand/dust	80	20	0
11	- rust	60	40	0
12	- metal/wire	80	0	20
13 Oily substances/chemicals	- grease/oil	80	20	0
14	- rubber	80	20	0
15	- stamp colour	80	20	0
16	- tar	100	0	0
Average of 1-16		54	21	25
Stickiness	No(%) Yes(%) 100 0	Seed-coat fragi	No(9	

Table 53 2009

Country: Syria	Growth: Syria		Number of San	nples: 11	
		Degree	ee of contamination (%)		
Source of contamination		Non- existent/ insignificant	Moderate	Serious	
1 Fabrics made of	- woven plastic	100	0	0	
2	- plastic film	100	0	0	
3	- jute/hessian	100	0	0	
4	- cotton	82	18	0	
5 Strings made of	- woven plastic	91	9	0	
6	- plastic film	91	9	0	
7	- jute/hessian	82	18	0	
8	- cotton	64	36	0	
9 Organic matter	- leaves, feathers, paper, leather e	82	9	9	
10 Inorganic matter	- sand/dust	82	9	9	
11	- rust	91	0	9	
12	- metal/wire	91	0	9	
13 Oily substances/chemicals	- grease/oil	82	9	9	
14	- rubber	100	0	0	
15	- stamp colour	91	0	9	
16	- tar	100	0	0	
Average of 1-16		90	7	3	
Stickiness	No(%) Yes(%) 82 18	Seed-coat fragn	No(%	%) Yes(%) 36	

Table 54 2009

Country: Tajikistan	Growth: Long Stap	les _I	Number of Sam	ples:
		Degree	of contaminati	on (%)
Source of contamination		Non- existent/ insignificant	Moderate	Serious
1 Fabrics made of	- woven plastic	100	0	0
2	- plastic film	100	0	0
3	- jute/hessian	100	0	0
4	- cotton	100	0	0
5 Strings made of	- woven plastic	100	0	0
6	- plastic film	100	0	0
7	- jute/hessian	100	0	0
8	- cotton	100	0	0
9 Organic matter	- leaves, feathers, paper, leather e	100	0	0
10 Inorganic matter	- sand/dust	100	0	0
11	- rust	100	0	0
12	- metal/wire	100	0	0
13 Oily substances/chemicals	- grease/oil	100	0	0
14	- rubber	100	0	0
15	- stamp colour	100	0	0
16	- tar	100	0	0
Average of 1-16		100	0	0
Stickiness	No(%) Yes(%) 100 0	Seed-coat fragm	No(%	yes(%) 100

Table 55 2009

Country: Tajikistan	Growth: Medium S	taples	Number of Samples: 5		
		Degree	of contaminat	ion (%)	
Source of contamination		Non- existent/ insignificant	Moderate	Serious	
1 Fabrics made of	- woven plastic	60	40	0	
2	- plastic film	80	20	0	
3	- jute/hessian	80	20	0	
4	- cotton	80	20	0	
5 Strings made of	- woven plastic	40	60	0	
6	- plastic film	80	0	20	
7	- jute/hessian	100	0	0	
8	- cotton	100	0	0	
9 Organic matter	- leaves, feathers, paper, leather e	60	40	0	
10 Inorganic matter	- sand/dust	60	40	0	
11	- rust	80	20	0	
12	- metal/wire	80	20	0	
13 Oily substances/chemicals	- grease/oil	80	20	0	
14	- rubber	100	0	0	
15	- stamp colour	80	0	20	
16	- tar	80	20	0	
Average of 1-16		77	20	3	
Stickiness	No(%) Yes(%) 80 20	Seed-coat fragn	No(% nents 60	%) Yes(%) 40	

Table 56 2009

Country: Turkmenistan	Growth: Medium S	taples	Number of Samples:			
		Degre	e of contaminat	of contamination (%)		
Source of contamination		Non- existent/ insignificant	Moderate Ser			
1 Fabrics made of	- woven plastic	75	25	0		
2	- plastic film	75	25	0		
3	- jute/hessian	75	25	0		
4	- cotton	100	0	0		
5 Strings made of	- woven plastic	50	50	0		
6	- plastic film	100	0	0		
7	- jute/hessian	100	0	0		
8	- cotton	75	25	0		
9 Organic matter	- leaves, feathers, paper, leather e	50	50	0		
10 Inorganic matter	- sand/dust	50	50	0		
11	- rust	75	25	0		
12	- metal/wire	75	25	0		
13 Oily substances/chemicals	- grease/oil	75	25	0		
14	- rubber	100	0	0		
15	- stamp colour	100	0	0		
16	- tar	100	0	0		
Average of 1-16		80	20	0		
Stickiness	No(%) Yes(%) 100 0	Seed-coat frag	No(% 75	S) Yes(%) 25		

Table 57 2009

Country: Uzbekistan	Growth: Long Stap	les	Number of Sar	nples: 1	
		Degree	Degree of contamination (%		
Source of contamination		Non- existent/ insignificant	Moderate	Serious	
1 Fabrics made of	- woven plastic	100	0	0	
2	- plastic film	100	0	0	
3	- jute/hessian	100	0	0	
4	- cotton	0	100	0	
5 Strings made of	- woven plastic	100	0	0	
6	- plastic film	100	0	0	
7	- jute/hessian	0	100	0	
8	- cotton	0	100	0	
9 Organic matter	- leaves, feathers, paper, leather e	100	0	0	
10 Inorganic matter	- sand/dust	0	100	0	
11	- rust	0	100	0	
12	- metal/wire	100	0	0	
13 Oily substances/chemicals	- grease/oil	100	0	0	
14	- rubber	100	0	0	
15	- stamp colour	100	0	0	
16	- tar	100	0	0	
Average of 1-16		69	31	0	
Stickiness	No(%) Yes(%) 100 0	Seed-coat fragn	No(% nents 100	%) Yes(%) 0	

Table 58 2009

Country: Uzbekistan	Growth: Medium S	taples	Number of San	nples: 1
		Degree	of contaminat	ion (%)
Source of contamination		Non- existent/ insignificant	Moderate Ser	
1 Fabrics made of	- woven plastic	67	25	8
2	- plastic film	75	17	8
3	- jute/hessian	75	25	0
4	- cotton	58	17	25
5 Strings made of	- woven plastic	75	25	0
6	- plastic film	92	8	0
7	- jute/hessian	92	8	0
8	- cotton	84	8	8
9 Organic matter	- leaves, feathers, paper, leather e	25	75	0
10 Inorganic matter	- sand/dust	41	42	17
11	- rust	75	25	0
12	- metal/wire	67	25	8
13 Oily substances/chemicals	- grease/oil	75	8	17
14	- rubber	83	17	0
15	- stamp colour	75	8	17
16	- tar	83	17	0
Average of 1-16		71	22	7
Stickiness	No(%) Yes(%) 75 25	Seed-coat fragi	No(%	5) Yes(%) 42

Table 59 2009

Country: Yemen	Growth: Yemen		Number of San	nples: 1
		Degree of contamination (%)		
Source of contamination		Non- existent/ insignificant	Moderate	Serious
1 Fabrics made of	- woven plastic	100	0	0
2	- plastic film	100	0	0
3	- jute/hessian	100	0	0
4	- cotton	100	0	0
5 Strings made of	- woven plastic	100	0	0
6	- plastic film	100	0	0
7	- jute/hessian	100	0	0
8	- cotton	100	0	0
9 Organic matter	- leaves, feathers, paper, leather e	100	0	0
10 Inorganic matter	- sand/dust	100	0	0
11	- rust	100	0	0
12	- metal/wire	100	0	0
13 Oily substances/chemicals	- grease/oil	100	0	0
14	- rubber	100	0	0
15	- stamp colour	100	0	0
16	- tar	100	0	0
Average of 1-16		100	0	0
Stickiness	No(%) Yes(%)	Seed-coat fragn	nents No(%	%) Yes(%)

Europe

Table 60 2009

Country: Greece	Growth: Greece		Number of San	nples: 27
		Degree	ion (%)	
Source of contamination		Non- existent/ insignificant	Moderate	Serious
1 Fabrics made of	- woven plastic	100	0	0
2	- plastic film	81	15	4
3	- jute/hessian	85	15	0
4	- cotton	81	15	4
5 Strings made of	- woven plastic	96	4	0
6	- plastic film	96	4	0
7	- jute/hessian	85	15	0
8	- cotton	89	11	0
9 Organic matter	- leaves, feathers, paper, leather e	63	33	4
10 Inorganic matter	- sand/dust	78	22	0
11	- rust	81	15	4
12	- metal/wire	96	4	0
13 Oily substances/chemicals	- grease/oil	81	15	4
14	- rubber	96	4	0
15	- stamp colour	89	11	0
16	- tar	100	0	0
Average of 1-16		88	11	1
Stickiness	No(%) Yes(%) 100 0	Seed-coat fragn	No(% nents 70	%) Yes(%) 30

Table 61 2009

Country: Spain	Growth: Spain		Number of Samples:	
		Degree	of contaminat	ion (%)
Source of contamination		Non- existent/ insignificant	Moderate Serie	
1 Fabrics made of	- woven plastic	100	0	0
2	- plastic film	67	33	0
3	- jute/hessian	67	33	0
4	- cotton	100	0	0
5 Strings made of	- woven plastic	34	33	33
6	- plastic film	34	33	33
7	- jute/hessian	67	0	33
8	- cotton	100	0	0
9 Organic matter	- leaves, feathers, paper, leather e	100	0	0
10 Inorganic matter	- sand/dust	33	67	0
11	- rust	100	0	0
12	- metal/wire	100	0	0
13 Oily substances/chemicals	- grease/oil	100	0	0
14	- rubber	100	0	0
15	- stamp colour	67	33	0
16	- tar	67	33	0
Average of 1-16		77	17	6
Stickiness	No(%) Yes(%) 100 0	Seed-coat fragn	No(%	%) Yes(%) 33

Europe

Table 62 2009

Country: Turkey	Growth: Izmir		Number of Samples:		
		Degree	gree of contamination (%)		
Source of contamination		Non- existent/ insignificant	Moderate	Serious	
1 Fabrics made of	- woven plastic	67	33	0	
2	- plastic film	33	67	0	
3	- jute/hessian	100	0	0	
4	- cotton	100	0	0	
5 Strings made of	- woven plastic	67	33	0	
6	- plastic film	67	33	0	
7	- jute/hessian	67	33	0	
8	- cotton	100	0	0	
9 Organic matter	- leaves, feathers, paper, leather e	33	67	0	
10 Inorganic matter	- sand/dust	100	0	0	
11	- rust	67	33	0	
12	- metal/wire	100	0	0	
13 Oily substances/chemicals	- grease/oil	67	33	0	
14	- rubber	100	0	0	
15	- stamp colour	67	33	0	
16	- tar	100	0	0	
Average of 1-16		77	23	0	
	No(%) Yes(%)		No(%	, , ,	
Stickiness	67 33	Seed-coat fragn	nents 67	33	

Table 63 2009

Country: Turkey	Growth: Turkey-Ot	hers	Number of San	nples:
		Degree	of contaminat	ion (%)
Source of contamination		Non- existent/ insignificant	Moderate Seri	
1 Fabrics made of	- woven plastic	75	0	25
2	- plastic film	50	25	25
3	- jute/hessian	75	0	25
4	- cotton	75	0	25
5 Strings made of	- woven plastic	75	0	25
6	- plastic film	50	25	25
7	- jute/hessian	75	0	25
8	- cotton	50	25	25
9 Organic matter	- leaves, feathers, paper, leather e	25	25	50
10 Inorganic matter	- sand/dust	75	0	25
11	- rust	75	0	25
12	- metal/wire	50	25	25
13 Oily substances/chemicals	- grease/oil	75	0	25
14	- rubber	75	0	25
15	- stamp colour	75	0	25
16	- tar	75	0	25
Average of 1-16		65	8	27
Stickiness	No(%) Yes(%) 100 0	Seed-coat fragr	No(% 25	5) Yes(%) 75

Press Release

Summary of Survey Results 2011

"After some improvements in the recent past foreign matter, stickiness and seed-coat fragments in raw cotton pose serious challenges to the cotton spinning industry worldwide." This is the general conclusion to be drawn from the "Cotton Contami- nation Survey 2011" which has just been released by the International Textile Manufacturers Federation (ITMF). The survey is carried out every other year, the 2011 edition being the twelfth in the series since the changeover to a new methodology in 1989. In the 2011 report, 119 spinning mills located in 24 countries evaluated 71 different cotton growths.

Contamination -- slight increase

The level of cottons modestly or seriously contaminated as perceived by the spinning mills from around the world rose slightly from 22% to 23% compared to the last survey in 2009. A closer look at the extent of the contamination shows that 7% (2009: 6%) of all cotton evaluated were seriously contaminated by some sort of foreign matter whereas 16% (2009: 15%) were only moderately contaminated. As the summary data are arithmetic averages of the different contaminants, the extent of contamination is fully illustrated only by the results for the individual contaminants. They range from 5% for "tar" (2009: 4%) to 51% of all cottons processed being moderately or seriously contaminated by "organic matter", i.e. leaves, feathers, paper, leather, etc. (2009: 42%). Other serious contaminants are "inorganic matter" (31%), "fabrics made of cotton" (30%), "strings made of woven plastic" (29%) as well as "fabrics made of woven plastic"and "strings made of plastic film" (28% each). The most contaminated cotton descriptions considered for the survey originated in India, Nigeria, Zimbabwe, China and Turkey. In contrast, very clean raw cottons were produced in the USA, (Texas High Plains, Arizona, Pima, USA-Others, Memphis and California), Syria, Benin, Brazil, Spain, Argentina, Greece and Australia).

Stickiness - significant rise

The presence of sticky cotton as perceived by the spinning mills increased in 2011 significantlyfrom the record low of 16% in 2009 to 20%. While this level is still lower than the long-termaverage, the level of stickiness is still considerable high and remains a major challenge to the globalcotton spinning industry. Descriptions that were affected most by stickiness were those from India (DCH, MCU-5, India-Others), Syria, USA (California, Pima), Spain, Mali and Uzbekistan (Medium-Staples. On the other end of the range, cottons from Argentina, Turkey (Izmir), USA (Arizona), Egypt (Giza), India (J-34) and USA (Texas High Plaines) were not or hardly affected by stickiness.

Seed-coatfragments-noticeable jump

With regard to seed-coat fragments the Cotton Contamination Survey 2011 shows that theirappearance in cotton growths remains an issue for spinners around the world. 38% of cotton spinners (2009: 31%) claim that they have encountered seed-coat fragments in the cotton growths consumed. This is a jump of 7 percentage points, up from only 31% in 2009, the lowest level sinceincluding measuring the level of seed-coat fragments in the survey in 1991. The origins affectedmost by seed-coat fragments are those from Nigeria, India (India--Others, MCU-5, Shankar-4/6,J-34) USA (South Eastern, California), Ivory Coast and Turkey (Turkey-Others). Cotton descriptions for which the existence of seed-coat fragments was negligible (prevalence of less than 20%) included those from Australia, Benin, India (Others), Pakistan (Others), and the US (California, TexasHigh Plains).

January 2012

Participation

Table I 2011

Country	Number of respondents (participating companies)	Number of samples (evaluations)	Number of cotton growths evaluated*
Argentina	3	3	3
Bangladesh	3	14	12
Belgium	1	14	14
Brazil	4	9	6
China	20	51	17
Egypt	20	49	7
Germany	4	31	19
Greece	1	1	1
India	18	62	14
Indonesia	2	20	18
Italy	2	18	14
Korea, Rep.	4	23	12
Malaysia	1	4	4
Nigeria	6	6	1
Pakistan	4	31	24
Singapore	1	9	9
South Africa	2	6	4
Spain	1	9	9
Switzerland	1	4	4
Taiwan, China	5	29	18
Thailand	3	31	24
Turkey	9	43	19
USA	3	9	5
	1	9	9
Total	119	485	-

⁷¹ different cotton descriptions have been evaluated.

Main Results

Table IIa 2011

AllCountries/AllGrowths		Numb	er of Samp	oles: 485
		Degree of contamination (%)		
Source of contamination		Non- existent/ insignificant	Moderate	Serious
1 Fabrics made of	woven plastic	72	20	8
2	plastic film	76	17	7
3	jute/hessian	77	16	7
4	cotton	70	19	11
5 Strings made of	woven plastic	71	16	13
6	plastic film	72	20	8
7	jute/hessian	73	16	11
8	cotton	74	16	10
9 Organic matter	leaves,feathers,paper,leather,etc.	49	34	17
10 Inorganic matter	sand/dust	69	22	9
11	rust	84	14	2
12	metal/wire	85	11	4
13 Oily substances/chemicals	grease/oil	87	11	2
14	rubber	94	5	1
15	stamp colour	91	7	2
16	tar	95	4	1
Average of 1-16		77	16	7
No (Stickiness 80	20 ′		No (%) Ye	es (%) 38
	Seed-coat	t fragments		

Table IIb 2011

	Degr	ee of contaminatio	n (%)	Stickiness		
Year	Non- existent/ insignificant	Moderate	Serious	(%)	Seed-coat fragments (%)	
1989	86	9	5	21	0	
1991	85	11	4	27	34	
1993	85	11	4	26	36	
1995	82	13	5	20	39	
1997	82	13	5	23	32	
1999	79	15	6	20	38	
2001	78	16	6	18	40	
2003	73	18	8	21	44	
2005	78	15	7	17	37	
2007	78	15	7	21	37	
2009	78	16	6	16	31	
2011	77	16	7	20	38	

Contamination

Table IIIa 2011

The Most Contaminated Descriptions							
			Degree o				
Ranking	Description		Non- existent/ insignificant	Moderate	Serious	Number of samples**	
1.	India	MCU-5	40	25	35	12	
2.	India	Shankar-4/6	50	33	17	30	
3.	India	DCH	52	28	20	8	
4.	India	J-34	58	26	16	14	
5.	India	H-4	61	33	6	6	
6.	India	India-Others	62	19	19	10	
7.	Nigeria	Nigeria	67	14	19	10	
8.	Zimbabwe	Zimbabwe	67	24	9	8	
9.	China	Xinjiang	69	22	9	11	
10.	Turkey	Turkey-Others	74	19	7	6	
11.	Egypt	Giza	77	14	9	35	
12.	Burkina Faso	Burkina Faso	78	14	8	9	
13.	Uzbekistan	Medium Staples	78	17	5	15	
14.	Ivory Coast	Ivory Coast	78	22	0	6	
15.	Turkey	Izmir	80	7	13	6	
16.	USA	South Eastern	82	15	3	5	

 $^{^{\}star}$ Average degree of contamination by $\it each$ of the 16 pre-indicated contaminants ** Minimum: 5 samples

Contamination

TableIIIb 2011

The Least Contaminated Descriptions						
			Degree o			
Ranking	Description		Non- existent/ insignificant	Moderate	Serious	Number of samples**
1.	USA	Texas High Plains	96	4	0	14
2.	USA	Arizona	96	4	0	5
3.	USA	Pima	95	4	1	20
4.	Syria	Syria	94	5	1	9
5.	USA	USA-Others	93	4	3	7
6.	Benin	Benin	91	8	1	7
7.	Brazil	Brazil	90	10	0	27
8.	Spain	Spain	89	8	3	9
9.	Argentina	Argentina	88	10	2	9
10.	Greece	Greece	88	6	6	28
11.	Australia	Australia	87	12	1	18
12.	USA	Memphis Territory	86	13	1	22
13.	USA	California	86	12	2	20
14.	Chad	Chad	84	16	0	6
15.	Mali	Mali	83	16	1	6

 $^{^{\}star}$ $\,$ Average degree of contamination by $\it each$ of the 16 pre-indicated contaminants ** Minimum: 5 samples

Stickiness

Table IVa 2011

Descriptions Most Affected by Stickiness						
Ranking		Description Affirma replies		Number of samples**		
1.	India	DCH	50	8		
2.	Syria	Syria	44	9		
3.	India	MCU-5	42	12		
4.	USA	California	40	20		
5.	India	India-Others	40	10		
6.	USA	Pima	35	20		
7.	Spain	Spain	33	9		
8.	Mali	Mali	33	6		
9.	Uzbekistan	Medium Staples	27	15		
10.	USA	Memphis Territory	23	22		
11.	Brazil	Brazil	22	27		
12.	Nigeria	Nigeria	20	10		
13.	USA	South Eastern	20	5		
14.	China	Xinjiang	18	11		
15.	Chad	Chad	17	6		
16.	India	H-4	17	6		
17.	India	Shankar-4/6	17	30		
18.	Ivory Coast	Ivory Coast	17	6		
19.	Turkey	Turkey-Others	17	6		

^{*} Percentage of replies indicating the existence of stickiness ** Minimum: 5 samples

Stickiness

Table IVb 2011

Ranking		Description	Affirmative replies (%)*	Number of samples**
1.	Argentina	Argentina	0	9
2.	Turkey	Izmir	0	6
3.	USA	Arizona	0	5
4.	Egypt	Giza	3	35
5.	India	J-34	7	14
6.	USA	Texas High Plains	7	14
7.	Australia	Australia	11	18
8.	Burkina Faso	Burkina Faso	11	9
9.	Zimbabwe	Zimbabwe	12	8
10.	Benin	Benin	14	7
11.	Greece	Greece	14	28
12.	USA	USA-Others	14	7

Percentage of replies indicating the existence of stickiness
 ** Minimum: 5 samples

Seed-coat Fragments

Table Va 2011

Ranking	Description		Affirmative replies (%)*	Number of samples**	
1.	Nigeria	Nigeria	90	10	
2.	India	India-Others	70	10	
3.	India	MCU-5	67	12	
4.	USA	South Eastern	60	5	
5.	India	Shankar-4/6	50	30	
6.	India	J-34	50	14	
7.	Ivory Coast	Ivory Coast	50	6	
8.	USA	California	50	20	
9.	Turkey	Turkey-Others	50	6	
10.	China	Xinjiang	45	11	
11.	Egypt	Giza	43	35	
12.	USA	Memphis Territory	41	22	
13.	India	DCH	37	8	
14.	Zimbabwe	Zimbabwe	37	8	
15.	India	H-4	33	6	
16.	Mali	Mali	33	6	
17.	Syria	Syria	33	9	
18.	Uzbekistan	Medium Staple	33	15	

^{*} Percentage of replies indicating the existence of seed-coat fragments ** Minimum: 5 samples

Seed-coat Fragments

Table Vb 2011

Ranking		Description		Number of samples**
1.	Turkey	Izmir	0	6
2.	Argentina	Argentina	11	9
3.	Chad	Chad	17	6
4.	USA	Arizona	20	5
5.	USA	Pima	20	20
6.	Burkina Faso	Burkina Faso	22	9
7.	Spain	Spain	22	9
8.	Brazil	Brazil	26	27
9.	Australia	Australia	28	18
10.	Benin	Benin	29	7
11.	USA	Texas High Plains	29	14
12.	USA	USA-Others	29	7
13.	Greece	Greece	32	28

^{*} Percentage of replies indicating the existence of seed-coat fragments ** Minimum: 5 samples

Table 1 2011

Country: Angola	Growth: Angola	Number of Samples:			
		Degree of contamination (%)			
Source of contamination		Non- existent/ insignificant	Moderate	Serious	
1 Fabrics made of	- woven plastic	100	0	0	
2	- plastic film	100	0	0	
3	- jute/hessian	100	0	0	
4	- cotton	100	0	0	
5 Strings made of	- woven plastic	100	0	0	
6	- plastic film	100	0	0	
7	- jute/hessian	100	0	0	
8	- cotton	100	0	0	
9 Organic matter	- leaves, feathers, paper, leather e	0	100	0	
10 Inorganic matter	- sand/dust	0	100	0	
11	- rust	100	0	0	
12	- metal/wire	100	0	0	
13 Oily substances/chemicals	- grease/oil	100	0	0	
14	- rubber	100	0	0	
15	- stamp colour	100	0	0	
16	- tar	100	0	0	
Average of 1-16		87	13	0	
Stickiness	No(%) Yes(%) 100 0	Seed-coat fragn	No(% 100 100 100 100 100 100 100 100 100 10	%) Yes(%) 0	

Table 2 2011

Country: Benin	Growth: Bei	nin		Number of S	Samples: 7
			Degree of contamination (%		
Source of contamination			Non- existent/ insignificant	Moderate	Serious
1 Fabrics made of	- woven plastic		86	14	0
2	- plastic film		86	14	0
3	- jute/hessian		100	0	0
4	- cotton		86	14	0
5 Strings made of	- woven plastic		86	0	14
6	- plastic film		71	29	0
7	- jute/hessian		100	0	0
8	- cotton		86	14	0
9 Organic matter	- leaves, feathers, paper	, leather e	71	29	0
10 Inorganic matter	- sand/dust		100	0	0
11	- rust		86	14	0
12	- metal/wire		100	0	0
13 Oily substances/chemicals	- grease/oil		100	0	0
14	- rubber		100	0	0
15	- stamp colour		100	0	0
16	- tar		100	0	0
Average of 1-16			91	8	1
Stickiness	No(%) Yes(%) 86 14		Seed-coat fragn	7	(%) Yes(%) 1 29

Table 3 2011

Country: Burkina Faso Growth: Burkina		Faso Number of Samples:			
		Degree	of contaminat	ion (%)	
Source of contamination		Non- existent/ insignificant	Moderate	Serious	
1 Fabrics made of	- woven plastic	67	11	22	
2	- plastic film	78	22	0	
3	- jute/hessian	67	33	0	
4	- cotton	78	11	11	
5 Strings made of	- woven plastic	67	11	22	
6	- plastic film	89	11	0	
7	- jute/hessian	78	22	0	
8	- cotton	78	11	11	
9 Organic matter	- leaves, feathers, paper, leather e	56	33	11	
10 Inorganic matter	- sand/dust	78	11	11	
11	- rust	89	0	11	
12	- metal/wire	89	0	11	
13 Oily substances/chemicals	- grease/oil	89	11	0	
14	- rubber	89	0	11	
15	- stamp colour	78	22	0	
16	- tar	89	11	0	
Average of 1-16		78	14	8	
Stickiness	No(%) Yes(%) 89 11	Seed-coat fragr	No(% 78	%) Yes(%) 22	

Table 4 2011

Country: C. A. Republic	Growth: Central Af	rican Rep	Number of Sa	mples:
		Degree of contamination (%		
Source of contamination		Non- existent/ insignificant	Moderate	Serious
1 Fabrics made of	- woven plastic	100	0	0
2	- plastic film	100	0	0
3	- jute/hessian	100	0	0
4	- cotton	100	0	0
5 Strings made of	- woven plastic	100	0	0
6	- plastic film	100	0	0
7	- jute/hessian	100	0	0
8	- cotton	100	0	0
9 Organic matter	- leaves, feathers, paper, leather e	100	0	0
10 Inorganic matter	- sand/dust	0	100	0
11	- rust	0	100	0
12	- metal/wire	100	0	0
13 Oily substances/chemicals	- grease/oil	100	0	0
14	- rubber	100	0	0
15	- stamp colour	100	0	0
16	- tar	100	0	0
Average of 1-16		87	13	0
Stickiness	No(%) Yes(%)	Seed-coat fragr	No(%	5) Yes(%)

Table 5 2011

Country: Cameroon	Growth: Cameroon	l	Number of Sa	mber of Samples: 4		
		Degree	of contaminati	on (%)		
Source of contamination		Non- existent/ insignificant	Moderate	Serious		
1 Fabrics made of	- woven plastic	100	0	0		
2	- plastic film	75	25	0		
3	- jute/hessian	75	25	0		
4	- cotton	75	25	0		
5 Strings made of	- woven plastic	100	0	0		
6	- plastic film	100	0	0		
7	- jute/hessian	100	0	0		
8	- cotton	100	0	0		
9 Organic matter	- leaves, feathers, paper, leather e	75	25	0		
10 Inorganic matter	- sand/dust	75	25	0		
11	- rust	75	25	0		
12	- metal/wire	100	0	0		
13 Oily substances/chemicals	- grease/oil	100	0	0		
14	- rubber	100	0	0		
15	- stamp colour	100	0	0		
16	- tar	100	0	0		
Average of 1-16		91	9	0		
Stickiness	No(%) Yes(%) 75 25	Seed-coat fragr	No(%	%) Yes(%) 0		

Table 6 2011

Country: Chad	Growth: Chad		Number of Samples:		
		Degree	Degree of contamination (%)		
Source of contamination		Non- existent/ insignificant	Moderate	Serious	
1 Fabrics made of	- woven plastic	50	50	0	
2	- plastic film	50	50	0	
3	- jute/hessian	83	17	0	
4	- cotton	83	17	0	
5 Strings made of	- woven plastic	100	0	0	
6	- plastic film	100	0	0	
7	- jute/hessian	83	17	0	
8	- cotton	83	17	0	
9 Organic matter	- leaves, feathers, paper, leather e	50	50	0	
10 Inorganic matter	- sand/dust	83	17	0	
11	- rust	100	0	0	
12	- metal/wire	83	17	0	
13 Oily substances/chemicals	- grease/oil	100	0	0	
14	- rubber	100	0	0	
15	- stamp colour	100	0	0	
16	- tar	100	0	0	
Average of 1-16		84	16	0	
Stickiness	No(%) Yes(%) -83 17	Seed-coat fragn	No(%	5) Yes(%)	

Table 7 2011

Country: Egypt	Growth: Egypt-Others Num			gypt Growth: Egypt-Others Number of Samples: 4			amples: 4
		Degree	of contaminat	ion (%)			
Source of contamination		Non- existent/ insignificant	Moderate	Serious			
1 Fabrics made of	- woven plastic	50	25	25			
2	- plastic film	100	0	0			
3	- jute/hessian	50	25	25			
4	- cotton	75	0	25			
5 Strings made of	- woven plastic	50	25	25			
6	- plastic film	100	0	0			
7	- jute/hessian	75	25	0			
8	- cotton	100	0	0			
9 Organic matter	- leaves, feathers, paper, leather e	50	50	0			
10 Inorganic matter	- sand/dust	75	25	0			
11	- rust	100	0	0			
12	- metal/wire	100	0	0			
13 Oily substances/chemicals	- grease/oil	100	0	0			
14	- rubber	100	0	0			
15	- stamp colour	100	0	0			
16	- tar	100	0	0			
Average of 1-16		83	11	6			
Stickiness	No(%) Yes(%) 100 0	Seed-coat fragn	No(%	%) Yes(%) 25			

Table 8 2011

Country: Egypt	Growth: Giza		Number of Sa	mples: 35
		Degree of contamination (%)		
Source of contamination		Non- existent/ insignificant	Moderate	Serious
1 Fabrics made of	- woven plastic	72	14	14
2	- plastic film	80	11	9
3	- jute/hessian	72	17	11
4	- cotton	75	14	11
5 Strings made of	- woven plastic	66	17	17
6	- plastic film	75	14	11
7	- jute/hessian	60	26	14
8	- cotton	75	14	11
9 Organic matter	- leaves, feathers, paper, leather e	52	34	14
10 Inorganic matter	- sand/dust	68	23	9
11	- rust	83	11	6
12	- metal/wire	82	9	9
13 Oily substances/chemicals	- grease/oil	94	3	3
14	- rubber	94	3	3
15	- stamp colour	85	9	6
16	- tar	97	0	3
Average of 1-16		77	14	9
Stickiness	No(%) Yes(%)	Seed-coat fragn	No(%) Yes(%) 43

Table 9 2011

Country: Ghana	Growth: Ghana	Growth: Ghana Number of Samples:		
		Degree	ion (%)	
Source of contamination		Non- existent/ insignificant	Moderate	Serious
1 Fabrics made of	- woven plastic	33	67	0
2	- plastic film	100	0	0
3	- jute/hessian	100	0	0
4	- cotton	67	33	0
5 Strings made of	- woven plastic	33	67	0
6	- plastic film	67	33	0
7	- jute/hessian	100	0	0
8	- cotton	100	0	0
9 Organic matter	- leaves, feathers, paper, leather e	67	33	0
10 Inorganic matter	- sand/dust	33	67	0
11	- rust	33	67	0
12	- metal/wire	67	33	0
13 Oily substances/chemicals	- grease/oil	67	33	0
14	- rubber	100	0	0
15	- stamp colour	67	33	0
16	- tar	100	0	0
Average of 1-16		71	29	0
Stickiness	No(%) Yes(%) 67 33	Seed-coat fragr	No(%	%) Yes(%) 33

Table 10 2011

	Non- existent/ insignificant 83 83 100 50	Moderate 17 17 0	Serious
	existent/ insignificant 83 83 100	17 17	0
	83 100	17	-
	100		Λ
		0	U
	50		0
		50	0
	67	33	0
	67	33	0
	67	33	0
	67	33	0
paper, leather e	50	50	0
	67	33	0
	67	33	0
	83	17	0
	100	0	0
	100	0	0
	100	0	0
	100	0	0
	78	22	0
		No(%	b) Yes(%)
		78	

Table 11 2011

Country: Malawi	Growth: Malawi		Number of Sa	amples: 2
		Degree	of contaminat	ion (%)
Source of contamination		Non- existent/ insignificant	Moderate	Serious
1 Fabrics made of	- woven plastic	100	0	0
2	- plastic film	50	50	0
3	- jute/hessian	50	50	0
4	- cotton	0	100	0
5 Strings made of	- woven plastic	50	50	0
6	- plastic film	50	50	0
7	- jute/hessian	0	50	50
8	- cotton	0	50	50
9 Organic matter	- leaves, feathers, paper, leather e	50	50	0
10 Inorganic matter	- sand/dust	50	50	0
11	- rust	100	0	0
12	- metal/wire	100	0	0
13 Oily substances/chemicals	- grease/oil	50	50	0
14	- rubber	100	0	0
15	- stamp colour	100	0	0
16	- tar	100	0	0
Average of 1-16		60	34	6
Stickiness	No(%) Yes(%) 100 0	Seed-coat fragr	No(% 50 10 10 10 10 10 10 10 10 10 10 10 10 10	%) Yes(%) 50

Table 12 2011

Country: Mali	Growth: Mali		Number of Sa	mples: 6
		Degree	ree of contamination (%)	
Source of contamination		Non- existent/ insignificant	Moderate	Serious
1 Fabrics made of	- woven plastic	67	33	0
2	- plastic film	50	50	0
3	- jute/hessian	83	17	0
4	- cotton	67	33	0
5 Strings made of	- woven plastic	66	17	17
6	- plastic film	83	17	0
7	- jute/hessian	67	33	0
8	- cotton	83	17	0
9 Organic matter	- leaves, feathers, paper, leather e	83	17	0
10 Inorganic matter	- sand/dust	100	0	0
11	- rust	83	17	0
12	- metal/wire	100	0	0
13 Oily substances/chemicals	- grease/oil	100	0	0
14	- rubber	100	0	0
15	- stamp colour	100	0	0
16	- tar	100	0	0
Average of 1-16		83	16	1
Stickiness	No(%) Yes(%) 67 33	Seed-coat frage	No(%	S) Yes(%)

Table 13 2011

Country: Mozambique	y: Mozambique Growth: Mozambique		Number of Sa	imples: 3	
		Degree	Degree of contamination (%)		
Source of contamination		Non- existent/ insignificant	Moderate	Serious	
1 Fabrics made of	- woven plastic	67	33	0	
2	- plastic film	100	0	0	
3	- jute/hessian	67	33	0	
4	- cotton	67	33	0	
5 Strings made of	- woven plastic	100	0	0	
6	- plastic film	100	0	0	
7	- jute/hessian	33	67	0	
8	- cotton	33	67	0	
9 Organic matter	- leaves, feathers, paper, leather e	33	67	0	
10 Inorganic matter	- sand/dust	100	0	0	
11	- rust	100	0	0	
12	- metal/wire	100	0	0	
13 Oily substances/chemicals	- grease/oil	100	0	0	
14	- rubber	100	0	0	
15	- stamp colour	100	0	0	
16	- tar	100	0	0	
Average of 1-16		81	19	0	
Stickiness	No(%) Yes(%)	Seed-coat fragn	No(% 100 nents	%) Yes(%) 0	

Table 14 2011

Country: Nigeria	Growth: Nigeria		Number of Sa	imples: 10
		Degree	of contaminat	ion (%)
Source of contamination		Non- existent/ insignificant	Moderate	Serious
1 Fabrics made of	- woven plastic	20	50	30
2	- plastic film	80	10	10
3	- jute/hessian	90	10	0
4	- cotton	80	0	20
5 Strings made of	- woven plastic	20	10	70
6	- plastic film	20	70	10
7	- jute/hessian	90	10	0
8	- cotton	80	10	10
9 Organic matter	- leaves, feathers, paper, leather	e 10	30	60
10 Inorganic matter	- sand/dust	20	10	70
11	- rust	90	10	0
12	- metal/wire	100	0	0
13 Oily substances/chemicals	- grease/oil	80	10	10
14	- rubber	100	0	0
15	- stamp colour	90	0	10
16	- tar	100	0	0
Average of 1-16		67	14	19
Stickiness	No(%) Yes(%) -80 20	Seed-coat fragi	No(%	%) Yes(%)

Table 15 2011

Country: Senegal	Growth: Senegal		Number of Sa	amples: 1
		Degree	of contaminat	ion (%)
Source of contamination		Non- existent/ insignificant	Moderate	Serious
1 Fabrics made of	- woven plastic	100	0	0
2	- plastic film	100	0	0
3	- jute/hessian	100	0	0
4	- cotton	100	0	0
5 Strings made of	- woven plastic	100	0	0
6	- plastic film	0	100	0
7	- jute/hessian	100	0	0
8	- cotton	100	0	0
9 Organic matter	- leaves, feathers, paper, leather e	0	100	0
10 Inorganic matter	- sand/dust	0	100	0
11	- rust	100	0	0
12	- metal/wire	100	0	0
13 Oily substances/chemicals	- grease/oil	100	0	0
14	- rubber	100	0	0
15	- stamp colour	100	0	0
16	- tar	100	0	0
Average of 1-16		81	19	0
Stickiness	No(%) Yes(%) 100 0	Seed-coat fragn	nents No(%	%) Yes(%) 100

Table 16 2011

Country: South Africa	try: South Africa Growth: South Africa		Number of Sa	mples:	
		Degree of contaminat		ion (%)	
Source of contamination		Non- existent/ insignificant	Moderate	Serious	
1 Fabrics made of	- woven plastic	100	0	0	
2	- plastic film	100	0	0	
3	- jute/hessian	100	0	0	
4	- cotton	100	0	0	
5 Strings made of	- woven plastic	100	0	0	
6	- plastic film	100	0	0	
7	- jute/hessian	100	0	0	
8	- cotton	100	0	0	
9 Organic matter	- leaves, feathers, paper, leather e	0	100	0	
10 Inorganic matter	- sand/dust	100	0	0	
11	- rust	100	0	0	
12	- metal/wire	100	0	0	
13 Oily substances/chemicals	- grease/oil	100	0	0	
14	- rubber	100	0	0	
15	- stamp colour	100	0	0	
16	- tar	100	0	0	
Average of 1-16		94	6	0	
-	No(%) Yes(%)		No(%	5) Yes(%)	
Stickiness	100 0	Seed-coat fragn	nents 100		

Table 17 2011

Country: Sudan	Growth: Acala	Number of Samples:		imples: 1	
		Degree of contamination (%)			
Source of contamination		Non- existent/ insignificant	Moderate	Serious	
1 Fabrics made of	- woven plastic	100	0	0	
2	- plastic film	100	0	0	
3	- jute/hessian	100	0	0	
4	- cotton	100	0	0	
5 Strings made of	- woven plastic	100	0	0	
6	- plastic film	100	0	0	
7	- jute/hessian	100	0	0	
8	- cotton	100	0	0	
9 Organic matter	- leaves, feathers, paper, leather e	0	100	0	
10 Inorganic matter	- sand/dust	100	0	0	
11	- rust	100	0	0	
12	- metal/wire	100	0	0	
13 Oily substances/chemicals	- grease/oil	100	0	0	
14	- rubber	100	0	0	
15	- stamp colour	100	0	0	
16	- tar	100	0	0	
Average of 1-16		94	6	0	
Stickiness	No(%) Yes(%) 0 100	Seed-coat fragn	No(%	%) Yes(%) 100	

Table 18 2011

- woven plastic - plastic film	Non- existent/ insignificant	of contaminati Moderate	on (%) Serious
·	existent/ insignificant	Moderate	Serious
·	50		
- plastic film	50	0	50
plastic IIIII	50	50	0
- jute/hessian	0	50	50
- cotton	50	0	50
- woven plastic	50	50	0
- plastic film	0	50	50
- jute/hessian	0	100	0
- cotton	50	50	0
- leaves, feathers, paper, leather e	0	50	50
- sand/dust	50	50	0
- rust	50	50	0
- metal/wire	50	50	0
- grease/oil	100	0	0
- rubber	50	50	0
- stamp colour	100	0	0
- tar	100	0	0
	46	38	16
	- cotton - woven plastic - plastic film - jute/hessian - cotton - leaves, feathers, paper, leather e - sand/dust - rust - metal/wire - grease/oil - rubber - stamp colour	- cotton 50 - woven plastic 50 - plastic film 0 - jute/hessian 0 - cotton 50 - leaves, feathers, paper, leather e 0 - sand/dust 50 - rust 50 - metal/wire 50 - grease/oil 100 - rubber 50 - stamp colour 100 - tar 100	- cotton 50 0 - woven plastic 50 50 - plastic film 0 50 - jute/hessian 0 100 - cotton 50 50 - leaves, feathers, paper, leather e 0 50 - sand/dust 50 50 - rust 50 50 - metal/wire 50 50 - grease/oil 100 0 - rubber 50 50 - stamp colour 100 0 - tar 100 0

Table 19 2011

Country: Sudan	Growth: Sudan-Oth	ers	Number of Sa	imples: 1
		Degree	of contaminat	ion (%)
Source of contamination		Non- existent/ insignificant	Moderate	Serious
1 Fabrics made of	- woven plastic	100	0	0
2	- plastic film	100	0	0
3	- jute/hessian	100	0	0
4	- cotton	100	0	0
5 Strings made of	- woven plastic	100	0	0
6	- plastic film	100	0	0
7	- jute/hessian	100	0	0
8	- cotton	100	0	0
9 Organic matter	- leaves, feathers, paper, leather e	0	100	0
10 Inorganic matter	- sand/dust	100	0	0
11	- rust	100	0	0
12	- metal/wire	100	0	0
13 Oily substances/chemicals	- grease/oil	100	0	0
14	- rubber	100	0	0
15	- stamp colour	100	0	0
16	- tar	100	0	0
Average of 1-16		94	6	0
Stickiness	No(%) Yes(%) 0 100	Seed-coat fragn	No(%	%) Yes(%) 100

Table 20 2011

Country: Tanzania	Growth: Coastal		Number of Sa	mples:
		Degree	of contaminat	ion (%)
Source of contamination		Non- existent/ insignificant	Moderate	Serious
1 Fabrics made of	- woven plastic	100	0	0
2	- plastic film	50	50	0
3	- jute/hessian	75	0	25
4	- cotton	50	50	0
5 Strings made of	- woven plastic	75	0	25
6	- plastic film	100	0	0
7	- jute/hessian	75	0	25
8	- cotton	75	25	0
9 Organic matter	- leaves, feathers, paper, leather e	0	75	25
10 Inorganic matter	- sand/dust	75	25	0
11	- rust	50	25	25
12	- metal/wire	75	0	25
13 Oily substances/chemicals	- grease/oil	100	0	0
14	- rubber	100	0	0
15	- stamp colour	75	25	0
16	- tar	100	0	0
Average of 1-16		74	17	9
Average of 1-16	No(%) Yes(%)	74	17 No(%	
Stickiness	-50 - 50 -	Seed-coat fragn	nents -0	100

Table 21 2011

Country: Tanzania	Growth: Mwanza		Number of Sa	amples: 1
		Degree	of contaminat	ion (%)
Source of contamination		Non- existent/ insignificant	Moderate	Serious
1 Fabrics made of	- woven plastic	100	0	0
2	- plastic film	100	0	0
3	- jute/hessian	0	100	0
4	- cotton	100	0	0
5 Strings made of	- woven plastic	100	0	0
6	- plastic film	100	0	0
7	- jute/hessian	100	0	0
8	- cotton	100	0	0
9 Organic matter	- leaves, feathers, paper, leather e	0	0	100
10 Inorganic matter	- sand/dust	100	0	0
11	- rust	100	0	0
12	- metal/wire	100	0	0
13 Oily substances/chemicals	- grease/oil	0	0	100
14	- rubber	100	0	0
15	- stamp colour	100	0	0
16	- tar	100	0	0
Average of 1-16		81	6	13
Stickiness	No(%) Yes(%)	Seed-coat fragn	No(%	%) Yes(%) 0

Table 22 2011

Country: Togo	Growth: Togo		Number of Sa	mples:
		Degree	of contaminati	ion (%)
Source of contamination		Non- existent/ insignificant	Moderate	Serious
1 Fabrics made of	- woven plastic	100	0	0
2	- plastic film	67	33	0
3	- jute/hessian	100	0	0
4	- cotton	100	0	0
5 Strings made of	- woven plastic	100	0	0
6	- plastic film	100	0	0
7	- jute/hessian	100	0	0
8	- cotton	67	33	0
9 Organic matter	- leaves, feathers, paper, leather e	67	33	0
10 Inorganic matter	- sand/dust	100	0	0
11	- rust	67	33	0
12	- metal/wire	100	0	0
13 Oily substances/chemicals	- grease/oil	100	0	0
14	- rubber	100	0	0
15	- stamp colour	100	0	0
16	- tar	100	0	0
Average of 1-16		92	8	0
Stickiness	No(%) Yes(%)	Seed-coat fragr	No(%	6) Yes(%)

Table 23 2011

Country: Uganda	Growth: Uganda		Number of Sa	amples: 2
		Degree	of contaminat	ion (%)
Source of contamination		Non- existent/ insignificant	Moderate	Serious
1 Fabrics made of	- woven plastic	50	0	50
2	- plastic film	50	50	0
3	- jute/hessian	50	50	0
4	- cotton	100	0	0
5 Strings made of	- woven plastic	50	0	50
6	- plastic film	50	50	0
7	- jute/hessian	50	50	0
8	- cotton	100	0	0
9 Organic matter	- leaves, feathers, paper, leather e	50	50	0
10 Inorganic matter	- sand/dust	50	50	0
11	- rust	100	0	0
12	- metal/wire	100	0	0
13 Oily substances/chemicals	- grease/oil	100	0	0
14	- rubber	100	0	0
15	- stamp colour	100	0	0
16	- tar	100	0	0
Average of 1-16		75	19	6
Stickiness	No(%) Yes(%) 100 0	Seed-coat fragr	No(% 50 nents	%) Yes(%) 50

Table 24 2011

		of contaminati	ion (%)
	Non- existent/ insignificant	Moderate	Serious
- woven plastic	50	50	0
- plastic film	100	0	0
- jute/hessian	0	100	0
- cotton	50	0	50
- woven plastic	50	50	0
- plastic film	100	0	0
- jute/hessian	0	100	0
- cotton	50	50	0
- leaves, feathers, paper, leather e	0	100	0
- sand/dust	100	0	0
- rust	100	0	0
- metal/wire	50	50	0
- grease/oil	100	0	0
- rubber	100	0	0
- stamp colour	50	50	0
- tar	100	0	0
	63	34	3
	- plastic film - jute/hessian - cotton - woven plastic - plastic film - jute/hessian - cotton - leaves, feathers, paper, leather e - sand/dust - rust - metal/wire - grease/oil - rubber - stamp colour	- woven plastic 50 - plastic film 100 - jute/hessian 0 - cotton 50 - woven plastic 50 - plastic film 100 - jute/hessian 0 - cotton 50 - plastic film 100 - jute/hessian 0 - cotton 50 - leaves, feathers, paper, leather e 0 - sand/dust 100 - rust 100 - metal/wire 50 - grease/oil 100 - rubber 100 - stamp colour 50 - tar 100	Insignificant Society Society

Table 25 2011

Country: Zimbabwe	Growth: Zimbabwe	•	Number of Sa	imples: 8
		Degree	of contaminati	on (%)
Source of contamination		Non- existent/ insignificant	Moderate	Serious
1 Fabrics made of	- woven plastic	62	25	13
2	- plastic film	62	13	25
3	- jute/hessian	75	25	0
4	- cotton	25	50	25
5 Strings made of	- woven plastic	62	25	13
6	- plastic film	49	38	13
7	- jute/hessian	49	38	13
8	- cotton	37	50	13
9 Organic matter	- leaves, feathers, paper, leather e	37	50	13
10 Inorganic matter	- sand/dust	74	13	13
11	- rust	75	25	0
12	- metal/wire	75	25	0
13 Oily substances/chemicals	- grease/oil	100	0	0
14	- rubber	100	0	0
15	- stamp colour	87	13	0
16	- tar	100	0	0
Average of 1-16		67	24	9
Stickiness	No(%) Yes(%) 88 13	Seed-coat frag	Mo(% 63	%) Yes(%) 38

Table 26 2011

Country: Mexico	Growth: Juarez		Number of Sa	imples: 1
		Degree	of contaminat	ion (%)
Source of contamination		Non- existent/ insignificant	Moderate	Serious
1 Fabrics made of	- woven plastic	100	0	0
2	- plastic film	100	0	0
3	- jute/hessian	100	0	0
4	- cotton	100	0	0
5 Strings made of	- woven plastic	100	0	0
6	- plastic film	100	0	0
7	- jute/hessian	100	0	0
8	- cotton	100	0	0
9 Organic matter	- leaves, feathers, paper, leather e	100	0	0
10 Inorganic matter	- sand/dust	0	100	0
11	- rust	100	0	0
12	- metal/wire	100	0	0
13 Oily substances/chemicals	- grease/oil	100	0	0
14	- rubber	100	0	0
15	- stamp colour	100	0	0
16	- tar	100	0	0
Average of 1-16		94	6	0
Stickiness	No(%) Yes(%) 0 100	Seed-coat fragn	No(% 100 nents	%) Yes(%) 0

Table 27 2011

Country: Mexico	Growth: Mexicali		imples:	
		Degree	of contaminat	tion (%)
Source of contamination		Non- existent/ insignificant	Moderate	Serious
1 Fabrics made of	- woven plastic	0	0	100
2	- plastic film	100	0	0
3	- jute/hessian	100	0	0
4	- cotton	100	0	0
5 Strings made of	- woven plastic	100	0	0
6	- plastic film	0	100	0
7	- jute/hessian	100	0	0
8	- cotton	100	0	0
9 Organic matter	- leaves, feathers, paper, leather e	0	100	0
10 Inorganic matter	- sand/dust	100	0	0
11	- rust	100	0	0
12	- metal/wire	100	0	0
13 Oily substances/chemicals	- grease/oil	100	0	0
14	- rubber	100	0	0
15	- stamp colour	100	0	0
16	- tar	100	0	0
Average of 1-16		81	13	6
Stickiness	No(%) Yes(%)	Seed-coat fragn	No(%	%) Yes(%)

Table 28 2011

Country: Mexico	Growth: Mexico-Ot	hers	Number of Sa	imples: 3
		Degree	of contaminat	ion (%)
Source of contamination		Non- existent/ insignificant	Moderate	Serious
1 Fabrics made of	- woven plastic	100	0	0
2	- plastic film	67	33	0
3	- jute/hessian	100	0	0
4	- cotton	100	0	0
5 Strings made of	- woven plastic	100	0	0
6	- plastic film	67	33	0
7	- jute/hessian	100	0	0
8	- cotton	100	0	0
9 Organic matter	- leaves, feathers, paper, leather e	67	33	0
10 Inorganic matter	- sand/dust	100	0	0
11	- rust	100	0	0
12	- metal/wire	100	0	0
13 Oily substances/chemicals	- grease/oil	100	0	0
14	- rubber	100	0	0
15	- stamp colour	100	0	0
16	- tar	100	0	0
Average of 1-16		94	6	0
Stickiness	No(%) Yes(%) 33 67	Seed-coat fragn	No(%	%) Yes(%) 33

Table 29 2011

Country: U.S.A.	Growth: Arizona		Number of Sa	mples:
		Degree	of contaminati	ion (%)
Source of contamination		Non- existent/ insignificant	Moderate	Serious
1 Fabrics made of	- woven plastic	100	0	0
2	- plastic film	100	0	0
3	- jute/hessian	100	0	0
4	- cotton	100	0	0
5 Strings made of	- woven plastic	100	0	0
6	- plastic film	80	20	0
7	- jute/hessian	100	0	0
8	- cotton	100	0	0
9 Organic matter	- leaves, feathers, paper, leather e	60	40	0
10 Inorganic matter	- sand/dust	100	0	0
11	- rust	100	0	0
12	- metal/wire	100	0	0
13 Oily substances/chemicals	- grease/oil	100	0	0
14	- rubber	100	0	0
15	- stamp colour	100	0	0
16	- tar	100	0	0
Average of 1-16		96	4	0
Stickiness	No(%) Yes(%)	Seed-coat fragn	No(%	5) Yes(%)

Table 30 2011

Country: U.S.A.	Growth: California		Number of Sa	imples: 20
		Degree	of contaminat	ion (%)
Source of contamination		Non- existent/ insignificant	Moderate	Serious
1 Fabrics made of	- woven plastic	80	10	10
2	- plastic film	85	10	5
3	- jute/hessian	90	5	5
4	- cotton	95	5	0
5 Strings made of	- woven plastic	80	15	5
6	- plastic film	85	15	0
7	- jute/hessian	85	15	0
8	- cotton	95	5	0
9 Organic matter	- leaves, feathers, paper, leather e	75	15	10
10 Inorganic matter	- sand/dust	65	35	0
11	- rust	95	5	0
12	- metal/wire	90	10	0
13 Oily substances/chemicals	- grease/oil	85	15	0
14	- rubber	95	5	0
15	- stamp colour	95	5	0
16	- tar	85	15	0
Average of 1-16		86	12	2
Stickiness	No(%) Yes(%) 60 40	Seed-coat fragn	No(%	%) Yes(%) 50

Table 31 2011

Country: U.S.A.	Growth: El Paso		Number of Sa	mples:
		Degree	of contaminati	ion (%)
Source of contamination		Non- existent/ insignificant	Moderate	Serious
1 Fabrics made of	- woven plastic	100	0	0
2	- plastic film	100	0	0
3	- jute/hessian	100	0	0
4	- cotton	100	0	0
5 Strings made of	- woven plastic	100	0	0
6	- plastic film	100	0	0
7	- jute/hessian	100	0	0
8	- cotton	100	0	0
9 Organic matter	- leaves, feathers, paper, leather e	100	0	0
10 Inorganic matter	- sand/dust	100	0	0
11	- rust	100	0	0
12	- metal/wire	100	0	0
13 Oily substances/chemicals	- grease/oil	100	0	0
14	- rubber	100	0	0
15	- stamp colour	100	0	0
16	- tar	100	0	0
Average of 1-16		100	0	0

Table 32 2011

Country: U.S.A.	Growth: Memphis	Territory	Number of Sa	amples: 22	
		Degree	of contaminat	ination (%)	
Source of contamination		Non- existent/ insignificant	Moderate	Serious	
1 Fabrics made of	- woven plastic	68	27	5	
2	- plastic film	73	27	0	
3	- jute/hessian	90	5	5	
4	- cotton	95	5	0	
5 Strings made of	- woven plastic	82	18	0	
6	- plastic film	86	14	0	
7	- jute/hessian	95	5	0	
8	- cotton	100	0	0	
9 Organic matter	- leaves, feathers, paper, leather e	54	41	5	
10 Inorganic matter	- sand/dust	77	23	0	
11	- rust	86	14	0	
12	- metal/wire	95	5	0	
13 Oily substances/chemicals	- grease/oil	86	14	0	
14	- rubber	95	5	0	
15	- stamp colour	95	5	0	
16	- tar	95	5	0	
Average of 1-16		86	13	1	
Stickiness	No(%) Yes(%) 77 23	Seed-coat fragr	No(% 59	%) Yes(%) 41	

Table 33 2011

Country: U.S.A.	Growth: Pima		Number of Sa	mples: 2
		Degree	of contaminati	ion (%)
Source of contamination		Non- existent/ insignificant	Moderate	Serious
1 Fabrics made of	- woven plastic	100	0	0
2	- plastic film	100	0	0
3	- jute/hessian	100	0	0
4	- cotton	95	0	5
5 Strings made of	- woven plastic	95	5	0
6	- plastic film	95	5	0
7	- jute/hessian	100	0	0
8	- cotton	85	10	5
9 Organic matter	- leaves, feathers, paper, leather e	80	15	5
10 Inorganic matter	- sand/dust	70	25	5
11	- rust	95	5	0
12	- metal/wire	100	0	0
13 Oily substances/chemicals	- grease/oil	95	5	0
14	- rubber	100	0	0
15	- stamp colour	100	0	0
16	- tar	100	0	0
Average of 1-16		95	4	1
Stickiness	No(%) Yes(%)	Seed-coat fragn	No(%	5) Yes(%)

Table 34 2011

Country: U.S.A.	Growth: South Eas	tern	Number of Sa	imples: 5
		Degree	of contaminat	ion (%)
Source of contamination		Non- existent/ insignificant	Moderate	Serious
1 Fabrics made of	- woven plastic	80	20	0
2	- plastic film	60	40	0
3	- jute/hessian	100	0	0
4	- cotton	60	20	20
5 Strings made of	- woven plastic	80	20	0
6	- plastic film	80	20	0
7	- jute/hessian	80	20	0
8	- cotton	80	0	20
9 Organic matter	- leaves, feathers, paper, leather e	60	40	0
10 Inorganic matter	- sand/dust	80	20	0
11	- rust	80	20	0
12	- metal/wire	100	0	0
13 Oily substances/chemicals	- grease/oil	80	20	0
14	- rubber	100	0	0
15	- stamp colour	100	0	0
16	- tar	100	0	0
Average of 1-16		82	15	3
Stickiness	No(%) Yes(%) 80 20	Seed-coat fragr	No(%	%) Yes(%) 60

Table 35 2011

Degree of contamina	
•	ation (%)
on- tent/ Moderate ificant	Serious
0	0
6 14	0
3 0	7
0	0
3 7	0
3 7	0
0	0
0	0
6 14	0
3 7	0
3 7	0
0	0
0	0
3 7	0
0	0
0	0
6 4	0
(0 0 0 0

Table 36 2011

Country: U.S.A.	Growth: USA-Other	rs	Number of Sa	mples: 7
		Degree	of contaminat	ion (%)
Source of contamination		Non- existent/ insignificant	Moderate	Serious
1 Fabrics made of	- woven plastic	100	0	0
2	- plastic film	86	14	0
3	- jute/hessian	100	0	0
4	- cotton	86	0	14
5 Strings made of	- woven plastic	100	0	0
6	- plastic film	100	0	0
7	- jute/hessian	100	0	0
8	- cotton	86	0	14
9 Organic matter	- leaves, feathers, paper, leather e	72	14	14
10 Inorganic matter	- sand/dust	86	14	0
11	- rust	86	14	0
12	- metal/wire	100	0	0
13 Oily substances/chemicals	- grease/oil	100	0	0
14	- rubber	100	0	0
15	- stamp colour	100	0	0
16	- tar	100	0	0
Average of 1-16		93	4	3
Stickiness	No(%) Yes(%) 86 14	Seed-coat fragr	No(% 71	5) Yes(%) 29

America, South

Table 37 2011

Country: Argentina	Growth: Argentina		Number of Sa	amples: 9
		Degree	of contaminat	ion (%)
Source of contamination		Non- existent/ insignificant	Moderate	Serious
1 Fabrics made of	- woven plastic	100	0	0
2	- plastic film	100	0	0
3	- jute/hessian	100	0	0
4	- cotton	67	22	11
5 Strings made of	- woven plastic	100	0	0
6	- plastic film	100	0	0
7	- jute/hessian	100	0	0
8	- cotton	78	22	0
9 Organic matter	- leaves, feathers, paper, leather e	22	56	22
10 Inorganic matter	- sand/dust	44	56	0
11	- rust	100	0	0
12	- metal/wire	100	0	0
13 Oily substances/chemicals	- grease/oil	100	0	0
14	- rubber	100	0	0
15	- stamp colour	89	11	0
16	- tar	100	0	0
Average of 1-16		88	10	2
Stickiness	No(%) Yes(%)	Seed-coat fragn	No(%	%) Yes(%) 11

Table 38 2011

Country: Brazil	Growth: Brazil		Number of Sa	mples: 2
		Degree	of contaminati	ion (%)
Source of contamination		Non- existent/ insignificant	Moderate	Serious
1 Fabrics made of	- woven plastic	89	11	0
2	- plastic film	93	7	0
3	- jute/hessian	89	11	0
4	- cotton	78	22	0
5 Strings made of	- woven plastic	89	7	4
6	- plastic film	93	7	0
7	- jute/hessian	100	0	0
8	- cotton	78	22	0
9 Organic matter	- leaves, feathers, paper, leather e	63	33	4
10 Inorganic matter	- sand/dust	85	15	0
11	- rust	93	7	0
12	- metal/wire	96	4	0
13 Oily substances/chemicals	- grease/oil	93	7	0
14	- rubber	96	4	0
15	- stamp colour	96	4	0
16	- tar	96	4	0
Average of 1-16		89	10	1
Stickiness	No(%) Yes(%) -78 22	Seed-coat fragn	No(%	5) Yes(%) 26

America, South

Table 39 2011

Country: Brazil	Growth: Brazil Sou	th	Number of Sa	mples: 1		
		Degree	Degree of contamination (%)			
Source of contamination		Non- existent/ insignificant	Moderate	Serious		
1 Fabrics made of	- woven plastic	100	0	0		
2	- plastic film	100	0	0		
3	- jute/hessian	100	0	0		
4	- cotton	100	0	0		
5 Strings made of	- woven plastic	100	0	0		
6	- plastic film	100	0	0		
7	- jute/hessian	100	0	0		
8	- cotton	100	0	0		
9 Organic matter	- leaves, feathers, paper, leather e	100	0	0		
10 Inorganic matter	- sand/dust	100	0	0		
11	- rust	100	0	0		
12	- metal/wire	100	0	0		
13 Oily substances/chemicals	- grease/oil	100	0	0		
14	- rubber	100	0	0		
15	- stamp colour	100	0	0		
16	- tar	100	0	0		
Average of 1-16		100	0	0		
Stickiness	No(%) Yes(%) 100 0	Seed-coat fragn	No(% 100	b) Yes(%) 0		

Table 40 2011

Country: Paraguay	Growth: Paraguay		Number of Sa	imples: 1
		Degree	of contaminat	ion (%)
Source of contamination		Non- existent/ insignificant	Moderate	Serious
1 Fabrics made of	- woven plastic	100	0	0
2	- plastic film	100	0	0
3	- jute/hessian	100	0	0
4	- cotton	100	0	0
5 Strings made of	- woven plastic	100	0	0
6	- plastic film	100	0	0
7	- jute/hessian	100	0	0
8	- cotton	100	0	0
9 Organic matter	- leaves, feathers, paper, leather e	100	0	0
10 Inorganic matter	- sand/dust	100	0	0
11	- rust	100	0	0
12	- metal/wire	100	0	0
13 Oily substances/chemicals	- grease/oil	100	0	0
14	- rubber	100	0	0
15	- stamp colour	100	0	0
16	- tar	100	0	0
Average of 1-16		100	0	0
Stickiness	No(%) Yes(%)	Seed-coat fragr	No(% 100	%) Yes(%)

America, South

Table 41 2011

Country: Peru	Growth: Del Cerro		Number of Sa	mples: 1
		Degree	of contaminat	ion (%)
Source of contamination		Non- existent/ insignificant	Moderate	Serious
1 Fabrics made of	- woven plastic	100	0	0
2	- plastic film	100	0	0
3	- jute/hessian	100	0	0
4	- cotton	100	0	0
5 Strings made of	- woven plastic	100	0	0
6	- plastic film	100	0	0
7	- jute/hessian	100	0	0
8	- cotton	100	0	0
9 Organic matter	- leaves, feathers, paper, leather e	100	0	0
10 Inorganic matter	- sand/dust	100	0	0
11	- rust	100	0	0
12	- metal/wire	100	0	0
13 Oily substances/chemicals	- grease/oil	100	0	0
14	- rubber	100	0	0
15	- stamp colour	100	0	0
16	- tar	100	0	0
Average of 1-16	<u> </u>	100	0	0
Stickiness	No(%) Yes(%) 100 0	Seed-coat fragr	No(%	%) Yes(%) 100

Table 42 2011

Country: Afghanistan	Growth: Afghanista	an	Number of Sa	imples: 1
		Degree	on (%)	
Source of contamination		Non- existent/ insignificant	Moderate	Serious
1 Fabrics made of	- woven plastic	100	0	0
2	- plastic film	100	0	0
3	- jute/hessian	100	0	0
4	- cotton	100	0	0
5 Strings made of	- woven plastic	100	0	0
6	- plastic film	100	0	0
7	- jute/hessian	100	0	0
8	- cotton	0	0	100
9 Organic matter	- leaves, feathers, paper, leather e	100	0	0
10 Inorganic matter	- sand/dust	100	0	0
11	- rust	100	0	0
12	- metal/wire	100	0	0
13 Oily substances/chemicals	- grease/oil	100	0	0
14	- rubber	100	0	0
15	- stamp colour	100	0	0
16	- tar	100	0	0
Average of 1-16		94	0	6
Stickiness	No(%) Yes(%) 100 0	Seed-coat fragn	No(% 100 nents	6) Yes(%) 0

Table 43 2011

Country: Australia	Growth: Australia		Number of Sa	mples: 18
		Degree	of contaminat	ion (%)
Source of contamination		Non- existent/ insignificant	Moderate	Serious
1 Fabrics made of	- woven plastic	94	6	0
2	- plastic film	100	0	0
3	- jute/hessian	89	11	0
4	- cotton	77	17	6
5 Strings made of	- woven plastic	89	11	0
6	- plastic film	89	11	0
7	- jute/hessian	83	17	0
8	- cotton	72	22	6
9 Organic matter	- leaves, feathers, paper, leather e	72	22	6
10 Inorganic matter	- sand/dust	83	11	6
11	- rust	89	11	0
12	- metal/wire	83	17	0
13 Oily substances/chemicals	- grease/oil	89	11	0
14	- rubber	94	6	0
15	- stamp colour	94	6	0
16	- tar	89	11	0
Average of 1-16		86	12	2
Stickiness	No(%) Yes(%)	Seed-coat fragr	No(%	b) Yes(%)

Table 44 2011

Country: China	Growth: China-Oth	ers	Number of Sa	amples: 1
		Degree	of contaminat	ion (%)
Source of contamination		Non- existent/ insignificant	Moderate	Serious
1 Fabrics made of	- woven plastic	0	0	100
2	- plastic film	0	100	0
3	- jute/hessian	0	100	0
4	- cotton	0	100	0
5 Strings made of	- woven plastic	0	0	100
6	- plastic film	100	0	0
7	- jute/hessian	0	0	100
8	- cotton	0	0	100
9 Organic matter	- leaves, feathers, paper, leather e	0	0	100
10 Inorganic matter	- sand/dust	0	100	0
11	- rust	100	0	0
12	- metal/wire	0	100	0
13 Oily substances/chemicals	- grease/oil	0	100	0
14	- rubber	100	0	0
15	- stamp colour	100	0	0
16	- tar	100	0	0
Average of 1-16		31	38	31
Stickiness	No(%) Yes(%) 100 0	Seed-coat fragr	No(%	%) Yes(%) 100

Table 45 2011

Country: China	Growth: Xinjiang		Number of Sa	mples: 11
		Degree	ion (%)	
Source of contamination		Non- existent/ insignificant	Moderate	Serious
1 Fabrics made of	- woven plastic	27	73	0
2	- plastic film	36	55	9
3	- jute/hessian	91	9	0
4	- cotton	64	18	18
5 Strings made of	- woven plastic	55	18	27
6	- plastic film	73	18	9
7	- jute/hessian	91	0	9
8	- cotton	64	9	27
9 Organic matter	- leaves, feathers, paper, leather e	46	36	18
10 Inorganic matter	- sand/dust	55	45	0
11	- rust	100	0	0
12	- metal/wire	82	9	9
13 Oily substances/chemicals	- grease/oil	64	36	0
14	- rubber	91	9	0
15	- stamp colour	91	9	0
16	- tar	91	0	9
Average of 1-16		70	22	8
Stickiness	No(%) Yes(%)	Seed-coat fragn	No(% 55	%) Yes(%) 45

Table 46 2011

Country: India	Growth: DCH	DCH Number		
		Degree	of contaminat	ion (%)
Source of contamination		Non- existent/ insignificant	Moderate	Serious
1 Fabrics made of	- woven plastic	25	50	25
2	- plastic film	49	13	38
3	- jute/hessian	37	50	13
4	- cotton	62	13	25
5 Strings made of	- woven plastic	37	50	13
6	- plastic film	49	13	38
7	- jute/hessian	12	38	50
8	- cotton	50	25	25
9 Organic matter	- leaves, feathers, paper, leather e	24	13	63
10 Inorganic matter	- sand/dust	49	38	13
11	- rust	62	38	0
12	- metal/wire	75	0	25
13 Oily substances/chemicals	- grease/oil	62	38	0
14	- rubber	75	25	0
15	- stamp colour	62	38	0
16	- tar	87	13	0
Average of 1-16		51	28	21
Stickiness	No(%) Yes(%) 50 50	Seed-coat fragr	No(% 63	%) Yes(%) 38

Table 47 2011

Country: India	Growth: H-4		Number of Sa	mples: 6
		Degree of contamination (%)		
Source of contamination		Non- existent/ insignificant	Moderate	Serious
1 Fabrics made of	- woven plastic	67	33	0
2	- plastic film	83	17	0
3	- jute/hessian	50	50	0
4	- cotton	17	83	0
5 Strings made of	- woven plastic	50	33	17
6	- plastic film	33	50	17
7	- jute/hessian	50	33	17
8	- cotton	50	33	17
9 Organic matter	- leaves, feathers, paper, leather e	0	83	17
10 Inorganic matter	- sand/dust	83	17	0
11	- rust	83	17	0
12	- metal/wire	83	17	0
13 Oily substances/chemicals	- grease/oil	66	17	17
14	- rubber	83	17	0
15	- stamp colour	83	17	0
16	- tar	83	17	0
Average of 1-16		61	33	6
	No(%) Yes(%)		No(%	%) Yes(%)
Stickiness	No(%) Yes(%)	Seed-coat fragr		,

Table 48 2011

Country: India	Growth: India-Othe	rs	Number of Sa	amples: 10
		Degree	of contaminat	ion (%)
Source of contamination		Non- existent/ insignificant	Moderate	Serious
1 Fabrics made of	- woven plastic	60	20	20
2	- plastic film	60	30	10
3	- jute/hessian	50	30	20
4	- cotton	20	40	40
5 Strings made of	- woven plastic	70	0	30
6	- plastic film	50	30	20
7	- jute/hessian	40	20	40
8	- cotton	30	40	30
9 Organic matter	- leaves, feathers, paper, leather e	20	30	50
10 Inorganic matter	- sand/dust	70	10	20
11	- rust	80	20	0
12	- metal/wire	80	10	10
13 Oily substances/chemicals	- grease/oil	70	10	20
14	- rubber	100	0	0
15	- stamp colour	90	10	0
16	- tar	100	0	0
Average of 1-16		62	19	19
Stickiness	No(%) Yes(%) 60 40	Seed-coat fragr	ments $\frac{\text{No}(\%)}{30}$	%) Yes(%) 70

Table 49 2011

Country: India	Growth: J-34		Number of Sa	mples: 14
		Degree of contamination (%)		
Source of contamination		Non- existent/ insignificant	Moderate	Serious
1 Fabrics made of	- woven plastic	43	43	14
2	- plastic film	50	14	36
3	- jute/hessian	35	36	29
4	- cotton	35	36	29
5 Strings made of	- woven plastic	28	43	29
6	- plastic film	36	50	14
7	- jute/hessian	14	43	43
8	- cotton	50	21	29
9 Organic matter	- leaves, feathers, paper, leather e	22	64	14
10 Inorganic matter	- sand/dust	72	14	14
11	- rust	86	14	0
12	- metal/wire	86	14	0
13 Oily substances/chemicals	- grease/oil	79	21	0
14	- rubber	100	0	0
15	- stamp colour	100	0	0
16	- tar	100	0	0
Average of 1-16		58	26	16
	No(%) Yes(%)		No(%	b) Yes(%)
Stickiness	,	Seed-coat fragn	nents 30	30

Table 50 2011

Country: India	Growth: LRA	Number of Samples:		
		Degree	of contaminat	ion (%)
Source of contamination		Non- existent/ insignificant	Moderate	Serious
1 Fabrics made of	- woven plastic	0	100	0
2	- plastic film	100	0	0
3	- jute/hessian	100	0	0
4	- cotton	100	0	0
5 Strings made of	- woven plastic	100	0	0
6	- plastic film	0	100	0
7	- jute/hessian	0	100	0
8	- cotton	100	0	0
9 Organic matter	- leaves, feathers, paper, leather e	100	0	0
10 Inorganic matter	- sand/dust	100	0	0
11	- rust	100	0	0
12	- metal/wire	100	0	0
13 Oily substances/chemicals	- grease/oil	100	0	0
14	- rubber	100	0	0
15	- stamp colour	100	0	0
16	- tar	100	0	0
Average of 1-16		81	19	0
Stickiness	No(%) Yes(%) 100 0	Seed-coat fragn	No(% 100 100 100 100 100 100 100 100 100 10	%) Yes(%) 0

Table 51 2011

Country: India	Growth: MCU-5		Number of Sa	mples: 12
		Degree of contamination (%)		
Source of contamination		Non- existent/ insignificant	Moderate	Serious
1 Fabrics made of	- woven plastic	25	33	42
2	- plastic film	25	33	42
3	- jute/hessian	9	33	58
4	- cotton	9	33	58
5 Strings made of	- woven plastic	17	8	75
6	- plastic film	16	17	67
7	- jute/hessian	0	17	83
8	- cotton	42	8	50
9 Organic matter	- leaves, feathers, paper, leather e	25	25	50
10 Inorganic matter	- sand/dust	41	42	17
11	- rust	67	33	0
12	- metal/wire	58	42	0
13 Oily substances/chemicals	- grease/oil	50	42	8
14	- rubber	75	25	0
15	- stamp colour	92	0	8
16	- tar	92	8	0
Average of 1-16		40	25	35
Stickiness	No(%) Yes(%) -58 42	Seed-coat fragr	No(%	67 Yes(%)

Table 52 2011

Country: India	Growth: Shankar-4	/6	Number of Sa	amples: 30
		Degree	of contaminat	ion (%)
Source of contamination		Non- existent/ insignificant	Moderate	Serious
1 Fabrics made of	- woven plastic	44	43	13
2	- plastic film	47	30	23
3	- jute/hessian	47	43	10
4	- cotton	36	37	27
5 Strings made of	- woven plastic	30	37	33
6	- plastic film	30	43	27
7	- jute/hessian	26	47	27
8	- cotton	33	37	30
9 Organic matter	- leaves, feathers, paper, leather e	20	43	37
10 Inorganic matter	- sand/dust	50	40	10
11	- rust	66	27	7
12	- metal/wire	60	30	10
13 Oily substances/chemicals	- grease/oil	66	27	7
14	- rubber	87	10	3
15	- stamp colour	70	20	10
16	- tar	90	7	3
Average of 1-16		50	33	17
Stickiness	No(%) Yes(%) 83 17	Seed-coat fragr	No(% 50 50	%) Yes(%) 50

Table 53 2011

Country: Israel	Growth: Pima		Number of Samples:		
		Degree of contamination (%)			
Source of contamination		Non- existent/ insignificant	Moderate	Serious	
1 Fabrics made of	- woven plastic	100	0	0	
2	- plastic film	75	25	0	
3	- jute/hessian	75	25	0	
4	- cotton	100	0	0	
5 Strings made of	- woven plastic	100	0	0	
6	- plastic film	100	0	0	
7	- jute/hessian	100	0	0	
8	- cotton	100	0	0	
9 Organic matter	- leaves, feathers, paper, leather e	75	25	0	
10 Inorganic matter	- sand/dust	75	25	0	
11	- rust	100	0	0	
12	- metal/wire	100	0	0	
13 Oily substances/chemicals	- grease/oil	100	0	0	
14	- rubber	100	0	0	
15	- stamp colour	100	0	0	
16	- tar	100	0	0	
Average of 1-16		94	6	0	
Stickiness	No(%) Yes(%) -75 25	Seed-coat fragn	No(%	%) Yes(%)	

Table 54 2011

Country: Pakistan	Growth: AmSeed 1	505	Number of Sa	amples: 3
		Degree	of contaminat	ion (%)
Source of contamination		Non- existent/ insignificant	Moderate	Serious
1 Fabrics made of	- woven plastic	34	33	33
2	- plastic film	67	0	33
3	- jute/hessian	67	33	0
4	- cotton	67	0	33
5 Strings made of	- woven plastic	33	67	0
6	- plastic film	67	33	0
7	- jute/hessian	67	0	33
8	- cotton	67	0	33
9 Organic matter	- leaves, feathers, paper, leather e	33	0	67
10 Inorganic matter	- sand/dust	67	0	33
11	- rust	67	33	0
12	- metal/wire	67	33	0
13 Oily substances/chemicals	- grease/oil	67	33	0
14	- rubber	100	0	0
15	- stamp colour	67	33	0
16	- tar	67	33	0
Average of 1-16		62	21	17
Stickiness	No(%) Yes(%) 67 33	Seed-coat fragn	nents $\frac{\text{No}(9)}{33}$	67 Yes(%)

Table 55 2011

Country: Pakistan	Growth: AmSeed A	FZAL	Number of Sa	mples: 4
		Degree	of contaminat	ion (%)
Source of contamination		Non- existent/ insignificant	Moderate	Serious
1 Fabrics made of	- woven plastic	50	50	0
2	- plastic film	25	50	25
3	- jute/hessian	25	75	0
4	- cotton	25	50	25
5 Strings made of	- woven plastic	50	50	0
6	- plastic film	25	75	0
7	- jute/hessian	25	75	0
8	- cotton	25	50	25
9 Organic matter	- leaves, feathers, paper, leather e	0	50	50
10 Inorganic matter	- sand/dust	50	25	25
11	- rust	75	0	25
12	- metal/wire	75	0	25
13 Oily substances/chemicals	- grease/oil	100	0	0
14	- rubber	75	25	0
15	- stamp colour	100	0	0
16	- tar	100	0	0
Average of 1-16		51	36	13
Stickiness	No(%) Yes(%) -75 25	Seed-coat fragr	No(% 50	5) Yes(%) 50

Table 56 2011

Country: Pakistan	Growth: MNH93		Number of Sa	amples: 3
		Degree	of contaminat	ion (%)
Source of contamination		Non- existent/ insignificant	Moderate	Serious
1 Fabrics made of	- woven plastic	67	33	0
2	- plastic film	67	33	0
3	- jute/hessian	67	0	33
4	- cotton	67	33	0
5 Strings made of	- woven plastic	33	0	67
6	- plastic film	33	67	0
7	- jute/hessian	33	0	67
8	- cotton	67	33	0
9 Organic matter	- leaves, feathers, paper, leather e	0	67	33
10 Inorganic matter	- sand/dust	0	33	67
11	- rust	67	33	0
12	- metal/wire	67	33	0
13 Oily substances/chemicals	- grease/oil	100	0	0
14	- rubber	100	0	0
15	- stamp colour	100	0	0
16	- tar	100	0	0
Average of 1-16		60	23	17
Stickiness	No(%) Yes(%) 100 0	Seed-coat fragr	No(%	%) Yes(%) 33

Table 57 2011

Country: Pakistan	Growth: NAIB		Number of Samples:		
	<u> </u>	Degree	of contaminat	ion (%)	
Source of contamination		Non- existent/ insignificant	Moderate	Serious	
1 Fabrics made of	- woven plastic	50	50	0	
2	- plastic film	50	50	0	
3	- jute/hessian	50	0	50	
4	- cotton	50	0	50	
5 Strings made of	- woven plastic	50	0	50	
6	- plastic film	50	50	0	
7	- jute/hessian	50	0	50	
8	- cotton	50	50	0	
9 Organic matter	- leaves, feathers, paper, leather e	0	0	100	
10 Inorganic matter	- sand/dust	0	0	100	
11	- rust	50	50	0	
12	- metal/wire	50	50	0	
13 Oily substances/chemicals	- grease/oil	100	0	0	
14	- rubber	100	0	0	
15	- stamp colour	100	0	0	
16	- tar	100	0	0	
Average of 1-16		56	19	25	
	No(%) Yes(%)		No(%	%) Yes(%)	
Stickiness	No(%) Yes(%)	Seed-coat fragn		No(%	

Table 58 2011

Country: Pakistan	Growth: Pakistan-C)thers	Number of Sa	amples: 3
		Degree	of contaminat	ion (%)
Source of contamination		Non- existent/ insignificant	Moderate	Serious
1 Fabrics made of	- woven plastic	100	0	0
2	- plastic film	67	33	0
3	- jute/hessian	67	0	33
4	- cotton	67	0	33
5 Strings made of	- woven plastic	100	0	0
6	- plastic film	67	0	33
7	- jute/hessian	67	33	0
8	- cotton	67	33	0
9 Organic matter	- leaves, feathers, paper, leather e	34	33	33
10 Inorganic matter	- sand/dust	67	0	33
11	- rust	67	33	0
12	- metal/wire	67	33	0
13 Oily substances/chemicals	- grease/oil	100	0	0
14	- rubber	100	0	0
15	- stamp colour	100	0	0
16	- tar	100	0	0
Average of 1-16		78	12	10
Stickiness	No(%) Yes(%) 33 67	Seed-coat fragn	nents No(%	%) Yes(%) 33

Table 59 2011

stic n n stic	Non- existent/ insignificant 100 89 100 100 89 89 89 89	0 11 0 0 11 11	Serious 0 0 0 0 0 0 0 0 0 0
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thers, paper, leather	re 78	11	11
	89	11	0
	100	0	0
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	100	0	0
ur	100	0	0
	100	0	0
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Table 60 2011

Country: Tajikistan	Growth: Long Stap	les	Number of Sa	imples: 2
		Degree	of contaminat	ion (%)
Source of contamination		Non- existent/ insignificant	Moderate	Serious
1 Fabrics made of	- woven plastic	50	50	0
2	- plastic film	50	50	0
3	- jute/hessian	50	50	0
4	- cotton	50	50	0
5 Strings made of	- woven plastic	0	100	0
6	- plastic film	50	50	0
7	- jute/hessian	50	50	0
8	- cotton	100	0	0
9 Organic matter	- leaves, feathers, paper, leather e	0	100	0
10 Inorganic matter	- sand/dust	100	0	0
11	- rust	100	0	0
12	- metal/wire	100	0	0
13 Oily substances/chemicals	- grease/oil	100	0	0
14	- rubber	100	0	0
15	- stamp colour	100	0	0
16	- tar	100	0	0
Average of 1-16		69	31	0
Stickiness	No(%) Yes(%) 0 100	Seed-coat fragr	No(%	%) Yes(%) 100

Table 61 2011

Country: Tajikistan	Growth: Medium S	taples	Number of Sa	mples:
		Degree	of contaminat	ion (%)
Source of contamination		Non- existent/ insignificant	Moderate	Serious
1 Fabrics made of	- woven plastic	50	50	0
2	- plastic film	75	25	0
3	- jute/hessian	50	50	0
4	- cotton	50	50	0
5 Strings made of	- woven plastic	25	75	0
6	- plastic film	75	25	0
7	- jute/hessian	100	0	0
8	- cotton	100	0	0
9 Organic matter	- leaves, feathers, paper, leather e	25	75	0
10 Inorganic matter	- sand/dust	50	50	0
11	- rust	75	25	0
12	- metal/wire	75	25	0
13 Oily substances/chemicals	- grease/oil	75	25	0
14	- rubber	100	0	0
15	- stamp colour	75	25	0
16	- tar	100	0	0
Average of 1-16		69	31	0
Stickiness	No(%) Yes(%)	Seed-coat fragi	No(%	5) Yes(%)

Table 62 2011

Country: Turkmenistan	Growth: Long Stap	les	Number of Sa	amples: 2
		Degree	of contaminat	ion (%)
Source of contamination		Non- existent/ insignificant	Moderate	Serious
1 Fabrics made of	- woven plastic	50	0	50
2	- plastic film	50	50	0
3	- jute/hessian	0	50	50
4	- cotton	50	50	0
5 Strings made of	- woven plastic	50	50	0
6	- plastic film	50	0	50
7	- jute/hessian	0	50	50
8	- cotton	100	0	0
9 Organic matter	- leaves, feathers, paper, leather e	0	50	50
10 Inorganic matter	- sand/dust	50	0	50
11	- rust	50	0	50
12	- metal/wire	50	50	0
13 Oily substances/chemicals	- grease/oil	50	50	0
14	- rubber	50	50	0
15	- stamp colour	50	50	0
16	- tar	50	50	0
Average of 1-16		44	34	22
	No(9/) Voo/9/)		No/0	() Voo(9()
Stickiness	No(%) Yes(%) 50 50	Seed-coat fragr	nents No(%	%) Yes(%) 50

Table 63 2011

Country: Turkmenistan	Growth: Medium S	taples	Number of Sa	mples: 4
		Degree of contamination (%)		
Source of contamination		Non- existent/ insignificant	Moderate	Serious
1 Fabrics made of	- woven plastic	100	0	0
2	- plastic film	100	0	0
3	- jute/hessian	100	0	0
4	- cotton	75	25	0
5 Strings made of	- woven plastic	100	0	0
6	- plastic film	75	25	0
7	- jute/hessian	100	0	0
8	- cotton	100	0	0
9 Organic matter	- leaves, feathers, paper, leather e	100	0	0
10 Inorganic matter	- sand/dust	100	0	0
11	- rust	75	25	0
12	- metal/wire	50	50	0
13 Oily substances/chemicals	- grease/oil	100	0	0
14	- rubber	100	0	0
15	- stamp colour	100	0	0
16	- tar	100	0	0
Average of 1-16		92	8	0
Stickiness	No(%) Yes(%) -75 25	Seed-coat fragr	No(% 100	%) Yes(%)

Table 64 2011

Country: Uzbekistan	Growth: Long Staples Number			per of Samples: 3	
		Degree of contamination (%)			
Source of contamination		Non- existent/ insignificant	Moderate	Serious	
1 Fabrics made of	- woven plastic	33	67	0	
2	- plastic film	67	33	0	
3	- jute/hessian	67	33	0	
4	- cotton	33	67	0	
5 Strings made of	- woven plastic	67	33	0	
6	- plastic film	67	33	0	
7	- jute/hessian	33	67	0	
8	- cotton	67	33	0	
9 Organic matter	- leaves, feathers, paper, leather e	0	67	33	
10 Inorganic matter	- sand/dust	67	33	0	
11	- rust	33	67	0	
12	- metal/wire	67	33	0	
13 Oily substances/chemicals	- grease/oil	100	0	0	
14	- rubber	67	33	0	
15	- stamp colour	100	0	0	
16	- tar	100	0	0	
Average of 1-16		61	37	2	
Stickiness	No(%) Yes(%) 100 0	Seed-coat fragn	No(%	%) Yes(%) 33	

Table 65 2011

Country: Uzbekistan	Growth: Medium St	taples	ples Number of Sampl	
		Degree of contamination (%)		
Source of contamination		Non- existent/ insignificant	Moderate	Serious
1 Fabrics made of	- woven plastic	60	33	7
2	- plastic film	87	13	0
3	- jute/hessian	80	13	7
4	- cotton	80	20	0
5 Strings made of	- woven plastic	73	20	7
6	- plastic film	73	27	0
7	- jute/hessian	93	0	7
8	- cotton	93	0	7
9 Organic matter	- leaves, feathers, paper, leather e	47	33	20
10 Inorganic matter	- sand/dust	60	27	13
11	- rust	73	27	0
12	- metal/wire	80	13	7
13 Oily substances/chemicals	- grease/oil	87	13	0
14	- rubber	87	13	0
15	- stamp colour	87	13	0
16	- tar	100	0	0
Average of 1-16		78	17	5
<u> </u>	No(%) Yes(%)		No(%	
Stickiness	-73 27 	Seed-coat fragr	nents 67	33

Europe

Table 66 2011

Country: Greece	Growth: Greece		Number of Sa	imples: 28
		Degree	of contaminat	ion (%)
Source of contamination		Non- existent/ insignificant	Moderate	Serious
1 Fabrics made of	- woven plastic	85	11	4
2	- plastic film	82	7	11
3	- jute/hessian	96	0	4
4	- cotton	92	4	4
5 Strings made of	- woven plastic	93	0	7
6	- plastic film	85	11	4
7	- jute/hessian	96	0	4
8	- cotton	92	4	4
9 Organic matter	- leaves, feathers, paper, leather e	60	29	11
10 Inorganic matter	- sand/dust	71	11	18
11	- rust	86	7	7
12	- metal/wire	96	0	4
13 Oily substances/chemicals	- grease/oil	89	4	7
14	- rubber	92	4	4
15	- stamp colour	96	0	4
16	- tar	96	0	4
Average of 1-16		88	6	6
Stickiness	No(%) Yes(%) 86 14	Seed-coat fragr	No(%	%) Yes(%) 32

Table 67 2011

Country: Spain	Growth: Spain		Number of Sa	Moderate Serious	
		Degree of contamination (%)			
Source of contamination		Non- existent/ insignificant	Moderate	Serious	
1 Fabrics made of	- woven plastic	89	0	11	
2	- plastic film	89	11	0	
3	- jute/hessian	89	11	0	
4	- cotton	78	11	11	
5 Strings made of	- woven plastic	89	0	11	
6	- plastic film	56	33	11	
7	- jute/hessian	100	0	0	
8	- cotton	100	0	0	
9 Organic matter	- leaves, feathers, paper, leather e	56	33	11	
10 Inorganic matter	- sand/dust	89	11	0	
11	- rust	89	11	0	
12	- metal/wire	89	11	0	
13 Oily substances/chemicals	- grease/oil	100	0	0	
14	- rubber	100	0	0	
15	- stamp colour	100	0	0	
16	- tar	100	0	0	
Average of 1-16		89	8	3	
Stickiness	No(%) Yes(%)	Seed-coat fragn	No(%	b) Yes(%)	

Europe

Table 68 2011

Country: Turkey	Growth: Antalya	Number of Samples:		
		Degree of contamination (%)		
Source of contamination		Non- existent/ insignificant	Moderate	Serious
1 Fabrics made of	- woven plastic	100	0	0
2	- plastic film	100	0	0
3	- jute/hessian	100	0	0
4	- cotton	0	100	0
5 Strings made of	- woven plastic	100	0	0
6	- plastic film	100	0	0
7	- jute/hessian	100	0	0
8	- cotton	0	100	0
9 Organic matter	- leaves, feathers, paper, leather e	100	0	0
10 Inorganic matter	- sand/dust	100	0	0
11	- rust	100	0	0
12	- metal/wire	100	0	0
13 Oily substances/chemicals	- grease/oil	100	0	0
14	- rubber	100	0	0
15	- stamp colour	100	0	0
16	- tar	100	0	0
Average of 1-16		87	13	0
Stickiness	No(%) Yes(%) 100 0	Seed-coat fragn	No(%	%) Yes(%) 0

Table 69 2011

Country: Turkey	Growth: Cukurova/	South	Number of Samples:	
		Degree of contamination (%)		
Source of contamination		Non- existent/ insignificant	Moderate	Serious
1 Fabrics made of	- woven plastic	50	50	0
2	- plastic film	50	25	25
3	- jute/hessian	75	25	0
4	- cotton	25	50	25
5 Strings made of	- woven plastic	50	50	0
6	- plastic film	50	25	25
7	- jute/hessian	75	25	0
8	- cotton	0	100	0
9 Organic matter	- leaves, feathers, paper, leather e	25	25	50
10 Inorganic matter	- sand/dust	25	50	25
11	- rust	75	25	0
12	- metal/wire	25	50	25
13 Oily substances/chemicals	- grease/oil	75	25	0
14	- rubber	75	25	0
15	- stamp colour	75	25	0
16	- tar	75	25	0
Average of 1-16		51	38	11
Stickiness	No(%) Yes(%)	Seed-coat fragr	No(%	5) Yes(%)

Europe

Table 70 2011

Country: Turkey	Growth: Izmir		Number of S	amples: 6	
		Degree	ee of contamination (%)		
Source of contamination		Non- existent/ insignificant	Moderate	Serious	
1 Fabrics made of	- woven plastic	83	0	17	
2	- plastic film	83	0	17	
3	- jute/hessian	83	0	17	
4	- cotton	66	17	17	
5 Strings made of	- woven plastic	83	0	17	
6	- plastic film	66	17	17	
7	- jute/hessian	83	0	17	
8	- cotton	66	17	17	
9 Organic matter	- leaves, feathers, paper, leather e	83	0	17	
10 Inorganic matter	- sand/dust	83	0	17	
11	- rust	83	0	17	
12	- metal/wire	83	0	17	
13 Oily substances/chemicals	- grease/oil	83	17	0	
14	- rubber	83	17	0	
15	- stamp colour	83	17	0	
16	- tar	83	17	0	
Average of 1-16		80	7	13	
Stickiness	No(%) Yes(%) 100 0	Seed-coat fragn	No(9		

Table 71 2011

Country: Turkey	Growth: Turkey-Others		Number of Samples:	
		Degree of contamination (%)		
Source of contamination		Non- existent/ insignificant	Moderate	Serious
1 Fabrics made of	- woven plastic	100	0	0
2	- plastic film	100	0	0
3	- jute/hessian	67	33	0
4	- cotton	50	50	0
5 Strings made of	- woven plastic	83	17	0
6	- plastic film	83	17	0
7	- jute/hessian	83	0	17
8	- cotton	50	33	17
9 Organic matter	- leaves, feathers, paper, leather e	17	50	33
10 Inorganic matter	- sand/dust	33	17	50
11	- rust	67	33	0
12	- metal/wire	67	33	0
13 Oily substances/chemicals	- grease/oil	100	0	0
14	- rubber	100	0	0
15	- stamp colour	83	17	0
16	- tar	100	0	0
Average of 1-16		74	19	7
Stickiness	No(%) Yes(%)	Seed-coat fragr	No(%	5) Yes(%)

Press Release Summary of Survey Results 2013

"After some improvements in the recent past foreign matters, stickiness and seed-coat fragments in raw cotton pose serious challenges to the cotton spinning industry worldwide." This is the general conclusion to be drawn from the "Cotton Contamination Survey 2013" which has just been released by the International Textile Manufacturers Federation (ITMF). The survey is carried out every other year, the 2013 edition being the thirteens in the series since the changeover to a new methodology in 1989. In the 2013 report, 119 spinning mills located in 24 countries evaluated 73 different cotton growths.

Contamination - slight increase

The level of cottons moderately or seriously contaminated as perceived by the spinning mills from around the world rose from 23% to 26% compared to the last survey in 2011. A closer look at the extent of the contamination shows that 8% (2011: 7%) of all cotton evaluated were seriously contaminated by some sort of foreign matter whereas 18% (2011: 16%) were only moderately contaminated. As the summary data are arithmetic averages of the different contaminants, the extent of contamination is fully illustrated only by the results for the individual contaminants. They range from 7% for "tar" (2011: 5%) to 55% of all cottons processed being moderately or seriously contaminated by "organic matter", i.e. leaves, feathers, paper, leather, etc. (2011: 51%). Other serious contaminants are "strings made of cotton" (38%), "strings made of woven plastics" (36%), "fabrics made of cotton" (36%) as well as "strings made of jute/hessian" (34%). The most contaminated cotton descriptions considered for the survey originated in India (DCH, Shankar-4/6, MCU-5, J-34, India-Others), Zambia, Pakistan (Pakistan Others), Tajikistan (Medium Staples), Uzbekistan (Medium Staples) and China (Xinjiang). In contrast, very clean raw cottons were produced in USA, (California, USA-Others, Memphis Territory, South Eastern and Pima), Spain, Australia, Brazil, Togo and Benin.

Stickiness - significant rise

The presence of sticky cotton as perceived by the spinning mills increased again in 2013 significantly from 20% in 2011 to 23%. This level is higher than the long-term average. Therefore, stickiness remains a major challenge to the global cotton spinning industry. Descriptions that were affected most by stickiness were those from Uzbekistan (Medium Staples), Turkmenistan (Medium Staples), Togo, Mozambique, Chad, Burkina Faso, Tajikistan (Medium Staples), Mali, Ivory Coast and China (Xinjiang). On the other end of the range, cottons from USA (Texas High Plains, California, South Eastern), India (J-34, MCU, India-Others), Zambia, Pakistan (Others) and Egypt (Giza) were not or hardly affected by stickiness.

Seed-coat fragments – noticeable jump

With regard to seed-coat fragments the Cotton Contamination Survey 2013 shows that their appearance in cotton growths remains an issue for spinners around the world. 42% of cotton spinners (2011: 38%) claim that they have encountered moderate or significant amounts of seed-coat fragments in the cotton growths consumed. This is a jump of 11 percentage points since the all-time low of 31% in 2009. The origins affected most by seed-coat fragments are those from Nigeria, India (H-4, J-34, Shankar-4/6, MCU-5, India-Others), Pakistan-Others, Argentina, Mozambique and Zambia. Countries for which the existence of seed-coat fragments was negligible (prevalence of less than 30%) included those from USA (California, South Eastern, Texas High Plains, Pima, Memphis Territory, USA-Others), Spain, Benin, Australia and Burkina Faso.

February 2014

Participation

Table I 2013

Participation in 2013 Survey				
Country	Number of respondents (participating companies)	Number of samples (evaluations)	Number of cottongrowth evaluated *	
Argentina	2	2	2	
Bangladesh	6	72	36	
Belgium	1	6	6	
Brazil	2	7	6	
China	27	73	24	
Chinese Taipei	10	58	32	
Colombia	2	2	2	
Egypt	12	19	7	
Germany	1	5	5	
India	15	71	24	
Indonesia	3	27	20	
Italy	2	16	14	
Japan	2	11	10	
Korea, Rep.	2	8	6	
Malaysia	2	12	11	
Mexico	2	5	5	
Nigeria	4	4	1	
Pakistan	5	15	11	
Peru	3	6	5	
South Africa	1	2	2	
Switzerland	1	5	5	
Thailand	2	11	8	
Turkey	5	32	21	
U.S.A.	7	15	6	
Total	119	484		

^{*} Divided among 73 cotton descriptions

Main Results

Table IIa 2013

Country All Countries	Growth: All Growths	1	Number of sam	ples: 484	
		Degree	Degree of contamination (%)		
Source of contamination		Non- existent/ insignificant	Moderate	Serious	
1 Fabrics made of	- woven plastic	71	19	10	
2	- plastic film	69	21	10	
3	- jute/hessian	75	17	8	
4	- cotton	64	22	14	
5 Strings made of	- woven plastic	64	22	14	
6	- plastic film	69	19	12	
7	- jute/hessian	66	22	12	
8	- cotton	62	24	14	
9 Organic matter	- leaves, feathers, paper, leather e	45	39	16	
10 Inorganic matter	- sand/dust	67	25	8	
11	- rust	85	12	3	
12	- metal/wire	82	14	4	
13 Oily substances/chemicals	- grease/oil	86	13	1	
14	- rubber	90	8	2	
15	- stamp colour	91	7	2	
16	- tar	93	5	2	
Average of 1-16		74	18	8	
Stickiness	No(%) Yes(%) 78 22	Seed-coat fragn	No(%	%) Yes(%) 41	

Table IIb

	Degre	Degree of Contamination (%)			
Year	Non- existent/ insignificant	Moderate	Serious	Stickiness (%)	Seed-coast fragments (%)
1989	86	9	5	21	0
1991	85	11	4	27	34
1993	85	11	4	26	36
1995	82	13	5	20	39
1997	82	13	5	23	32
1999	79	15	6	20	38
2001	78	16	6	18	40
2003	73	18	8	21	44
2005	78	15	7	17	37
2007	78	15	7	21	37
2009	78	16	6	13	27
2011	77	16	7	20	38
2013	74	18	8	22	41

Contamination

2013 Table IIIa

				Degree of Contamination (%) *		
Ranking	Description		Non- existent/ insignificant	Moderate	Serious	Number of Samples **
1	India	DCH	43	33	24	10
2	India	Shankar-4/6	48	24	28	30
3	Zambia	Zambia	48	46	6	6
4	Pakistan	Pakistan-Others	51	34	15	5
5	India	MCU-5	53	19	28	12
6	India	J-34	54	27	19	8
7	Tajikistan	Medium Staples	55	40	5	8
8	Uzbekistan	Medium Staples	59	31	10	10
9	China	Xinjiang	59	41	0	9
10	India	India-Others	62	25	13	8
11	India	H-4	67	20	13	5
12	Turkmenistan	Medium Staples	67	26	7	8
13	Pakistan	AmSeed AFZAL	68	19	13	5
14	Nigeria	Nigeria	69	18	13	7
15	Mozambique	Mozambique	69	30	1	7
16	Egypt	Giza	70	22	8	24
17	Zimbabwe	Zimbabwe	71	18	11	9
18	Mali	Mali	72	21	7	11

 $^{^{\}star}$ Average degree of contamination by each of the 16 pre-indicated contaminants ** Minimum: 5 Samples

Contamination

2013 Table IIIb

			Degree			
Ranking	Description		Non- existent/ insignificant	Moderate	Serious	Number of Samples **
1	Spain	Spain	95	4	1	8
2	USA	California	94	6	0	9
3	USA	USA-Others	93	7	0	7
4	USA	Memphis Territory	89	10	1	28
5	USA	South Eastern	89	10	1	12
6	Australia	Australia	89	9	2	38
7	Brazil	Brazil	88	11	1	29
8	USA	Pima	87	12	1	20
9	Togo	Togo	87	9	4	6
10	Benin	Benin	85	11	4	5
11	Argentina	Argentina	80	15	5	11
12	USA	Texas High Plains	80	13	7	12
13	Burkina Faso	Burkina Faso	79	11	10	8
14	Turkey	Izmir	78	21	1	5
15	Ivory Coast	Ivory Coast	77	20	3	12
16	Greece	Greece	77	16	7	13
17	Chad	Chad	76	19	5	5

 $^{^{\}star}$ Average degree of contamination by each of the 16 pre-indicated contaminants ** Minimum: 5 Samples

Stickiness

Table IVa 2013

			A CC C	Nisses Is a 1
Ranking	Description		Affirmative replies(%)*	Number of Samples**
1	Uzbekistan	Medium Staples	60	10
2	Turkmenistan	Medium Staples	50	8
3	Togo	Togo	50	6
4	Mozambique	Mozambique	43	7
5	Chad	Chad	40	5
6	Burkina Faso	Burkina Faso	37	8
7	Tajikistan	Medium Staples	37	8
8	Mali	Mali	36	11
9	Ivory Coast	Ivory Coast	33	12
10	China	Xinjiang	33	9
11	Zimbabwe	Zimbabwe	33	9
12	Brazil	Brazil	31	29
13	USA	Pima	30	20
14	India	DCH	30	10
15	Nigeria	Nigeria	29	7
16	USA	USA-Others	29	7
17	Argentina	Argentina	27	11
18	USA	Memphis Territory	21	28

^{*} Percentage of replies indicating the existence of stickiness ** Minimum 5 samples

Stickiness

2013 Table IVb

	1		A (C) ()	Marine In a second
Ranking	Description		Affirmative replies(%)*	Number of Samples**
1	USA	Texas High Plains	0	12
2	USA	California	0	9
3	India	J-34	0	8
4	Spain	Spain	0	8
5	Zambia	Zambia	0	6
6	Pakistan	Pakistan-Others	0	5
7	India	MCU-5	8	12
8	USA	South Eastern	8	12
9	Egypt	Giza	12	24
10	India	India-Others	12	8
11	Greece	Greece	15	13
12	Australia	Australia	18	38
13	India	Shankar-4/6	20	30
14	Benin	Benin	20	5
15	India	H-4	20	5
16	Pakistan	AmSeed AFZAL	20	5
17	Turkey	Izmir	20	5

^{*} Percentage of replies indicating the existence of stickiness ** Minimum 5 samples

Seed-Coat Fragments

2013 Table Va

Pescriptions Most Affected by Seed-Coat Fragments						
Ranking	Description		Affirmative replies(%)*	Number of Samples**		
1	Nigeria	Nigeria	100	7		
2	India	H-4	100	5		
3	India	J-34	87	8		
4	Pakistan	Pakistan-Others	80	5		
5	Argentina	Argentina	73	11		
6	Mozambique	Mozambique	71	7		
7	India	Shankar-4/6	67	30		
8	India	MCU-5	67	12		
9	Zambia	Zambia	67	6		
10	India	India-Others	62	8		
11	Pakistan	AmSeed AFZAL	60	5		
12	India	DCH	50	10		
13	Tajikistan	Medium Staples	50	8		
14	Turkmentistan	Medium Staples	50	8		
15	Togo	Togo	50	6		
16	Zimbabwe	Zimbabwe	44	9		
17	Ivory Coast	Ivory Coast	42	12		
18	Uzbekistan	Medium Staples	40	10		

^{*} Percentage of replies indicating the existence of seed-coatfragments ** Minimum 5 samples

Seed-Coat Fragments

2013 Table Vb

Ranking	Description		Affirmative replies(%)*	Number of Samples**
1	USA	California	0	9
2	USA	South Eastern	8	12
3	USA	Texas High Plains	8	12
4	Spain	Spain	12	8
5	Benin	Benin	20	5
6	Australia	Australia	24	38
7	USA	Pima	25	20
8	Burkina Faso	Burkina Faso	25	8
9	USA	Memphis Territory	29	28
10	USA	USA-Others	29	7
11	Greece	Greece	31	13
12	Egypt	Giza	33	24
13	China	Xinjiang	33	9
14	Mali	Mali	36	11
15	Brazil	Brazil	38	29
16	Uzbekistan	Medium Staples	40	10
17	Chad	Chad	40	5

^{*} Percentage of replies indicating the existence of seed-coat fragments ** Minimum 5 samples

Table 1 2013

Country: Benin	ntry: Benin Growth: Benin			imples: 5
		Degree	ion (%)	
Source of contamination		Non- existent/ insignificant	Moderate	Serious
1 Fabrics made of	- woven plastic	100	0	0
2	- plastic film	100	0	0
3	- jute/hessian	80	20	0
4	- cotton	80	0	20
5 Strings made of	- woven plastic	100	0	0
6	- plastic film	100	0	0
7	- jute/hessian	80	20	0
8	- cotton	80	0	20
9 Organic matter	- leaves, feathers, paper, leather e	40	40	20
10 Inorganic matter	- sand/dust	60	40	0
11	- rust	100	0	0
12	- metal/wire	80	20	0
13 Oily substances/chemicals	- grease/oil	80	20	0
14	- rubber	100	0	0
15	- stamp colour	100	0	0
16	- tar	80	20	0
Average of 1-16		85	11	4
Stickiness	No(%) Yes(%) 80 20	Seed-coat fragn	nents No(%	%) Yes(%) 20

Table 2 2013

Country: Burkina Faso	Growth: Burkina F	aso	Number of S	Samples:
		Degree of contamination		ation (%)
Source of contamination		Non- existent/ insignificant	Moderate	Serious
1 Fabrics made of	- woven plastic	74	13	13
2	- plastic film	74	13	13
3	- jute/hessian	100	0	0
4	- cotton	62	13	25
5 Strings made of	- woven plastic	49	38	13
6	- plastic film	75	0	25
7	- jute/hessian	100	0	0
8	- cotton	62	13	25
9 Organic matter	- leaves, feathers, paper, leather e	62	25	13
10 Inorganic matter	- sand/dust	74	13	13
11	- rust	75	0	25
12	- metal/wire	75	25	0
13 Oily substances/chemicals	- grease/oil	100	0	0
14	- rubber	75	25	0
15	- stamp colour	100	0	0
16	- tar	100	0	0
Average of 1-16		79	11	10
Stickiness	No(%) Yes(%) 63 38	Seed-coat fragr	No(

Table 3 2013

Country: Cameroon	Growth: Cameroor	1	Number of Samples: 3		
		Degree	on (%)		
Source of contamination		Non- existent/ insignificant	Moderate	Serious	
1 Fabrics made of	- woven plastic	100	0	0	
2	- plastic film	100	0	0	
3	- jute/hessian	67	33	0	
4	- cotton	33	67	0	
5 Strings made of	- woven plastic	33	67	0	
6	- plastic film	100	0	0	
7	- jute/hessian	67	33	0	
8	- cotton	100	0	0	
9 Organic matter	- leaves, feathers, paper, leather e	67	33	0	
10 Inorganic matter	- sand/dust	33	67	0	
11	- rust	100	0	0	
12	- metal/wire	100	0	0	
13 Oily substances/chemicals	- grease/oil	100	0	0	
14	- rubber	100	0	0	
15	- stamp colour	100	0	0	
16	- tar	100	0	0	
Average of 1-16		81	19	0	
Stickiness	No(%) Yes(%) 67 33	Seed-coat fragi	No(% 100 100 100 100 100 100 100 100 100 10	%) Yes(%) 0	

Table 4 2013

Country: Chad	Growth: Chad		Number of	Samples:	
		Degree	Degree of contamination (%)		
Source of contamination		Non- existent/ insignificant	Moderate	Serious	
1 Fabrics made of	- woven plastic	80	20	0	
2	- plastic film	100	0	0	
3	- jute/hessian	80	20	0	
4	- cotton	20	60	20	
5 Strings made of	- woven plastic	100	0	0	
6	- plastic film	100	0	0	
7	- jute/hessian	60	40	0	
8	- cotton	40	40	20	
9 Organic matter	- leaves, feathers, paper, leather e	20	60	20	
10 Inorganic matter	- sand/dust	40	60	0	
11	- rust	100	0	0	
12	- metal/wire	80	0	20	
13 Oily substances/chemicals	- grease/oil	100	0	0	
14	- rubber	100	0	0	
15	- stamp colour	100	0	0	
16	- tar	100	0	0	
Average of 1-16		76	19	5	
	No(%) Yes(%)			(%) Yes(%)	
Stickiness	60 40	Seed-coat fragn	nents 6	0 40	

Table 5 2013

Country: Egypt	Growth: Egypt-Oth	ers	Number of Sa	imples: 3
		Degree	of contaminat	ion (%)
Source of contamination		Non- existent/ insignificant	Moderate	Serious
1 Fabrics made of	- woven plastic	34	33	33
2	- plastic film	67	0	33
3	- jute/hessian	34	33	33
4	- cotton	67	0	33
5 Strings made of	- woven plastic	34	33	33
6	- plastic film	67	0	33
7	- jute/hessian	34	33	33
8	- cotton	67	0	33
9 Organic matter	- leaves, feathers, paper, leather e	34	33	33
10 Inorganic matter	- sand/dust	67	0	33
11	- rust	67	0	33
12	- metal/wire	67	0	33
13 Oily substances/chemicals	- grease/oil	67	33	0
14	- rubber	67	0	33
15	- stamp colour	67	0	33
16	- tar	67	0	33
Average of 1-16		57	12	31
Stickiness	No(%) Yes(%) 100 0	Seed-coat fragn	No(%	%) Yes(%) 67

Table 6 2013

Country: Egypt	Growth: Giza		Number of S	amples: 2	
		Degree	ree of contamination (%)		
Source of contamination		Non- existent/ insignificant	Moderate	Serious	
1 Fabrics made of	- woven plastic	70	17	13	
2	- plastic film	75	21	4	
3	- jute/hessian	59	33	8	
4	- cotton	54	38	8	
5 Strings made of	- woven plastic	58	21	21	
6	- plastic film	71	21	8	
7	- jute/hessian	54	25	21	
8	- cotton	49	38	13	
9 Organic matter	- leaves, feathers, paper, leather e	49	38	13	
10 Inorganic matter	- sand/dust	63	33	4	
11	- rust	87	13	0	
12	- metal/wire	83	17	0	
13 Oily substances/chemicals	- grease/oil	83	17	0	
14	- rubber	88	8	4	
15	- stamp colour	79	13	8	
16	- tar	92	8	0	
Average of 1-16		69	23	8	
Stickiness	No(%) Yes(%) 88 13	Seed-coat fragn	No(' nents 67		

Table 7 2013

Country: Ghana	Growth: Ghana		Number of Sa	imples: 2
		Degree	of contaminat	ion (%)
Source of contamination		Non- existent/ insignificant	Moderate	Serious
1 Fabrics made of	- woven plastic	100	0	0
2	- plastic film	100	0	0
3	- jute/hessian	100	0	0
4	- cotton	50	0	50
5 Strings made of	- woven plastic	100	0	0
6	- plastic film	100	0	0
7	- jute/hessian	100	0	0
8	- cotton	0	50	50
9 Organic matter	- leaves, feathers, paper, leather e	0	50	50
10 Inorganic matter	- sand/dust	50	0	50
11	- rust	100	0	0
12	- metal/wire	100	0	0
13 Oily substances/chemicals	- grease/oil	100	0	0
14	- rubber	50	50	0
15	- stamp colour	100	0	0
16	- tar	100	0	0
Average of 1-16		78	9	13
Stickiness	No(%) Yes(%) 50 50	Seed-coat fragn	No(%	%) Yes(%) 50

Table 8 2013

Country: Ivory Coast	Growth: Ivory Coas	st	Number of Samples:		
		Degree	Degree of contamination (%)		
Source of contamination		Non- existent/ insignificant	Moderate	Serious	
1 Fabrics made of	- woven plastic	92	8	0	
2	- plastic film	83	17	0	
3	- jute/hessian	92	8	0	
4	- cotton	66	17	17	
5 Strings made of	- woven plastic	50	50	0	
6	- plastic film	75	25	0	
7	- jute/hessian	92	8	0	
8	- cotton	75	17	8	
9 Organic matter	- leaves, feathers, paper, leather e	25	67	8	
10 Inorganic matter	- sand/dust	58	42	0	
11	- rust	75	17	8	
12	- metal/wire	75	25	0	
13 Oily substances/chemicals	- grease/oil	92	8	0	
14	- rubber	100	0	0	
15	- stamp colour	92	8	0	
16	- tar	100	0	0	
Average of 1-16		77	20	3	
Stickiness	No(%) Yes(%) 67 33	Seed-coat fragr	No(nents 58	, , ,	

Table 9 2013

Country: Malawi	Growth: Malawi		Number of Sa	imples: 1
		Degree	of contaminat	ion (%)
Source of contamination		Non- existent/ insignificant	Moderate	Serious
1 Fabrics made of	- woven plastic	0	100	0
2	- plastic film	100	0	0
3	- jute/hessian	0	100	0
4	- cotton	0	100	0
5 Strings made of	- woven plastic	0	0	100
6	- plastic film	0	100	0
7	- jute/hessian	0	100	0
8	- cotton	0	100	0
9 Organic matter	- leaves, feathers, paper, leather e	0	100	0
10 Inorganic matter	- sand/dust	0	100	0
11	- rust	100	0	0
12	- metal/wire	100	0	0
13 Oily substances/chemicals	- grease/oil	100	0	0
14	- rubber	100	0	0
15	- stamp colour	100	0	0
16	- tar	100	0	0
Average of 1-16		44	50	6
Stickiness	No(%) Yes(%) 100 0	Seed-coat fragn	nents No(%	%) Yes(%) 100

Table 10 2013

Country: Mali	ountry: Mali Growth: Mali Numb			Samples: 1	
		Degree	Degree of contamination (%)		
Source of contamination		Non- existent/ insignificant	Moderate	Serious	
1 Fabrics made of	- woven plastic	82	9	9	
2	- plastic film	73	18	9	
3	- jute/hessian	82	9	9	
4	- cotton	55	36	9	
5 Strings made of	- woven plastic	64	27	9	
6	- plastic film	55	36	9	
7	- jute/hessian	55	36	9	
8	- cotton	46	45	9	
9 Organic matter	- leaves, feathers, paper, leather e	55	36	9	
10 Inorganic matter	- sand/dust	64	27	9	
11	- rust	91	0	9	
12	- metal/wire	82	9	9	
13 Oily substances/chemicals	- grease/oil	73	27	0	
14	- rubber	91	9	0	
15	- stamp colour	91	9	0	
16	- tar	100	0	0	
Average of 1-16		72	21	7	
Stickiness	No(%) Yes(%) 64 36	Seed-coat fragn	•	(%) Yes(%) 4 36	

Table 11 2013

Country: Mozambique	Growth: Mozambiq	ue	Number of Sa	mples: 7
		Degree	of contaminat	ion (%)
Source of contamination		Non- existent/ insignificant	Moderate	Serious
1 Fabrics made of	- woven plastic	43	57	0
2	- plastic film	57	43	0
3	- jute/hessian	100	0	0
4	- cotton	29	71	0
5 Strings made of	- woven plastic	43	43	14
6	- plastic film	43	57	0
7	- jute/hessian	71	29	0
8	- cotton	29	71	0
9 Organic matter	- leaves, feathers, paper, leather e	29	71	0
10 Inorganic matter	- sand/dust	86	14	0
11	- rust	86	14	0
12	- metal/wire	100	0	0
13 Oily substances/chemicals	- grease/oil	86	14	0
14	- rubber	100	0	0
15	- stamp colour	100	0	0
16	- tar	100	0	0
Average of 1-16		69	30	1
Stickiness	No(%) Yes(%) 57 43	Seed-coat fragn	No(%	%) Yes(%) 71

Table 12 2013

Country: Nigeria	Growth: Nigeria		Number of Sa	amples: 7
		Degree	of contaminat	tion (%)
Source of contamination		Non- existent/ insignificant	Moderate	Serious
1 Fabrics made of	- woven plastic	86	0	14
2	- plastic film	86	14	0
3	- jute/hessian	57	43	0
4	- cotton	57	14	29
5 Strings made of	- woven plastic	29	0	71
6	- plastic film	57	14	29
7	- jute/hessian	86	14	0
8	- cotton	57	14	29
9 Organic matter	- leaves, feathers, paper, leather e	0	71	29
10 Inorganic matter	- sand/dust	29	71	0
11	- rust	86	14	0
12	- metal/wire	86	14	0
13 Oily substances/chemicals	- grease/oil	100	0	0
14	- rubber	100	0	0
15	- stamp colour	100	0	0
16	- tar	100	0	0
Average of 1-16		69	18	13
Stickiness	No(%) Yes(%) 71 29	Seed-coat fragn	No(%	%) Yes(%) 100

Table 13 2013

Country: Senegal	Growth: Senegal		Number of Sa	imples: 2
		Degree	of contaminat	ion (%)
Source of contamination		Non- existent/ insignificant	Moderate	Serious
1 Fabrics made of	- woven plastic	100	0	0
2	- plastic film	100	0	0
3	- jute/hessian	100	0	0
4	- cotton	50	0	50
5 Strings made of	- woven plastic	100	0	0
6	- plastic film	100	0	0
7	- jute/hessian	50	50	0
8	- cotton	0	50	50
9 Organic matter	- leaves, feathers, paper, leather e	50	0	50
10 Inorganic matter	- sand/dust	50	50	0
11	- rust	50	50	0
12	- metal/wire	100	0	0
13 Oily substances/chemicals	- grease/oil	100	0	0
14	- rubber	100	0	0
15	- stamp colour	100	0	0
16	- tar	100	0	0
Average of 1-16		78	13	9
Stickiness	No(%) Yes(%) 50 50	Seed-coat fragn	No(% 50	%) Yes(%) 50

Table 14 2013

Country: South Africa	Growth: South Afr	ica	Number of Samples:	
		Degree	Degree of contamination (%)	
Source of contamination		Non- existent/ insignificant	Moderate	Serious
1 Fabrics made of	- woven plastic	50	0	50
2	- plastic film	50	50	0
3	- jute/hessian	50	0	50
4	- cotton	50	0	50
5 Strings made of	- woven plastic	50	50	0
6	- plastic film	50	0	50
7	- jute/hessian	50	0	50
8	- cotton	50	50	0
9 Organic matter	- leaves, feathers, paper, leather e	50	0	50
10 Inorganic matter	- sand/dust	50	0	50
11	- rust	100	0	0
12	- metal/wire	100	0	0
13 Oily substances/chemicals	- grease/oil	100	0	0
14	- rubber	100	0	0
15	- stamp colour	100	0	0
16	- tar	100	0	0
Average of 1-16		69	9	22
Stickiness	No(%) Yes(%) 50 50	Seed-coat fragn	No(nents 50	, , ,

Table 15 2013

Country: Sudan	Growth: Barakat		Number of Sa	amples: 1
		Degree	of contaminat	ion (%)
Source of contamination		Non- existent/ insignificant	Moderate	Serious
1 Fabrics made of	- woven plastic	100	0	0
2	- plastic film	100	0	0
3	- jute/hessian	100	0	0
4	- cotton	100	0	0
5 Strings made of	- woven plastic	0	100	0
6	- plastic film	100	0	0
7	- jute/hessian	0	0	100
8	- cotton	100	0	0
9 Organic matter	- leaves, feathers, paper, leather e	0	100	0
10 Inorganic matter	- sand/dust	100	0	0
11	- rust	100	0	0
12	- metal/wire	100	0	0
13 Oily substances/chemicals	- grease/oil	100	0	0
14	- rubber	100	0	0
15	- stamp colour	100	0	0
16	- tar	100	0	0
Average of 1-16		81	13	6
Stickiness	No(%) Yes(%) 0 100	Seed-coat fragn	No(% 100 nents	%) Yes(%) 0

Table 16 2013

Country: Tanzania	Growth: Coastal		Number of	Samples:	
		Degree	ee of contamination (%)		
Source of contamination		Non- existent/ insignificant	Moderate	Serious	
1 Fabrics made of	- woven plastic	50	50	0	
2	- plastic film	50	50	0	
3	- jute/hessian	50	50	0	
4	- cotton	0	50	50	
5 Strings made of	- woven plastic	0	100	0	
6	- plastic film	50	50	0	
7	- jute/hessian	0	100	0	
8	- cotton	0	100	0	
9 Organic matter	- leaves, feathers, paper, leather e	0	100	0	
10 Inorganic matter	- sand/dust	0	100	0	
11	- rust	100	0	0	
12	- metal/wire	100	0	0	
13 Oily substances/chemicals	- grease/oil	100	0	0	
14	- rubber	100	0	0	
15	- stamp colour	50	50	0	
16	- tar	100	0	0	
Average of 1-16		47	50	3	
Stickiness	No(%) Yes(%) 50 50	Seed-coat fragn		o(%) Yes(%) 50 50	

Table 17 2013

Country: Togo	Growth: Togo		Number of Sa	amples: 6
		Degree	of contaminat	ion (%)
Source of contamination		Non- existent/ insignificant	Moderate	Serious
1 Fabrics made of	- woven plastic	83	17	0
2	- plastic film	67	33	0
3	- jute/hessian	100	0	0
4	- cotton	83	0	17
5 Strings made of	- woven plastic	50	50	0
6	- plastic film	83	17	0
7	- jute/hessian	100	0	0
8	- cotton	83	0	17
9 Organic matter	- leaves, feathers, paper, leather e	83	0	17
10 Inorganic matter	- sand/dust	83	0	17
11	- rust	83	17	0
12	- metal/wire	100	0	0
13 Oily substances/chemicals	- grease/oil	100	0	0
14	- rubber	83	17	0
15	- stamp colour	100	0	0
16	- tar	100	0	0
Average of 1-16		87	9	4
Stickiness	No(%) Yes(%) 50 50	Seed-coat fragr	No(% 50	%) Yes(%) 50

Table 18 2013

Country: Uganda	Growth: Uganda		Number of S	nber of Samples:		
		Degree	e of contamination (%)			
Source of contamination		Non- existent/ insignificant	Moderate	Serious		
1 Fabrics made of	- woven plastic	0	0	100		
2	- plastic film	0	0	100		
3	- jute/hessian	0	0	100		
4	- cotton	0	0	100		
5 Strings made of	- woven plastic	0	0	100		
6	- plastic film	0	0	100		
7	- jute/hessian	0	0	100		
8	- cotton	0	0	100		
9 Organic matter	- leaves, feathers, paper, leather e	0	0	100		
10 Inorganic matter	- sand/dust	50	0	50		
11	- rust	100	0	0		
12	- metal/wire	100	0	0		
13 Oily substances/chemicals	- grease/oil	100	0	0		
14	- rubber	100	0	0		
15	- stamp colour	100	0	0		
16	- tar	100	0	0		
Average of 1-16		41	0	59		
	No(%) Yes(%)		No(%) Yes(%)		
Stickiness	50 50	Seed-coat fragn	nents (100		

Table 19 2013

Country: Zambia	Growth: Zambia		Number of Sa	imples: 6
		Degree	of contaminat	ion (%)
Source of contamination		Non- existent/ insignificant	Moderate	Serious
1 Fabrics made of	- woven plastic	50	50	0
2	- plastic film	67	33	0
3	- jute/hessian	16	67	17
4	- cotton	16	67	17
5 Strings made of	- woven plastic	0	83	17
6	- plastic film	50	50	0
7	- jute/hessian	16	67	17
8	- cotton	33	50	17
9 Organic matter	- leaves, feathers, paper, leather e	16	67	17
10 Inorganic matter	- sand/dust	50	50	0
11	- rust	67	33	0
12	- metal/wire	50	50	0
13 Oily substances/chemicals	- grease/oil	83	17	0
14	- rubber	67	33	0
15	- stamp colour	83	17	0
16	- tar	100	0	0
Average of 1-16		48	46	6
Stickiness	No(%) Yes(%) 100 0	Seed-coat fragr	ments $\frac{\text{No}(\%)}{33}$	%) Yes(%) 67

Table 20 2013

Country: Zimbabwe	Growth: Zimbabwe)	Number of S	amples:	
		Degree	Degree of contamination (%)		
Source of contamination		Non- existent/ insignificant	Moderate	Serious	
1 Fabrics made of	- woven plastic	67	22	11	
2	- plastic film	45	44	11	
3	- jute/hessian	78	11	11	
4	- cotton	34	33	33	
5 Strings made of	- woven plastic	67	11	22	
6	- plastic film	45	44	11	
7	- jute/hessian	56	33	11	
8	- cotton	45	33	22	
9 Organic matter	- leaves, feathers, paper, leather e	78	0	22	
10 Inorganic matter	- sand/dust	78	0	22	
11	- rust	78	22	0	
12	- metal/wire	78	22	0	
13 Oily substances/chemicals	- grease/oil	100	0	0	
14	- rubber	89	11	0	
15	- stamp colour	100	0	0	
16	- tar	100	0	0	
Average of 1-16		71	18	11	
Stickiness	No(%) Yes(%) 67 33	Seed-coat fragr	No(ments 56		

Table 21 2013

Country: Mexico	Growth: Juarez		Number of Sa	mples: 1
		Degree	of contaminat	ion (%)
Source of contamination		Non- existent/ insignificant	Moderate	Serious
1 Fabrics made of	- woven plastic	100	0	0
2	- plastic film	100	0	0
3	- jute/hessian	100	0	0
4	- cotton	100	0	0
5 Strings made of	- woven plastic	100	0	0
6	- plastic film	100	0	0
7	- jute/hessian	100	0	0
8	- cotton	100	0	0
9 Organic matter	- leaves, feathers, paper, leather e	100	0	0
10 Inorganic matter	- sand/dust	100	0	0
11	- rust	100	0	0
12	- metal/wire	100	0	0
13 Oily substances/chemicals	- grease/oil	100	0	0
14	- rubber	100	0	0
15	- stamp colour	100	0	0
16	- tar	100	0	0
Average of 1-16		100	0	0
Stickiness	No(%) Yes(%) 0 100	Seed-coat fragn	No(% 100	%) Yes(%) 0

Table 22 2013

Country: Mexico	Growth: Laguna/De	elicias	Number of Sa	mples: 1
		Degree	of contaminati	on (%)
Source of contamination		Non- existent/ insignificant	Moderate	Serious
1 Fabrics made of	- woven plastic	100	0	0
2	- plastic film	100	0	0
3	- jute/hessian	100	0	0
4	- cotton	100	0	0
5 Strings made of	- woven plastic	0	100	0
6	- plastic film	100	0	0
7	- jute/hessian	100	0	0
8	- cotton	100	0	0
9 Organic matter	- leaves, feathers, paper, leather e	100	0	0
10 Inorganic matter	- sand/dust	100	0	0
11	- rust	100	0	0
12	- metal/wire	100	0	0
13 Oily substances/chemicals	- grease/oil	100	0	0
14	- rubber	100	0	0
15	- stamp colour	100	0	0
16	- tar	100	0	0
Average of 1-16		94	6	0
Stickiness	No(%) Yes(%) 100 0	Seed-coat fragn	No(% 100 nents	o) Yes(%)

Table 23 2013

Country: Mexico	Growth: Mexicali		Number of Sa	imples: 1
		Degree	of contaminat	ion (%)
Source of contamination		Non- existent/ insignificant	Moderate	Serious
1 Fabrics made of	- woven plastic	100	0	0
2	- plastic film	100	0	0
3	- jute/hessian	100	0	0
4	- cotton	100	0	0
5 Strings made of	- woven plastic	100	0	0
6	- plastic film	100	0	0
7	- jute/hessian	100	0	0
8	- cotton	100	0	0
9 Organic matter	- leaves, feathers, paper, leather e	100	0	0
10 Inorganic matter	- sand/dust	100	0	0
11	- rust	100	0	0
12	- metal/wire	100	0	0
13 Oily substances/chemicals	- grease/oil	100	0	0
14	- rubber	100	0	0
15	- stamp colour	100	0	0
16	- tar	100	0	0
Average of 1-16		100	0	0
Stickiness	No(%) Yes(%) 100 0	Seed-coat fragn	No(% 100	%) Yes(%) 0

Table 24 2013

Country: Mexico	Growth: Mexico-O	thers	Number of Samples:		
		Degree	Degree of contamination (%)		
Source of contamination		Non- existent/ insignificant	Moderate	Serious	
1 Fabrics made of	- woven plastic	100	0	0	
2	- plastic film	100	0	0	
3	- jute/hessian	100	0	0	
4	- cotton	100	0	0	
5 Strings made of	- woven plastic	67	33	0	
6	- plastic film	100	0	0	
7	- jute/hessian	100	0	0	
8	- cotton	67	33	0	
9 Organic matter	- leaves, feathers, paper, leather e	100	0	0	
10 Inorganic matter	- sand/dust	100	0	0	
11	- rust	100	0	0	
12	- metal/wire	100	0	0	
13 Oily substances/chemicals	- grease/oil	100	0	0	
14	- rubber	100	0	0	
15	- stamp colour	100	0	0	
16	- tar	100	0	0	
Average of 1-16		96	4	0	
Stickiness	No(%) Yes(%) 33 67	Seed-coat fragr	No(nents 33	, , ,	

Table 25 2013

Country: U.S.A.	Growth: Arizona	Number of Samples:				
		Degree	of contamination (%)			
Source of contamination		Non- existent/ insignificant	Moderate	Serious		
1 Fabrics made of	- woven plastic	100	0	0		
2	- plastic film	100	0	0		
3	- jute/hessian	100	0	0		
4	- cotton	100	0	0		
5 Strings made of	- woven plastic	100	0	0		
6	- plastic film	100	0	0		
7	- jute/hessian	100	0	0		
8	- cotton	100	0	0		
9 Organic matter	- leaves, feathers, paper, leather e	100	0	0		
10 Inorganic matter	- sand/dust	100	0	0		
11	- rust	100	0	0		
12	- metal/wire	100	0	0		
13 Oily substances/chemicals	- grease/oil	100	0	0		
14	- rubber	100	0	0		
15	- stamp colour	100	0	0		
16	- tar	100	0	0		
Average of 1-16	·	100	0	0		
Stickiness	No(%) Yes(%) 0 100	Seed-coat fragn	No(% 100 nents	%) Yes(%) 0		

Table 26 2013

Country: U.S.A.	Growth: California		Number of	Samples:	
		Degree	gree of contamination (%)		
Source of contamination		Non- existent/ insignificant	Moderate	Serious	
1 Fabrics made of	- woven plastic	100	0	0	
2	- plastic film	78	22	0	
3	- jute/hessian	100	0	0	
4	- cotton	100	0	0	
5 Strings made of	- woven plastic	100	0	0	
6	- plastic film	89	11	0	
7	- jute/hessian	89	11	0	
8	- cotton	100	0	0	
9 Organic matter	- leaves, feathers, paper, leather e	89	11	0	
10 Inorganic matter	- sand/dust	89	11	0	
11	- rust	100	0	0	
12	- metal/wire	100	0	0	
13 Oily substances/chemicals	- grease/oil	89	11	0	
14	- rubber	100	0	0	
15	- stamp colour	100	0	0	
16	- tar	89	11	0	
Average of 1-16		94	6	0	
Stickiness	No(%) Yes(%) 100 0	Seed-coat fragn	41	o(%) Yes(%)	

Table 27 2013

Country: U.S.A.	Growth: Memphis	Territory	Number of Sa	imples: 28	
		Degree	e of contamination (%)		
Source of contamination		Non- existent/ insignificant	Moderate	Serious	
1 Fabrics made of	- woven plastic	82	14	4	
2	- plastic film	89	4	7	
3	- jute/hessian	89	11	0	
4	- cotton	89	11	0	
5 Strings made of	- woven plastic	82	18	0	
6	- plastic film	82	18	0	
7	- jute/hessian	89	11	0	
8	- cotton	93	7	0	
9 Organic matter	- leaves, feathers, paper, leather e	64	32	4	
10 Inorganic matter	- sand/dust	86	14	0	
11	- rust	96	4	0	
12	- metal/wire	93	7	0	
13 Oily substances/chemicals	- grease/oil	85	11	4	
14	- rubber	100	0	0	
15	- stamp colour	100	0	0	
16	- tar	100	0	0	
Average of 1-16		89	10	1	
Stickiness	No(%) Yes(%) 79 21	Seed-coat fragr	No(% 71	%) Yes(%) 29	

Table 28 2013

Country: U.S.A.	Growth: Pima	Number of Samples:		
		Degree	of contaminat	ion (%)
Source of contamination		Non- existent/ insignificant	Moderate	Serious
1 Fabrics made of	- woven plastic	95	0	5
2	- plastic film	85	15	0
3	- jute/hessian	95	5	0
4	- cotton	90	10	0
5 Strings made of	- woven plastic	80	15	5
6	- plastic film	85	10	5
7	- jute/hessian	90	10	0
8	- cotton	95	5	0
9 Organic matter	- leaves, feathers, paper, leather e	50	45	5
10 Inorganic matter	- sand/dust	75	25	0
11	- rust	85	15	0
12	- metal/wire	95	5	0
13 Oily substances/chemicals	- grease/oil	90	10	0
14	- rubber	95	5	0
15	- stamp colour	90	10	0
16	- tar	95	5	0
Average of 1-16		87	12	1
Stickiness	No(%) Yes(%) 70 30	Seed-coat fragn	No(%	%) Yes(%) 25

Table 29 2013

Country: U.S.A.	Growth: Rio Grand	e Valley	Number of Sa	imples: 1
		Degree	of contaminat	ion (%)
Source of contamination		Non- existent/ insignificant	Moderate	Serious
1 Fabrics made of	- woven plastic	100	0	0
2	- plastic film	100	0	0
3	- jute/hessian	100	0	0
4	- cotton	100	0	0
5 Strings made of	- woven plastic	100	0	0
6	- plastic film	100	0	0
7	- jute/hessian	100	0	0
8	- cotton	100	0	0
9 Organic matter	- leaves, feathers, paper, leather e	100	0	0
10 Inorganic matter	- sand/dust	100	0	0
11	- rust	100	0	0
12	- metal/wire	100	0	0
13 Oily substances/chemicals	- grease/oil	100	0	0
14	- rubber	100	0	0
15	- stamp colour	100	0	0
16	- tar	100	0	0
Average of 1-16		100	0	0
Stickiness	No(%) Yes(%) 100 0	Seed-coat fragr	No(% 100	%) Yes(%) 0

Table 30 2013

Country: U.S.A.	Growth: South Eas	tern	Number of Sa	imples: 12
		Degree	of contaminat	ion (%)
Source of contamination		Non- existent/ insignificant	Moderate	Serious
1 Fabrics made of	- woven plastic	75	25	0
2	- plastic film	75	17	8
3	- jute/hessian	92	8	0
4	- cotton	92	8	0
5 Strings made of	- woven plastic	83	17	0
6	- plastic film	83	17	0
7	- jute/hessian	100	0	0
8	- cotton	100	0	0
9 Organic matter	- leaves, feathers, paper, leather e	83	17	0
10 Inorganic matter	- sand/dust	83	17	0
11	- rust	100	0	0
12	- metal/wire	83	17	0
13 Oily substances/chemicals	- grease/oil	75	17	8
14	- rubber	100	0	0
15	- stamp colour	100	0	0
16	- tar	100	0	0
Average of 1-16		89	10	1
Stickiness	No(%) Yes(%) 92 8	Seed-coat fragn	No(%	%) Yes(%) 8

Table 31 2013

Country: U.S.A.	Growth: Texas Hig	h Plains	Number of Sa	imples: 12
		Degree	of contaminat	ion (%)
Source of contamination		Non- existent/ insignificant	Moderate	Serious
1 Fabrics made of	- woven plastic	75	8	17
2	- plastic film	67	25	8
3	- jute/hessian	84	8	8
4	- cotton	92	8	0
5 Strings made of	- woven plastic	75	8	17
6	- plastic film	75	17	8
7	- jute/hessian	84	8	8
8	- cotton	92	8	0
9 Organic matter	- leaves, feathers, paper, leather e	67	25	8
10 Inorganic matter	- sand/dust	83	17	0
11	- rust	84	8	8
12	- metal/wire	84	8	8
13 Oily substances/chemicals	- grease/oil	84	8	8
14	- rubber	84	8	8
15	- stamp colour	83	17	0
16	- tar	75	25	0
Average of 1-16		80	13	7
Stickiness	No(%) Yes(%) 100 0	Seed-coat fragr	No(%	%) Yes(%) 8

Table 32 2013

Country: U.S.A.	ntry: U.S.A. Growth: USA-Others Numb			mples: 7
		Degree	of contaminat	ion (%)
Source of contamination		Non- existent/ insignificant	Moderate	Serious
1 Fabrics made of	- woven plastic	100	0	0
2	- plastic film	100	0	0
3	- jute/hessian	100	0	0
4	- cotton	100	0	0
5 Strings made of	- woven plastic	100	0	0
6	- plastic film	71	29	0
7	- jute/hessian	86	14	0
8	- cotton	86	14	0
9 Organic matter	- leaves, feathers, paper, leather e	71	29	0
10 Inorganic matter	- sand/dust	86	14	0
11	- rust	100	0	0
12	- metal/wire	100	0	0
13 Oily substances/chemicals	- grease/oil	86	14	0
14	- rubber	100	0	0
15	- stamp colour	100	0	0
16	- tar	100	0	0
Average of 1-16		93	7	0
Stickiness	No(%) Yes(%) 71 29	Seed-coat fragn	No(% 71	%) Yes(%) 29

Table 33 2013

Country: Argentina	Growth: Argentina		Number of Sa	amples: 11
		Degree	of contaminat	ion (%)
Source of contamination		Non- existent/ insignificant	Moderate	Serious
1 Fabrics made of	- woven plastic	100	0	0
2	- plastic film	73	27	0
3	- jute/hessian	82	0	18
4	- cotton	82	9	9
5 Strings made of	- woven plastic	91	9	0
6	- plastic film	73	27	0
7	- jute/hessian	73	27	0
8	- cotton	73	18	9
9 Organic matter	- leaves, feathers, paper, leather e	36	55	9
10 Inorganic matter	- sand/dust	73	18	9
11	- rust	91	0	9
12	- metal/wire	91	9	0
13 Oily substances/chemicals	- grease/oil	82		0
14	- rubber	91	18	9
15	- stamp colour	82	18	0
16	- tar	100	0	0
Average of 1-16		80	15	5
Stickiness	No(%) Yes(%) 73 27	Seed-coat fragr	No(% 27	%) Yes(%) 73

Table 34 2013

Country: Brazil	Growth: Brazil		Number of Sa	amples: 29
		Degree	of contaminat	tion (%)
Source of contamination		Non- existent/ insignificant	Moderate	Serious
1 Fabrics made of	- woven plastic	90	7	3
2	- plastic film	76	24	0
3	- jute/hessian	90	10	0
4	- cotton	83	17	0
5 Strings made of	- woven plastic	86	14	0
6	- plastic film	90	10	0
7	- jute/hessian	83	17	0
8	- cotton	86	14	0
9 Organic matter	- leaves, feathers, paper, leather e	62	24	14
10 Inorganic matter	- sand/dust	90	10	0
11	- rust	97	3	0
12	- metal/wire	93	7	0
13 Oily substances/chemicals	- grease/oil	93	7	0
14	- rubber	100	0	0
15	- stamp colour	90	7	3
16	- tar	97	3	0
Average of 1-16		88	11	1
Stickiness	No(%) Yes(%) 69 31	Seed-coat fragn	No(%	

Table 35 2013

Country: Colombia	Growth: Acala		Number of Samples:		
		Degree	of contaminat	ion (%)	
Source of contamination		Non- existent/ insignificant	Moderate	Serious	
1 Fabrics made of	- woven plastic	100	0	0	
2	- plastic film	100	0	0	
3	- jute/hessian	100	0	0	
4	- cotton	100	0	0	
5 Strings made of	- woven plastic	100	0	0	
6	- plastic film	0	0	100	
7	- jute/hessian	100	0	0	
8	- cotton	100	0	0	
9 Organic matter	- leaves, feathers, paper, leather e	100	0	0	
10 Inorganic matter	- sand/dust	100	0	0	
11	- rust	100	0	0	
12	- metal/wire	100	0	0	
13 Oily substances/chemicals	- grease/oil	100	0	0	
14	- rubber	100	0	0	
15	- stamp colour	100	0	0	
16	- tar	100	0	0	
Average of 1-16	·	94	0	6	
Stickiness	No(%) Yes(%)	Seed-coat fragn	No(% 100	%) Yes(%) 0	

Table 36 2013

Country: Colombia	Growth: Coastal		Number of	Samples:
		Degree	of contami	nation (%)
Source of contamination		Non- existent/ insignificant	Moderate	Serious
1 Fabrics made of	- woven plastic	0	100	0
2	- plastic film	100	0	0
3	- jute/hessian	100	0	0
4	- cotton	0	100	0
5 Strings made of	- woven plastic	0	100	0
6	- plastic film	100	0	0
7	- jute/hessian	100	0	0
8	- cotton	0	0	100
9 Organic matter	- leaves, feathers, paper, leather e	100	0	0
10 Inorganic matter	- sand/dust	100	0	0
11	- rust	100	0	0
12	- metal/wire	100	0	0
13 Oily substances/chemicals	- grease/oil	0	100	0
14	- rubber	100	0	0
15	- stamp colour	100	0	0
16	- tar	100	0	0
Average of 1-16		69	25	6
Stickiness	No(%) Yes(%) 0 100	Seed-coat fragn		o(%) Yes(%) 0 100

Table 37 2013

Country: Paraguay	Growth: Paraguay		Number of Samples:		
		Degree	of contaminat	ion (%)	
Source of contamination		Non- existent/ insignificant	Moderate	Serious	
1 Fabrics made of	- woven plastic	100	0	0	
2	- plastic film	100	0	0	
3	- jute/hessian	100	0	0	
4	- cotton	100	0	0	
5 Strings made of	- woven plastic	100	0	0	
6	- plastic film	100	0	0	
7	- jute/hessian	100	0	0	
8	- cotton	100	0	0	
9 Organic matter	- leaves, feathers, paper, leather e	100	0	0	
10 Inorganic matter	- sand/dust	100	0	0	
11	- rust	100	0	0	
12	- metal/wire	100	0	0	
13 Oily substances/chemicals	- grease/oil	100	0	0	
14	- rubber	100	0	0	
15	- stamp colour	100	0	0	
16	- tar	100	0	0	
Average of 1-16		100	0	0	
Stickiness	No(%) Yes(%)	Seed-coat fragn	No(% 100 nents	%) Yes(%) 0	

Table 38 2013

Country: Peru	Growth: Del Cerro		Number of S	amples: 1
		Degree	of contamina	tion (%)
Source of contamination		Non- existent/ insignificant	Moderate	Serious
1 Fabrics made of	- woven plastic	0	100	0
2	- plastic film	100	0	0
3	- jute/hessian	100	0	0
4	- cotton	100	0	0
5 Strings made of	- woven plastic	100	0	0
6	- plastic film	100	0	0
7	- jute/hessian	100	0	0
8	- cotton	100	0	0
9 Organic matter	- leaves, feathers, paper, leather e	0	100	0
10 Inorganic matter	- sand/dust	100	0	0
11	- rust	100	0	0
12	- metal/wire	100	0	0
13 Oily substances/chemicals	- grease/oil	100	0	0
14	- rubber	100	0	0
15	- stamp colour	100	0	0
16	- tar	100	0	0
Average of 1-16		87	13	0
Stickiness	No(%) Yes(%) 100 0	Seed-coat fragn	No(nents	

Table 39 2013

Country: Peru	Glowin. Peru-Others			amples: 1
		Degree	of contaminat	ion (%)
Source of contamination		Non- existent/ insignificant	Moderate	Serious
1 Fabrics made of	- woven plastic	0	100	0
2	- plastic film	100	0	0
3	- jute/hessian	100	0	0
4	- cotton	100	0	0
5 Strings made of	- woven plastic	100	0	0
6	- plastic film	100	0	0
7	- jute/hessian	100	0	0
8	- cotton	100	0	0
9 Organic matter	- leaves, feathers, paper, leather e	0	100	0
10 Inorganic matter	- sand/dust	100	0	0
11	- rust	100	0	0
12	- metal/wire	100	0	0
13 Oily substances/chemicals	- grease/oil	100	0	0
14	- rubber	100	0	0
15	- stamp colour	100	0	0
16	- tar	100	0	0
Average of 1-16		87	13	0
Stickiness	No(%) Yes(%) 100 0	Seed-coat fragn	No(%	%) Yes(%) 0

Table 40 2013

Country: Peru	Growth: Pima		Number of	Samples:	
		Degree	e of contamination (%)		
Source of contamination		Non- existent/ insignificant	Moderate	Serious	
1 Fabrics made of	- woven plastic	67	33	0	
2	- plastic film	100	0	0	
3	- jute/hessian	67	33	0	
4	- cotton	67	33	0	
5 Strings made of	- woven plastic	67	33	0	
6	- plastic film	67	0	33	
7	- jute/hessian	67	33	0	
8	- cotton	67	33	0	
9 Organic matter	- leaves, feathers, paper, leather e	33	67	0	
10 Inorganic matter	- sand/dust	100	0	0	
11	- rust	100	0	0	
12	- metal/wire	100	0	0	
13 Oily substances/chemicals	- grease/oil	100	0	0	
14	- rubber	100	0	0	
15	- stamp colour	100	0	0	
16	- tar	100	0	0	
Average of 1-16	·	81	17	2	
	No(%) Yes(%)		N	o(%) Yes(%)	
Stickiness	100 0	Seed-coat fragn	nents 10	00 0	

2013 Table 41

Country: Peru	Growth: Tanguis	Number of Samples:			
		Degree	of contamination (%)		
Source of contamination		Non- existent/ insignificant	Moderate	Serious	
1 Fabrics made of	- woven plastic	0	50	50	
2	- plastic film	50	50	0	
3	- jute/hessian	100	0	0	
4	- cotton	50	0	50	
5 Strings made of	- woven plastic	50	50	0	
6	- plastic film	50	50	0	
7	- jute/hessian	100	0	0	
8	- cotton	50	50	0	
9 Organic matter	- leaves, feathers, paper, leather e	0	100	0	
10 Inorganic matter	- sand/dust	50	50	0	
11	- rust	100	0	0	
12	- metal/wire	100	0	0	
13 Oily substances/chemicals	- grease/oil	100	0	0	
14	- rubber	100	0	0	
15	- stamp colour	50	50	0	
16	- tar	100	0	0	
Average of 1-16		66	28	6	
Stickiness	No(%) Yes(%) 100 0	Seed-coat fragr	No(' nents <u>50</u>		

Table 42 2013

Country: Australia	Growth: Australia		Number of Sa	imples: 38
		Degree	of contaminat	ion (%)
Source of contamination		Non- existent/ insignificant	Moderate	Serious
1 Fabrics made of	- woven plastic	92	5	3
2	- plastic film	89	8	3
3	- jute/hessian	87	13	0
4	- cotton	95	5	0
5 Strings made of	- woven plastic	89	8	3
6	- plastic film	87	5	8
7	- jute/hessian	89	11	0
8	- cotton	89	11	0
9 Organic matter	- leaves, feathers, paper, leather e	61	34	5
10 Inorganic matter	- sand/dust	79	18	3
11	- rust	92	5	3
12	- metal/wire	94	3	3
13 Oily substances/chemicals	- grease/oil	89	11	0
14	- rubber	95	5	0
15	- stamp colour	97	3	0
16	- tar	97	3	0
Average of 1-16		89	9	2
Stickiness	No(%) Yes(%) 82 18	Seed-coat fragr	No(%	6) Yes(%) 24

Table 43 2013

Country: China	Growth: Anhui	Number of Samples:		
		Degree	of contamina	tion (%)
Source of contamination		Non- existent/ insignificant	Moderate	Serious
1 Fabrics made of	- woven plastic	0	50	50
2	- plastic film	50	0	50
3	- jute/hessian	100	0	0
4	- cotton	50	0	50
5 Strings made of	- woven plastic	0	50	50
6	- plastic film	50	0	50
7	- jute/hessian	50	0	50
8	- cotton	0	50	50
9 Organic matter	- leaves, feathers, paper, leather e	50	50	0
10 Inorganic matter	- sand/dust	100	0	0
11	- rust	100	0	0
12	- metal/wire	100	0	0
13 Oily substances/chemicals	- grease/oil	100	0	0
14	- rubber	100	0	0
15	- stamp colour	100	0	0
16	- tar	100	0	0
Average of 1-16		65	13	22
Stickiness	No(%) Yes(%) 100 0	Seed-coat fragn	No(9	

Table 44 2013

Country: China	Growth: Hebei		Number of Sa	imples: 4
		Degree	of contaminat	ion (%)
Source of contamination		Non- existent/ insignificant	Moderate	Serious
1 Fabrics made of	- woven plastic	0	50	50
2	- plastic film	0	50	50
3	- jute/hessian	50	50	0
4	- cotton	25	50	25
5 Strings made of	- woven plastic	0	50	50
6	- plastic film	25	50	25
7	- jute/hessian	25	50	25
8	- cotton	25	50	25
9 Organic matter	- leaves, feathers, paper, leather e	0	50	50
10 Inorganic matter	- sand/dust	25	25	50
11	- rust	75	25	0
12	- metal/wire	50	50	0
13 Oily substances/chemicals	- grease/oil	50	50	0
14	- rubber	50	50	0
15	- stamp colour	50	50	0
16	- tar	75	25	0
Average of 1-16		33	45	22
Stickiness	No(%) Yes(%)	Seed-coat fragn	No(%	%) Yes(%) 25

Table 45 2013

Country: China	Growth: Jiangsu		Number of Samples:		
		Degree	e of contamination (%)		
Source of contamination		Non- existent/ insignificant	Moderate	e Serious	
1 Fabrics made of	- woven plastic	50	0	50	
2	- plastic film	0	50	50	
3	- jute/hessian	100	0	0	
4	- cotton	0	50	50	
5 Strings made of	- woven plastic	0	50	50	
6	- plastic film	50	0	50	
7	- jute/hessian	50	0	50	
8	- cotton	0	50	50	
9 Organic matter	- leaves, feathers, paper, leather e	0	100	0	
10 Inorganic matter	- sand/dust	100	0	0	
11	- rust	100	0	0	
12	- metal/wire	100	0	0	
13 Oily substances/chemicals	- grease/oil	100	0	0	
14	- rubber	100	0	0	
15	- stamp colour	100	0	0	
16	- tar	100	0	0	
Average of 1-16		59	19	22	
Stickiness	No(%) Yes(%)	Seed-coat fragn	N	lo(%) Ye	

Table 46 2013

Country: China	Growth: Shandong	Number of Samples:		
		Degree	of contaminati	on (%)
Source of contamination		Non- existent/ insignificant	Moderate	Serious
1 Fabrics made of	- woven plastic	0	25	75
2	- plastic film	0	25	75
3	- jute/hessian	75	0	25
4	- cotton	25	25	50
5 Strings made of	- woven plastic	0	25	75
6	- plastic film	50	0	50
7	- jute/hessian	50	0	50
8	- cotton	50	0	50
9 Organic matter	- leaves, feathers, paper, leather e	0	50	50
10 Inorganic matter	- sand/dust	50	25	25
11	- rust	75	25	0
12	- metal/wire	50	50	0
13 Oily substances/chemicals	- grease/oil	75	25	0
14	- rubber	100	0	0
15	- stamp colour	100	0	0
16	- tar	100	0	0
Average of 1-16		50	17	33
Stickiness	No(%) Yes(%) 100 0	Seed-coat fragr	No(% 100 100 100 100 100 100 100 100 100 10	%) Yes(%) 0

Table 47 2013

Country: China	Growth: Xinjiang	Number of Samples:		
		Degree	of contaminat	ion (%)
Source of contamination		Non- existent/ insignificant	Moderate	Serious
1 Fabrics made of	- woven plastic	44	56	0
2	- plastic film	44	56	0
3	- jute/hessian	67	33	0
4	- cotton	33	67	0
5 Strings made of	- woven plastic	33	67	0
6	- plastic film	67	33	0
7	- jute/hessian	44	56	0
8	- cotton	33	67	0
9 Organic matter	- leaves, feathers, paper, leather e	22	78	0
10 Inorganic matter	- sand/dust	78	22	0
11	- rust	89	11	0
12	- metal/wire	78	22	0
13 Oily substances/chemicals	- grease/oil	78	22	0
14	- rubber	78	22	0
15	- stamp colour	78	22	0
16	- tar	78	22	0
Average of 1-16		59	41	0
Stickiness	No(%) Yes(%) 67 33	Seed-coat fragr	No(% 67	%) Yes(%) 33

Table 48 2013

Country: India	Growth: DCH		Number of Sa	imples: 10
		Degree	of contaminat	ion (%)
Source of contamination		Non- existent/ insignificant	Moderate	Serious
1 Fabrics made of	- woven plastic	10	60	30
2	- plastic film	20	50	30
3	- jute/hessian	30	40	30
4	- cotton	30	30	40
5 Strings made of	- woven plastic	10	30	60
6	- plastic film	20	40	40
7	- jute/hessian	10	30	60
8	- cotton	20	40	40
9 Organic matter	- leaves, feathers, paper, leather e	10	60	30
10 Inorganic matter	- sand/dust	60	40	0
11	- rust	70	30	0
12	- metal/wire	90	0	10
13 Oily substances/chemicals	- grease/oil	70	30	0
14	- rubber	80	20	0
15	- stamp colour	80	20	0
16	- tar	80	10	10
Average of 1-16		43	33	24
Stickiness	No(%) Yes(%) 70 30	Seed-coat fragn	No(% 50	%) Yes(%) 50

Table 49 2013

Country: India	Growth: F-414		Number of Samples:		
		Degree	of contamination (%)		
Source of contamination		Non- existent/ insignificant	Moderate	Serious	
1 Fabrics made of	- woven plastic	0	0	100	
2	- plastic film	0	0	100	
3	- jute/hessian	0	100	0	
4	- cotton	0	0	100	
5 Strings made of	- woven plastic	100	0	0	
6	- plastic film	100	0	0	
7	- jute/hessian	0	0	100	
8	- cotton	0	0	100	
9 Organic matter	- leaves, feathers, paper, leather e	0	100	0	
10 Inorganic matter	- sand/dust	0	0	100	
11	- rust	100	0	0	
12	- metal/wire	100	0	0	
13 Oily substances/chemicals	- grease/oil	0	100	0	
14	- rubber	100	0	0	
15	- stamp colour	100	0	0	
16	- tar	100	0	0	
Average of 1-16		43	19	38	
Stickiness	No(%) Yes(%) 0 100	Seed-coat fragn		o(%) Yes(%) 0 100	

Table 50 2013

Country: India	Growth: H-4	Number of Samples:		
		Degree	of contaminat	ion (%)
Source of contamination		Non- existent/ insignificant	Moderate	Serious
1 Fabrics made of	- woven plastic	60	40	0
2	- plastic film	60	40	0
3	- jute/hessian	40	40	20
4	- cotton	20	60	20
5 Strings made of	- woven plastic	60	20	20
6	- plastic film	80	0	20
7	- jute/hessian	60	20	20
8	- cotton	80	0	20
9 Organic matter	- leaves, feathers, paper, leather e	40	40	20
10 Inorganic matter	- sand/dust	60	20	20
11	- rust	80	0	20
12	- metal/wire	80	0	20
13 Oily substances/chemicals	- grease/oil	60	40	0
14	- rubber	100	0	0
15	- stamp colour	100	0	0
16	- tar	100	0	0
Average of 1-16		67	20	13
Stickiness	No(%) Yes(%) 80 20	Seed-coat fragn	nents No(%	%) Yes(%) 100

Table 51 2013

Country: India	Growth: India-Othe	ers	Number of Sa	amples: 8
		Degree	of contaminat	ion (%)
Source of contamination		Non- existent/ insignificant	Moderate	Serious
1 Fabrics made of	- woven plastic	62	38	0
2	- plastic film	62	25	13
3	- jute/hessian	62	13	25
4	- cotton	37	25	38
5 Strings made of	- woven plastic	37	38	25
6	- plastic film	49	38	13
7	- jute/hessian	37	38	25
8	- cotton	37	38	25
9 Organic matter	- leaves, feathers, paper, leather e	24	38	38
10 Inorganic matter	- sand/dust	49	38	13
11	- rust	75	25	0
12	- metal/wire	75	25	0
13 Oily substances/chemicals	- grease/oil	100	0	0
14	- rubber	87	13	0
15	- stamp colour	87	13	0
16	- tar	100	0	0
Average of 1-16		62	25	13
Stickiness	No(%) Yes(%) 88 13	Seed-coat fragn	No(%	%) Yes(%) 63

Table 52 2013

Country: India	Growth: J-34		Number of Sa	imples: 8
		Degree	of contaminat	ion (%)
Source of contamination		Non- existent/ insignificant	Moderate	Serious
1 Fabrics made of	- woven plastic	49	38	13
2	- plastic film	24	13	63
3	- jute/hessian	37	38	25
4	- cotton	25	50	25
5 Strings made of	- woven plastic	12	63	25
6	- plastic film	25	50	25
7	- jute/hessian	24	38	38
8	- cotton	24	38	38
9 Organic matter	- leaves, feathers, paper, leather e	37	38	25
10 Inorganic matter	- sand/dust	49	38	13
11	- rust	87	0	13
12	- metal/wire	87	13	0
13 Oily substances/chemicals	- grease/oil	87	13	0
14	- rubber	100	0	0
15	- stamp colour	100	0	0
16	- tar	100	0	0
Average of 1-16		54	27	19
Stickiness	No(%) Yes(%) 100 0	Seed-coat fragr	ments No(%	%) Yes(%) 88

Table 53 2013

Country: India	Growth: LRA	Number of Samples:		
		Degree of contamination (%)		
Source of contamination		Non- existent/ insignificant	Moderate	Serious
1 Fabrics made of	- woven plastic	50	50	0
2	- plastic film	50	50	0
3	- jute/hessian	50	50	0
4	- cotton	50	50	0
5 Strings made of	- woven plastic	100	0	0
6	- plastic film	50	0	50
7	- jute/hessian	100	0	0
8	- cotton	50	50	0
9 Organic matter	- leaves, feathers, paper, leather e	0	50	50
10 Inorganic matter	- sand/dust	50	50	0
11	- rust	100	0	0
12	- metal/wire	0	100	0
13 Oily substances/chemicals	- grease/oil	100	0	0
14	- rubber	100	0	0
15	- stamp colour	100	0	0
16	- tar	100	0	0
Average of 1-16		66	28	6
Stickiness	No(%) Yes(%) 100 0	Seed-coat fragn	No(9	%) Yes(%) 100

Table 54 2013

Country: India	Growth: MCU-5		Number of Sa	imples: 12
	Degree of contamination (%)			
Source of contamination		Non- existent/ insignificant	Moderate	Serious
1 Fabrics made of	- woven plastic	25	42	33
2	- plastic film	25	50	25
3	- jute/hessian	41	17	42
4	- cotton	42	25	33
5 Strings made of	- woven plastic	25	25	50
6	- plastic film	42	0	58
7	- jute/hessian	25	8	67
8	- cotton	25	25	50
9 Organic matter	- leaves, feathers, paper, leather e	42	25	33
10 Inorganic matter	- sand/dust	75	8	17
11	- rust	75	17	8
12	- metal/wire	75	8	17
13 Oily substances/chemicals	- grease/oil	67	33	0
14	- rubber	92	8	0
15	- stamp colour	92	8	0
16	- tar	92	0	8
Average of 1-16		53	19	28
Stickiness	No(%) Yes(%) 92 8	Seed-coat fragn	nents No(%	%) Yes(%) 67

Table 55 2013

Country: India	Growth: Shankar-4/6			Number of Samples: 30	
		Degree of contamination (%)			
Source of contamination		Non- existent/ insignificant	Moderate	Serious	
1 Fabrics made of	- woven plastic	50	27	23	
2	- plastic film	40	23	37	
3	- jute/hessian	40	37	23	
4	- cotton	26	27	47	
5 Strings made of	- woven plastic	27	30	43	
6	- plastic film	27	33	40	
7	- jute/hessian	23	30	47	
8	- cotton	26	27	47	
9 Organic matter	- leaves, feathers, paper, leather e	24	43	33	
10 Inorganic matter	- sand/dust	56	27	17	
11	- rust	74	13	13	
12	- metal/wire	53	20	27	
13 Oily substances/chemicals	- grease/oil	76	17	7	
14	- rubber	74	13	13	
15	- stamp colour	80	3	17	
16	- tar	80	7	13	
Average of 1-16		48	24	28	
Stickiness	No(%) Yes(%) 80 20	Seed-coat fragn	No(%	%) Yes(%) 67	

Table 56 2013

Country: Israel	Growth: Acala	Number of Samples:		
		Degree of contamination (%)		
Source of contamination		Non- existent/ insignificant	Moderate	Serious
1 Fabrics made of	- woven plastic	100	0	0
2	- plastic film	67	33	0
3	- jute/hessian	100	0	0
4	- cotton	100	0	0
5 Strings made of	- woven plastic	67	33	0
6	- plastic film	100	0	0
7	- jute/hessian	67	0	33
8	- cotton	67	33	0
9 Organic matter	- leaves, feathers, paper, leather e	67	0	33
10 Inorganic matter	- sand/dust	100	0	0
11	- rust	100	0	0
12	- metal/wire	100	0	0
13 Oily substances/chemicals	- grease/oil	100	0	0
14	- rubber	100	0	0
15	- stamp colour	100	0	0
16	- tar	100	0	0
Average of 1-16		90	6	4
Stickiness	No(%) Yes(%) 100 0	Seed-coat fragr	No(% 100 100 100 100 100 100 100 100 100 10	%) Yes(%) 0

Table 57 2013

Country: Israel	Growth: Pima	Number of Samples:		
		Degree of contamination (%)		
Source of contamination		Non- existent/ insignificant	Moderate	Serious
1 Fabrics made of	- woven plastic	100	0	0
2	- plastic film	100	0	0
3	- jute/hessian	100	0	0
4	- cotton	100	0	0
5 Strings made of	- woven plastic	100	0	0
6	- plastic film	100	0	0
7	- jute/hessian	100	0	0
8	- cotton	100	0	0
9 Organic matter	- leaves, feathers, paper, leather e	67	0	33
10 Inorganic matter	- sand/dust	100	0	0
11	- rust	100	0	0
12	- metal/wire	100	0	0
13 Oily substances/chemicals	- grease/oil	100	0	0
14	- rubber	100	0	0
15	- stamp colour	100	0	0
16	- tar	100	0	0
Average of 1-16		98	0	2
Stickiness	No(%) Yes(%) 100 0	Seed-coat fragn	No(%	%) Yes(%) 0

Table 58 2013

Country: Pakistan	Growth: AmSeed 1	505	Number of Sa	imples: 3
		Degree	of contaminat	ion (%)
Source of contamination		Non- existent/ insignificant	Moderate	Serious
1 Fabrics made of	- woven plastic	33	67	0
2	- plastic film	67	0	33
3	- jute/hessian	34	33	33
4	- cotton	34	33	33
5 Strings made of	- woven plastic	33	67	0
6	- plastic film	33	0	67
7	- jute/hessian	0	67	33
8	- cotton	33	67	0
9 Organic matter	- leaves, feathers, paper, leather e	34	33	33
10 Inorganic matter	- sand/dust	33	0	67
11	- rust	33	67	0
12	- metal/wire	33	67	0
13 Oily substances/chemicals	- grease/oil	67	33	0
14	- rubber	67	33	0
15	- stamp colour	67	33	0
16	- tar	67	33	0
Average of 1-16		41	40	19
Stickiness	No(%) Yes(%) 100 0	Seed-coat fragr	ments No(%	%) Yes(%) 100

Table 59 2013

Country: Pakistan	Growth: AmSeed A	FZAL	Number of	Samples:
		Degree	of contamin	ation (%)
Source of contamination		Non- existent/ insignificant	Moderate	Serious
1 Fabrics made of	- woven plastic	80	0	20
2	- plastic film	60	20	20
3	- jute/hessian	80	0	20
4	- cotton	60	0	40
5 Strings made of	- woven plastic	80	0	20
6	- plastic film	60	20	20
7	- jute/hessian	60	40	0
8	- cotton	60	0	40
9 Organic matter	- leaves, feathers, paper, leather e	20	60	20
10 Inorganic matter	- sand/dust	60	40	0
11	- rust	40	60	0
12	- metal/wire	40	60	0
13 Oily substances/chemicals	- grease/oil	100	0	0
14	- rubber	100	0	0
15	- stamp colour	100	0	0
16	- tar	100	0	0
Average of 1-16		68	19	13
Stickiness	No(%) Yes(%) 80 20	Seed-coat fragr		(%) Yes(%) 0 60

Table 60 2013

Country: Pakistan	Growth: MNH93		Number of Sa	imples: 3
		Degree	of contaminat	ion (%)
Source of contamination		Non- existent/ insignificant	Moderate	Serious
1 Fabrics made of	- woven plastic	67	33	0
2	- plastic film	100	0	0
3	- jute/hessian	67	0	33
4	- cotton	67	33	0
5 Strings made of	- woven plastic	67	0	33
6	- plastic film	100	0	0
7	- jute/hessian	33	67	0
8	- cotton	67	33	0
9 Organic matter	- leaves, feathers, paper, leather e	0	33	67
10 Inorganic matter	- sand/dust	33	0	67
11	- rust	67	33	0
12	- metal/wire	67	33	0
13 Oily substances/chemicals	- grease/oil	100	0	0
14	- rubber	100	0	0
15	- stamp colour	100	0	0
16	- tar	67	33	0
Average of 1-16		68	19	13
Stickiness	No(%) Yes(%) 100 0	Seed-coat fragr	nents No(%	%) Yes(%) 100

Table 61 2013

Number of Samples:	Growth: NAI	Country: Pakistan
Degree of contamination (%)		
Non- existent/ Moderate Serious insignificant		Source of contamination
50 50 0	- woven plastic	1 Fabrics made of
100 0 0	- plastic film	2
50 0 50	- jute/hessian	3
50 0 50	- cotton	4
50 0 50	- woven plastic	5 Strings made of
100 0 0	- plastic film	6
0 50 50	- jute/hessian	7
50 50 0	- cotton	8
r, leather e 0 50 50	- leaves, feathers, paper, l	9 Organic matter
50 50 0	- sand/dust	0 Inorganic matter
50 50 0	- rust	11
100 0 0	- metal/wire	2
100 0 0	- grease/oil	3 Oily substances/chemicals
100 0 0	- rubber	14
100 0 0	- stamp colour	15
100 0 0	- tar	16
65 19 16		Average of 1-16
65 19 No(Seed-coat fragments	No(%) Yes(%) 100 0	Average of 1-16 Stickiness

Table 62 2013

Country: Pakistan	Growth: Pakistan-C	Others	Number of Sa	imples: 5
		Degree	of contaminat	ion (%)
Source of contamination		Non- existent/ insignificant	Moderate	Serious
1 Fabrics made of	- woven plastic	40	40	20
2	- plastic film	40	40	20
3	- jute/hessian	40	40	20
4	- cotton	60	40	0
5 Strings made of	- woven plastic	60	20	20
6	- plastic film	20	40	40
7	- jute/hessian	40	20	40
8	- cotton	60	20	20
9 Organic matter	- leaves, feathers, paper, leather e	20	60	20
10 Inorganic matter	- sand/dust	20	40	40
11	- rust	60	40	0
12	- metal/wire	60	40	0
13 Oily substances/chemicals	- grease/oil	60	40	0
14	- rubber	80	20	0
15	- stamp colour	60	40	0
16	- tar	100	0	0
Average of 1-16		51	34	15
Stickiness	No(%) Yes(%) 100 0	Seed-coat fragr	nents No(%	%) Yes(%) 80

Table 63 2013

Country: Syria	Growth: Syria		Number of Sa	amples: 2
		Degree	of contaminat	tion (%)
Source of contamination		Non- existent/ insignificant	Moderate	Serious
1 Fabrics made of	- woven plastic	50	50	0
2	- plastic film	50	50	0
3	- jute/hessian	100	0	0
4	- cotton	100	0	0
5 Strings made of	- woven plastic	100	0	0
6	- plastic film	50	50	0
7	- jute/hessian	50	50	0
8	- cotton	50	50	0
9 Organic matter	- leaves, feathers, paper, leather e	50	50	0
10 Inorganic matter	- sand/dust	50	50	0
11	- rust	100	0	0
12	- metal/wire	100	0	0
13 Oily substances/chemicals	- grease/oil	100	0	0
14	- rubber	100	0	0
15	- stamp colour	50	50	0
16	- tar	100	0	0
Average of 1-16		75	25	0
Stickiness	No(%) Yes(%) 100 0	Seed-coat fragn	No(%	, , ,

Table 64 2013

Country: Tajikistan	Growth: Medium St	taples	Number of Sa	imples: 8
		Degree	of contaminat	ion (%)
Source of contamination		Non- existent/ insignificant	Moderate	Serious
1 Fabrics made of	- woven plastic	75	25	0
2	- plastic film	62	38	0
3	- jute/hessian	62	38	0
4	- cotton	49	38	13
5 Strings made of	- woven plastic	62	25	13
6	- plastic film	62	38	0
7	- jute/hessian	37	63	0
8	- cotton	37	50	13
9 Organic matter	- leaves, feathers, paper, leather e	12	75	13
10 Inorganic matter	- sand/dust	24	63	13
11	- rust	37	63	0
12	- metal/wire	50	50	0
13 Oily substances/chemicals	- grease/oil	75	25	0
14	- rubber	75	25	0
15	- stamp colour	87	13	0
16	- tar	74	13	13
Average of 1-16		55	40	5
Stickiness	No(%) Yes(%) 63 38	Seed-coat fragr	No(%	%) Yes(%) 50

Table 65 2013

Country: Turkmenistan	Growth: Long Stap	oles	Number of S	Samples:
		Degree	of contamina	ation (%)
Source of contamination		Non- existent/ insignificant	Moderate	Serious
1 Fabrics made of	- woven plastic	100	0	0
2	- plastic film	100	0	0
3	- jute/hessian	100	0	0
4	- cotton	0	50	50
5 Strings made of	- woven plastic	100	0	0
6	- plastic film	100	0	0
7	- jute/hessian	50	50	0
8	- cotton	0	50	50
9 Organic matter	- leaves, feathers, paper, leather e	0	50	50
10 Inorganic matter	- sand/dust	50	50	0
11	- rust	100	0	0
12	- metal/wire	50	50	0
13 Oily substances/chemicals	- grease/oil	100	0	0
14	- rubber	50	0	50
15	- stamp colour	50	0	50
16	- tar	100	0	0
Average of 1-16		65	19	16
Stickiness	No(%) Yes(%) 50 50	Seed-coat fragr	-	(%) Yes(%) 0 50

Table 66 2013

Country: Turkmenistan	Growth: Medium St	taples	Number of Sa	imples: 8
		Degree	of contaminat	ion (%)
Source of contamination		Non- existent/ insignificant	Moderate	Serious
1 Fabrics made of	- woven plastic	74	13	13
2	- plastic film	74	13	13
3	- jute/hessian	75	25	0
4	- cotton	62	13	25
5 Strings made of	- woven plastic	74	13	13
6	- plastic film	74	13	13
7	- jute/hessian	62	38	0
8	- cotton	25	50	25
9 Organic matter	- leaves, feathers, paper, leather e	37	50	13
10 Inorganic matter	- sand/dust	25	75	0
11	- rust	62	38	0
12	- metal/wire	62	38	0
13 Oily substances/chemicals	- grease/oil	100	0	0
14	- rubber	75	25	0
15	- stamp colour	100	0	0
16	- tar	87	13	0
Average of 1-16		67	26	7
Stickiness	No(%) Yes(%) 50 50	Seed-coat fragr	ments No(%	%) Yes(%) 50

Table 67 2013

Country: Uzbekistan	Growth: Medium S	taples	Number of Sa	amples: 10	
		Degree of contamination (%)			
Source of contamination		Non- existent/ insignificant	Moderate	Serious	
1 Fabrics made of	- woven plastic	50	30	20	
2	- plastic film	60	40	0	
3	- jute/hessian	60	30	10	
4	- cotton	60	30	10	
5 Strings made of	- woven plastic	50	30	20	
6	- plastic film	60	40	0	
7	- jute/hessian	60	30	10	
8	- cotton	50	40	10	
9 Organic matter	- leaves, feathers, paper, leather e	30	40	30	
10 Inorganic matter	- sand/dust	40	30	30	
11	- rust	60	40	0	
12	- metal/wire	30	50	20	
13 Oily substances/chemicals	- grease/oil	80	20	0	
14	- rubber	70	30	0	
15	- stamp colour	90	10	0	
16	- tar	90	10	0	
Average of 1-16		59	31	10	
Stickiness	No(%) Yes(%) 40 60	Seed-coat fragn	No(%	%) Yes(%) 40	

Europe

Table 68 2013

Country: Greece	Growth: Greece		Number of Sa	imples: 13
		Degree	of contaminat	ion (%)
Source of contamination		Non- existent/ insignificant	Moderate	Serious
1 Fabrics made of	- woven plastic	62	23	15
2	- plastic film	62	23	15
3	- jute/hessian	85	15	0
4	- cotton	85	15	0
5 Strings made of	- woven plastic	84	8	8
6	- plastic film	77	8	15
7	- jute/hessian	85	15	0
8	- cotton	77	23	0
9 Organic matter	- leaves, feathers, paper, leather e	54	31	15
10 Inorganic matter	- sand/dust	62	23	15
11	- rust	77	15	8
12	- metal/wire	77	15	8
13 Oily substances/chemicals	- grease/oil	77	15	8
14	- rubber	84	8	8
15	- stamp colour	92	8	0
16	- tar	92	8	0
Average of 1-16		77	16	7
Stickiness	No(%) Yes(%) 85 15	Seed-coat fragr	No(%	%) Yes(%) 31

Table 69 2013

Country: Spain	Growth: Spain	Number of Samples:		
		Degree	of contaminat	ion (%)
Source of contamination		Non- existent/ insignificant	Moderate	Serious
1 Fabrics made of	- woven plastic	100	0	0
2	- plastic film	87	13	0
3	- jute/hessian	100	0	0
4	- cotton	100	0	0
5 Strings made of	- woven plastic	100	0	0
6	- plastic film	100	0	0
7	- jute/hessian	87	13	0
8	- cotton	100	0	0
9 Organic matter	- leaves, feathers, paper, leather e	75	25	0
10 Inorganic matter	- sand/dust	74	13	13
11	- rust	100	0	0
12	- metal/wire	100	0	0
13 Oily substances/chemicals	- grease/oil	100	0	0
14	- rubber	100	0	0
15	- stamp colour	100	0	0
16	- tar	100	0	0
Average of 1-16		95	4	1
Stickiness	No(%) Yes(%) 100 0	Seed-coat fragn	No(% 88	%) Yes(%) 13

Europe

Table 70 2013

Country: Turkey	Growth: Antalya		Number of Sa	amples: 1
		Degree	ion (%)	
Source of contamination	Non- existent/ insignificant	Moderate	Serious	
1 Fabrics made of	- woven plastic	0	100	0
2	- plastic film	0	100	0
3	- jute/hessian	100	0	0
4	- cotton	100	0	0
5 Strings made of	- woven plastic	100	0	0
6	- plastic film	0	100	0
7	- jute/hessian	100	0	0
8	- cotton	100	0	0
9 Organic matter	- leaves, feathers, paper, leather e	0	100	0
10 Inorganic matter	- sand/dust	100	0	0
11	- rust	100	0	0
12	- metal/wire	100	0	0
13 Oily substances/chemicals	- grease/oil	100	0	0
14	- rubber	0	100	0
15	- stamp colour	100	0	0
16	- tar	100	0	0
Average of 1-16		69	31	0
Stickiness	No(%) Yes(%) 100 0	Seed-coat fragr	nents No(%	%) Yes(%) 100

Table 71 2013

Country: Turkey	Growth: Cukurova/	South	Number of Samples: 2		
		Degree	of contamina	tion (%)	
Source of contamination	ource of contamination		Moderate	Serious	
1 Fabrics made of	- woven plastic	50	50	0	
2	- plastic film	50	0	50	
3	- jute/hessian	100	0	0	
4	- cotton	50	0	50	
5 Strings made of	- woven plastic	50	50	0	
6	- plastic film	50	50	0	
7	- jute/hessian	50	50	0	
8	- cotton	50	50	0	
9 Organic matter	- leaves, feathers, paper, leather e	0	50	50	
10 Inorganic matter	- sand/dust	50	50	0	
11	- rust	100	0	0	
12	- metal/wire	0	100	0	
13 Oily substances/chemicals	- grease/oil	100	0	0	
14	- rubber	50	50	0	
15	- stamp colour	100	0	0	
16	- tar	100	0	0	
Average of 1-16		60	31	9	
Stickiness	No(%) Yes(%) 100 0	Seed-coat fragn	No(nents 50		

Europe

Table 72 2013

Country: Turkey	Growth: Izmir		Number of S	amples: 5
		Degree	of contamina	tion (%)
Source of contamination		Non- existent/ insignificant	Moderate	Serious
1 Fabrics made of	- woven plastic	100	0	0
2	- plastic film	80	20	0
3	- jute/hessian	80	20	0
4	- cotton	60	40	0
5 Strings made of	- woven plastic	80	20	0
6	- plastic film	40	60	0
7	- jute/hessian	80	20	0
8	- cotton	60	40	0
9 Organic matter	- leaves, feathers, paper, leather e	60	20	20
10 Inorganic matter	- sand/dust	60	40	0
11	- rust	100	0	0
12	- metal/wire	100	0	0
13 Oily substances/chemicals	- grease/oil	100	0	0
14	- rubber	80	20	0
15	- stamp colour	60	40	0
16	- tar	100	0	0
Average of 1-16		78	21	1
	No(%) Yes(%)		No(
Stickiness	80 20	Seed-coat fragr	nents 60	40

Table 73 2013

Country: Turkey	Growth: Turkey-Ot	hers	Number of Samples:	
		Degree	of contaminat	ion (%)
Source of contamination		Non- existent/ insignificant	Moderate	Serious
1 Fabrics made of	- woven plastic	100	0	0
2	- plastic film	100	0	0
3	- jute/hessian	100	0	0
4	- cotton	0	100	0
5 Strings made of	- woven plastic	100	0	0
6	- plastic film	100	0	0
7	- jute/hessian	50	50	0
8	- cotton	50	50	0
9 Organic matter	- leaves, feathers, paper, leather e	0	50	50
10 Inorganic matter	- sand/dust	0	50	50
11	- rust	100	0	0
12	- metal/wire	100	0	0
13 Oily substances/chemicals	- grease/oil	100	0	0
14	- rubber	100	0	0
15	- stamp colour	50	50	0
16	- tar	100	0	0
Average of 1-16		72	22	6
Stickiness	No(<u>%) Yes(%)</u> 100 0	Seed-coat fragn	No(%	%) Yes(%) 100

Press Release Summary of Survey Results 2016

"Raw cotton has become cleaner. ITMF's Cotton Contamination Survey shows that the level of contamination of raw cotton by foreign matters has fallen in 2016. The level of contamination, however, remains high and poses a serious challenge for the cotton spinning industry. The survey also shows that the level of stickiness and the appearance of seed-coat fragments have fallen significantly in 2016 compared to the previous survey from 2013." This is the general conclusion to be drawn from the "Cotton Contamination Survey 2016" which has just been released by the International Textile Manufacturers Federation (ITMF). The 2016 edition is the fourteenth in the series since the changeover to a new methodology in 1989. In the 2016 report, 90 spinning mills located in 22 countries evaluated 71 different cotton growths.

Contamination - slight decrease

The level of cottons moderately or seriously contaminated as perceived by the spinning mills from around the world fell from 26% to 23% compared to the last survey in 2013. A closer look at the extent of the contamination shows that 5% (2013: 8%) of all cotton evaluated were seriously contaminated by some sort of foreign matter whereas 18% (2013: 18%) were only moderately contaminated. As the summary data are arithmetic averages of the different contaminants, the extent of contamination is fully illustrated only by the results for the individual contaminants. They range from 5% for "tar" to 47% of all cottons processed being moderately or seriously contaminated by "organic matter", i.e. leaves, feathers, paper, leather, etc. Other serious contaminants are "fabrics made of plastic film" (38%), "strings made of woven plastic" (31%), "fabrics made of woven plastic" (31%) as well as "sand and dust" (31%). The most contaminated cotton descriptions considered for the survey originated in India (DCH, Shankar-4/6, MCU-5, J-34, India-Others), Pakistan (Pakistan Others), Uzbekistan (Medium Staples) and Ivory Coast. In contrast, very clean raw cottons were produced in Australia, Brazil, the USA, (Arizona, California, USA-Others, Memphis Territory, South Eastern and Pima) and China (Shandong, Xinjiang).

Stickiness - significant fall

The presence of sticky cotton as perceived by the spinning mills fell in 2016 significantly from 23% in 2013 to 16%, the lowest level since 2009. Descriptions that were affected most by stickiness were those from Brazil, India (DCH, MCU-5, India Others), the USA (Arizona, California, Pima and South Eastern), Spain and Pakistan (Pakistan Others). On the other end of the range, cottons from China (Hebei, Henan, Hubei, Shandong), Cameroon, Argentina and Benin were not or hardly affected by stickiness.

Seed-coat fragments – noticeable decline

With regard to seed-coat fragments the Cotton Contamination Survey 2016 shows that their appearance in cotton growths remains an issue for spinners around the world though the level of contamination fell significantly. 32% of cotton spinners (2013: 42%) claim that they have encountered moderate or significant amounts of seed-coat fragments in the cotton growths consumed, the lowest level since 2009. The origins affected most by seed-coat fragments are those from India (DCH, J-34, Shankar-4/6, MCU-5, India-Others), Pakistan-Others, Mali and Turkey (Izmir). Countries for which the existence of seed-coat fragments was negligible (prevalence of less than 30%) included those from the USA (Arizona, California, Pima, USA-Others), Australia, China (Hebei, Henan, Hubei, Shandong) and Burkina Faso.

December 2016

Participation

Table I 2016

Country	Number of respondents (participating companies)	Number of samples (evaluations)	Number of cotton growth evaluated *
Argentina	2	3	2
Bangladesh	3	37	28
Belgium	1	5	5
Brazil	3	4	3
China	24	184	43
Chinese Taipei	6	56	30
Colombia	1	2	2
Egypt	1	2	2
Germany	1	4	4
Greece	1	1	1
ndia	16	64	19
ndonesia	3	25	19
taly	1	8	8
Japan	1	10	10
Korea, Rep.	2	11	7
Mexico	3	5	4
Pakistan	4	24	14
South Africa	1	4	4
Spain	1	1	1
Γhailand	1	4	4
Гurkey	6	24	13
J.S.A.	8	16	8
Total	90	494	

^{*} Divided among 71 cotton descriptions

Main Results

Table IIa 2016

Co	untry All Countries	Growth:	All Growths	Number o	of samples:	494
				Degree o	f contaminati	on (%)
	Source of contamination			Non-existent/ insignificant	Moderate	Serious
1	Fabrics made of	- woven plastic		69	21	10
2		- plastic film		62	29	9
3		- jute/hessian		73	21	6
4		- cotton		73	22	5
5	Strings made of	- woven plastic		69	21	10
6		- plastic film		70	23	7
7		- jute/hessian		71	22	7
8		- cotton		76	19	5
9	Organic matter	- leaves, feather	ers, paper, leather etc.	53	34	13
10	Inorganic matter	- sand/dust		69	26	5
11		- rust		86	11	3
12		- metal/wire		87	10	3
13	Oily substances/chemicals	- grease/oil		89	10	1
14		- rubber		94	5	1
15		- stamp colour		90	9	1
16		- tar		95	4	1
Ave	erage of 1-16			77	18	5
	Stickiness	No (%) 84	Yes(%) 16	Seed-coat fragments	No (%) 68	Yes(%) 32

Table IIb

Year	Degre	ee of Contaminatio	n (%)		_
	Non- existent/ insignificant	Moderate	Serious	Stickiness (%)	Seed-coas fragments (%)
1989	86	9	5	21	0
1991	85	11	4	27	34
1993	85	11	4	26	36
1995	82	13	5	20	39
1997	82	13	5	23	32
1999	79	15	6	20	38
2001	78	16	6	18	40
2003	73	18	8	21	44
2005	78	15	7	17	37
2007	78	15	7	21	37
2009	78	16	6	13	27
2011	77	16	7	20	38
2013	73	18	8	23	42
2016	77	18	5	16	32

Contamination

2016 Table IIIa

			Degree			
Ranking	Description		Description Non- existent/ insignificant	Moderate	Serious	Number of Samples **
1	India	India-Others	49	41	10	17
2	Pakistan	Pakistan-Others	49	40	11	5
3	India	J-34	50	34	16	12
4	India	MCU-5	55	28	17	19
5	Ivory Coast	Ivory Coast	61	30	9	9
6	India	Shankar	61	27	12	30
7	India	DCH	68	22	10	13
8	Uzbekistan	Medium Staples	69	28	3	7
9	Greece	Greece	71	23	6	8
10	Turkey	Izmir	73	25	2	6
11	China	Hebei	74	26	0	12
12	Benin	Benin	77	23	0	7
13	Argentina	Argentina	77	19	4	5
14	Spain	Spain	77	19	4	5
15	Burkina Faso	Burkina Faso	81	17	2	10

^{*} Average degree of contamination by each of the 18 pre-indicated contaminants ** Minimum: 5 Samples

Contamination

2016 Table IIIb

			Degree			
Ranking	Description		Description Non- existent/ insignificant	Moderate	Serious	Number of Samples **
1	Australia	Australia	95	4	1	23
2	USA	Arizona	95	4	1	14
3	USA	Pima	94	5	1	20
4	USA	California	93	6	1	14
5	China	Shandong	91	9	0	9
6	Brazil	Brazil	89	9	2	23
7	China	Xinjiang	89	6	5	21
8	USA	USA Others	89	10	1	15
9	USA	Memphis Territory	88	9	2	27
10	USA	South Eastern	88	8	4	9
11	USA	Texas High Plains	86	12	2	15
12	China	Henan	85	15	0	8
13	China	Hubei	85	15	0	9
14	Mali	Mali	83	11	6	8
15	Egypt	Giza	82	15	3	13

^{*} Average degree of contamination by each of the 18 pre-indicated contaminants ** Minimum: 5 Samples

Stickiness

2016 Table IVa

Ranking	Description		Affirmative replies(%)*	Number of Samples**
1	USA	Pima	50	20
2	Brazil	Brazil	39	23
3	USA	South Eastern	33	9
4	India	DCH	31	13
5	USA	Arizona	29	14
6	USA	California	24	14
7	India	MCU-5	21	19
8	Spain	Spain	20	5
9	Pakistan	Pakistan Others	20	5
10	USA	Memphis Territory	19	27
11	USA	Texas High Plains	13	15
12	Mali	Mali	12	8
13	Greece	Greece	12	8
14	India	India Others	12	17
15	Ivory Coast	Ivory Coast	11	9

^{*} Percentage of replies indicating the existence of stickiness ** Minimum 5 samples

Stickiness

2016 Table IVb

Ranking	Description		Affirmative replies(%)*	Number of Samples**
1	China	Shandong	0	9
2	China	Henan	0	8
3	China	Hubei	0	9
4	Cameroon	Cameroon	0	8
5	Argentina	Argentina	0	5
6	Benin	Benin	0	7
7	China	Hebei	0	12
8	Turkey	Izmir	0	6
9	Uzbekistan	Medium Staples	0	7
10	USA	USA Others	7	15
11	Egypt	Giza	8	13
12	India	J-34	8	12
13	Australia	Australia	9	23
14	China	Xinjiang	10	21
15	Burkina Faso	Burkina Faso	10	10

^{*} Percentage of replies indicating the existence of stickiness ** Minimum 5 samples

Seed-Coat Fragments

2016 Table Va

Ranking	Description		Affirmative replies(%)*	Number of Samples**
1	India	J-34	75	12
2	India	DCH	69	13
3	India	MCU-5	63	19
4	Pakistan	Pakistan Others	60	5
5	India	India Others	59	17
6	India	India Shankar-4/6	53	30
7	Mali	Mali	50	8
8	Turkey	Izmir	50	6
9	Ivory Coast	Ivory Coast	44	9
10	Argentina	Argentina	40	5
11	Spain	Spain	40	5
12	USA	Memphis Territory	33	27
13	USA	South Eastern	33	9
14	USA	Texas High Plains	27	15
15	Brazil	Brazil	26	23

^{*} Percentage of replies indicating the existence of stickiness ** Minimum 5 samples

Seed-Coat Fragments

2016 Table Vb

Descripti	Descriptions Least Affected by Seed-Coat Fragments						
Ranking	Description		Affirmative replies(%)*	Number of Samples**			
1	China	Hebei	0	12			
2	China	Henan	0	8			
3	China	Shandong	0	9			
4	USA	USA Others	7	15			
5	Australia	Australia	9	23			
6	Burkina Faso	Burkina Faso	10	10			
7	USA	Pima	10	20			
8	China	Hubei	11	9			
9	Cameroon	Cameroon	12	8			
10	Benin	Benin	14	7			
11	USA	Arizona	14	14			
12	Uzbekistan	Medium Staples	14	7			
13	China	Xinjiang	19	22			
14	Egypt	Giza	23	13			
15	USA	California	24	17			

^{*} Percentage of replies indicating the existence of stickiness ** Minimum 5 samples

Table 1 2016

	Country Benin	Growth: Benin	Number of samples: 7		
			Degree of conta	amination (%	6)
	Source of contamination		Non- existent/ insignificant	Moderate	Serious
1	Fabrics made of	- woven plastic	43	57	0
2		- plastic film	57	43	0
3		- jute/hessian	71	29	0
4		- cotton	71	29	0
5	Strings made of	- woven plastic	71	29	0
6		- plastic film	71	29	0
7		- jute/hessian	57	43	0
8		- cotton	86	14	0
9	Organic matter	- leaves, feathers, paper, leather etc.	57	43	0
10	Inorganic matter	- sand/dust	71	29	0
11		- rust	100	0	0
12		- metal/wire	86	14	0
13	Oily substances/chemicals	- grease/oil	100	0	0
14		- rubber	100	0	0
15		- stamp colour	86	14	0
16		- tar	100	0	0
Ave	erage of 1-16		77	23	0
		No (%) Yes(%)		No (%)	Yes(%)
	Stickiness	100 0	Seed-coat fragments	86	14

Table 2 2016

Co	ountry Burkina Faso	Growth: Burkina Faso	Number of samples: 1		
			Degree of conta	amination (%	b)
	Source of contamination		Non- existent/ insignificant	Moderate	Serious
1	Fabrics made of	- woven plastic	60	30	10
2		- plastic film	80	10	10
3		- jute/hessian	70	30	0
4		- cotton	80	20	0
5	Strings made of	- woven plastic	50	40	10
6		- plastic film	70	20	10
7		- jute/hessian	60	40	0
8		- cotton	80	20	0
9	Organic matter	- leaves, feathers, paper, leather etc.	60	40	0
10	Inorganic matter	- sand/dust	90	10	0
11		- rust	90	10	0
12		- metal/wire	100	0	0
13	Oily substances/chemicals	- grease/oil	100	0	0
14		- rubber	100	0	0
15		- stamp colour	100	0	0
16		- tar	100	0	0
Ave	erage of 1-16		81	17	2
		No (%) Yes(%)	1	No (%)	Yes(%)
	Stickiness	90 10	Seed-coat fragments	90	10

Table 3 2016

	Country Cameroon	Growth: Cameroon	Number of samples:		
	-		Degree of conta	amination (%	5)
	Source of contamination		Non- existent/ insignificant	Moderate	Serious
1	Fabrics made of	- woven plastic	88	0	12
2		- plastic film	75	13	12
3		- jute/hessian	88	12	0
4		- cotton	63	37	0
5	Strings made of	- woven plastic	75	13	12
6		- plastic film	75	13	12
7		- jute/hessian	50	50	0
8		- cotton	75	25	0
9	Organic matter	- leaves, feathers, paper, leather etc.	50	50	0
10	Inorganic matter	- sand/dust	75	25	0
11		- rust	100	0	0
12		- metal/wire	100	0	0
13	Oily substances/chemicals	- grease/oil	100	0	0
14		- rubber	100	0	0
15		- stamp colour	100	0	0
16		- tar	100	0	0
Ave	erage of 1-16		82	15	3
		No (%) Yes(%)		No (%)	Yes(%)
	Stickiness	100 0	Seed-coat fragments	88	12

Table 4 2016

	Country Chad	Growth: Chad	Num	nber of samp	oles: 3
			Degree of contamination (%)		
	Source of contamination		Non- existent/ insignificant	Moderate	Serious
1	Fabrics made of	- woven plastic	67	0	33
2		- plastic film	67	0	33
3		- jute/hessian	100	0	0
4		- cotton	100	0	0
5	Strings made of	- woven plastic	67	0	33
6		- plastic film	67	0	33
7		- jute/hessian	33	67	0
8		- cotton	67	33	0
9	Organic matter	- leaves, feathers, paper, leather etc.	33	67	0
10	Inorganic matter	- sand/dust	67	33	0
11		- rust	100	0	0
12		- metal/wire	100	0	0
13	Oily substances/chemicals	- grease/oil	100	0	0
14		- rubber	100	0	0
15		- stamp colour	100	0	0
16		- tar	100	0	0
Av	erage of 1-16		79	13	8
		No (%) Yes(%)		No (%)	Yes(%)
	Stickiness	67 33	Seed-coat fragments	67	33

Table 5	2016
rapie 5	2010

Country Egypt	Growth: Egypt-Others	Number of samples:		
		Degree of contamination (%)		
Source of contamination		Non- existent/ insignificant	Moderate	Serious
1 Fabrics made of	- woven plastic	100	0	0
2	- plastic film	100	0	0
3	- jute/hessian	50	50	0
4	- cotton	100	0	0
5 Strings made of	- woven plastic	100	0	0
6	- plastic film	100	0	0
7	- jute/hessian	50	50	0
8	- cotton	100	0	0
9 Organic matter	- leaves, feathers, paper, leather etc.	50	50	0
10 Inorganic matter	- sand/dust	0	100	0
11	- rust	50	50	0
12	- metal/wire	100	0	0
13 Oily substances/chemicals	- grease/oil	100	0	0
14	- rubber	100	0	0
15	- stamp colour	100	0	0
16	- tar	100	0	0
Average of 1-16		81	19	0
	No (%) Yes(%)		No (%)	Yes(%)
Stickiness	50 50	Seed-coat fragments	100	0

Table 6 2016

Country Egypt	Growth: Giza	Numb	er of sample	s: 13
		Degree of contamination (%)		
Source of contamination		Non- existent/ insignificant	Moderate	Serious
1 Fabrics made of	- woven plastic	84	8	8
2	- plastic film	85	15	0
3	- jute/hessian	69	23	8
4	- cotton	92	8	0
5 Strings made of	- woven plastic	77	23	0
6	- plastic film	85	15	0
7	- jute/hessian	62	23	15
8	- cotton	85	15	0
9 Organic matter	- leaves, feathers, paper, leather etc.	54	38	8
10 Inorganic matter	- sand/dust	54	46	0
11	- rust	92	8	0
12	- metal/wire	100	0	0
13 Oily substances/chemicals	- grease/oil	100	0	0
14	- rubber	100	0	0
15	- stamp colour	85	15	0
16	- tar	92	8	0
Average of 1-16		82	15	3
	No (0) Voo(0)		No (9/)	Voc(9/)
Ctickings	No (%) Yes(%)	Sood cost frommonto	No (%)	Yes(%)
Stickiness	92 8	Seed-coat fragments	77	23

Table 7 2016

C	Country Ivory Coast	Growth: Ivory Coast	Num	ber of samp	oles: 9
	_		Degree of conta	amination (%	6)
	Source of contamination		Non- existent/ insignificant	Moderate	Serious
1	Fabrics made of	- woven plastic	45	22	33
2		- plastic film	56	33	11
3		- jute/hessian	67	22	11
4		- cotton	56	22	22
5	Strings made of	- woven plastic	33	45	22
6		- plastic film	45	44	11
7		- jute/hessian	78	11	11
8		- cotton	78	11	11
9	Organic matter	- leaves, feathers, paper, leather etc.	22	67	11
10	Inorganic matter	- sand/dust	33	56	11
11		- rust	67	33	0
12		- metal/wire	56	44	0
13	Oily substances/chemicals	- grease/oil	78	22	0
14		- rubber	89	11	0
15		- stamp colour	78	22	0
16		- tar	89	11	0
Ave	erage of 1-16		61	30	9
		No (%) Yes(%)	T	No (%)	Yes(%)
	Stickiness	89 11	Seed-coat fragments	56	44

Table 8 2016

C	ountry Madagascar	Growth: Madagascar	Num	ber of samp	oles: 1
		<u></u>	Degree of contamination (%)		
	Source of contamination		Non- existent/ insignificant	Moderate	Serious
1	Fabrics made of	- woven plastic	0	100	0
2		- plastic film	0	100	0
3		- jute/hessian	0	100	0
4		- cotton	0	100	0
5	Strings made of	- woven plastic	0	100	0
6		- plastic film	100	0	0
7		- jute/hessian	100	0	0
8		- cotton	0	100	0
9	Organic matter	- leaves, feathers, paper, leather etc.	100	0	0
10	Inorganic matter	- sand/dust	100	0	0
11		- rust	100	0	0
12		- metal/wire	100	0	0
13	Oily substances/chemicals	- grease/oil	100	0	0
14		- rubber	100	0	0
15		- stamp colour	100	0	0
16		- tar	100	0	0
Ave	erage of 1-16		63	37	0
		No (%) Yes(%)		No (%)	Yes(%)
	Stickiness	100 0	Seed-coat fragments	100	0

Table 9 2016

	Country Malawi	Growth: Malawi	Number of samples:		
			Degree of contamination (%)		
	Source of contamination		Non- existent/ insignificant	Moderate	Serious
1	Fabrics made of	- woven plastic	0	100	0
2		- plastic film	0	100	0
3		- jute/hessian	0	100	0
4		- cotton	0	100	0
5	Strings made of	- woven plastic	0	100	0
6		- plastic film	100	0	0
7		- jute/hessian	100	0	0
8		- cotton	100	0	0
9	Organic matter	- leaves, feathers, paper, leather etc.	100	0	0
10	Inorganic matter	- sand/dust	100	0	0
11		- rust	100	0	0
12		- metal/wire	100	0	0
13	Oily substances/chemicals	- grease/oil	100	0	0
14		- rubber	100	0	0
15		- stamp colour	100	0	0
16		- tar	100	0	0
Ave	erage of 1-16		69	31	0
		No (%) Yes(%)		No (%)	Yes(%)
	Stickiness	100 0	Seed-coat fragments	100	0

Table 10 2016

Country Mali		Country Mali Growth: Mali			oles: 8
		Degree of conta	amination (%	6)	
	Source of contamination		Non- existent/ insignificant	Moderate	Serious
1	Fabrics made of	- woven plastic	63	12	25
2		- plastic film	63	12	25
3		- jute/hessian	100	0	0
4		- cotton	75	25	0
5	Strings made of	- woven plastic	63	12	25
6		- plastic film	63	25	12
7		- jute/hessian	88	12	0
8		- cotton	88	12	0
9	Organic matter	- leaves, feathers, paper, leather etc.	63	25	12
10	Inorganic matter	- sand/dust	88	12	0
11		- rust	100	0	0
12		- metal/wire	88	12	0
13	Oily substances/chemicals	- grease/oil	88	12	0
14		- rubber	100	0	0
15		- stamp colour	100	0	0
16		- tar	100	0	0
Ave	erage of 1-16		83	11	6
		N (01) N (01)		N (04)) (a)
		No (%) Yes(%)		No (%)	Yes(%)
	Stickiness	88 12	Seed-coat fragments	50	50

Table 11 2016

Co	country Mozambique Growth: Mozambique		Number of sar	nples: 1	
			Degree of contamination (%)		6)
	Source of contamination		Non- existent/ insignificant	Moderate	Serious
1	Fabrics made of	- woven plastic	0	100	0
2		- plastic film	0	100	0
3		- jute/hessian	100	0	0
4		- cotton	100	0	0
5	Strings made of	- woven plastic	100	0	0
6		- plastic film	0	100	0
7		- jute/hessian	100	0	0
8		- cotton	0	100	0
9	Organic matter	- leaves, feathers, paper, leather etc.	0	100	0
10	Inorganic matter	- sand/dust	100	0	0
11		- rust	100	0	0
12		- metal/wire	100	0	0
13	Oily substances/chemicals	- grease/oil	100	0	0
14		- rubber	100	0	0
15		- stamp colour	100	0	0
16		- tar	100	0	0
Ave	erage of 1-16		69	31	0
		No (%) Yes(%)		No (%)	Yes(%)
	Stickiness	100 0	Seed-coat fragments	100	0

Table 12 2016

Country Nigeria	Growth: Nigeria	Number of samples: 2		
		Degree of contamination (%)		
Source of contamination		Non- existent/ insignificant	Moderate	Serious
1 Fabrics made of	- woven plastic	0	50	50
2	- plastic film	0	50	50
3	- jute/hessian	0	100	0
4	- cotton	0	50	50
5 Strings made of	- woven plastic	0	0	100
6	- plastic film	0	50	50
7	- jute/hessian	0	100	0
8	- cotton	0	50	50
9 Organic matter	- leaves, feathers, paper, leather etc.	0	100	0
10 Inorganic matter	- sand/dust	50	50	0
11	- rust	50	50	0
12	- metal/wire	50	50	0
13 Oily substances/chemicals	- grease/oil	100	0	0
14	- rubber	100	0	0
15	- stamp colour	100	0	0
16	- tar	100	0	0
Average of 1-16		34	44	22
	No (9/) Voo(9/)		No (0()	Vaa(0/)
	No (%) Yes(%)		No (%)	Yes(%)
Stickiness	100 0	Seed-coat fragments	0	100

Table 13 2016

	Country Senegal	Growth: Senegal	Number of samples: 1		
			Degree of conta	amination (%	b)
	Source of contamination		Non- existent/ insignificant	Moderate	Serious
1	Fabrics made of	- woven plastic	100	0	0
2		- plastic film	100	0	0
3		- jute/hessian	100	0	0
4		- cotton	100	0	0
5	Strings made of	- woven plastic	100	0	0
6		- plastic film	0	100	0
7		- jute/hessian	100	0	0
8		- cotton	100	0	0
9	Organic matter	- leaves, feathers, paper, leather etc.	0	100	0
10	Inorganic matter	- sand/dust	100	0	0
11		- rust	100	0	0
12		- metal/wire	100	0	0
13	Oily substances/chemicals	- grease/oil	100	0	0
14		- rubber	100	0	0
15		- stamp colour	100	0	0
16		- tar	100	0	0
Ave	erage of 1-16		88	12	0
		No (%) Yes(%)		No (%)	Yes(%)
	Stickiness	100 0	Seed-coat fragments	0	100

Table 14 2016

С	Country South Africa Growth: South Africa Number of samples:					les: 4	
					Degree of contamination (%)		
	Source of contamination				Non- existent/ insignificant	Moderate	Serious
1	Fabrics made of	- woven p	lastic	•	50	0	50
2		- plastic fi	lm		50	50	0
3		- jute/hes	sian		50	25	25
4		- cotton			50	25	25
5	Strings made of	- woven p	lastic		75	25	0
6		- plastic fi	lm		50	50	0
7		- jute/hes	sian		75	0	25
8		- cotton			75	0	25
9	Organic matter	- leaves, f	eathers, paper, leather etc		25	75	0
10	Inorganic matter	- sand/du	st		75	0	25
11		- rust			75	0	25
12		- metal/wi	re		75	25	0
13	Oily substances/chemicals	- grease/o	pil		100	0	0
14		- rubber			100	0	0
15		- stamp c	olour		100	0	0
16		- tar			100	0	0
Av	erage of 1-16				70	17	13
				_			
		No (%)	Yes(%)			No (%)	Yes(%)
	Stickiness	50	50		Seed-coat fragments	50	50

Table 15 2016

Country Sudan	Growth: Barakat	Number of samples:		
		Degree of conta	mination (%	5)
Source of contamination		Non- existent/ insignificant	Moderate	Serious
1 Fabrics made of	- woven plastic	0	100	0
2	- plastic film	100	0	0
3	- jute/hessian	100	0	0
4	- cotton	0	100	0
5 Strings made of	- woven plastic	100	0	0
6	- plastic film	100	0	0
7	- jute/hessian	0	100	0
8	- cotton	0	100	0
9 Organic matter	- leaves, feathers, paper, leather etc.	0	0	100
10 Inorganic matter	- sand/dust	0	100	0
11	- rust	100	0	0
12	- metal/wire	0	100	0
13 Oily substances/chemicals	- grease/oil	0	0	100
14	- rubber	100	0	0
15	- stamp colour	0	100	0
16	- tar	100	0	0
Average of 1-16		44	44	12
	No (0/) Voo(0/)		No (0/)	Vaa(0/)
0 :: 1 :	No (%) Yes(%)		No (%)	Yes(%)
Stickiness	0 100	Seed-coat fragments	0	100

Table 16 2016

	Country Tanzania	Growth: Coastal	Number of samples: 3			
			Degree of conta	amination (%	b)	
	Source of contamination		Non- existent/ insignificant	Moderate	Serious	
1	Fabrics made of	- woven plastic	67	33	0	
2		- plastic film	33	67	0	
3		- jute/hessian	33	67	0	
4		- cotton	33	67	0	
5	Strings made of	- woven plastic	67	33	0	
6		- plastic film	33	67	0	
7		- jute/hessian	0	100	0	
8		- cotton	67	33	0	
9	Organic matter	- leaves, feathers, paper, leather etc.	33	67	0	
10	Inorganic matter	- sand/dust	0	100	0	
11		- rust	67	33	0	
12		- metal/wire	100	0	0	
13	Oily substances/chemicals	- grease/oil	67	33	0	
14		- rubber	67	33	0	
15		- stamp colour	67	33	0	
16		- tar	100	0	0	
Av	erage of 1-16		52	48	0	
		No (%) Yes(%)		No (%)	Yes(%)	
	Stickiness	100 0	Seed-coat fragments	33	67	

Table 17 2016

	Country Tanzania	Growth: Mwanza	Number of samples:		
			Degree of conta	amination (%	6)
	Source of contamination		Non- existent/ insignificant	Moderate	Serious
1	Fabrics made of	- woven plastic	100	0	0
2		- plastic film	0	100	0
3		- jute/hessian	0	0	100
4		- cotton	0	100	0
5	Strings made of	- woven plastic	100	0	0
6		- plastic film	100	0	0
7		- jute/hessian	0	100	0
8		- cotton	0	100	0
9	Organic matter	- leaves, feathers, paper, leather etc.	0	100	0
10	Inorganic matter	- sand/dust	0	100	0
11		- rust	0	100	0
12		- metal/wire	0	100	0
13	Oily substances/chemicals	- grease/oil	100	0	0
14		- rubber	100	0	0
15		- stamp colour	100	0	0
16		- tar	100	0	0
Ave	erage of 1-16		44	50	6
		No (%) Yes(%)		No (%)	Yes(%)
	Stickiness	100 0	Seed-coat fragments	100	0

Table 18 2016

Country Togo		Growth: Togo	Number of samples: 4		
			Degree of conta	amination (%	6)
Source of contami	nation		Non- existent/ insignificant	Moderate	Serious
1 Fabrics made of	- woven	plastic	50	25	25
2	- plastic f	film	75	25	0
3	- jute/hes	ssian	75	25	0
4	- cotton		75	25	0
5 Strings made of	- woven	plastic	50	25	25
6	- plastic f	film	50	50	0
7	- jute/hes	ssian	50	50	0
8	- cotton		75	25	0
9 Organic matter	- leaves,	feathers, paper, leather etc.	25	75	0
10 Inorganic matter	- sand/dı	ust	50	50	0
11	- rust		100	0	0
12	- metal/w	vire	100	0	0
13 Oily substances/che	emicals - grease/	oil oil	75	25	0
14	- rubber		100	0	0
15	- stamp o	colour	75	25	0
16	- tar		100	0	0
Average of 1-16			70	27	3
	NI (04)	\(\frac{1}{2} = \frac{1}{2} \rightarrow \)	•	NI- (0()	V = = (0/.)
-	No (%)	Yes(%)		No (%)	Yes(%)
Stickiness	75	25	Seed-coat fragments	0	100

2016 Table 19

Country Uganda	Growth: Uganda	Number of samples: 1			
_		Degree of contamination (%)			
Source of contamination		Non- existent/ insignificant	Moderate	Serious	
1 Fabrics made of	- woven plastic	0	0	100	
2	- plastic film	0	0	100	
3	- jute/hessian	0	0	100	
4	- cotton	0	0	100	
5 Strings made of	- woven plastic	100	0	0	
6	- plastic film	0	0	100	
7	- jute/hessian	0	0	100	
8	- cotton	0	0	100	
9 Organic matter	- leaves, feathers, paper, leather etc.	0	0	100	
10 Inorganic matter	- sand/dust	0	0	100	
11	- rust	0	0	100	
12	- metal/wire	100	0	0	
13 Oily substances/chemicals	- grease/oil	100	0	0	
14	- rubber	100	0	0	
15	- stamp colour	100	0	0	
16	- tar	100	0	0	
Average of 1-16		38	0	62	
	No (%) Yes(%)	<u> </u>	No (%)	Yes(%)	
Stickiness	100 0	Seed-coat fragments	0	100	

Country Zambia	Growth: Zambia	Number of samples:		
		Degree of contamination (%)		
Source of contamination		Non- existent/ insignificant	Moderate	Serious
1 Fabrics made of	- woven plastic	0	100	0
2	- plastic film	0	100	0
3	- jute/hessian	0	100	0
4	- cotton	100	0	0
5 Strings made of	- woven plastic	0	100	0
6	- plastic film	0	100	0
7	- jute/hessian	0	100	0
8	- cotton	100	0	0
9 Organic matter	- leaves, feathers, paper, leather etc.	0	100	0
10 Inorganic matter	- sand/dust	100	0	0
11	- rust	100	0	0
12	- metal/wire	0	0	100
13 Oily substances/chemicals	- grease/oil	100	0	0
14	- rubber	100	0	0
15	- stamp colour	100	0	0
16	- tar	100	0	0
Average of 1-16		50	44	6
	No (%) Yes(%)		No (%)	Yes(%)
Stickiness	100 0	Seed-coat fragments	0	100

	Country Zimbabwe	Growth: Zimbabwe	Nun	nber of samp	les: 4
			Degree of conta	amination (%	b)
	Source of contamination		Non- existent/ insignificant	Moderate	Serious
1	Fabrics made of	- woven plastic	75	25	0
2		- plastic film	25	75	0
3		- jute/hessian	50	50	0
4		- cotton	100	0	0
5	Strings made of	- woven plastic	75	25	0
6		- plastic film	50	50	0
7		- jute/hessian	75	25	0
8		- cotton	75	25	0
9	Organic matter	- leaves, feathers, paper, leather etc.	25	75	0
10	Inorganic matter	- sand/dust	75	25	0
11		- rust	75	25	0
12		- metal/wire	100	0	0
13	Oily substances/chemicals	- grease/oil	100	0	0
14		- rubber	100	0	0
15		- stamp colour	100	0	0
16		- tar	100	0	0
Av	erage of 1-16		75	25	0
		No (%) Yes(%)		No (%)	Yes(%)
	Stickiness	100 0	Seed-coat fragments	100	0

2016 Table 22

Country Mexico	Growth: Juarez	Number of samples: 4		
		Degree of contamination (%)		
Source of contamination		Non- existent/ insignificant	Moderate	Serious
1 Fabrics made of	- woven plastic	100	0	0
2	- plastic film	100	0	0
3	- jute/hessian	100	0	0
4	- cotton	100	0	0
5 Strings made of	- woven plastic	100	0	0
6	- plastic film	100	0	0
7	- jute/hessian	100	0	0
8	- cotton	100	0	0
9 Organic matter	- leaves, feathers, paper, leather etc.	75	25	0
10 Inorganic matter	- sand/dust	75	0	25
11	- rust	100	0	0
12	- metal/wire	75	25	0
13 Oily substances/chemicals	- grease/oil	75	25	0
14	- rubber	100	0	0
15	- stamp colour	100	0	0
16	- tar	100	0	0
Average of 1-16		94	5	1
	No (%) Yes(%)		No (%)	Yes(%)
Stickiness	75 25	Seed-coat fragments	75	25

	Country Mexico	Growth: Laguna/Delicias	Number of samples:		
			Degree of conta	mination (%	5)
	Source of contamination		Non- existent/ insignificant	Moderate	Serious
1	Fabrics made of	- woven plastic	34	33	33
2		- plastic film	34	33	33
3		- jute/hessian	67	33	0
4		- cotton	67	33	0
5	Strings made of	- woven plastic	34	33	33
6		- plastic film	34	33	33
7		- jute/hessian	100	0	0
8		- cotton	100	0	0
9	Organic matter	- leaves, feathers, paper, leather etc.	100	0	0
10	Inorganic matter	- sand/dust	67	33	0
11		- rust	67	33	0
12		- metal/wire	67	33	0
13	Oily substances/chemicals	- grease/oil	100	0	0
14		- rubber	100	0	0
15		- stamp colour	67	33	0
16		- tar	100	0	0
Ave	erage of 1-16		71	21	8
		No (%) Yes(%)		No (%)	Yes(%)
	Stickiness	75 25	Seed-coat fragments	75	25

2016 Table 24

Country Mexico	Growth: Mexico-Others	Number of samples: 1		
		Degree of contamination (%)		
Source of contamination		Non- existent/ insignificant	Moderate	Serious
1 Fabrics made of	- woven plastic	0	0	100
2	- plastic film	0	100	0
3	- jute/hessian	100	0	0
4	- cotton	100	0	0
5 Strings made of	- woven plastic	100	0	0
6	- plastic film	100	0	0
7	- jute/hessian	100	0	0
8	- cotton	100	0	0
9 Organic matter	- leaves, feathers, paper, leather etc.	0	100	0
10 Inorganic matter	- sand/dust	100	0	0
11	- rust	100	0	0
12	- metal/wire	100	0	0
13 Oily substances/chemicals	- grease/oil	100	0	0
14	- rubber	100	0	0
15	- stamp colour	100	0	0
16	- tar	100	0	0
Average of 1-16		81	13	6
	No (%) Yes(%)		No (%)	Yes(%)
Stickiness	100 0	Seed-coat fragments	100	0

	Country U.S.A.	Growth: Arizona	Numb	er of sample	s: 14
			Degree of conta	amination (%	6)
	Source of contamination		Non- existent/ insignificant	Moderate	Serious
1	Fabrics made of	- woven plastic	100	0	0
2		- plastic film	93	0	7
3		- jute/hessian	100	0	0
4		- cotton	100	0	0
5	Strings made of	- woven plastic	93	7	0
6		- plastic film	93	7	0
7		- jute/hessian	93	7	0
8		- cotton	100	0	0
9	Organic matter	- leaves, feathers, paper, leather etc.	64	29	7
10	Inorganic matter	- sand/dust	79	21	0
11		- rust	100	0	0
12		- metal/wire	100	0	0
13	Oily substances/chemicals	- grease/oil	100	0	0
14		- rubber	100	0	0
15		- stamp colour	100	0	0
16		- tar	100	0	0
Ave	erage of 1-16		95	4	1
		No (%) Yes(%)		No (%)	Yes(%)
	Stickiness	71 29	Seed-coat fragments	86	14

2016 Table 26

	Country U.S.A.	Growth: California	Number of samples:		es: 14
			Degree of conta	·)	
	Source of contamination		Non- existent/ insignificant	Moderate	Serious
1	Fabrics made of	- woven plastic	100	0	0
2		- plastic film	88	6	6
3		- jute/hessian	100	0	0
4		- cotton	88	12	0
5	Strings made of	- woven plastic	94	6	0
6		- plastic film	94	6	0
7		- jute/hessian	88	12	0
8		- cotton	100	0	0
9	Organic matter	- leaves, feathers, paper, leather etc.	71	23	6
10	Inorganic matter	- sand/dust	88	12	0
11		- rust	94	6	0
12		- metal/wire	100	0	0
13	Oily substances/chemicals	- grease/oil	94	6	0
14		- rubber	100	0	0
15		- stamp colour	94	6	0
16		- tar	100	0	0
Av	erage of 1-16		93	6	1
			_		
		No (%) Yes(%)		No (%)	Yes(%)
	Stickiness	76 24	Seed-coat fragments	76	24

Country U.S.A.	Growth: El Paso	Num	ber of samp	oles: 1
		Degree of conta	mination (%	6)
Source of contamination		Non- existent/ insignificant	Moderate	Serious
1 Fabrics made of	- woven plastic	100	0	0
2	- plastic film	0	0	100
3	- jute/hessian	100	0	0
4	- cotton	100	0	0
5 Strings made of	- woven plastic	100	0	0
6	- plastic film	0	100	0
7	- jute/hessian	100	0	0
8	- cotton	100	0	0
9 Organic matter	- leaves, feathers, paper, leather etc.	0	0	100
10 Inorganic matter	- sand/dust	0	100	0
11	- rust	100	0	0
12	- metal/wire	100	0	0
13 Oily substances/chemicals	- grease/oil	100	0	0
14	- rubber	100	0	0
15	- stamp colour	100	0	0
16	- tar	100	0	0
Average of 1-16		75	13	12
	No (%) Yes(%)		No (%)	Yes(%)
Stickiness	0 100	Seed-coat fragments	100	0

Table 28 2016

	Country U.S.A.	Growth: Memphis Territory	Number of samples:		es: 27
			Degree of conta	amination (%	b)
	Source of contamination		Non- existent/ insignificant	Moderate	Serious
1	Fabrics made of	- woven plastic	93	4	3
2		- plastic film	74	15	11
3		- jute/hessian	93	7	0
4		- cotton	89	11	0
5	Strings made of	- woven plastic	85	11	4
6		- plastic film	85	11	4
7		- jute/hessian	89	11	0
8		- cotton	96	4	0
9	Organic matter	- leaves, feathers, paper, leather etc.	74	19	7
10	Inorganic matter	- sand/dust	81	15	4
11		- rust	89	11	0
12		- metal/wire	85	15	0
13	Oily substances/chemicals	- grease/oil	93	7	0
14		- rubber	100	0	0
15		- stamp colour	93	7	0
16		- tar	96	4	0
Ave	erage of 1-16		88	10	2
		No (%) Yes(%)		No (%)	Yes(%)
	Stickiness	81 19	Seed-coat fragments	67	33

Table 29 2016

	Country U.S.A.	Growth: Pima	Numb	er of sample	es: 20
			Degree of contamination (%)		
	Source of contamination		Non- existent/ insignificant	Moderate	Serious
1	Fabrics made of	- woven plastic	95	5	0
2		- plastic film	95	0	5
3		- jute/hessian	100	0	0
4		- cotton	100	0	0
5	Strings made of	- woven plastic	85	15	0
6		- plastic film	95	5	0
7		- jute/hessian	90	10	0
8		- cotton	90	5	5
9	Organic matter	- leaves, feathers, paper, leather etc.	70	20	10
10	Inorganic matter	- sand/dust	95	5	0
11		- rust	95	5	0
12		- metal/wire	95	5	0
13	Oily substances/chemicals	- grease/oil	95	5	0
14		- rubber	100	0	0
15		- stamp colour	95	5	0
16		- tar	100	0	0
Av	erage of 1-16		94	5	1
		No (%) Yes(%)		No (%)	Yes(%)
	Stickiness	50 50	Seed-coat fragments	90	10

Table 30 2016

	Country U.S.A.	Growth: Rio Grande Valley	Number of samples:		
	-		Degree of conta	amination (%	6)
	Source of contamination		Non- existent/ insignificant	Moderate	Serious
1	Fabrics made of	- woven plastic	50	0	50
2		- plastic film	50	0	50
3		- jute/hessian	100	0	0
4		- cotton	100	0	0
5	Strings made of	- woven plastic	50	0	50
6		- plastic film	0	100	0
7		- jute/hessian	100	0	0
8		- cotton	100	0	0
9	Organic matter	- leaves, feathers, paper, leather etc.	50	0	50
10	Inorganic matter	- sand/dust	50	50	0
11		- rust	100	0	0
12		- metal/wire	100	0	0
13	Oily substances/chemicals	- grease/oil	100	0	0
14		- rubber	100	0	0
15		- stamp colour	100	0	0
16		- tar	100	0	0
Ave	erage of 1-16		78	9	13
		No (%) Yes(%)		No (%)	Yes(%)
	Stickiness	50 50	Seed-coat fragments	100	0

Table 31 2016

	Country U.S.A.	Growth: South Eastern	Num	nber of samp	oles: 9
			Degree of conta	amination (%	6)
	Source of contamination		Non- existent/ insignificant	Moderate	Serious
1	Fabrics made of	- woven plastic	89	0	11
2		- plastic film	67	11	22
3		- jute/hessian	100	0	0
4		- cotton	100	0	0
5	Strings made of	- woven plastic	67	22	11
6		- plastic film	67	22	11
7		- jute/hessian	100	0	0
8		- cotton	100	0	0
9	Organic matter	- leaves, feathers, paper, leather etc.	67	22	11
10	Inorganic matter	- sand/dust	89	11	0
11		- rust	89	11	0
12		- metal/wire	89	11	0
13	Oily substances/chemicals	- grease/oil	89	11	0
14		- rubber	100	0	0
15		- stamp colour	100	0	0
16		- tar	100	0	0
Ave	rage of 1-16		88	8	4
		No (%) Yes(%)		No (%)	Yes(%)
	Stickiness	67 33	Seed-coat fragments	67	33

Table 32 2016

	Country U.S.A.	Growth: Texas High Plains	Numb	er of sample	es: 15
			Degree of conta	mination (%	a)
	Source of contamination		Non- existent/ insignificant	Moderate	Serious
1	Fabrics made of	- woven plastic	80	20	0
2		- plastic film	67	27	6
3		- jute/hessian	93	7	0
4		- cotton	93	7	0
5	Strings made of	- woven plastic	87	13	0
6		- plastic film	73	27	0
7		- jute/hessian	93	7	0
8		- cotton	93	7	0
9	Organic matter	- leaves, feathers, paper, leather etc.	80	13	7
10	Inorganic matter	- sand/dust	67	33	0
11		- rust	87	7	7
12		- metal/wire	93	7	0
13	Oily substances/chemicals	- grease/oil	87	7	7
14		- rubber	93	7	0
15		- stamp colour	87	13	0
16		- tar	100	0	0
Ave	erage of 1-16		86	12	2
		No (%) Yes(%)		No (%)	Yes(%)
	Stickiness	87 13	Seed-coat fragments	73	27

Table 33 2016

	Country U.S.A.	Growth: USA-Others	Number of samples:		
			Degree of contamination (%)		
	Source of contamination		Non- existent/ insignificant	Moderate	Serious
1	Fabrics made of	- woven plastic	93	7	0
2		- plastic film	73	20	7
3		- jute/hessian	87	13	0
4		- cotton	100	0	0
5	Strings made of	- woven plastic	87	13	0
6		- plastic film	80	20	0
7		- jute/hessian	87	13	0
8		- cotton	93	7	0
9	Organic matter	- leaves, feathers, paper, leather etc.	60	27	13
10	Inorganic matter	- sand/dust	87	13	0
11		- rust	93	7	0
12		- metal/wire	93	7	0
13	Oily substances/chemicals	- grease/oil	100	0	0
14		- rubber	93	7	0
15		- stamp colour	100	0	0
16		- tar	100	0	0
Ave	erage of 1-16		89	10	1
		No (%) Yes(%)		No (%)	Yes(%)
	Stickiness	93 7	Seed-coat fragments	93	7

America, South

2016 Table 34

	Country Argentina	Growth: Argentina	Num	ber of samp	oles: 5
			Degree of conta	amination (%	a)
	Source of contamination		Non- existent/ insignificant	Moderate	Serious
1	Fabrics made of	- woven plastic	80	20	0
2		- plastic film	80	20	0
3		- jute/hessian	80	20	0
4		- cotton	60	20	20
5	Strings made of	- woven plastic	100	0	0
6		- plastic film	80	20	0
7		- jute/hessian	80	20	0
8		- cotton	60	20	20
9	Organic matter	- leaves, feathers, paper, leather etc.	0	80	20
10	Inorganic matter	- sand/dust	60	40	0
11		- rust	80	20	0
12		- metal/wire	100	0	0
13	Oily substances/chemicals	- grease/oil	80	20	0
14		- rubber	100	0	0
15		- stamp colour	100	0	0
16		- tar	100	0	0
Ave	erage of 1-16		77	19	4
		No (%) Yes(%)		No (%)	Yes(%)
	Stickiness	100 0	Seed-coat fragments	60	40

Country Brazil	Growth: Brazil	Number of samples:		
		Degree of contamination (%)		
Source of contamination		Non- existent/ insignificant	Moderate	Serious
1 Fabrics made of	- woven plastic	96	4	0
2	- plastic film	91	5	4
3	- jute/hessian	91	9	0
4	- cotton	87	9	4
5 Strings made of	- woven plastic	91	9	0
6	- plastic film	78	18	4
7	- jute/hessian	83	17	0
8	- cotton	87	9	4
9 Organic matter	- leaves, feathers, paper, leather etc.	61	35	4
10 Inorganic matter	- sand/dust	83	17	0
11	- rust	91	9	0
12	- metal/wire	96	0	4
13 Oily substances/chemicals	- grease/oil	96	4	0
14	- rubber	100	0	0
15	- stamp colour	100	0	0
16	- tar	100	0	0
Average of 1-16		89	9	2
	No (%) Yes(%)		No (%)	Yes(%)
Stickiness	61 39	Seed-coat fragments	74	26

America, South

Table 36 2016

	Country Colombia	Growth: Coastal	Number of samples: 1		
			Degree of contamination (%)		
	Source of contamination		Non- existent/ insignificant	Moderate	Serious
1	Fabrics made of	- woven plastic	0	100	0
2		- plastic film	0	100	0
3		- jute/hessian	0	100	0
4		- cotton	0	0	100
5	Strings made of	- woven plastic	0	100	0
6		- plastic film	100	0	0
7		- jute/hessian	0	100	0
8		- cotton	0	100	0
9	Organic matter	- leaves, feathers, paper, leather etc.	0	0	100
10	Inorganic matter	- sand/dust	0	100	0
11		- rust	100	0	0
12		- metal/wire	100	0	0
13	Oily substances/chemicals	- grease/oil	0	0	100
14		- rubber	0	100	0
15		- stamp colour	0	100	0
16		- tar	100	0	0
Ave	erage of 1-16		25	56	19
		N (0) N (0)		N. (0/)) (a()
		No (%) Yes(%)		No (%)	Yes(%)
	Stickiness	0 100	Seed-coat fragments	100	0

Table 37 2016

	Country Paraguay	Growth: Paraguay	Number of samples: 2			
			Degree of conta	Degree of contamination (%)		
	Source of contamination		Non- existent/ insignificant	Moderate	Serious	
1	Fabrics made of	- woven plastic	50	50	0	
2		- plastic film	50	50	0	
3		- jute/hessian	50	50	0	
4		- cotton	100	0	0	
5	Strings made of	- woven plastic	0	100	0	
6		- plastic film	50	50	0	
7		- jute/hessian	100	0	0	
8		- cotton	100	0	0	
9	Organic matter	- leaves, feathers, paper, leather etc.	50	50	0	
10	Inorganic matter	- sand/dust	50	50	0	
11		- rust	100	0	0	
12		- metal/wire	100	0	0	
13	Oily substances/chemicals	- grease/oil	100	0	0	
14		- rubber	100	0	0	
15		- stamp colour	100	0	0	
16		- tar	100	0	0	
Av	erage of 1-16		75	25	0	
		No (%) Yes(%)		No (%)	Yes(%)	
	Stickiness	50 50	Seed-coat fragments	50	50	

Table 38 2016

	Country Australia	Growth: Australia	Number of samples: 2		
			Degree of conta	amination (%	6)
	Source of contamination		Non- existent/ insignificant	Moderate	Serious
1	Fabrics made of	- woven plastic	96	4	0
2		- plastic film	96	4	0
3		- jute/hessian	100	0	0
4		- cotton	100	0	0
5	Strings made of	- woven plastic	96	4	0
6		- plastic film	91	9	0
7		- jute/hessian	91	9	0
8		- cotton	100	0	0
9	Organic matter	- leaves, feathers, paper, leather etc.	87	9	4
10	Inorganic matter	- sand/dust	91	4	4
11		- rust	91	9	0
12		- metal/wire	100	0	0
13	Oily substances/chemicals	- grease/oil	91	9	0
14		- rubber	100	0	0
15		- stamp colour	96	4	0
16		- tar	100	0	0
Ave	erage of 1-16		95	4	1
		No (%) Yes(%)		No (%)	Yes(%)
	Stickiness	91 9	Seed-coat fragments	91	9

Table 39 2016

	Country China	Growth: Anhui	Number of samples: 4		
			Degree of contamination (%)		
	Source of contamination		Non- existent/ insignificant	Moderate	Serious
1	Fabrics made of	- woven plastic	75	25	0
2		- plastic film	50	50	0
3		- jute/hessian	100	0	0
4		- cotton	25	50	25
5	Strings made of	- woven plastic	100	0	0
6		- plastic film	75	25	0
7		- jute/hessian	75	25	0
8		- cotton	75	25	0
9	Organic matter	- leaves, feathers, paper, leather etc.	50	50	0
10	Inorganic matter	- sand/dust	75	25	0
11		- rust	75	25	0
12		- metal/wire	75	25	0
13	Oily substances/chemicals	- grease/oil	75	25	0
14		- rubber	100	0	0
15		- stamp colour	100	0	0
16		- tar	100	0	0
Av	erage of 1-16		77	22	1
·					
		No (%) Yes(%)		No (%)	Yes(%)
	Stickiness	100 0	Seed-coat fragments	75	25

Table 40 2016

	Country China	Growth: Hebei	Number of samples: 1		
			Degree of contamination (%)		
	Source of contamination		Non- existent/ insignificant	Moderate	Serious
1	Fabrics made of	- woven plastic	58	42	0
2		- plastic film	50	50	0
3		- jute/hessian	83	17	0
4		- cotton	67	33	0
5	Strings made of	- woven plastic	75	25	0
6		- plastic film	92	8	0
7		- jute/hessian	75	25	0
8		- cotton	92	8	0
9	Organic matter	- leaves, feathers, paper, leather etc.	58	42	0
10	Inorganic matter	- sand/dust	33	67	0
11		- rust	50	50	0
12		- metal/wire	92	8	0
13	Oily substances/chemicals	- grease/oil	100	0	0
14		- rubber	100	0	0
15		- stamp colour	75	25	0
16		- tar	83	17	0
Ave	erage of 1-16		74	26	0
		No (%) Yes(%)		No (%)	Yes(%)
	Stickiness	100 0	Seed-coat fragments	100	0

Table 41 2016

	Country China	Growth: Henan	Number of samples: 8		
	Degree of contamination (%)			6)	
	Source of contamination		Non- existent/ insignificant	Moderate	Serious
1	Fabrics made of	- woven plastic	63	37	0
2		- plastic film	50	50	0
3		- jute/hessian	100	0	0
4		- cotton	63	37	0
5	Strings made of	- woven plastic	100	0	0
6		- plastic film	100	0	0
7		- jute/hessian	100	0	0
8		- cotton	100	0	0
9	Organic matter	- leaves, feathers, paper, leather etc.	88	12	0
10	Inorganic matter	- sand/dust	50	50	0
11		- rust	88	12	0
12		- metal/wire	100	0	0
13	Oily substances/chemicals	- grease/oil	75	25	0
14		- rubber	88	12	0
15		- stamp colour	100	0	0
16		- tar	100	0	0
Av	erage of 1-16		85	15	0
		No (%) Yes(%)		No (%)	Yes(%)
	Stickiness	100 0	Seed-coat fragments	100	0

2016 Table 42

	Country China	Growth: Hubei	Number of samples: 9		
			Degree of contamination (%)		
	Source of contamination		Non- existent/ insignificant	Moderate	Serious
1	Fabrics made of	- woven plastic	78	22	0
2		- plastic film	78	22	0
3		- jute/hessian	100	0	0
4		- cotton	56	44	0
5	Strings made of	- woven plastic	89	11	0
6		- plastic film	67	33	0
7		- jute/hessian	100	0	0
8		- cotton	89	11	0
9	Organic matter	- leaves, feathers, paper, leather etc.	78	22	0
10	Inorganic matter	- sand/dust	78	22	0
11		- rust	89	11	0
12		- metal/wire	67	33	0
13	Oily substances/chemicals	- grease/oil	100	0	0
14		- rubber	89	11	0
15		- stamp colour	100	0	0
16		- tar	100	0	0
Ave	erage of 1-16		85	15	0
		No (%) Yes(%)		No (%)	Yes(%)
	Stickiness	100 0	Seed-coat fragments	89	11

2016 Table 43

	Country China	Growth: Jiangsu	Number of samples: 1		
	-		Degree of conta	amination (%	6)
	Source of contamination		Non- existent/ insignificant	Moderate	Serious
1	Fabrics made of	- woven plastic	100	0	0
2		- plastic film	100	0	0
3		- jute/hessian	100	0	0
4		- cotton	100	0	0
5	Strings made of	- woven plastic	100	0	0
6		- plastic film	100	0	0
7		- jute/hessian	100	0	0
8		- cotton	100	0	0
9	Organic matter	- leaves, feathers, paper, leather etc.	100	0	0
10	Inorganic matter	- sand/dust	100	0	0
11		- rust	100	0	0
12		- metal/wire	100	0	0
13	Oily substances/chemicals	- grease/oil	100	0	0
14		- rubber	100	0	0
15		- stamp colour	100	0	0
16		- tar	100	0	0
Ave	erage of 1-16		100	0	0
		No (%) Yes(%)		No (%)	Yes(%)
	Stickiness	100 0	Seed-coat fragments	100	0

Table 44 2016

	Country China	Growth: China-Others	Number of samples:		
			Degree of contamination (%)		
	Source of contamination		Non- existent/ insignificant	Moderate	Serious
1	Fabrics made of	- woven plastic	75	0	25
2		- plastic film	50	50	0
3		- jute/hessian	100	0	0
4		- cotton	50	50	0
5	Strings made of	- woven plastic	75	0	25
6		- plastic film	50	50	0
7		- jute/hessian	100	0	0
8		- cotton	75	25	0
9	Organic matter	- leaves, feathers, paper, leather etc.	25	50	25
10	Inorganic matter	- sand/dust	50	50	0
11		- rust	100	0	0
12		- metal/wire	100	0	0
13	Oily substances/chemicals	- grease/oil	100	0	0
14		- rubber	100	0	0
15		- stamp colour	100	0	0
16		- tar	100	0	0
Ave	erage of 1-16		78	17	5
		No (%) Yes(%)		No (%)	Yes(%)
	Stickiness	100 0	Seed-coat fragments	100	0

Table 45 2016

	Country China	Growth: Shandong	Num	ber of samp	oles: 9
			Degree of contamination (%)		
	Source of contamination		Non- existent/ insignificant	Moderate	Serious
1	Fabrics made of	- woven plastic	78	22	0
2		- plastic film	89	11	0
3		- jute/hessian	89	11	0
4		- cotton	89	11	0
5	Strings made of	- woven plastic	89	11	0
6		- plastic film	78	22	0
7		- jute/hessian	100	0	0
8		- cotton	100	0	0
9	Organic matter	- leaves, feathers, paper, leather etc.	89	11	0
10	Inorganic matter	- sand/dust	78	22	0
11		- rust	78	22	0
12		- metal/wire	100	0	0
13	Oily substances/chemicals	- grease/oil	100	0	0
14		- rubber	100	0	0
15		- stamp colour	100	0	0
16		- tar	100	0	0
Ave	erage of 1-16		91	9	0
		No (%) Yes(%)		No (%)	Yes(%)
	Stickiness	100 0	Seed-coat fragments	100	0

Table 46 2016

	Country China	Growth: Xinjiang	Number of samples: 2		s: 21
			Degree of contamination (%)		5)
	Source of contamination		Non- existent/ insignificant	Moderate	Serious
1	Fabrics made of	- woven plastic	71	24	5
2		- plastic film	71	24	5
3		- jute/hessian	95	0	5
4		- cotton	90	5	5
5	Strings made of	- woven plastic	90	5	5
6		- plastic film	81	14	5
7		- jute/hessian	90	5	5
8		- cotton	95	0	5
9	Organic matter	- leaves, feathers, paper, leather etc.	95	0	5
10	Inorganic matter	- sand/dust	86	10	5
11		- rust	95	0	5
12		- metal/wire	90	5	5
13	Oily substances/chemicals	- grease/oil	95	0	5
14		- rubber	90	5	5
15		- stamp colour	95	0	5
16		- tar	95	0	5
Ave	erage of 1-16		89	6	5
		No (%) Yes(%)		No (%)	Yes(%)
	Stickiness	90 10	Seed-coat fragments	81	19

Table 47 2016

	Country India	Growth: DCH	Numb	er of sample	es: 13
			Degree of contamination (%)		
	Source of contamination		Non- existent/ insignificant	Moderate	Serious
1	Fabrics made of	- woven plastic	69	8	23
2		- plastic film	61	31	8
3		- jute/hessian	46	46	8
4		- cotton	54	38	8
5	Strings made of	- woven plastic	62	23	15
6		- plastic film	77	8	15
7		- jute/hessian	54	15	31
8		- cotton	62	23	15
9	Organic matter	- leaves, feathers, paper, leather etc.	39	23	38
10	Inorganic matter	- sand/dust	54	38	8
11		- rust	92	8	0
12		- metal/wire	85	15	0
13	Oily substances/chemicals	- grease/oil	77	23	0
14		- rubber	92	8	0
15		- stamp colour	69	31	0
16		- tar	92	8	0
Ave	erage of 1-16		68	22	10
		N (01)		N (0()) ((0 ()
		No (%) Yes(%)		No (%)	Yes(%)
	Stickiness	69 31	Seed-coat fragments	31	69

Table 48 2016

	Country India	Growth: F-414	Number of samples: 4		
			Degree of contamination (%)		
	Source of contamination		Non- existent/ insignificant	Moderate	Serious
1	Fabrics made of	- woven plastic	25	75	0
2		- plastic film	50	50	0
3		- jute/hessian	25	75	0
4		- cotton	75	25	0
5	Strings made of	- woven plastic	50	50	0
6		- plastic film	100	0	0
7		- jute/hessian	50	50	0
8		- cotton	75	25	0
9	Organic matter	- leaves, feathers, paper, leather etc.	25	50	25
10	Inorganic matter	- sand/dust	50	50	0
11		- rust	100	0	0
12		- metal/wire	100	0	0
13	Oily substances/chemicals	- grease/oil	100	0	0
14		- rubber	100	0	0
15		- stamp colour	100	0	0
16		- tar	100	0	0
Ave	erage of 1-16		70	28	2
		No (%) Yes(%)		No (%)	Yes(%)
	Stickiness	75 25	Seed-coat fragments	75	25

Table 49 2016

	Country India	Growth: H-4	Num	ber of samp	oles: 3
			Degree of conta	amination (%	6)
	Source of contamination		Non- existent/ insignificant	Moderate	Serious
1	Fabrics made of	- woven plastic	34	33	33
2		- plastic film	33	67	0
3		- jute/hessian	67	33	0
4		- cotton	67	33	0
5	Strings made of	- woven plastic	67	0	33
6		- plastic film	100	0	0
7		- jute/hessian	100	0	0
8		- cotton	67	33	0
9	Organic matter	- leaves, feathers, paper, leather etc.	33	0	67
10	Inorganic matter	- sand/dust	100	0	0
11		- rust	100	0	0
12		- metal/wire	100	0	0
13	Oily substances/chemicals	- grease/oil	100	0	0
14		- rubber	100	0	0
15		- stamp colour	100	0	0
16		- tar	100	0	0
Ave	erage of 1-16		79	13	8
		No (%) Yes(%)		No (%)	Yes(%)
	Stickiness	67 33	Seed-coat fragments	67	33

Table 50 2016

	Country India	Growth: J-34	Number of samples: 1		
	-		Degree of contamination (%)		
	Source of contamination		Non- existent/ insignificant	Moderate	Serious
1	Fabrics made of	- woven plastic	33	50	17
2		- plastic film	8	59	33
3		- jute/hessian	33	42	25
4		- cotton	42	50	8
5	Strings made of	- woven plastic	17	58	25
6		- plastic film	50	33	17
7		- jute/hessian	42	41	17
8		- cotton	34	58	8
9	Organic matter	- leaves, feathers, paper, leather etc.	25	33	42
10	Inorganic matter	- sand/dust	42	33	25
11		- rust	67	25	8
12		- metal/wire	83	0	17
13	Oily substances/chemicals	- grease/oil	75	25	0
14		- rubber	83	17	0
15		- stamp colour	75	17	8
16		- tar	84	8	8
Ave	erage of 1-16		50	34	16
		No (%) Yes(%)		No (%)	Yes(%)
	Stickiness	92 8	Seed-coat fragments	25	75

Table 51 2016

	Country India	Growth: LRA	Number of samples: 3		
			Degree of contamination (%)		
	Source of contamination		Non- existent/ insignificant	Moderate	Serious
1	Fabrics made of	- woven plastic	33	67	0
2		- plastic film	33	67	0
3		- jute/hessian	67	33	0
4		- cotton	67	33	0
5	Strings made of	- woven plastic	67	33	0
6		- plastic film	100	0	0
7		- jute/hessian	100	0	0
8		- cotton	67	33	0
9	Organic matter	- leaves, feathers, paper, leather etc.	67	0	33
10	Inorganic matter	- sand/dust	100	0	0
11		- rust	100	0	0
12		- metal/wire	100	0	0
13	Oily substances/chemicals	- grease/oil	100	0	0
14		- rubber	100	0	0
15		- stamp colour	100	0	0
16		- tar	100	0	0
Ave	erage of 1-16		81	17	2
		No (%) Yes(%)		No (%)	Yes(%)
	Stickiness	67 33	Seed-coat fragments	67	33

Table 52 2016

	Country India	Growth: MCU-5	Number of samples: 19		
			Degree of contamination (%)		
	Source of contamination		Non- existent/ insignificant	Moderate	Serious
1	Fabrics made of	- woven plastic	42	32	26
2		- plastic film	32	47	21
3		- jute/hessian	42	32	26
4		- cotton	42	58	0
5	Strings made of	- woven plastic	42	21	37
6		- plastic film	48	26	26
7		- jute/hessian	26	32	42
8		- cotton	32	63	5
9	Organic matter	- leaves, feathers, paper, leather etc.	21	42	37
10	Inorganic matter	- sand/dust	69	26	5
11		- rust	84	5	11
12		- metal/wire	74	16	10
13	Oily substances/chemicals	- grease/oil	79	21	0
14		- rubber	84	11	5
15		- stamp colour	84	5	11
16		- tar	84	11	5
Αv	erage of 1-16		55	28	17
		N (0)		N. (0()) (a)
		No (%) Yes(%)		No (%)	Yes(%)
	Stickiness	79 21	Seed-coat fragments	37	63

Table 53 2016

	Country India	Growth: India-Others	Numb	er of sample	es: 17
			Degree of conta	mination (%	6)
	Source of contamination		Non- existent/ insignificant	Moderate	Serious
1	Fabrics made of	- woven plastic	18	64	18
2		- plastic film	6	76	18
3		- jute/hessian	23	59	18
4		- cotton	35	53	12
5	Strings made of	- woven plastic	53	35	12
6		- plastic film	53	35	12
7		- jute/hessian	41	47	12
8		- cotton	35	59	6
9	Organic matter	- leaves, feathers, paper, leather etc.	35	35	30
10	Inorganic matter	- sand/dust	47	41	12
11		- rust	65	29	6
12		- metal/wire	71	23	6
13	Oily substances/chemicals	- grease/oil	65	29	6
14		- rubber	71	29	0
15		- stamp colour	76	24	0
16		- tar	82	18	0
Ave	erage of 1-16		49	41	10
		No (%) Yes(%)		No (%)	Yes(%)
	Stickiness	88 12	Seed-coat fragments	41	59

2016 Table 54

	Country India	Growth: Shankar-4/6	Number of samples:		es: 30
			Degree of contamination (%)		
	Source of contamination		Non- existent/ insignificant	Moderate	Serious
1	Fabrics made of	- woven plastic	50	27	23
2		- plastic film	40	43	17
3		- jute/hessian	47	33	20
4		- cotton	53	30	17
5	Strings made of	- woven plastic	44	33	23
6		- plastic film	54	33	13
7		- jute/hessian	47	37	16
8		- cotton	54	33	13
9	Organic matter	- leaves, feathers, paper, leather etc.	37	40	23
10	Inorganic matter	- sand/dust	63	30	7
11		- rust	87	10	3
12		- metal/wire	77	17	6
13	Oily substances/chemicals	- grease/oil	83	17	0
14		- rubber	80	13	7
15		- stamp colour	80	17	3
16		- tar	80	17	3
Ave	erage of 1-16		61	27	12
		No (%) Yes(%)		No (%)	Yes(%)
	Stickiness	90 10	Seed-coat fragments	47	53

Table 55 2016

	Country Israel	Growth: Acala	Number of samples:		les: 1
			Degree of contamination (%)		
	Source of contamination		Non- existent/ insignificant	Moderate	Serious
1	Fabrics made of	- woven plastic	100	0	0
2		- plastic film	0	0	100
3		- jute/hessian	100	0	0
4		- cotton	100	0	0
5	Strings made of	- woven plastic	0	0	100
6		- plastic film	100	0	0
7		- jute/hessian	100	0	0
8		- cotton	100	0	0
9	Organic matter	- leaves, feathers, paper, leather etc.	0	100	0
10	Inorganic matter	- sand/dust	100	0	0
11		- rust	100	0	0
12		- metal/wire	100	0	0
13	Oily substances/chemicals	- grease/oil	100	0	0
14		- rubber	100	0	0
15		- stamp colour	100	0	0
16		- tar	100	0	0
Ave	erage of 1-16		81	6	13
		No (%) Yes(%)		No (%)	Yes(%)
	Stickiness	100 0	Seed-coat fragments	100 (%)	0

Table 56 2016

	Country Israel	Growth: Pima	Number of samples:		
			Degree of contamination (%)		
	Source of contamination		Non- existent/ insignificant	Moderate	Serious
1	Fabrics made of	- woven plastic	100	0	0
2		- plastic film	34	33	33
3		- jute/hessian	67	33	0
4		- cotton	100	0	0
5	Strings made of	- woven plastic	34	33	33
6		- plastic film	67	33	0
7		- jute/hessian	67	33	0
8		- cotton	67	33	0
9	Organic matter	- leaves, feathers, paper, leather etc.	33	67	0
10	Inorganic matter	- sand/dust	67	33	0
11		- rust	67	33	0
12		- metal/wire	67	33	0
13	Oily substances/chemicals	- grease/oil	33	67	0
14		- rubber	100	0	0
15		- stamp colour	67	33	0
16		- tar	100	0	0
Ave	erage of 1-16		67	29	4
		No (%) Yes(%)		No (%)	Yes(%)
	Stickiness	100 0	Seed-coat fragments	100	0

Table 57 2016

	Country Pakistan	Growth: MNH93	Nun	ber of samp	les: 3
			Degree of contamination (%)		6)
	Source of contamination		Non- existent/ insignificant	Moderate	Serious
1	Fabrics made of	- woven plastic	100	0	0
2		- plastic film	67	33	0
3		- jute/hessian	67	33	0
4		- cotton	67	33	0
5	Strings made of	- woven plastic	67	33	0
6		- plastic film	67	0	33
7		- jute/hessian	33	67	0
8		- cotton	67	33	0
9	Organic matter	- leaves, feathers, paper, leather etc.	0	67	33
10	Inorganic matter	- sand/dust	67	0	33
11		- rust	100	0	0
12		- metal/wire	67	33	0
13	Oily substances/chemicals	- grease/oil	67	33	0
14		- rubber	100	0	0
15		- stamp colour	100	0	0
16		- tar	100	0	0
Αv	erage of 1-16		71	23	6
		No (9/) Voo(9/)		No (9/)	Voc/9/\
	Ctialrinasa	No (%) Yes(%)	Cood coot from y (-	No (%)	Yes(%)
	Stickiness	100 0	Seed-coat fragments	67	33

Table 58 2016

	Country Pakistan	Growth: NAIB	Number of samples:		
			Degree of contamination (%)		
	Source of contamination		Non- existent/ insignificant	Moderate	Serious
1	Fabrics made of	- woven plastic	100	0	0
2		- plastic film	67	33	0
3		- jute/hessian	67	33	0
4		- cotton	67	33	0
5	Strings made of	- woven plastic	67	33	0
6		- plastic film	67	0	33
7		- jute/hessian	33	67	0
8		- cotton	67	33	0
9	Organic matter	- leaves, feathers, paper, leather etc.	0	67	33
10	Inorganic matter	- sand/dust	33	33	33
11		- rust	67	33	0
12		- metal/wire	67	33	0
13	Oily substances/chemicals	- grease/oil	33	67	0
14		- rubber	100	0	0
15		- stamp colour	100	0	0
16		- tar	100	0	0
Ave	erage of 1-16		65	29	6
		No (%) Yes(%)		No (%)	Yes(%)
	Stickiness	100 0	Seed-coat fragments	33	67

Table 59 2016

	country Pakistan	Growth: Pakistan-Others	Number of sample		oles: 5
			Degree of conta	amination (%	6)
	Source of contamination		Non- existent/ insignificant	Moderate	Serious
1	Fabrics made of	- woven plastic	0	80	20
2		- plastic film	0	80	20
3		- jute/hessian	20	80	0
4		- cotton	20	80	0
5	Strings made of	- woven plastic	0	40	60
6		- plastic film	0	80	20
7		- jute/hessian	40	40	20
8		- cotton	40	60	0
9	Organic matter	- leaves, feathers, paper, leather etc.	20	60	20
10	Inorganic matter	- sand/dust	40	40	20
11		- rust	100	0	0
12		- metal/wire	100	0	0
13	Oily substances/chemicals	- grease/oil	100	0	0
14		- rubber	100	0	0
15		- stamp colour	100	0	0
16		- tar	100	0	0
Αv	erage of 1-16		49	40	11
		N (01) V (01)		N (04)) ((5 i)
		No (%) Yes(%)		No (%)	Yes(%)
	Stickiness	80 20	Seed-coat fragments	40	60

Table 60 2016

Country Syria	Growth: Syria	Num	Number of samples:		
	_	Degree of conta	Degree of contamination (%)		
Source of contami	nation	Non- existent/ insignificant	Moderate	Serious	
1 Fabrics made of	- woven plastic	0	0	100	
2	- plastic film	0	0	100	
3	- jute/hessian	0	0	100	
4	- cotton	0	0	100	
5 Strings made of	- woven plastic	0	0	100	
6	- plastic film	0	0	100	
7	- jute/hessian	0	0	100	
8	- cotton	0	0	100	
9 Organic matter	- leaves, feathers, paper, leather et	c. 0	0	100	
10 Inorganic matter	- sand/dust	0	0	100	
11	- rust	0	0	100	
12	- metal/wire	0	0	100	
13 Oily substances/che	emicals - grease/oil	0	0	100	
14	- rubber	0	0	100	
15	- stamp colour	0	100	0	
16	- tar	0	100	0	
Average of 1-16		0	12	88	
	N (94) N (94)		NI (0())/ (0/)	
	No (%) Yes(%)		No (%)	Yes(%)	
Stickiness	0 100	Seed-coat fragments	0	100	

Table 61 2016

Country Tajikistan	Growth: Long Staples	Number of samples:		
		Degree of conta	amination (%	6)
Source of contamination		Non- existent/ insignificant	Moderate	Serious
1 Fabrics made of	- woven plastic	0	0	100
2	- plastic film	0	0	100
3	- jute/hessian	0	0	100
4	- cotton	0	100	0
5 Strings made of	- woven plastic	0	100	0
6	- plastic film	0	0	100
7	- jute/hessian	0	0	100
8	- cotton	0	100	0
9 Organic matter	- leaves, feathers, paper, leather etc.	0	100	0
10 Inorganic matter	- sand/dust	0	100	0
11	- rust	0	100	0
12	- metal/wire	0	100	0
13 Oily substances/chemicals	- grease/oil	0	100	0
14	- rubber	0	0	100
15	- stamp colour	0	0	100
16	- tar	0	0	100
Average of 1-16		0	50	50
	N. (a)		N (0()) (a()
	No (%) Yes(%)		No (%)	Yes(%)
Stickiness	100 0	Seed-coat fragments	100	0

Table 62 2016

	Country Tajikistan	Growth: Medium Staples	Number of samples: 4		
	-		Degree of conta	amination (%	b)
	Source of contamination		Non- existent/ insignificant	Moderate	Serious
1	Fabrics made of	- woven plastic	75	25	0
2		- plastic film	75	25	0
3		- jute/hessian	50	50	0
4		- cotton	75	25	0
5	Strings made of	- woven plastic	50	50	0
6		- plastic film	25	75	0
7		- jute/hessian	25	75	0
8		- cotton	75	25	0
9	Organic matter	- leaves, feathers, paper, leather etc.	75	25	0
10	Inorganic matter	- sand/dust	100	0	0
11		- rust	100	0	0
12		- metal/wire	75	25	0
13	Oily substances/chemicals	- grease/oil	75	25	0
14		- rubber	100	0	0
15		- stamp colour	100	0	0
16		- tar	100	0	0
Ave	erage of 1-16		73	27	0
		No (%) Yes(%)		No (%)	Yes(%)
	Stickiness	100 0	Seed-coat fragments	75	25

Table 63 2016

Со	untry Turkmenistan	Growth: Long Staples	Number of sample		
			Degree of conta	mination (%	6)
	Source of contamination	ce of contamination		Moderate	Serious
1	Fabrics made of	- woven plastic	0	100	0
2		- plastic film	100	0	0
3		- jute/hessian	0	100	0
4		- cotton	100	0	0
5	Strings made of	- woven plastic	100	0	0
6		- plastic film	100	0	0
7		- jute/hessian	0	100	0
8		- cotton	100	0	0
9	Organic matter	- leaves, feathers, paper, leather etc.	0	100	0
10	Inorganic matter	- sand/dust	0	100	0
11		- rust	100	0	0
12		- metal/wire	100	0	0
13	Oily substances/chemicals	- grease/oil	100	0	0
14		- rubber	100	0	0
15		- stamp colour	100	0	0
16		- tar	100	0	0
Ave	erage of 1-16		69	31	0
		No (%) Yes(%)		No (%)	Yes(%)
	Stickiness	0 100	Seed-coat fragments	0	100

2016 Table 64

Country Turkmenistan		Growth: Medium Staples	Number of samples:			
		•	Degree of conta	Degree of contamination (%)		
	Source of contamination		Non- existent/ insignificant	Moderate	Serious	
1	Fabrics made of	- woven plastic	25	25	50	
2		- plastic film	25	50	25	
3		- jute/hessian	50	25	25	
4		- cotton	50	0	50	
5	Strings made of	- woven plastic	25	25	50	
6		- plastic film	25	50	25	
7		- jute/hessian	50	25	25	
8		- cotton	50	0	50	
9	Organic matter	- leaves, feathers, paper, leather etc.	0	75	25	
10	Inorganic matter	- sand/dust	25	50	25	
11		- rust	50	25	25	
12		- metal/wire	50	25	25	
13	Oily substances/chemicals	- grease/oil	75	25	0	
14		- rubber	75	25	0	
15		- stamp colour	100	0	0	
16		- tar	100	0	0	
Ave	erage of 1-16		48	27	25	
		NI = (0/)		NI- (0())/ (0/)	
		No (%) Yes(%)		No (%)	Yes(%)	
	Stickiness	75 25	Seed-coat fragments	50	50	

2016 Table 65

Country Uzbekistan	country Uzbekistan Growth: Medium Staples Number of san			
		Degree of contamination (%		6)
Source of contamination		Non- existent/ insignificant	Moderate	Serious
1 Fabrics made of	- woven plastic	86	0	14
2	- plastic film	71	29	0
3	- jute/hessian	43	57	0
4	- cotton	57	29	14
5 Strings made of	- woven plastic	57	29	14
6	- plastic film	71	29	0
7	- jute/hessian	57	43	0
8	- cotton	57	29	14
9 Organic matter	- leaves, feathers, paper, leather etc.	14	86	0
10 Inorganic matter	- sand/dust	57	43	0
11	- rust	86	14	0
12	- metal/wire	71	29	0
13 Oily substances/chemicals	- grease/oil	100	0	0
14	- rubber	100	0	0
15	- stamp colour	86	14	0
16	- tar	86	14	0
Average of 1-16		69	28	3
	No (%) Yes(%)		No (%)	Yes(%)
Stickiness	100 0	Seed-coat fragments	86	14

Europe

Table 66 2016

	Country Greece	Greece Growth: Greece Number of			oles: 8
				amination (%	o)
	Source of contamination		Non- existent/ insignificant	Moderate	Serious
1	Fabrics made of	- woven plastic	75	13	12
2		- plastic film	75	13	12
3		- jute/hessian	75	25	0
4		- cotton	88	12	0
5	Strings made of	- woven plastic	75	25	0
6		- plastic film	63	25	12
7		- jute/hessian	38	37	25
8		- cotton	50	50	0
9	Organic matter	- leaves, feathers, paper, leather etc.	13	87	0
10	Inorganic matter	- sand/dust	62	25	13
11		- rust	75	13	12
12		- metal/wire	75	25	0
13	Oily substances/chemicals	- grease/oil	88	12	0
14		- rubber	100	0	0
15		- stamp colour	88	0	12
16		- tar	100	0	0
Ave	erage of 1-16		71	23	6
				N. (0()) (a)
		No (%) Yes(%)		No (%)	Yes(%)
	Stickiness	88 12	Seed-coat fragments	75	25

Table 67 2016

Country Spain	Country Spain Growth: Spain		Number of samples: Degree of contamination (%)		
-					
Source of contamination		Non- existent/ insignificant	Moderate	Serious	
1 Fabrics made of	- woven plastic	80	20	0	
2	- plastic film	60	40	0	
3	- jute/hessian	80	0	20	
4	- cotton	100	0	0	
5 Strings made of	- woven plastic	60	40	0	
6	- plastic film	20	80	0	
7	- jute/hessian	80	0	20	
8	- cotton	80	0	20	
9 Organic matter	- leaves, feathers, paper, leather etc.	40	60	0	
10 Inorganic matter	- sand/dust	60	40	0	
11	- rust	80	20	0	
12	- metal/wire	100	0	0	
13 Oily substances/chemicals	- grease/oil	100	0	0	
14	- rubber	100	0	0	
15	- stamp colour	100	0	0	
16	- tar	100	0	0	
Average of 1-16		77	19	4	
	No (%) Yes(%)		No (%)	Yes(%)	
Stickiness	80 20	Seed-coat fragments	60	40	

Europe

Table 68 2016

	Country Turkey	Growth: Antalya	Number of sar		
			Degree of conta	amination (%	6)
	Source of contamination		Non- existent/ insignificant	Moderate	Serious
1	Fabrics made of	- woven plastic	0	100	0
2		- plastic film	0	100	0
3		- jute/hessian	0	100	0
4		- cotton	100	0	0
5	Strings made of	- woven plastic	0	100	0
6		- plastic film	100	0	0
7		- jute/hessian	100	0	0
8		- cotton	0	100	0
9	Organic matter	- leaves, feathers, paper, leather etc.	0	100	0
10	Inorganic matter	- sand/dust	0	100	0
11		- rust	100	0	0
12		- metal/wire	100	0	0
13	Oily substances/chemicals	- grease/oil	100	0	0
14		- rubber	100	0	0
15		- stamp colour	0	100	0
16		- tar	0	100	0
Αv	erage of 1-16		44	56	0
		NI ₂ (01) V ₂₂ (01)	•	NI- (0()	V = = (0/.)
		No (%) Yes(%)		No (%)	Yes(%)
	Stickiness	100 0	Seed-coat fragments	0	100

Table 69 2016

Country Turkey	country Turkey Growth: Cukurova/South		Number of samples:		
			Degree of contamination (%)		
Source of contamination		Non- existent/ insignificant	Moderate	Serious	
1 Fabrics made of	- woven plastic	100	0	0	
2	- plastic film	0	100	0	
3	- jute/hessian	0	100	0	
4	- cotton	0	100	0	
5 Strings made of	- woven plastic	100	0	0	
6	- plastic film	100	0	0	
7	- jute/hessian	100	0	0	
8	- cotton	100	0	0	
9 Organic matter	- leaves, feathers, paper, leather etc.	0	100	0	
10 Inorganic matter	- sand/dust	0	100	0	
11	- rust	100	0	0	
12	- metal/wire	100	0	0	
13 Oily substances/chemicals	- grease/oil	100	0	0	
14	- rubber	100	0	0	
15	- stamp colour	100	0	0	
16	- tar	100	0	0	
Average of 1-16		69	31	0	
	No (%) Yes(%)		No (%)	Yes(%)	
Stickiness	100 0	Seed-coat fragments	0	100	

Europe

Table 70 2016

	Country Turkey	Growth: Izmir	Number of samples:		
			Degree of conta	amination (%	b)
	Source of contamination		Non- existent/ insignificant	Moderate	Serious
1	Fabrics made of	- woven plastic	67	33	0
2		- plastic film	83	17	0
3		- jute/hessian	50	50	0
4		- cotton	50	50	0
5	Strings made of	- woven plastic	50	33	17
6		- plastic film	67	33	0
7		- jute/hessian	67	33	0
8		- cotton	50	50	0
9	Organic matter	- leaves, feathers, paper, leather etc.	67	17	16
10	Inorganic matter	- sand/dust	83	17	0
11		- rust	100	0	0
12		- metal/wire	67	33	0
13	Oily substances/chemicals	- grease/oil	83	17	0
14		- rubber	100	0	0
15		- stamp colour	83	17	0
16		- tar	100	0	0
Ave	erage of 1-16		73	25	2
		No (%) Yes(%)		No (%)	Yes(%)
	Stickiness	100 0	Seed-coat fragments	50	50

Table 71 2016

Country Turkey	Country Turkey Growth: Turkey-Others			oles: 3
	Degree of o		amination (%	6)
Source of contamination		Non- existent/ insignificant	Moderate	Serious
1 Fabrics made of	- woven plastic	0	67	33
2	- plastic film	0	67	33
3	- jute/hessian	34	33	33
4	- cotton	0	67	33
5 Strings made of	- woven plastic	0	67	33
6	- plastic film	0	67	33
7	- jute/hessian	34	33	33
8	- cotton	34	33	33
9 Organic matter	- leaves, feathers, paper, leather etc.	34	33	33
10 Inorganic matter	- sand/dust	0	33	67
11	- rust	0	67	33
12	- metal/wire	33	0	67
13 Oily substances/chemicals	- grease/oil	33	67	0
14	- rubber	33	67	0
15	- stamp colour	33	67	0
16	- tar	33	67	0
Average of 1-16		19	52	29
	No (%) Yes(%)		No (%)	Yes(%)
Stickiness	100 0	Seed-coat fragments	100	0

Press Release

ITMF's Cotton Contamination Survey 2019 Contamination Level up and Stickiness Level down compared to 2016

"ITMF's Cotton Contamination Survey 2019 shows that the level of contamination of raw cotton by foreign matters and the appearance of seed-coat fragments have increased compared with 2016, underscoring the importance of clean cotton to spinners. At the same time the level of stickiness has fallen slightly to the lowest level. Furthermore, the survey reveals that there are significant differences between cotton varieties when it comes to the level of contamination." These are the main conclusions to be drawn from the "Cotton Contamination Survey 2019" which has just been released by the International Textile Manufacturers Federation (ITMF). This 15th edition covers 128 spinning mills located in 25 countries which evaluated 81 different cotton growths.

Contamination - increase

The level of cottons moderately or seriously contaminated as perceived by the spinning mills from around the world grew from 23% in 2016 to 26% in 2019. A closer look at the extent of the contamination shows that 7% (2016: 7%) of all cotton evaluated were seriously contaminated by some sort of foreign matter whereas 18% (2016: 18%) were only moderately contaminated. As the summary data are arithmetic averages of the different contaminants, the extent of contamination is fully illustrated by the results for the individual contaminants. They range from 6% all cottons processed being moderately or seriously contaminated by "tar" to 55% of them being moderately or seriously contaminated by "organic matter", i.e. leaves, feathers, paper, leather, etc. Other serious contaminants are "strings made of plastic film" (39%), "fabrics made of plastic film" (39%), "strings made of woven plastic" (36%) as well as "fabrics made of woven plastic" (31%). The most contaminated cotton descriptions considered for the survey originated in India (MCU-5, J-34, India-Others, DCH), Pakistan (NAIB, Pakistan Others, MNH93), Tajikistan (Medium Staples) and Mozambique. In contrast, very clean raw cottons were produced in Australia, the USA, (Memphis Territory, California, Pima, South Eastern, Texas H. Plains and Arizona), Argentina, Brazil and Spain.

Stickiness - slight decrease

The presence of sticky cotton as perceived by the spinning mills is close to constant (i.e. 16% in 2016 vs. 15.7% in 2019) and remains at the lowest level since 1989. Descriptions that were affected most by stickiness were those from Sudan, the USA (Pima, USA-Others, Memphis Territory, Texas H. Plains, California, South Eastern), Mexico (Juarez) and Turkey (Turkey – Others). On the other end of the range, cottons from South Africa, Tanzania (Mwanza, Coastal), China (Shandong, Xinjiang), Mozambique, Chad, and Pakistan (MNH93, Pakistan – Others, NAIB) were not or hardly affected by stickiness.

Seed-coat fragments – increase

With regard to seed-coat fragments, the Cotton Contamination Survey 2019 shows that their appearance in cotton growths remains an issue for spinners around the world. 34% of all cotton growths consumed contained moderate or significant amounts of seed-coat fragments, a slight increase since 2016 (32%). The origins affected most by seed-coat fragments are those from Turkey (Turkey – Others, Cukurova / S.E.), India (India-Others, J-34, MCU-5), Sudan (Sudan – Others), and Pakistan (MNH93, Pakistan - Others). Countries for which the existence of seed-coat fragments were negligible included those from Tanzania (Coastal, Mwanza), India (Shankar-4/6), Australia, the USA (California, Pima, Memphis Territory, USA – Others, Texas H. Plains).

May 2020

Participation

Table I 2019

Country	Number of respondents (participating companies)	Number of samples (evaluations)	Number of cotton growth evaluated *
Argentina	2	2	1
Austria	1	3	3
Bangladesh	13	215	48
Belgium	1	7	7
Brazil	8	9	2
China	20	108	32
Chinese Taipei	1	4	4
Ecuador	1	1	1
Egypt	4	16	11
Germany	1	5	5
India	19	108	26
India	2	10	7
Indonesia	6	32	17
Italy	3	11	8
Korea, Rep.	2	14	10
Malaysia	4	16	7
Mauritius	1	6	6
Mexico	3	9	5
Pakistan	12	101	39
Peru	3	16	10
South Africa	1	2	2
Spain	2	8	6
Turkey	8	70	25
U.S.A.	6	14	8
Vietnam	4	32	12
Total	128	819	302

^{*} Divided among 81 cotton descriptions

Main Results

Table IIa 2019

Co	untry All Countries	Growth:	All Growths	Number (of samples:	819
				Degree o	f contaminati	on (%)
	Source of contamination			Non-existent/ insignificant	Moderate	Serious
1	Fabrics made of	- woven plastic		69	21	10
2		- plastic film		61	28	11
3		- jute/hessian		80	13	6
4		- cotton		70	23	8
5	Strings made of	- woven plastic	:	64	22	14
6		- plastic film		61	26	13
7		- jute/hessian		70	21	9
8		- cotton		72	22	7
9	Organic matter	- leaves, feathe	ers, paper, leather etc.	53	45	41
10	Inorganic matter	- sand/dust		70	22	8
11		- rust		87	10	3
12		- metal/wire		83	12	5
13	Oily substances/chemicals	- grease/oil		82	14	4
14		- rubber		93	5	2
15		- stamp colour		90	8	2
16		- tar		94	4	2
Ave	erage of 1-16			75	75	18
		No (%) 84	Yes (%)	Seed-coat	No (%) 66	Yes (%) 34
	Stickiness	04	10	fragments	00	J 4

Table IIb

.,	Degre	e of Contaminatio	n (%)	0	
Year	Non- existent/ insignificant	Moderate	Serious	Stickiness (%)	Seed-coast fragments (%)
1989	86	9	5	21	0
1991	85	11	4	27	34
1993	85	11	4	26	36
1995	82	13	5	20	39
1997	82	13	5	23	32
1999	79	15	6	20	38
2001	78	16	6	18	40
2003	73	18	8	21	44
2005	78	15	7	17	37
2007	78	15	7	21	37
2009	78	16	6	13	27
2011	77	16	7	20	38
2013	73	18	8	23	42
2016	77	18	5	16	32
2019	75	18	7	16	34

Contamination

2019 Table IIIa

The Most Contaminated Descriptions								
Ranking	Description		Non- existent/ insignificant	Moderate	Serious	Number of Samples **		
1	India	MCU-5	47	30	23	26		
2	Pakistan	NAIB	49	39	13	6		
3	Tajikistan	Medium Staples	49	46	5	8		
4	India	J-34	51	19	30	21		
5	India	Shankar-4/6	53	25	21	42		
6	India	India-Others	53	24	23	11		
7	India	DCH	54	28	18	20		
8	Pakistan	Pakistan-Others	54	39	7	6		
9	Pakistan	MNH93	54	34	12	7		
10	Mozambique	Mozambique	55	31	13	7		
11	Turkey	Turkey-Others	55	20	25	8		
12	Sudan	Sudan-Others	56	26	18	5		
13	Turkey	Cukurova / S. E.	56	30	14	9		
14	Turkey	Izmir	64	36	1	10		
15	Afghanistan	Afghanistan	64	17	19	8		

 $^{^{\}star}$ Average degree of contamination by each of the 16 pre-indicated contaminants ** Minimum: 5 Samples

Contamination

2019 Table IIIb

			Degree			
Ranking	oking Description		Non- existent/ insignificant	Moderate	Serious	Number of Samples **
1	Australia	Australia	95	5	0	34
2	U.S.A.	Memphis Territory	94	5	1	42
3	U.S.A.	California	93	7	1	20
4	U.S.A.	Pima	92	6	2	43
5	U.S.A.	South Eastern	92	8	0	14
6	U.S.A.	Texas H. Plains	90	7	2	32
7	U.S.A.	Arizona	89	9	3	10
8	Argentina	Argentina	86	12	2	11
9	Brazil	Brazil	86	13	1	65
10	Spain	Spain	85	15	0	9
11	South Africa	South Africa	84	15	2	8
12	Greece	Greece	80	18	2	20
13	Burkina Faso	Burkina Faso	80	18	2	27
14	U.S.A.	USA-Others	80	14	7	18
15	Mexico	Juarez	79	8	13	6

 $^{^{\}star}$ Average degree of contamination by each of the 16 pre-indicated contaminants ** Minimum: 5 Samples

Stickiness

2019 Table IVa

Descripti	ions Most Affe	ected by Stickiness		
Ranking	Description		Affirmative replies (%)*	Number of Samples**
1	Sudan	Sudan-Others	80	5
2	U.S.A.	Pima	40	43
3	Brazil	Brazil	35	65
4	Mexico	Juarez	33	6
5	U.S.A.	USA-Others	33	18
6	Turkey	Turkey-Others	25	8
7	Afghanistan	Afghanistan	25	8
8	Turkey	Cukurova / S. E.	22	9
9	Argentina	Argentina	18	11
10	India	Shankar-4/6	17	42
11	Mali	Mali	17	18
12	U.S.A.	Memphis Territory	17	42
13	Benin	Benin	16	19
14	U.S.A.	Texas H. Plains	16	32
15	India	DCH	15	20

^{*} Percentage of replies indicating the existence of stickiness ** Minimum 5 samples

Stickiness

2019 Table IVb

Descripti	ions Least Affe	cted by Stickiness		
Ranking	Description		Affirmative replies (%)*	Number of Samples**
1	South Africa	South Africa	0	8
2	Tanzania	Mwanza	0	7
3	China	Shandong	0	6
4	Mozambique	Mozambique	0	7
5	Chad	Chad	0	5
6	Tanzania	Coastal	0	6
7	Pakistan	MNH93	0	7
8	Pakistan	Pakistan-Others	0	6
9	Pakistan	NAIB	0	6
10	Togo	Togo	0	8
11	Egypt	Giza	4	28
12	Greece	Greece	5	20
13	China	Xinjiang	6	18
14	Cameroon	Cameroon	6	16
15	Burkina Faso	Burkina Faso	7	27

^{*} Percentage of replies indicating the existence of stickiness ** Minimum 5 samples

Seed-Coat Fragments

2019 Table Va

Descripti	ions Most Affect	ed by Seed-Coat Fragments		
Ranking	Description		Affirmative replies (%)*	Number of Samples**
1	Turkey	Turkey-Others	75	8
2	India	India-Others	73	11
3	India	J-34	67	21
4	Sudan	Sudan-Others	60	5
5	Pakistan	MNH93	57	7
6	Spain	Spain	56	9
7	Pakistan	Pakistan-Others	50	6
8	Mexico	Juarez	50	6
9	Zambia	Zambia	50	8
10	Benin	Benin	47	19
11	India	MCU-5	46	26
12	Argentina	Argentina	45	11
13	Brazil	Brazil	45	65
14	Turkey	Cukurova / S. E.	44	9
15	Zimbabwe	Zimbabwe	43	7

^{*} Percentage of replies indicating the existence of stickiness ** Minimum 5 samples

Seed-Coat Fragments

2019 Table Vb

Descripti	ions Least Affec	ted by Seed-Coat Fragments		
Ranking	Description		Affirmative replies (%)*	Number of Samples**
1	Tanzania	Coastal	0	6
2	India	Shankar-4/6	0	42
3	Tanzania	Mwanza	14	7
4	China	Shandong	17	6
5	Australia	Australia	18	34
6	U.S.A.	California	20	20
7	U.S.A.	Memphis Territory	21	42
8	China	Xinjiang	22	18
9	U.S.A.	Pima	23	43
10	Togo	Togo	25	8
11	Greece	Greece	25	20
12	Afghanistan	Afghanistan	25	8
13	U.S.A.	USA-Others	28	18
14	U.S.A.	Texas H. Plains	28	32
15	Mozambique	Mozambique	29	7

^{*} Percentage of replies indicating the existence of stickiness ** Minimum 5 samples

<u>Table 1</u> 2019

С	ountry Angola	Growth: A	ngola	Number of samples:		2
				Degree of contar	mination (%)
	Source of contamination			Non- existent/ insignificant	Moderate	Serious
1	Fabrics made of	- woven plas	tic	100	0	0
2		- plastic film		100	0	0
3		- jute/hessiar	ı	100	0	0
4		- cotton		33	67	0
5	Strings made of	- woven plas	tic	100	0	0
6		- plastic film		100	0	0
7		 jute/hessiar 	١	100	0	0
8		- cotton		33	67	0
9	Organic matter	- leaves, feat	hers, paper, leather etc.	100	0	0
10	Inorganic matter	- sand/dust		100	0	0
11		- rust		100	0	0
12		- metal/wire		100	0	0
13	Oily substances/chemicals	- grease/oil		100	0	0
14		- rubber		100	0	0
15		- stamp color	ur	100	0	0
16		- tar		100	0	0
Ave	erage of 1-16			92	8	0
		No (%)	Yes (%)		No (%)	Yes (%)
	Stickiness	100%	0%	Seed-coat fragments	100%	0%

Table 2 2019

С	ountry Benin	y Benin Growth: Benin		Number o	of samples:	19
				Degree of conta	mination (%)
	Source of contamination			Non- existent/ insignificant	Moderate	Serious
1	Fabrics made of	- woven plast	ic	46	54	0
2		- plastic film		36	64	0
3		- jute/hessian		81	19	0
4		- cotton		48	30	22
5	Strings made of	- woven plast	ic	52	48	0
6		- plastic film		31	69	0
7		- jute/hessian		52	48	0
8		- cotton		58	42	0
9	Organic matter	- leaves, feath	ners, paper, leather etc.	11	72	17
10	Inorganic matter	- sand/dust		63	25	13
11		- rust		77	9	14
12		- metal/wire		65	35	0
13	Oily substances/chemicals	- grease/oil		86	0	14
14		- rubber		81	19	0
15		- stamp colou	r	90	10	0
16		- tar		90	10	0
Ave	erage of 1-16			60	35	5
		No (%)	Yes (%)		No (%)	Yes (%)
	Stickiness	84%	16%	Seed-coat fragments	53%	47%

<u>Table 3</u> 2019

С	Burkina Faso	Growth:	Burkina Faso	Number of samples:		27
				Degree of conta	mination (%)
	Source of contamination			Non- existent/ insignificant	Moderate	Serious
1	Fabrics made of	- woven plast	tic	57	34	9
2		- plastic film		42	58	0
3		- jute/hessiar	ı	80	20	0
4		- cotton		60	23	17
5	Strings made of	- woven plast	tic	53	39	8
6		- plastic film		33	47	21
7		- jute/hessiar	ı	49	43	8
8		- cotton		64	36	0
9	Organic matter	- leaves, feat	hers, paper, leather etc.	31	62	7
10	Inorganic matter	- sand/dust		74	26	0
11		- rust		86	14	0
12		- metal/wire		93	7	0
13	Oily substances/chemicals	- grease/oil		86	14	0
14		- rubber		100	0	0
15		- stamp colou	ır	86	14	0
16		- tar		100	0	0
Ave	erage of 1-16			68	27	4
		No (%)	Yes (%)		No (%)	Yes (%)
	Stickiness	93%	7%	Seed-coat fragments	63%	37%

Table 4 2019

С	ountry Cameroon	Growth: C	Cameroon	Number o	of samples:	16
				Degree of conta	mination (%	,)
	Source of contamination			Non- existent/ insignificant	Moderate	Serious
1	Fabrics made of	- woven plast	tic	60	40	0
2		 plastic film 		57	29	14
3		- jute/hessian	1	78	22	0
4		- cotton		36	40	24
5	Strings made of	 woven plast 	tic	60	40	0
6		 plastic film 		32	56	12
7		- jute/hessian	1	60	40	0
8		- cotton		28	72	0
9	Organic matter	- leaves, feat	hers, paper, leather etc.	18	71	11
10	Inorganic matter	- sand/dust		74	11	16
11		- rust		78	22	0
12		- metal/wire		88	12	0
13	Oily substances/chemicals	- grease/oil		100	0	0
14		- rubber		88	12	0
15		- stamp colou	ır	88	12	0
16		- tar		100	0	0
Ave	erage of 1-16			65	30	5
		No (%)	Yes (%)		No (%)	Yes (%)
	Stickiness	94%	6%	Seed-coat fragments	63%	38%

<u>Table 5</u> <u>2019</u>

С	ountry Chad	Growth: C	Chad	Number of samples:		5
				Degree of conta	mination (%)
	Source of contamination			Non- existent/ insignificant	Moderate	Serious
1	Fabrics made of	- woven plast	ic	67	33	0
2		 plastic film 		67	33	0
3		- jute/hessian	l	100	0	0
4		- cotton		25	75	0
5	Strings made of	 woven plast 	tic	67	33	0
6		 plastic film 		67	33	0
7		- jute/hessian	l	100	0	0
8		- cotton		25	75	0
9	Organic matter	- leaves, feat	hers, paper, leather etc.	25	75	0
10	Inorganic matter	- sand/dust		43	57	0
11		- rust		100	0	0
12		- metal/wire		67	33	0
13	Oily substances/chemicals	- grease/oil		25	75	0
14		- rubber		100	0	0
15		- stamp colou	ır	100	0	0
16		- tar		100	0	0
Ave	erage of 1-16			67	33	0
		No (%)	Yes (%)		No (%)	Yes (%)
	Stickiness	100%	0%	Seed-coat fragments	60%	40%

Table 6 2019

С	country Egypt Growth: Giza		Number of samples:		28	
				Degree of conta	mination (%)
	Source of contamination			Non- existent/ insignificant	Moderate	Serious
1	Fabrics made of	- woven plast	ic	48	10	43
2		- plastic film		48	30	23
3		- jute/hessian		48	30	23
4		- cotton		61	22	17
5	Strings made of	- woven plast	ic	40	33	28
6		- plastic film		37	42	21
7		- jute/hessian		38	48	14
8		- cotton		63	29	9
9	Organic matter	- leaves, feath	ners, paper, leather etc.	13	55	33
10	Inorganic matter	- sand/dust		49	36	15
11		- rust		68	24	9
12		- metal/wire		61	22	17
13	Oily substances/chemicals	- grease/oil		68	24	9
14		- rubber		73	18	9
15		- stamp colou	r	57	27	16
16		- tar		93	7	0
Ave	erage of 1-16			54	28	18
		No (%)	Yes (%)		No (%)	Yes (%)
	Stickiness	96%	4%	Seed-coat fragments	64%	36%

<u>Table 7</u> 2019

С	ountry Egypt	Growth: E	gypt- Others	Number o	of samples:	1
				Degree of conta	mination (%	o)
	Source of contamination			Non- existent/ insignificant	Moderate	Serious
1	Fabrics made of	- woven plast	tic	100	0	0
2		- plastic film		100	0	0
3		- jute/hessian	1	0	100	0
4		- cotton		100	0	0
5	Strings made of	 woven plast 	tic	0	100	0
6		- plastic film		0	100	0
7		- jute/hessian	1	0	100	0
8		- cotton		100	0	0
9	Organic matter	- leaves, feat	hers, paper, leather etc.	0	100	0
10	Inorganic matter	- sand/dust		100	0	0
11		- rust		100	0	0
12		- metal/wire		100	0	0
13	Oily substances/chemicals	- grease/oil		100	0	0
14		- rubber		100	0	0
15		- stamp colou	ır	100	0	0
16		- tar		100	0	0
Ave	erage of 1-16			69	31	0
		No (%)	Yes (%)		No (%)	Yes (%)
	Stickiness	100%	0%	Seed-coat fragments	100%	0%

Table 8 2019

С	ountry Ethiopia	ntry Ethiopia Growth: Ethi		Number o	of samples:	3
				Degree of conta	mination (%)
	Source of contamination			Non- existent/ insignificant	Moderate	Serious
1	Fabrics made of	- woven plast	ic	20	80	0
2		 plastic film 		20	80	0
3		- jute/hessian	l .	20	80	0
4		- cotton		20	80	0
5	Strings made of	 woven plast 	ic	0	57	43
6		- plastic film		0	57	43
7		- jute/hessian	l .	0	100	0
8		- cotton		20	80	0
9	Organic matter	- leaves, feat	hers, paper, leather etc.	0	100	0
10	Inorganic matter	- sand/dust		100	0	0
11		- rust		100	0	0
12		- metal/wire		100	0	0
13	Oily substances/chemicals	- grease/oil		20	80	0
14		- rubber		100	0	0
15		- stamp colou	ır	20	80	0
16		- tar		100	0	0
Ave	Average of 1-16		40	55	5	
			_			
		No (%)	Yes (%)		No (%)	Yes (%)
	Stickiness	100%	0%	Seed-coat fragments	100%	0%

 Table 9
 2019

C	ountry Ghana Growth: Ghana Number of samples:		2			
				Degree of conta	mination (%	,)
	Source of contamination			Non- existent/ insignificant	Moderate	Serious
1	Fabrics made of	- woven plast	ic	0	100	0
2		- plastic film		0	100	0
3		- jute/hessian		0	100	0
4		- cotton		0	100	0
5	Strings made of	- woven plast	ic	0	100	0
6		- plastic film		0	100	0
7		- jute/hessian		0	100	0
8		- cotton		0	100	0
9	Organic matter	- leaves, feat	hers, paper, leather etc.	0	100	0
10	Inorganic matter	- sand/dust		100	0	0
11		- rust		100	0	0
12		- metal/wire		100	0	0
13	Oily substances/chemicals	- grease/oil		0	100	0
14		- rubber		100	0	0
15		- stamp colou	ır	100	0	0
16		- tar		100	0	0
Ave	erage of 1-16			38	63	0
		No (%)	Yes (%)		No (%)	Yes (%)
	Stickiness	100%	0%	Seed-coat fragments	100%	0%

Table 10 2019

С	ountry Ivory Coast	untry Ivory Coast Growth: Ivory Coast		Number of samples:		23
				Degree of conta	mination (%)
	Source of contamination			Non- existent/ insignificant	Moderate	Serious
1	Fabrics made of	- woven plast	ic	52	39	10
2		 plastic film 		39	61	0
3		- jute/hessian		92	8	0
4		- cotton		84	16	0
5	Strings made of	 woven plast 	ic	53	19	28
6		 plastic film 		36	39	25
7		- jute/hessian		59	41	0
8		- cotton		59	41	0
9	Organic matter	- leaves, feat	hers, paper, leather etc.	18	75	8
10	Inorganic matter	- sand/dust		64	36	0
11		- rust		68	21	11
12		 metal/wire 		68	21	11
13	Oily substances/chemicals	- grease/oil		74	15	11
14		- rubber		92	8	0
15		 stamp colou 	ır	84	16	0
16		- tar		92	8	0
Ave	erage of 1-16			65	29	6
		No (%)	Yes (%)		No (%)	Yes (%)
	Stickiness	91%	9%	Seed-coat fragments	61%	39%

Table 11 2019

Country Madagascar	Growth:	/ladagascar	Number o	2			
			Degree of conta	mination (%	`` i		
Source of contamination			Non- existent/ insignificant	Moderate	Serious		
1 Fabrics made of	- woven plas	tic	0	100	0		
2	 plastic film 		0	100	0		
3	 jute/hessiar)	0	100	0		
4	- cotton		0	100	0		
5 Strings made of	- woven plas	tic	0	100	0		
6	 plastic film 		0	100	0		
7	- jute/hessiar	1	0	100	0		
8	- cotton		0	100	0		
9 Organic matter	- leaves, feat	hers, paper, leather etc.	0	100	0		
10 Inorganic matter	- sand/dust		100	0	0		
11	- rust		100	0	0		
12	- metal/wire		100	0	0		
13 Oily substances/chemicals	- grease/oil		0	100	0		
14	- rubber		100	0	0		
15	- stamp colou	ır	100	0	0		
16	- tar		100	0	0		
Average of 1-16			38	63	0		
	No (%)	Yes (%)		No (%)	Yes (%)		
Stickiness	100%	0%	Seed-coat fragments	100%	0%		

Table 12 2019

С	ountry Malawi	Growth: N	lalawi	Number (of samples:	2
				Degree of conta	amination (%)
	Source of contamination			Non- existent/ insignificant	Moderate	Serious
1	Fabrics made of	- woven plast	ic	0	100	0
2		- plastic film		0	100	0
3		- jute/hessian	ı	100	0	0
4		- cotton		100	0	0
5	Strings made of	 woven plast 	ic	0	100	0
6		- plastic film		0	100	0
7		- jute/hessian	1	0	100	0
8		- cotton		0	100	0
9	Organic matter	- leaves, feat	hers, paper, leather etc.	0	100	0
10	Inorganic matter	- sand/dust		100	0	0
11		- rust		100	0	0
12		- metal/wire		100	0	0
13	Oily substances/chemicals	- grease/oil		100	0	0
14		- rubber		100	0	0
15		- stamp colou	ır	100	0	0
16		- tar		100	0	0
Ave	erage of 1-16			56	44	0
		No (%)	Yes (%)		No (%)	Yes (%)
	Stickiness	100%	0%	Seed-coat fragments	0%	100%

 Table 13
 2019

C	ountry Mali	Growth: N	Mali	Number o	of samples:	18
				Degree of conta	mination (%)
	Source of contamination			Non- existent/ insignificant	Moderate	Serious
1	Fabrics made of	- woven plast	ic	64	36	0
2		- plastic film		38	62	0
3		- jute/hessian	l .	80	20	0
4		- cotton		64	36	0
5	Strings made of	 woven plast 	ic	41	37	22
6		 plastic film 		30	40	30
7		- jute/hessian	l .	64	36	0
8		- cotton		64	36	0
9	Organic matter	- leaves, feat	hers, paper, leather etc.	23	58	19
10	Inorganic matter	- sand/dust		54	33	13
11		- rust		76	10	14
12		- metal/wire		64	36	0
13	Oily substances/chemicals	- grease/oil		54	33	13
14		- rubber		89	11	0
15		- stamp colou	ır	100	0	0
16		- tar		89	11	0
Ave	Average of 1-16			62	31	7
		No (%)	Yes (%)		No (%)	Yes (%)
	Stickiness	83%	17%	Seed-coat fragments	67%	33%

Table 14 2019

С	ountry Mozambique	Growth:	Mozambique	Number o	of samples:	7
				Degree of conta	mination (%	o)
	Source of contamination			Non- existent/ insignificant	Moderate	Serious
1	Fabrics made of	- woven plas	stic	15	62	23
2		 plastic film 		15	62	23
3		- jute/hessia	n	75	25	0
4		- cotton		17	83	0
5	Strings made of	- woven plas	stic	6	38	56
6		- plastic film		7	53	40
7		- jute/hessia	n	6	38	56
8		- cotton		23	31	46
9	Organic matter	- leaves, fea	thers, paper, leather etc.	0	63	38
10	Inorganic matter	- sand/dust		56	44	0
11		- rust		100	0	0
12		- metal/wire		67	0	33
13	Oily substances/chemicals	- grease/oil		56	44	0
14		- rubber		100	0	0
15		- stamp cold	our	100	0	0
16		- tar		100	0	0
Ave	erage of 1-16			46	34	20
		No (%)	Yes (%)		No (%)	Yes (%)
	Stickiness	100%	0%	Seed-coat fragments	71%	29%

 Table 15
 2019

C	ountry Nigeria	Growth:	ligeria	Number o	of samples:	4
				Degree of conta	mination (%	o)
	Source of contamination			Non- existent/ insignificant	Moderate	Serious
1	Fabrics made of	- woven plast	tic	13	50	38
2		 plastic film 		0	67	33
3		- jute/hessian	1	0	100	0
4		- cotton		0	100	0
5	Strings made of	 woven plast 	tic	10	0	90
6		 plastic film 		0	18	82
7		- jute/hessian	1	0	40	60
8		- cotton		25	0	75
9	Organic matter	- leaves, feat	hers, paper, leather etc.	10	0	90
10	Inorganic matter	- sand/dust		50	0	50
11		- rust		100	0	0
12		- metal/wire		50	0	50
13	Oily substances/chemicals	- grease/oil		0	100	0
14		- rubber		14	86	0
15		- stamp colou	ır	14	86	0
16		- tar		60	40	0
Ave	erage of 1-16			22	43	35
		No (%)	Yes (%)		No (%)	Yes (%)
	Stickiness	100%	0%	Seed-coat fragments	0%	100%

Table 16 2019

С	ountry Senegal Growth: Senegal		Number o	Number of samples:		
				Degree of conta	mination (%	b)
	Source of contamination			Non- existent/ insignificant	Moderate	Serious
1	Fabrics made of	- woven plast	ic	100	0	0
2		- plastic film		100	0	0
3		- jute/hessian		100	0	0
4		- cotton		100	0	0
5	Strings made of	- woven plast	ic	100	0	0
6		- plastic film		100	0	0
7		- jute/hessian		100	0	0
8		- cotton		100	0	0
9	Organic matter	 leaves, feath 	ners, paper, leather etc.	100	0	0
10	Inorganic matter	 sand/dust 		100	0	0
11		- rust		100	0	0
12		 metal/wire 		100	0	0
13	Oily substances/chemicals	- grease/oil		100	0	0
14		- rubber		100	0	0
15		 stamp colou 	r	100	0	0
16		- tar		100	0	0
Ave	erage of 1-16			100	0	0
		No (%)	Yes (%)		No (%)	Yes (%)
	Stickiness	100%	0%	Seed-coat fragments	100%	0%

 Table 17
 2019

Country South Africa	Growth: S	South Africa	Number o	8	
			Degree of conta	mination (%	.)
Source of contamination			Non- existent/ insignificant	Moderate	Serious
1 Fabrics made of	- woven plas	tic	60	40	0
2	- plastic film		42	33	25
3	 jute/hessiar 	n	100	0	0
4	- cotton		100	0	0
5 Strings made of	- woven plas	tic	45	55	0
6	- plastic film		42	33	25
7	 jute/hessiar 	n	78	22	0
8	- cotton		100	0	0
9 Organic matter	- leaves, feat	thers, paper, leather etc.	23	77	0
10 Inorganic matter	- sand/dust		45	55	0
11	- rust		78	22	0
12	- metal/wire		100	0	0
13 Oily substances/chemicals	- grease/oil		100	0	0
14	- rubber		100	0	0
15	- stamp colou	ur	100	0	0
16	- tar		100	0	0
Average of 1-16	Average of 1-16		76	21	3
	No (%)	Yes (%)		No (%)	Yes (%)
Stickiness	100%	0%	Seed-coat fragments	63%	38%

Table 18 2019

Country Sudan		Growth: Barakat		Number of samples:		1	
				Degree of contamination (%)			
	Source of contamination			Non- existent/ insignificant	Moderate	Serious	
1	Fabrics made of	- woven plast	ic	0	0	100	
2		 plastic film 		0	0	100	
3		- jute/hessian		100	0	0	
4		- cotton		100	0	0	
5	Strings made of	- woven plastic		0	100	0	
6		- plastic film		0	100	0	
7		- jute/hessian		100	0	0	
8		- cotton		100	0	0	
9	Organic matter	- leaves, feathers, paper, leather etc.		0	0	100	
10	Inorganic matter	- sand/dust		0	0	100	
11		- rust		0	0	100	
12		- metal/wire		0	0	100	
13	Oily substances/chemicals	- grease/oil		0	0	100	
14		- rubber		0	0	100	
15		- stamp colour		0	0	100	
16		- tar		100	0	0	
Ave	Average of 1-16		31	13	56		
		No (%)	Yes (%)		No (%)	Yes (%)	
	Stickiness	100%	0%	Seed-coat fragments	100%	0%	

<u>Table 19</u> <u>2019</u>

Country Sudan		Growth: Shambat		Number o	1		
				Degree of contamination (%)			
	Source of contamination			Non- existent/ insignificant	Moderate	Serious	
1	Fabrics made of	- woven plast	tic	100	0	0	
2		 plastic film 		100	0	0	
3		- jute/hessian	ı	100	0	0	
4		- cotton		100	0	0	
5	Strings made of	- woven plastic		100	0	0	
6		 plastic film 		100	0	0	
7		- jute/hessian	ı	100	0	0	
8		- cotton		100	0	0	
9	Organic matter	- leaves, feathers, paper, leather etc.		100	0	0	
10	Inorganic matter	- sand/dust		100	0	0	
11		- rust		100	0	0	
12		- metal/wire		100	0	0	
13	Oily substances/chemicals	- grease/oil		100	0	0	
14		- rubber		100	0	0	
15		- stamp colour		100	0	0	
16		- tar		100	0	0	
Ave	Average of 1-16		100	0	0		
		No (%)	Yes (%)		No (%)	Yes (%)	
	Stickiness	0%	100%	Seed-coat fragments	100%	0%	

Table 20 2019

Country Sudan		Growth: Sudan-Others		Number of samples:		5
			Degree of contamination (%)			
	Source of contamination			Non- existent/ insignificant	Moderate	Serious
1	Fabrics made of	- woven plas	tic	9	36	55
2		- plastic film		10	60	30
3		- jute/hessiar)	20	20	60
4		- cotton		67	33	0
5	Strings made of	- woven plastic		10	60	30
6		- plastic film		25	75	0
7		- jute/hessiar	1	22	44	33
8		- cotton		67	33	0
9	Organic matter	- leaves, feathers, paper, leather etc.		20	20	60
10	Inorganic matter	- sand/dust		10	60	30
11		- rust		57	0	43
12		- metal/wire		67	33	0
13	Oily substances/chemicals	- grease/oil		57	0	43
14		- rubber		57	0	43
15		- stamp colour		57	0	43
16		- tar		100	0	0
Ave	erage of 1-16			41	30	29
		No (%)	Yes (%)		No (%)	Yes (%)
	Stickiness	20%	80%	Seed-coat fragments	40%	60%

Africa

 Table 21
 2019

С	Country Tanzania Growth: Coastal Number of samples		of samples:	6		
				Degree of conta)	
	Source of contamination			Non- existent/ insignificant	Moderate	Serious
1	Fabrics made of	- woven plast	tic	71	29	0
2		- plastic film		71	29	0
3		- jute/hessian	1	50	50	0
4		- cotton		33	67	0
5	Strings made of	 woven plast 	tic	63	0	38
6		- plastic film		44	22	33
7		- jute/hessian)	50	50	0
8		- cotton		50	50	0
9	Organic matter	- leaves, feat	hers, paper, leather etc.	40	0	60
10	Inorganic matter	- sand/dust		50	50	0
11		- rust		100	0	0
12		- metal/wire		71	29	0
13	Oily substances/chemicals	- grease/oil		50	50	0
14		- rubber		71	29	0
15		- stamp colou	ır	71	29	0
16		- tar		71	29	0
Ave	erage of 1-16			60	32	8
		No (%)	Yes (%)		No (%)	Yes (%)
	Stickiness	100%	0%	Seed-coat fragments	100%	0%

Table 22 2019

С	Country Tanzania Growth: Mwanza			Number o	of samples:	7
	Degree of contamination (%			mination (%)	
	Source of contamination			Non- existent/ insignificant	Moderate	Serious
1	Fabrics made of	- woven plast	ic	40	60	0
2		- plastic film		40	60	0
3		- jute/hessian	ı	56	44	0
4		- cotton		17	83	0
5	Strings made of	 woven plast 	ic	40	60	0
6		- plastic film		40	60	0
7		- jute/hessiar	ı	27	73	0
8		- cotton		17	83	0
9	Organic matter	- leaves, feat	hers, paper, leather etc.	40	60	0
10	Inorganic matter	- sand/dust		56	44	0
11		- rust		100	0	0
12		- metal/wire		100	0	0
13	Oily substances/chemicals	- grease/oil		56	44	0
14		- rubber		100	0	0
15		- stamp colou	ır	56	44	0
16		- tar		100	0	0
Ave	erage of 1-16			55	45	0
		No (%)	Yes (%)		No (%)	Yes (%)
	Stickiness	100%	0%	Seed-coat fragments	86%	14%

Africa

<u>Table 23</u> 2019

С	ountry Togo	Growth: T	ogo	Number of samples:		8
				Degree of conta	mination (%	,)
	Source of contamination			Non- existent/ insignificant	Moderate	Serious
1	Fabrics made of	- woven plast	ic	45	55	0
2		 plastic film 		60	40	0
3		- jute/hessian	ı	78	22	0
4		- cotton		45	55	0
5	Strings made of	 woven plast 	ic	45	55	0
6		 plastic film 		45	55	0
7		- jute/hessian	ı	45	55	0
8		- cotton		23	77	0
9	Organic matter	- leaves, feat	hers, paper, leather etc.	45	55	0
10	Inorganic matter	- sand/dust		70	0	30
11		- rust		100	0	0
12		- metal/wire		78	22	0
13	Oily substances/chemicals	- grease/oil		100	0	0
14		- rubber		100	0	0
15		- stamp colou	ır	100	0	0
16		- tar		100	0	0
Ave	erage of 1-16			68	31	2
		No (%)	Yes (%)		No (%)	Yes (%)
	Stickiness	100%	0%	Seed-coat fragments	75%	25%

Table 24 2019

С	Country Uganda Growth: Uganda Number of sample		of samples:	9		
				Degree of conta)	
	Source of contamination			Non- existent/ insignificant	Moderate	Serious
1	Fabrics made of	- woven plast	ic	46	31	23
2		- plastic film		46	31	23
3		- jute/hessian		58	17	25
4		- cotton		46	31	23
5	Strings made of	 woven plast 	ic	33	27	40
6		- plastic film		46	31	23
7		- jute/hessian		46	31	23
8		- cotton		27	53	20
9	Organic matter	- leaves, featl	ners, paper, leather etc.	36	43	21
10	Inorganic matter	- sand/dust		80	20	0
11		- rust		100	0	0
12		- metal/wire		64	36	0
13	Oily substances/chemicals	- grease/oil		80	20	0
14		- rubber		100	0	0
15		- stamp colou	r	80	20	0
16		- tar		64	36	0
Ave	erage of 1-16			60	27	14
		No (%)	Yes (%)		No (%)	Yes (%)
	Stickiness	89%	11%	Seed-coat fragments	67%	33%

Africa

 Table 25
 2019

С	ountry Zambia	Growth: Z	Zambia	Number of samples:		8	
				Degree of conta	5)		
	Source of contamination			Non- existent/ insignificant	Moderate	Serious	
1	Fabrics made of	- woven plas	tic	38	15	46	
2		- plastic film		29	29	43	
3		- jute/hessiar	١	33	67	0	
4		- cotton		21	57	21	
5	Strings made of	- woven plas	tic	38	15	46	
6		- plastic film		20	40	40	
7		- jute/hessiar	١	31	46	23	
8		- cotton		33	67	0	
9	Organic matter	- leaves, feat	hers, paper, leather etc.	31	46	23	
10	Inorganic matter	- sand/dust		45	55	0	
11		- rust		100	0	0	
12		- metal/wire		78	22	0	
13	Oily substances/chemicals	- grease/oil		100	0	0	
14		- rubber		100	0	0	
15		- stamp colou	ur	100	0	0	
16		- tar		100	0	0	
Αve	erage of 1-16			56	29	15	
		No (%)	Yes (%)		No (%)	Yes (%)	
	Stickiness	88%	13%	Seed-coat fragments	50%	50%	

Table 26 2019

С	Country Zimbabwe Growth: Zimbabwe Number of sample			of samples:	7	
				Degree of conta	mination (%)
	Source of contamination			Non- existent/ insignificant	Moderate	Serious
1	Fabrics made of	- woven plast	tic	40	60	0
2		- plastic film		25	50	25
3		- jute/hessian	ı	100	0	0
4		- cotton		50	20	30
5	Strings made of	 woven plast 	tic	27	73	0
6		- plastic film		36	36	27
7		- jute/hessian	ı	36	36	27
8		- cotton		36	36	27
9	Organic matter	- leaves, featl	hers, paper, leather etc.	14	43	43
10	Inorganic matter	- sand/dust		50	20	30
11		- rust		67	0	33
12		- metal/wire		50	20	30
13	Oily substances/chemicals	- grease/oil		100	0	0
14		- rubber		100	0	0
15		- stamp colou	ır	100	0	0
16		- tar		100	0	0
Ave	erage of 1-16			58	25	17
		No (%)	Yes (%)		No (%)	Yes (%)
	Stickiness	86%	14%	Seed-coat fragments	57%	43%

С	ountry Mexico	Growth: J	uarez	Number of samples:		6
				Degree of conta)	
	Source of contamination			Non- existent/ insignificant	Moderate	Serious
1	Fabrics made of	- woven plast	ic	44	22	33
2		 plastic film 		44	22	33
3		- jute/hessian	ı	63	0	38
4		- cotton		63	0	38
5	Strings made of	 woven plast 	ic	44	22	33
6		- plastic film		44	22	33
7		- jute/hessian	ı	100	0	0
8		- cotton		63	0	38
9	Organic matter	- leaves, feat	hers, paper, leather etc.	30	40	30
10	Inorganic matter	- sand/dust		30	40	30
11		- rust		63	0	38
12		- metal/wire		63	0	38
13	Oily substances/chemicals	- grease/oil		63	0	38
14		- rubber		100	0	0
15		- stamp colou	ır	100	0	0
16		- tar		100	0	0
Ave	erage of 1-16			63	11	26
		No (%)	Yes (%)		No (%)	Yes (%)
	Stickiness	67%	33%	Seed-coat fragments	50%	50%

Table 28 2019

С	ountry Mexico	Growth:	_aguna/elicias	Number	4	
				Degree of conta	amination (%	s)
	Source of contamination			Non- existent/ insignificant	Moderate	Serious
1	Fabrics made of	- woven plas	tic	29	29	43
2		- plastic film		13	50	38
3		- jute/hessiar	n	100	0	0
4		- cotton		50	0	50
5	Strings made of	- woven plas	etic	11	22	67
6		- plastic film		13	50	38
7		- jute/hessiar	n	100	0	0
8		- cotton		50	0	50
9	Organic matter	- leaves, feat	thers, paper, leather etc.	50	0	50
10	Inorganic matter	- sand/dust		29	29	43
11		- rust		100	0	0
12		- metal/wire		50	0	50
13	Oily substances/chemicals	- grease/oil		50	0	50
14		- rubber		100	0	0
15		- stamp color	ur	60	40	0
16		- tar		100	0	0
Αv	erage of 1-16			56	14	30
		No (%)	Yes (%)		No (%)	Yes (%
	Stickiness	50%	50%	Seed-coat fragments	75%	25%

Table 29 2019

С	Country Mexico Growth: Mexicali		Number o	of samples:	2	
				Degree of conta	mination (%	b)
	Source of contamination			Non- existent/ insignificant	Moderate	Serious
1	Fabrics made of	- woven plast	ic	33	67	0
2		 plastic film 		33	67	0
3		- jute/hessian	l	25	0	75
4		- cotton		33	67	0
5	Strings made of	 woven plast 	tic	25	0	75
6		- plastic film		25	0	75
7		- jute/hessian	ı	25	0	75
8		- cotton		33	67	0
9	Organic matter	- leaves, feat	hers, paper, leather etc.	25	0	75
10	Inorganic matter	- sand/dust		33	67	0
11		- rust		100	0	0
12		- metal/wire		100	0	0
13	Oily substances/chemicals	- grease/oil		33	67	0
14		- rubber		100	0	0
15		- stamp colou	ır	100	0	0
16		- tar		100	0	0
Ave	erage of 1-16			52	25	23
		No (%)	Yes (%)		No (%)	Yes (%)
	Stickiness	100%	0%	Seed-coat fragments	100%	0%

С	ountry Mexico	Growth: Mexico-Others		Number	Number of samples:	
				Degree of conta	ımination (%)
	Source of contamination			Non- existent/ insignificant	Moderate	Serious
1	Fabrics made of	- woven plast	ic	38	25	38
2		- plastic film		29	35	35
3		- jute/hessian		57	0	43
4		- cotton		62	15	23
5	Strings made of	- woven plast	ic	38	25	38
6		- plastic film		29	35	35
7		- jute/hessian		47	13	40
8		- cotton		47	13	40
9	Organic matter	- leaves, feath	ners, paper, leather etc.	16	53	32
10	Inorganic matter	- sand/dust		50	29	21
11		- rust		50	29	21
12		- metal/wire		40	40	20
13	Oily substances/chemicals	- grease/oil		47	13	40
14		- rubber		57	0	43
15		- stamp colou	r	62	15	23
16		- tar		75	0	25
A۷	erage of 1-16			46	21	32
		No (%)	Yes (%)	1	No (%)	Yes (%)
	Stickiness	90%	10%	Seed-coat fragments	60%	40%

Table 30	2019
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Country U.S.A.		Growth: 🛕	rizona	Number of samples:		10
				Degree of conta	mination (%	o)
	Source of contamination			Non- existent/ insignificant	Moderate	Serious
1	Fabrics made of	- woven plast	ic	67	33	0
2		- plastic film		82	18	0
3		- jute/hessian	ı	100	0	0
4		- cotton		82	18	0
5	Strings made of	 woven plast 	ic	100	0	0
6		- plastic film		100	0	0
7		- jute/hessian	ı	100	0	0
8		- cotton		82	18	0
9	Organic matter	- leaves, feat	hers, paper, leather etc.	43	57	0
10	Inorganic matter	- sand/dust		54	46	0
11		- rust		62	15	23
12		- metal/wire		100	0	0
13	Oily substances/chemicals	- grease/oil		62	15	23
14		- rubber		100	0	0
15		- stamp colou	ır	75	0	25
16		- tar		75	0	25
Ave	erage of 1-16			80	14	6
		No (%)	Yes (%)		No (%)	Yes (%)
	Stickiness	90%	10%	Seed-coat fragments	70%	30%

Table 31 2019

Country U.S.A. Growth: California		California	Number of samples:		20	
				Degree of conta	mination (%)
	Source of contamination			Non- existent/ insignificant	Moderate	Serious
1	Fabrics made of	- woven plast	ic	82	18	0
2		 plastic film 		74	26	0
3		- jute/hessian	l .	90	10	0
4		- cotton		90	10	0
5	Strings made of	 woven plast 	ic	90	10	0
6		- plastic film		74	26	0
7		- jute/hessian	l .	78	9	13
8		- cotton		90	10	0
9	Organic matter	- leaves, featl	hers, paper, leather etc.	74	26	0
10	Inorganic matter	- sand/dust		82	18	0
11		- rust		90	10	0
12		- metal/wire		100	0	0
13	Oily substances/chemicals	- grease/oil		82	18	0
14		- rubber		86	0	14
15		- stamp colou	ır	100	0	0
16		- tar		90	10	0
Ave	erage of 1-16			86	12	2
		No (%)	Yes (%)		No (%)	Yes (%)
	Stickiness	85%	15%	Seed-coat fragments	80%	20%

Table 32	2019
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Country U.S.A. Growth: EI P		I Paso	Number of samples:		3	
				Degree of conta	mination (%)
	Source of contamination			Non- existent/ insignificant	Moderate	Serious
1	Fabrics made of	- woven plast	ic	100	0	0
2		 plastic film 		50	50	0
3		- jute/hessian	ı	100	0	0
4		- cotton		100	0	0
5	Strings made of	 woven plast 	ic	50	50	0
6		 plastic film 		50	50	0
7		- jute/hessian	l .	100	0	0
8		- cotton		100	0	0
9	Organic matter	- leaves, feat	hers, paper, leather etc.	50	50	0
10	Inorganic matter	- sand/dust		50	50	0
11		- rust		100	0	0
12		- metal/wire		100	0	0
13	Oily substances/chemicals	- grease/oil		100	0	0
14		- rubber		100	0	0
15		- stamp colou	ır	100	0	0
16		- tar		100	0	0
Ave	erage of 1-16			84	16	0
		No (%)	Yes (%)		No (%)	Yes (%)
	Stickiness	67%	33%	Seed-coat fragments	100%	0%

Table 33 2019

ıaı	ne 33					2019
С	Country U.S.A. Growth: Memphis Territory Number of samples:				42	
				Degree of conta	mination (%)
	Source of contamination			Non- existent/ insignificant	Moderate	Serious
1	Fabrics made of	- woven plasti	С	78	4	18
2		- plastic film		65	23	12
3		- jute/hessian		100	0	0
4		- cotton		95	5	0
5	Strings made of	- woven plasti	С	77	17	6
6		 plastic film 		72	16	12
7		- jute/hessian		91	9	0
8		- cotton		100	0	0
9	Organic matter	 leaves, feath 	ers, paper, leather etc.	68	32	0
10	Inorganic matter	- sand/dust		83	17	0
11		- rust		100	0	0
12		- metal/wire		100	0	0
13	Oily substances/chemicals	- grease/oil		91	9	0
14		- rubber		100	0	0
15		- stamp coloui	r	100	0	0
16		- tar		100	0	0
Αv	erage of 1-16			89	8	3
		No (%)	Yes (%)		No (%)	Yes (%)
	Stickiness	83%	17%	Seed-coat fragments	79%	21%

Table 34 2019

Co	ountry U.S.A.	Growth: P	ima	Number of samples:		43
				Degree of conta	mination (%	,)
	Source of contamination			Non- existent/ insignificant	Moderate	Serious
1	Fabrics made of	- woven plast	ic	89	4	7
2		- plastic film		71	24	6
3		- jute/hessian		95	5	0
4		- cotton		95	5	0
5	Strings made of	- woven plast	ic	65	7	27
6		- plastic film		74	20	6
7		- jute/hessian		87	0	13
8		- cotton		95	5	0
9	Organic matter	- leaves, featl	hers, paper, leather etc.	47	47	5
10	Inorganic matter	- sand/dust		79	21	0
11		- rust		100	0	0
12		- metal/wire		100	0	0
13	Oily substances/chemicals	- grease/oil		85	9	6
14		- rubber		100	0	0
15		- stamp colou	ır	100	0	0
16		- tar		91	9	0
Ave	rage of 1-16			86	10	4
		No (%)	Yes (%)		No (%)	Yes (%)
	Stickiness	60%	40%	Seed-coat fragments	77%	23%

Table 35 2019

Country U.S.A. Growth:		Growth:	Rio Grande Val.	Number o	2	
				Degree of conta	mination (%	o)
	Source of contamination			Non- existent/ insignificant	Moderate	Serious
1	Fabrics made of	- woven plast	tic	100	0	0
2		- plastic film		100	0	0
3		- jute/hessiar	1	100	0	0
4		- cotton		100	0	0
5	Strings made of	 woven plast 	tic	100	0	0
6		 plastic film 		100	0	0
7		- jute/hessiar	1	100	0	0
8		- cotton		100	0	0
9	Organic matter	- leaves, feat	hers, paper, leather etc.	100	0	0
10	Inorganic matter	 sand/dust 		100	0	0
11		- rust		100	0	0
12		- metal/wire		100	0	0
13	Oily substances/chemicals	- grease/oil		100	0	0
14		- rubber		100	0	0
15		- stamp colou	ır	100	0	0
16		- tar		100	0	0
Ave	erage of 1-16			100	0	0
		No (%)	Yes (%)		No (%)	Yes (%)
	Stickiness	100%	0%	Seed-coat fragments	0%	100%

Country U.S.A.		Growth: S	outh Eastern	Number of samples:		14
				Degree of conta	mination (%	o)
	Source of contamination			Non- existent/ insignificant	Moderate	Serious
1	Fabrics made of	- woven plast	ic	100	0	0
2		- plastic film		75	25	0
3		- jute/hessian	1	100	0	0
4		- cotton		87	13	0
5	Strings made of	 woven plast 	ic	87	13	0
6		- plastic film		75	25	0
7		- jute/hessian	ı	75	25	0
8		- cotton		87	13	0
9	Organic matter	- leaves, feat	hers, paper, leather etc.	56	44	0
10	Inorganic matter	- sand/dust		65	35	0
11		- rust		100	0	0
12		- metal/wire		100	0	0
13	Oily substances/chemicals	- grease/oil		87	13	0
14		- rubber		100	0	0
15		- stamp colou	ır	100	0	0
16		- tar		100	0	0
Ave	erage of 1-16			87	13	0
		No (%)	Yes (%)		No (%)	Yes (%)
	Stickiness	86%	14%	Seed-coat fragments	64%	36%

Table 37 2019

Country U.S.A.		Growth: S	SouthEastern	Number of samples:		3
				Degree of conta	mination (%	<u> </u>
	Source of contamination			Non- existent/ insignificant	Moderate	Serious
1	Fabrics made of	- woven plast	tic	100	0	0
2		- plastic film		100	0	0
3		- jute/hessian	١	100	0	0
4		- cotton		100	0	0
5	Strings made of	 woven plast 	tic	100	0	0
6		 plastic film 		100	0	0
7		- jute/hessian	١	100	0	0
8		- cotton		100	0	0
9	Organic matter	- leaves, feat	hers, paper, leather etc.	20	80	0
10	Inorganic matter	- sand/dust		100	0	0
11		- rust		100	0	0
12		- metal/wire		100	0	0
13	Oily substances/chemicals	- grease/oil		100	0	0
14		- rubber		100	0	0
15		- stamp colou	ur	100	0	0
16		- tar		100	0	0
Ave	erage of 1-16			95	5	0
		No (%)	Yes (%)		No (%)	Yes (%)
	Stickiness	100%	0%	Seed-coat fragments	33%	67%

Table 38	2019
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Country U.S.A.		Growth: Texas H. Plains		Number of samples:		32
				Degree of conta	mination (%	o)
	Source of contamination			Non- existent/ insignificant	Moderate	Serious
1	Fabrics made of	- woven plast	ic	56	23	21
2		 plastic film 		57	29	14
3		- jute/hessian	ı	100	0	0
4		- cotton		81	11	8
5	Strings made of	 woven plast 	ic	68	32	0
6		 plastic film 		76	16	8
7		- jute/hessian	ı	94	6	0
8		- cotton		100	0	0
9	Organic matter	- leaves, feat	hers, paper, leather etc.	49	31	20
10	Inorganic matter	- sand/dust		71	21	8
11		- rust		88	12	0
12		- metal/wire		100	0	0
13	Oily substances/chemicals	- grease/oil		86	6	9
14		- rubber		100	0	0
15		- stamp colou	ır	100	0	0
16		- tar		100	0	0
Ave	erage of 1-16			83	12	6
			_			
		No (%)	Yes (%)		No (%)	Yes (%)
	Stickiness	84%	16%	Seed-coat fragments	72%	28%

Table 39 2019

Country U.S.A.		S.A. Growth: USA-Others		Number of samples:		18
				Degree of conta	mination (%	,)
	Source of contamination			Non- existent/ insignificant	Moderate	Serious
1	Fabrics made of	- woven plast	tic	52	24	24
2		- plastic film		24	30	45
3		- jute/hessiar	١	85	0	15
4		- cotton		64	36	0
5	Strings made of	- woven plast	tic	37	52	11
6		- plastic film		32	19	48
7		- jute/hessiar	١	65	9	26
8		- cotton		89	11	0
9	Organic matter	- leaves, feat	hers, paper, leather etc.	48	40	12
10	Inorganic matter	- sand/dust		64	36	0
11		- rust		80	20	0
12		- metal/wire		89	11	0
13	Oily substances/chemicals	- grease/oil		68	18	14
14		- rubber		85	0	15
15		- stamp colou	ur	89	11	0
16		- tar		89	11	0
Ave	erage of 1-16			66	20	13
		No (%)	Yes (%)		No (%)	Yes (%)
	Stickiness	67%	33%	Seed-coat fragments	72%	28%

Table 40	2019

Ö	ountry Argentina	Growth: 🛕	rgentina	Number of samples		11
		_		Degree of conta	mination (%) -
	Source of contamination			Non- existent/ insignificant	Moderate	Serious
1	Fabrics made of	- woven plast	tic	83	17	0
2		- plastic film		57	43	0
3		- jute/hessian	ı	64	14	21
4		- cotton		57	43	0
5	Strings made of	 woven plast 	tic	69	31	0
6		 plastic film 		69	31	0
7		- jute/hessian	ı	64	14	21
8		- cotton		69	31	0
9	Organic matter	- leaves, feat	hers, paper, leather etc.	28	56	17
10	Inorganic matter	- sand/dust		100	0	0
11		- rust		100	0	0
12		- metal/wire		100	0	0
13	Oily substances/chemicals	- grease/oil		83	17	0
14		- rubber		100	0	0
15		- stamp colou	ır	100	0	0
16		- tar		100	0	0
Ave	erage of 1-16			78	18	4
		No (%)	Yes (%)		No (%)	Yes (%)
	Stickiness	82%	18%	Seed-coat fragments	55%	45%

Table 41 2019

Country Brazil		Growth: Brazil		Number of samples:		65
				Degree of conta	mination (%	b)
	Source of contamination			Non- existent/ insignificant	Moderate	Serious
1	Fabrics made of	- woven plast	ic	71	21	8
2		- plastic film		62	27	11
3		- jute/hessian		81	19	0
4		- cotton		66	30	4
5	Strings made of	- woven plast	ic	77	19	4
6		- plastic film		74	18	8
7		- jute/hessian		78	22	0
8		- cotton		71	29	0
9	Organic matter	- leaves, feath	ners, paper, leather etc.	41	59	0
10	Inorganic matter	- sand/dust		63	30	7
11		- rust		86	14	0
12		- metal/wire		85	11	4
13	Oily substances/chemicals	- grease/oil		72	24	4
14		- rubber		94	6	0
15		- stamp colou	r	94	6	0
16		- tar		91	9	0
Ave	erage of 1-16			75	21	3
		No (%)	Yes (%)		No (%)	Yes (%)
	Stickiness	65%	35%	Seed-coat fragments	55%	45%

<u>Table 42</u> 2019

С	country Colombia Growth: Acala		Number of samples:		: 4	
				Degree of conta	mination (%	6)
	Source of contamination			Non- existent/ insignificant	Moderate	Serious
1	Fabrics made of	- woven plas	tic	60	40	0
2		- plastic film		33	67	0
3		- jute/hessia	n	60	40	0
4		- cotton		33	67	0
5	Strings made of	- woven plas	tic	50	0	50
6		- plastic film		50	0	50
7		- jute/hessia	n	100	0	0
8		- cotton		33	67	0
9	Organic matter	- leaves, fea	thers, paper, leather etc.	33	67	0
10	Inorganic matter	- sand/dust		100	0	0
11		- rust		100	0	0
12		- metal/wire		100	0	0
13	Oily substances/chemicals	- grease/oil		100	0	0
14		- rubber		100	0	0
15		- stamp colo	ur	100	0	0
16		- tar		100	0	0
Ave	erage of 1-16			72	22	6
		No (%)	Yes (%)		No (%)	Yes (%)
	Stickiness	75%	25%	Seed-coat fragments	75%	25%

Table 43 2019

Country Colombia		Growth: Coastal		Number o	2	
				Degree of conta	mination (%	b)
	Source of contamination			Non- existent/ insignificant	Moderate	Serious
1	Fabrics made of	- woven plas	tic	100	0	0
2		 plastic film 		33	67	0
3		- jute/hessia	n	100	0	0
4		- cotton		33	67	0
5	Strings made of	 woven plas 	tic	33	67	0
6		 plastic film 		33	67	0
7		- jute/hessia	n	100	0	0
8		- cotton		0	100	0
9	Organic matter	- leaves, fea	thers, paper, leather etc.	0	100	0
10	Inorganic matter	 sand/dust 		100	0	0
11		- rust		100	0	0
12		- metal/wire		100	0	0
13	Oily substances/chemicals	- grease/oil		100	0	0
14		- rubber		100	0	0
15		- stamp colo	ur	100	0	0
16		- tar		100	0	0
Ave	Average of 1-16		71	29	0	
		No (%)	Yes (%)		No (%)	Yes (%)
	Stickiness	100%	0%	Seed-coat fragments	50%	50%

C	Country Paraguay Growth: Paraguay		araguay	Number of samples:		2
				Degree of conta	mination (%	o)
	Source of contamination			Non- existent/ insignificant	Moderate	Serious
1	Fabrics made of	- woven plast	ic	100	0	0
2		- plastic film		0	100	0
3		- jute/hessian	ı	100	0	0
4		- cotton		0	100	0
5	Strings made of	 woven plast 	ic	25	0	75
6		- plastic film		25	0	75
7		- jute/hessian	ı	100	0	0
8		- cotton		0	100	0
9	Organic matter	- leaves, feat	hers, paper, leather etc.	0	100	0
10	Inorganic matter	- sand/dust		100	0	0
11		- rust		100	0	0
12		- metal/wire		100	0	0
13	Oily substances/chemicals	- grease/oil		100	0	0
14		- rubber		100	0	0
15		- stamp colou	ır	100	0	0
16		- tar		100	0	0
Ave	erage of 1-16			66	25	9
		No (%)	Yes (%)		No (%)	Yes (%)
	Stickiness	100%	0%	Seed-coat fragments	0%	100%

Table 45 2019

Country Peru		Growth: Pima		Number o	1	
				Degree of conta	mination (%)
	Source of contamination			Non- existent/ insignificant	Moderate	Serious
1	Fabrics made of	- woven plast	ic	100	0	0
2		 plastic film 		100	0	0
3		- jute/hessian		100	0	0
4		- cotton		100	0	0
5	Strings made of	 woven plast 	ic	100	0	0
6		 plastic film 		100	0	0
7		- jute/hessian		100	0	0
8		- cotton		100	0	0
9	Organic matter	 leaves, feath 	ners, paper, leather etc.	100	0	0
10	Inorganic matter	 sand/dust 		100	0	0
11		- rust		100	0	0
12		- metal/wire		100	0	0
13	Oily substances/chemicals	- grease/oil		100	0	0
14		- rubber		100	0	0
15		 stamp colou 	r	100	0	0
16		- tar		100	0	0
Ave	erage of 1-16			100	0	0
		No (%)	Yes (%)		No (%)	Yes (%)
	Stickiness	100%	0%	Seed-coat fragments	100%	0%

Country Peru		Growth: Tanguis		Number of samples:		1
				Degree of conta	mination (%	o)
	Source of contamination			Non- existent/ insignificant	Moderate	Serious
1	Fabrics made of	- woven plast	tic	100	0	0
2		- plastic film		100	0	0
3		- jute/hessiar	ı	100	0	0
4		- cotton		0	0	100
5	Strings made of	- woven plast	tic	100	0	0
6		- plastic film		100	0	0
7		- jute/hessiar	ı	100	0	0
8		- cotton		0	100	0
9	Organic matter	- leaves, feat	hers, paper, leather etc.	100	0	0
10	Inorganic matter	- sand/dust		100	0	0
11		- rust		100	0	0
12		- metal/wire		100	0	0
13	Oily substances/chemicals	- grease/oil		100	0	0
14		- rubber		100	0	0
15		- stamp colou	ır	100	0	0
16		- tar		100	0	0
Ave	erage of 1-16			88	6	6
		No (%)	Yes (%)		No (%)	Yes (%)
	Stickiness	100%	0%	Seed-coat fragments	0%	100%

Table 47 2019

С	ountry Peru	ntry Peru Growth: Peru-Others		Number o	of samples:	2	
				Degree of contamination (%)			
	Source of contamination			Non- existent/ insignificant	Moderate	Serious	
1	Fabrics made of	- woven plast	tic	33	67	0	
2		 plastic film 		33	67	0	
3		- jute/hessiar	1	100	0	0	
4		- cotton		100	0	0	
5	Strings made of	- woven plast	tic	33	67	0	
6		- plastic film		33	67	0	
7		- jute/hessiar	1	100	0	0	
8		- cotton		33	67	0	
9	Organic matter	- leaves, feat	hers, paper, leather etc.	25	0	75	
10	Inorganic matter	- sand/dust		33	67	0	
11		- rust		33	67	0	
12		- metal/wire		33	67	0	
13	Oily substances/chemicals	- grease/oil		25	0	75	
14		- rubber		25	0	75	
15		- stamp colou	ır	33	67	0	
16		- tar		100	0	0	
Ave	erage of 1-16		·	48	38	14	
		No (%)	Yes (%)		No (%)	Yes (%)	
	Stickiness	100%	0%	Seed-coat fragments	100%	0%	

Table 48 2019

С	ountry Afghanistan	Growth: 🛕	Afghanistan	Number of samples:		8
				Degree of conta	mination (%	o)
	Source of contamination			Non- existent/ insignificant	Moderate	Serious
1	Fabrics made of	- woven plast	tic	29	29	43
2		- plastic film		42	33	25
3		- jute/hessian	1	55	18	27
4		- cotton		50	0	50
5	Strings made of	 woven plast 	tic	5	20	75
6		 plastic film 		11	22	67
7		- jute/hessian	1	55	18	27
8		- cotton		55	18	27
9	Organic matter	- leaves, feat	hers, paper, leather etc.	13	50	38
10	Inorganic matter	- sand/dust		29	29	43
11		- rust		42	33	25
12		- metal/wire		42	33	25
13	Oily substances/chemicals	- grease/oil		100	0	0
14		- rubber		78	22	0
15		- stamp colou	ır	100	0	0
16		- tar		70	0	30
Ave	erage of 1-16			48	20	31
			_			
		No (%)	Yes (%)		No (%)	Yes (%)
	Stickiness	75%	25%	Seed-coat fragments	75%	25%

Table 49 2019

Country Australia		ntry Australia Growth: Australia		Number o	of samples:	34	
				Degree of contamination (%)			
	Source of contamination			Non- existent/ insignificant	Moderate	Serious	
1	Fabrics made of	- woven plast	tic	94	6	0	
2		- plastic film		82	11	8	
3		- jute/hessiar	1	94	6	0	
4		- cotton		84	16	0	
5	Strings made of	- woven plast	tic	79	21	0	
6		- plastic film		89	11	0	
7		- jute/hessiar	1	84	16	0	
8		- cotton		89	11	0	
9	Organic matter	- leaves, feat	hers, paper, leather etc.	79	21	0	
10	Inorganic matter	- sand/dust		94	6	0	
11		- rust		100	0	0	
12		- metal/wire		100	0	0	
13	Oily substances/chemicals	- grease/oil		89	11	0	
14		- rubber		100	0	0	
15		- stamp colou	ır	100	0	0	
16		- tar		100	0	0	
Ave	Average of 1-16		91	8	0		
		No (%)	Yes (%)		No (%)	Yes (%)	
	Stickiness	91%	9%	Seed-coat fragments	82%	18%	

Table 50 2019

Country China		Growth: 🖊	Anhui	Number	of samples:	1	
				Degree of contamination (%)			
	Source of contamination			Non- existent/ insignificant	Moderate	Serious	
1	Fabrics made of	- woven plast	tic	100	0	0	
2		- plastic film		0	100	0	
3		- jute/hessiar	1	100	0	0	
4		- cotton		0	100	0	
5	Strings made of	- woven plast	tic	100	0	0	
6		- plastic film		100	0	0	
7		- jute/hessiar	1	100	0	0	
8		- cotton		100	0	0	
9	Organic matter	- leaves, feat	hers, paper, leather etc.	100	0	0	
10	Inorganic matter	- sand/dust		100	0	0	
11		- rust		100	0	0	
12		- metal/wire		100	0	0	
13	Oily substances/chemicals	- grease/oil		100	0	0	
14		- rubber		100	0	0	
15		- stamp colou	ır	100	0	0	
16		- tar		100	0	0	
Ave	erage of 1-16			88	13	0	
		No (%)	Yes (%)		No (%)	Yes (%)	
	Stickiness	100%	0%	Seed-coat fragments	100%	0%	

Table 51 2019

С	ountry China	ntry China Growth: Hebei		Number o	of samples:	3	
				Degree of contamination (%)			
	Source of contamination			Non- existent/ insignificant	Moderate	Serious	
1	Fabrics made of	- woven plast	ic	20	80	0	
2		 plastic film 		20	80	0	
3		- jute/hessian		100	0	0	
4		- cotton		50	50	0	
5	Strings made of	 woven plast 	ic	50	50	0	
6		 plastic film 		50	50	0	
7		- jute/hessian		100	0	0	
8		- cotton		100	0	0	
9	Organic matter	 leaves, feath 	ners, paper, leather etc.	50	50	0	
10	Inorganic matter	 sand/dust 		50	50	0	
11		- rust		100	0	0	
12		- metal/wire		100	0	0	
13	Oily substances/chemicals	- grease/oil		100	0	0	
14		- rubber		100	0	0	
15		 stamp colou 	r	100	0	0	
16		- tar		100	0	0	
Ave	erage of 1-16			74	26	0	
		No (%)	Yes (%)		No (%)	Yes (%)	
	Stickiness	100%	0%	Seed-coat fragments	100%	0%	

<u>Table 52</u> 2019

С	ountry China	Growth: H	lenan	Number	of samples:	1	
				Degree of contamination (%)			
	Source of contamination			Non- existent/ insignificant	Moderate	Serious	
1	Fabrics made of	- woven plast	ic	100	0	0	
2		 plastic film 		0	100	0	
3		- jute/hessian	l .	100	0	0	
4		- cotton		0	100	0	
5	Strings made of	 woven plast 	ic	100	0	0	
6		 plastic film 		100	0	0	
7		- jute/hessian	l .	100	0	0	
8		- cotton		100	0	0	
9	Organic matter	- leaves, feat	hers, paper, leather etc.	100	0	0	
10	Inorganic matter	- sand/dust		100	0	0	
11		- rust		100	0	0	
12		- metal/wire		100	0	0	
13	Oily substances/chemicals	- grease/oil		100	0	0	
14		- rubber		100	0	0	
15		- stamp colou	ır	100	0	0	
16		- tar		100	0	0	
Ave	erage of 1-16			88	13	0	
		No (%)	Yes (%)		No (%)	Yes (%)	
	Stickiness	100%	0%	Seed-coat fragments	100%	0%	

Table 53 2019

Country China		China Growth: Hubai		Number o	of samples:	3	
				Degree of contamination (%)			
	Source of contamination			Non- existent/ insignificant	Moderate	Serious	
1	Fabrics made of	- woven plast	tic	0	57	43	
2		 plastic film 		0	57	43	
3		- jute/hessian	1	40	0	60	
4		- cotton		17	33	50	
5	Strings made of	 woven plast 	tic	0	100	0	
6		 plastic film 		0	57	43	
7		- jute/hessian	1	50	50	0	
8		- cotton		50	50	0	
9	Organic matter	- leaves, feat	hers, paper, leather etc.	0	57	43	
10	Inorganic matter	- sand/dust		20	80	0	
11		- rust		100	0	0	
12		- metal/wire		20	80	0	
13	Oily substances/chemicals	- grease/oil		50	50	0	
14		- rubber		100	0	0	
15		- stamp colou	ır	50	50	0	
16		- tar		100	0	0	
Ave	Average of 1-16		37	45	18		
		No (%)	Yes (%)		No (%)	Yes (%)	
	Stickiness	100%	0%	Seed-coat fragments	100%	0%	

 Table 54
 2019

Country China		Growth: S	Shandong	Number o	of samples:	6	
				Degree of contamination (%)			
	Source of contamination			Non- existent/ insignificant	Moderate	Serious	
1	Fabrics made of	- woven plast	tic	30	40	30	
2		- plastic film		18	55	27	
3		- jute/hessian	ı	63	0	38	
4		- cotton		30	40	30	
5	Strings made of	 woven plast 	tic	18	55	27	
6		- plastic film		18	55	27	
7		- jute/hessian	ı	71	29	0	
8		- cotton		50	50	0	
9	Organic matter	- leaves, feat	hers, paper, leather etc.	18	55	27	
10	Inorganic matter	- sand/dust		30	40	30	
11		- rust		63	0	38	
12		- metal/wire		100	0	0	
13	Oily substances/chemicals	- grease/oil		71	29	0	
14		- rubber		100	0	0	
15		- stamp colou	ır	100	0	0	
16		- tar		100	0	0	
Ave	erage of 1-16			55	28	17	
		No (%)	Yes (%)		No (%)	Yes (%)	
	Stickiness	100%	0%	Seed-coat fragments	83%	17%	

Table 55 2019

С	ountry China	China Growth: Xinjiang		Number o	of samples:	18	
				Degree of contamination (%)			
	Source of contamination			Non- existent/ insignificant	Moderate	Serious	
1	Fabrics made of	- woven plast	ic	33	67	0	
2		 plastic film 		16	75	9	
3		- jute/hessian	l .	71	29	0	
4		- cotton		54	33	13	
5	Strings made of	 woven plast 	ic	37	52	11	
6		 plastic film 		33	67	0	
7		- jute/hessian	l .	80	20	0	
8		- cotton		64	36	0	
9	Organic matter	- leaves, feat	hers, paper, leather etc.	19	71	10	
10	Inorganic matter	 sand/dust 		42	46	12	
11		- rust		89	11	0	
12		- metal/wire		71	29	0	
13	Oily substances/chemicals	- grease/oil		64	36	0	
14		- rubber		89	11	0	
15		- stamp colou	ır	89	11	0	
16		- tar		89	11	0	
Ave	Average of 1-16			59	38	3	
		No (%)	Yes (%)		No (%)	Yes (%)	
	Stickiness	94%	6%	Seed-coat fragments	78%	22%	

<u>Table 56</u> 2019

Country China Growth: China-Others		Number (of samples:	1		
			Degree of contamination (%)			
Source of contamination			Non- existent/ insignificant	Moderate	Serious	
1 Fabrics made of	- woven plas	tic	0	100	0	
2	- plastic film		0	100	0	
3	- jute/hessia	n	100	0	0	
4	- cotton		0	100	0	
5 Strings made of	- woven plas	tic	0	100	0	
6	- plastic film		0	100	0	
7	- jute/hessia	n	100	0	0	
8	- cotton		0	100	0	
9 Organic matter	- leaves, feat	thers, paper, leather etc.	0	100	0	
10 Inorganic matter	- sand/dust		100	0	0	
11	- rust		100	0	0	
12	- metal/wire		0	100	0	
13 Oily substances/chemicals	- grease/oil		100	0	0	
14	- rubber		100	0	0	
15	- stamp colo	ur	100	0	0	
16	- tar		100	0	0	
Average of 1-16			50	50	0	
	No (%)	Yes (%)		No (%)	Yes (%)	
Stickiness	100%	0%	Seed-coat fragments	100%	0%	

Table 57 2019

Country India		Growth:	СН	Number o	of samples:	20	
				Degree of contamination (%)			
	Source of contamination			Non- existent/ insignificant	Moderate	Serious	
1	Fabrics made of	- woven plast	ic	34	38	28	
2		 plastic film 		36	18	45	
3		- jute/hessian		42	19	39	
4		- cotton		18	42	39	
5	Strings made of	 woven plast 	ic	20	20	60	
6		 plastic film 		29	35	35	
7		- jute/hessian		18	36	46	
8		- cotton		29	29	43	
9	Organic matter	 leaves, feath 	ners, paper, leather etc.	7	57	36	
10	Inorganic matter	- sand/dust		22	38	41	
11		- rust		60	40	0	
12		- metal/wire		40	40	20	
13	Oily substances/chemicals	- grease/oil		40	40	20	
14		- rubber		58	31	12	
15		- stamp colou	r	50	29	21	
16		- tar		62	15	23	
Ave	Average of 1-16		35	33	32		
		No (%)	Yes (%)		No (%)	Yes (%)	
	Stickiness	85%	15%	Seed-coat fragments	60%	40%	

Table 58 2019

С	ountry India	Growth: H	 -4	Number	of samples:	4	
				Degree of contamination (%)			
	Source of contamination			Non- existent/ insignificant	Moderate	Serious	
1	Fabrics made of	- woven plast	ic	11	22	67	
2		 plastic film 		11	22	67	
3		- jute/hessian		11	22	67	
4		- cotton		0	18	82	
5	Strings made of	- woven plast	ic	10	0	90	
6		 plastic film 		11	22	67	
7		- jute/hessian		10	0	90	
8		- cotton		13	50	38	
9	Organic matter	- leaves, feath	ners, paper, leather etc.	10	0	90	
10	Inorganic matter	- sand/dust		11	22	67	
11		- rust		13	50	38	
12		- metal/wire		50	0	50	
13	Oily substances/chemicals	- grease/oil		29	29	43	
14		- rubber		29	29	43	
15		- stamp colou	r	60	40	0	
16		- tar		60	40	0	
Ave	erage of 1-16			21	23	56	
		No (%)	Yes (%)		No (%)	Yes (%)	
	Stickiness	75%	25%	Seed-coat fragments	75%	25%	

Table 59 2019

С	ountry India	ountry India Growth: J-34		Number o	of samples:	21
				Degree of contamination (%)		
	Source of contamination			Non- existent/ insignificant	Moderate	Serious
1	Fabrics made of	- woven plast	ic	29	16	55
2		 plastic film 		24	10	66
3		- jute/hessian	l .	23	25	53
4		- cotton		11	36	53
5	Strings made of	 woven plast 	ic	24	10	66
6		 plastic film 		21	9	70
7		- jute/hessian	l .	11	26	64
8		- cotton		18	14	68
9	Organic matter	- leaves, feat	hers, paper, leather etc.	15	13	72
10	Inorganic matter	- sand/dust		14	37	49
11		- rust		59	30	11
12		- metal/wire		39	24	36
13	Oily substances/chemicals	- grease/oil		44	19	38
14		- rubber		57	21	21
15		- stamp colou	ır	54	36	11
16		- tar		57	21	21
Ave	Average of 1-16		31	22	47	
		No (%)	Yes (%)		No (%)	Yes (%)
	Stickiness	86%	14%	Seed-coat fragments	33%	67%

Table 60 2019

С	ountry India	Growth: L	RA	Number o	of samples:	1
				Degree of contamination (%)		
	Source of contamination			Non- existent/ insignificant	Moderate	Serious
1	Fabrics made of	- woven plast	ic	100	0	0
2		 plastic film 		100	0	0
3		- jute/hessian		100	0	0
4		- cotton		100	0	0
5	Strings made of	 woven plast 	ic	100	0	0
6		 plastic film 		100	0	0
7		- jute/hessian		100	0	0
8		- cotton		100	0	0
9	Organic matter	- leaves, featl	ners, paper, leather etc.	0	0	100
10	Inorganic matter	- sand/dust		0	0	100
11		- rust		100	0	0
12		- metal/wire		0	0	100
13	Oily substances/chemicals	- grease/oil		0	0	100
14		- rubber		0	0	100
15		- stamp colou	r	0	0	100
16		- tar		0	0	100
Ave	erage of 1-16			56	0	44
		No (%)	Yes (%)		No (%)	Yes (%)
	Stickiness	0%	100%	Seed-coat fragments	0%	100%

Table 61 2019

С	ountry India	untry India Growth: MCU-5		Number o	of samples:	26
				Degree of contamination (%)		
	Source of contamination			Non- existent/ insignificant	Moderate	Serious
1	Fabrics made of	- woven plast	ic	17	31	52
2		 plastic film 		20	32	48
3		- jute/hessian		29	31	40
4		- cotton		20	37	43
5	Strings made of	 woven plast 	ic	12	21	67
6		- plastic film		18	35	47
7		- jute/hessian		17	26	57
8		- cotton		26	35	39
9	Organic matter	 leaves, feath 	ners, paper, leather etc.	9	34	57
10	Inorganic matter	 sand/dust 		20	37	43
11		- rust		56	35	9
12		- metal/wire		25	55	20
13	Oily substances/chemicals	- grease/oil		42	42	16
14		- rubber		46	38	16
15		- stamp colou	r	46	38	16
16		- tar		59	24	18
Ave	Average of 1-16			29	34	37
		No (%)	Yes (%)		No (%)	Yes (%)
	Stickiness	92%	8%	Seed-coat fragments	54%	46%

Table 62 2019

С	ountry India	Growth: S	Shankar-4/6	Number (of samples:	42
				Degree of conta	amination (%)
	Source of contamination			Non- existent/ insignificant	Moderate	Serious
1	Fabrics made of	- woven plast	ic	22	20	59
2		 plastic film 		21	30	49
3		- jute/hessian	ı	32	38	30
4		- cotton		19	40	41
5	Strings made of	 woven plast 	tic	19	24	57
6		 plastic film 		18	26	56
7		- jute/hessian	ı	20	32	48
8		- cotton		25	29	47
9	Organic matter	- leaves, feat	hers, paper, leather etc.	13	36	51
10	Inorganic matter	- sand/dust		25	47	29
11		- rust		59	30	11
12		- metal/wire		38	30	32
13	Oily substances/chemicals	- grease/oil		44	36	20
14		- rubber		77	17	6
15		- stamp colou	ır	67	27	6
16		- tar		72	16	12
Ave	Average of 1-16			36	30	35
		No (%)	Yes (%)		No (%)	Yes (%)
	Stickiness	83%	17%	Seed-coat fragments	100%	0%

Table 63 2019

С	ountry India	Growth:	ndia-Others	Number o	of samples:	11	
				Degree of contamination (%)			
	Source of contamination			Non- existent/ insignificant	Moderate	Serious	
1	Fabrics made of	- woven plast	ic	32	21	47	
2		 plastic film 		17	8	75	
3		- jute/hessian	l .	24	19	57	
4		- cotton		14	45	41	
5	Strings made of	 woven plast 	ic	18	27	55	
6		 plastic film 		13	25	63	
7		- jute/hessian	l .	9	52	39	
8		- cotton		19	38	43	
9	Organic matter	- leaves, feat	hers, paper, leather etc.	8	42	50	
10	Inorganic matter	- sand/dust		25	30	45	
11		- rust		53	27	20	
12		- metal/wire		64	14	21	
13	Oily substances/chemicals	- grease/oil		69	31	0	
14		- rubber		69	31	0	
15		- stamp colou	ır	83	17	0	
16		- tar		100	0	0	
Ave	Average of 1-16		39	27	35		
		No (%)	Yes (%)		No (%)	Yes (%)	
	Stickiness	91%	9%	Seed-coat fragments	27%	73%	

Table 64 2019

Country Israel Growth: Pima		ima	Number of samples:		4	
				Degree of conta	mination (%	o)
	Source of contamination			Non- existent/ insignificant	Moderate	Serious
1	Fabrics made of	- woven plast	ic	100	0	0
2		- plastic film		100	0	0
3		- jute/hessian		100	0	0
4		- cotton		100	0	0
5	Strings made of	- woven plast	ic	100	0	0
6		- plastic film		100	0	0
7		- jute/hessian		100	0	0
8		- cotton		100	0	0
9	Organic matter	- leaves, featl	hers, paper, leather etc.	60	40	0
10	Inorganic matter	- sand/dust		60	40	0
11		- rust		100	0	0
12		- metal/wire		100	0	0
13	Oily substances/chemicals	- grease/oil		100	0	0
14		- rubber		100	0	0
15		- stamp colou	ır	100	0	0
16		- tar		100	0	0
Ave	erage of 1-16			95	5	0
		No (%)	Yes (%)		No (%)	Yes (%)
	Stickiness	75%	25%	Seed-coat fragments	100%	0%

Table 65 2019

С	ountry Pakistan	Growth: 🖊	AmSeed 1505	Number o	of samples:	1	
				Degree of contamination (%)			
	Source of contamination			Non- existent/ insignificant	Moderate	Serious	
1	Fabrics made of	- woven plas	tic	100	0	0	
2		- plastic film		100	0	0	
3		 jute/hessiar 	ı	100	0	0	
4		- cotton		100	0	0	
5	Strings made of	- woven plas	tic	100	0	0	
6		- plastic film		100	0	0	
7		 jute/hessiar 	ı	100	0	0	
8		- cotton		100	0	0	
9	Organic matter	- leaves, feat	thers, paper, leather etc.	0	0	100	
10	Inorganic matter	- sand/dust		0	0	100	
11		- rust		100	0	0	
12		- metal/wire		100	0	0	
13	Oily substances/chemicals	- grease/oil		100	0	0	
14		- rubber		100	0	0	
15		- stamp colo	ur	100	0	0	
16		- tar		100	0	0	
Ave	Average of 1-16			88	0	13	
		No (%)	Yes (%)		No (%)	Yes (%)	
	Stickiness	100%	0%	Seed-coat fragments	100%	0%	

Table 66 2019

Country Pakistan	Growth: 🖊	AmSeed AFZAL	AFZAL Number of samp		nples: 3	
			Degree of conta	mination (%)	
Source of contamination			Non- existent/ insignificant	Moderate	Serious	
1 Fabrics made of	- woven plast	tic	100	0	0	
2	- plastic film		50	50	0	
3	- jute/hessiar	ı	40	0	60	
4	- cotton		20	80	0	
5 Strings made of	- woven plast	tic	100	0	0	
6	- plastic film		50	50	0	
7	- jute/hessiar	١	40	0	60	
8	- cotton		50	50	0	
9 Organic matter	- leaves, feat	hers, paper, leather etc.	50	50	0	
10 Inorganic matter	- sand/dust		100	0	0	
11	- rust		50	50	0	
12	- metal/wire		100	0	0	
13 Oily substances/chemicals	- grease/oil		100	0	0	
14	- rubber		100	0	0	
15	- stamp colou	ur	100	0	0	
16	- tar		100	0	0	
Average of 1-16			72	21	8	
	No (%)	Yes (%)		No (%)	Yes (%)	
Stickiness	100%	0%	Seed-coat fragments	100%	0%	

Table 67 2019

С	ountry Pakistan	Growth:	/NH93	Number o	7	
				Degree of contamination (%)		
	Source of contamination			Non- existent/ insignificant	Moderate	Serious
1	Fabrics made of	- woven plast	tic	56	44	0
2		- plastic film		36	36	27
3		- jute/hessiar	1	27	73	0
4		- cotton		7	53	40
5	Strings made of	- woven plast	tic	23	31	46
6		- plastic film		14	43	43
7		- jute/hessiar	1	17	83	0
8		- cotton		25	50	25
9	Organic matter	- leaves, feat	hers, paper, leather etc.	6	38	56
10	Inorganic matter	- sand/dust		17	83	0
11		- rust		56	44	0
12		- metal/wire		50	20	30
13	Oily substances/chemicals	- grease/oil		75	25	0
14		- rubber		100	0	0
15		- stamp colou	ır	75	25	0
16		- tar		67	0	33
Ave	Average of 1-16			41	41	19
		No (%)	Yes (%)		No (%)	Yes (%)
	Stickiness	100%	0%	Seed-coat fragments	43%	57%

Table 68 2019

C	Country Pakistan Growth: NAIB Number of samples		of samples:	6			
				Degree of contamination (%)			
	Source of contamination			Non- existent/ insignificant	Moderate	Serious	
1	Fabrics made of	- woven plast	ic	44	22	33	
2		- plastic film		30	40	30	
3		- jute/hessian	ı	20	80	0	
4		- cotton		8	67	25	
5	Strings made of	 woven plast 	ic	17	33	50	
6		- plastic film		7	29	64	
7		- jute/hessian	ı	9	91	0	
8		- cotton		33	67	0	
9	Organic matter	- leaves, feat	hers, paper, leather etc.	8	46	46	
10	Inorganic matter	- sand/dust		20	80	0	
11		- rust		50	50	0	
12		- metal/wire		18	55	27	
13	Oily substances/chemicals	- grease/oil		71	29	0	
14		- rubber		100	0	0	
15		- stamp colou	ır	71	29	0	
16		- tar		63	0	38	
Ave	erage of 1-16			36	45	20	
		No (%)	Yes (%)		No (%)	Yes (%)	
	Stickiness	100%	0%	Seed-coat fragments	67%	33%	

Table 69 2019

С	ountry Pakistan	Growth:	Pakistan- Others	Number o	of samples:	6
				Degree of conta	mination (%	o)
	Source of contamination			Non- existent/ insignificant	Moderate	Serious
1	Fabrics made of	- woven p	lastic	8	67	25
2		- plastic fil	m	8	67	25
3		- jute/hess	sian	30	40	30
4		- cotton		33	67	0
5	Strings made of	- woven p	lastic	9	91	0
6		- plastic fil	m	8	46	46
7		- jute/hess	sian	9	91	0
8		- cotton		50	50	0
9	Organic matter	- leaves, f	eathers, paper, leather etc.	0	77	23
10	Inorganic matter	- sand/dus	st	30	40	30
11		- rust		71	29	0
12		- metal/wii	re	71	29	0
13	Oily substances/chemicals	- grease/o	oil	100	0	0
14		- rubber		100	0	0
15		- stamp co	olour	100	0	0
16		- tar		100	0	0
Ave	Average of 1-16			46	43	11
		No (%)	Yes (%)		No (%)	Yes (%)
	Stickiness	100%	0%	Seed-coat fragments	50%	50%

Table 70 2019

C	ountry Tajikistan	Growth: L	ong Staples	Number o	of samples:	2
				Degree of contamination (%)		
	Source of contamination			Non- existent/ insignificant	Moderate	Serious
1	Fabrics made of	- woven plast	ic	100	0	0
2		 plastic film 		0	100	0
3		- jute/hessian	l .	0	100	0
4		- cotton		0	100	0
5	Strings made of	 woven plast 	ic	0	100	0
6		 plastic film 		0	100	0
7		- jute/hessian	ı	0	100	0
8		- cotton		0	100	0
9	Organic matter	- leaves, feat	hers, paper, leather etc.	0	100	0
10	Inorganic matter	- sand/dust		0	100	0
11		- rust		100	0	0
12		- metal/wire		100	0	0
13	Oily substances/chemicals	- grease/oil		0	100	0
14		- rubber		100	0	0
15		- stamp colou	ır	0	100	0
16		- tar		100	0	0
Ave	erage of 1-16			31	69	0
		No (%)	Yes (%)		No (%)	Yes (%)
	Stickiness	100%	0%	Seed-coat fragments	100%	0%

Table 71 2019

Country Tajikistan		Growth: Medium Staples		Number o	of samples:	8
				Degree of conta	mination (%	o)
	Source of contamination			Non- existent/ insignificant	Moderate	Serious
1	Fabrics made of	- woven plas	stic	7	93	0
2		- plastic film		14	86	0
3		- jute/hessia	n	60	40	0
4		- cotton		33	67	0
5	Strings made of	- woven plas	stic	6	59	35
6		- plastic film		6	59	35
7		- jute/hessia	n	33	67	0
8		- cotton		13	50	38
9	Organic matter	- leaves, fea	thers, paper, leather etc.	14	86	0
10	Inorganic matter	- sand/dust		45	55	0
11		- rust		33	67	0
12		- metal/wire		33	67	0
13	Oily substances/chemicals	- grease/oil		78	22	0
14		- rubber		60	40	0
15		- stamp colo	ur	78	22	0
16		- tar		78	22	0
Ave	erage of 1-16			37	56	7
		No (%)	Yes (%)		No (%)	Yes (%)
	Stickiness	88%	13%	Seed-coat fragments	63%	38%

Table 72 2019

С	ountry Turkmenistan	Number of samples: 1				
				Degree of conta	mination (%	6)
	Source of contamination			Non- existent/ insignificant	Moderate	Serious
1	Fabrics made of	- woven pla	stic	100	0	0
2		 plastic film 	ı	0	100	0
3		- jute/hessia	an	100	0	0
4		- cotton		100	0	0
5	Strings made of	- woven pla	stic	0	100	0
6		 plastic film 	ı	100	0	0
7		- jute/hessia	an	100	0	0
8		- cotton		100	0	0
9	Organic matter	- leaves, fea	athers, paper, leather etc.	0	100	0
10	Inorganic matter	- sand/dust		0	0	100
11		- rust		100	0	0
12		- metal/wire)	100	0	0
13	Oily substances/chemicals	- grease/oil		0	100	0
14		- rubber		100	0	0
15		- stamp cold	our	100	0	0
16		- tar		100	0	0
Ave	Average of 1-16			69	25	6
		No (%)	Yes (%)		No (%)	Yes (%)
	Stickiness	0%	100%	Seed-coat fragments	0%	100%

Table 73 2019

Country Turkmenistan		Growth: Medium Staples		Number o	Number of samples:		
				Degree of conta	mination (%	b)	
	Source of contamination			Non- existent/ insignificant	Moderate	Serious	
1	Fabrics made of	- woven p	plastic	20	80	0	
2		- plastic fi	lm	20	80	0	
3		- jute/hes	sian	50	50	0	
4		- cotton		100	0	0	
5	Strings made of	- woven p	plastic	20	80	0	
6		- plastic fi	lm	0	100	0	
7		- jute/hes	sian	20	80	0	
8		- cotton		20	80	0	
9	Organic matter	- leaves, f	feathers, paper, leather etc.	20	80	0	
10	Inorganic matter	- sand/du	st	100	0	0	
11		- rust		20	80	0	
12		- metal/wi	ire	20	80	0	
13	Oily substances/chemicals	- grease/o	oil	50	50	0	
14		- rubber		100	0	0	
15		- stamp c	olour	100	0	0	
16		- tar		100	0	0	
Ave	erage of 1-16			48	53	0	
		No (%)	Yes (%)		No (%)	Yes (%)	
	Stickiness	100%	0%	Seed-coat fragments	0%	100%	

Table 74 2019

	ountry Uzbekistan	Growth:	Medium Staples	Number (of samples:	2019
		_		Degree of conta	ımination (%	·)
	Source of contamination			Non- existent/ insignificant	Moderate	Serious
1	Fabrics made of	- woven plast	ic	0	100	0
2		- plastic film		0	100	0
3		- jute/hessian	1	100	0	0
4		- cotton		100	0	0
5	Strings made of	- woven plast	tic	0	100	0
6		- plastic film		0	100	0
7		- jute/hessian	1	0	100	0
8		- cotton		0	100	0
9	Organic matter	- leaves, feat	hers, paper, leather etc.	100	0	0
10	Inorganic matter	- sand/dust		100	0	0
11		- rust		0	100	0
12		- metal/wire		0	100	0
13	Oily substances/chemicals	- grease/oil		100	0	0
14		- rubber		100	0	0
15		- stamp colou	ır	100	0	0
16		- tar		100	0	0
Αve	erage of 1-16			50	50	0
		No (%)	Yes (%)		No (%)	Yes (%)
	Stickiness	100%	0%	Seed-coat fragments	0%	100%

Europe

Table 7	75	2019

Country Greece		ntry Greece Growth: Greece		Number o	of samples:	20
		Degree of conta	mination (%	o)		
	Source of contamination			Non- existent/ insignificant	Moderate	Serious
1	Fabrics made of	- woven plast	ic	60	40	0
2		 plastic film 		60	40	0
3		- jute/hessian	ı	90	10	0
4		- cotton		100	0	0
5	Strings made of	 woven plast 	ic	54	46	0
6		 plastic film 		54	46	0
7		- jute/hessian	ı	74	26	0
8		- cotton		67	33	0
9	Organic matter	- leaves, feat	hers, paper, leather etc.	27	55	18
10	Inorganic matter	- sand/dust		58	31	12
11		- rust		52	37	11
12		- metal/wire		74	26	0
13	Oily substances/chemicals	- grease/oil		64	24	12
14		- rubber		86	0	14
15		- stamp colou	ır	82	18	0
16		- tar		90	10	0
Ave	erage of 1-16			68	28	4
			_			
		No (%)	Yes (%)		No (%)	Yes (%)
	Stickiness	95%	5%	Seed-coat fragments	75%	25%

Table 76 2019

Country Spain		Growth: Spain		Number o	9	
				Degree of conta	mination (%	(
	Source of contamination			Non- existent/ insignificant	Moderate	Serious
1	Fabrics made of	- woven plast	ic	100	0	0
2		- plastic film		100	0	0
3		- jute/hessian		100	0	0
4		- cotton		100	0	0
5	Strings made of	- woven plast	ic	80	20	0
6		- plastic film		64	36	0
7		- jute/hessian		100	0	0
8		- cotton		80	20	0
9	Organic matter	- leaves, feath	ners, paper, leather etc.	20	80	0
10	Inorganic matter	- sand/dust		50	50	0
11		- rust		64	36	0
12		- metal/wire		64	36	0
13	Oily substances/chemicals	- grease/oil		64	36	0
14		- rubber		100	0	0
15		- stamp colou	r	80	20	0
16		- tar		80	20	0
Ave	erage of 1-16			78	22	0
		No (%)	Yes (%)		No (%)	Yes (%)
	Stickiness	89%	11%	Seed-coat fragments	44%	56%

Europe

Table	77	20 ⁻	19

C	ountry Turkey	Growth: Antalya		Number o	of samples:	3
		Degree of conta	mination (%	o)		
	Source of contamination			Non- existent/ insignificant	Moderate	Serious
1	Fabrics made of	- woven plast	tic	14	0	86
2		- plastic film		14	0	86
3		- jute/hessian	ı	100	0	0
4		- cotton		100	0	0
5	Strings made of	 woven plast 	tic	14	0	86
6		- plastic film		20	80	0
7		- jute/hessian	ı	20	80	0
8		- cotton		100	0	0
9	Organic matter	- leaves, feat	hers, paper, leather etc.	0	25	75
10	Inorganic matter	- sand/dust		100	0	0
11		- rust		100	0	0
12		- metal/wire		100	0	0
13	Oily substances/chemicals	- grease/oil		100	0	0
14		- rubber		100	0	0
15		- stamp colou	ır	100	0	0
16		- tar		100	0	0
Ave	erage of 1-16			68	12	21
		No (%)	Yes (%)		No (%)	Yes (%)
	Stickiness	100%	0%	Seed-coat fragments	0%	100%

Table 78 2019

Country Turkey		Growth: Cukurova / S. E.		Number of samples		9
				Degree of conta	mination (%)
	Source of contamination			Non- existent/ insignificant	Moderate	Serious
1	Fabrics made of	- woven plast	tic	33	27	40
2		- plastic film		24	24	53
3		- jute/hessiar)	46	31	23
4		- cotton		50	50	0
5	Strings made of	 woven plast 	tic	31	13	56
6		 plastic film 		36	43	21
7		- jute/hessiar	1	29	71	0
8		- cotton		46	31	23
9	Organic matter	- leaves, feat	hers, paper, leather etc.	5	50	45
10	Inorganic matter	 sand/dust 		18	47	35
11		- rust		25	38	38
12		- metal/wire		33	27	40
13	Oily substances/chemicals	- grease/oil		50	50	0
14		- rubber		64	36	0
15		- stamp colou	ır	50	50	0
16		- tar		80	20	0
Ave	erage of 1-16			39	38	23
				T		
		No (%)	Yes (%)		No (%)	Yes (%)
	Stickiness	78%	22%	Seed-coat fragments	56%	44%

Europe

Table 79	2019

Country Turkey Growth: Izmir		zmir	Number of samples:		10	
				Degree of conta	mination (%	,)
	Source of contamination			Non- existent/ insignificant	Moderate	Serious
1	Fabrics made of	- woven plast	ic	33	67	0
2		- plastic film		33	67	0
3		- jute/hessian		33	67	0
4		- cotton		33	67	0
5	Strings made of	- woven plast	ic	43	57	0
6		- plastic film		43	57	0
7		- jute/hessian		43	57	0
8		- cotton		33	67	0
9	Organic matter	- leaves, featl	hers, paper, leather etc.	11	74	16
10	Inorganic matter	- sand/dust		33	67	0
11		- rust		100	0	0
12		- metal/wire		67	33	0
13	Oily substances/chemicals	- grease/oil		54	46	0
14		- rubber		82	18	0
15		- stamp colou	ır	67	33	0
16		- tar		100	0	0
Ave	erage of 1-16			51	49	1
		No (%)	Yes (%)		No (%)	Yes (%)
	Stickiness	90%	10%	Seed-coat fragments	70%	30%

Table 80 2019

Country Turkey		Growth: Turkey-Others		Number of samples:		8
			Degree of contamination (%)			
	Source of contamination			Non- existent/ insignificant	Moderate	Serious
1	Fabrics made of	- woven plast	tic	19	25	56
2		 plastic film 		6	44	50
3		- jute/hessian	l	38	15	46
4		- cotton		20	40	40
5	Strings made of	- woven plastic		27	13	60
6		 plastic film 		27	13	60
7		- jute/hessian	l	50	0	50
8		- cotton		42	33	25
9	Organic matter	- leaves, feathers, paper, leather etc.		5	32	63
10	Inorganic matter	c matter - sand/dust		11	11	79
11		- rust		42	33	25
12		- metal/wire		29	29	43
13	Oily substances/chemicals	- grease/oil		55	18	27
14		- rubber		78	22	0
15		- stamp colour		78	22	0
16		- tar		100	0	0
Average of 1-16			39	22	39	
		No (%)	Yes (%)		No (%)	Yes (%)
	Stickiness	75%	25%	Seed-coat fragments	25%	75%