

Pakistan
Wheat

Standards	Seed Classes				
	Pre-basic	Basic	Certified	Approved	Truthfully labelled
Field Standards					
Rotation (min. years)	1	1	1		
Isolation (min. meters) ^a	10	10	3		
Other varieties (max. %)	None	0.05	0.2	1	
Other species (max. %)	None	None	0.05	0.1	
Objectionable weed plants (max. %)	None	None	0.02	0.05	
Infected plants (max. %) ^b	None	None	0.2		
Seed Standards					
Pure seed (min. %)	99.99	98	98	97	97
Other distinguishable varieties (max. %)	None	0.05	0.2	1	
Other crop seeds (max. %)	None	None	0.05	0.2	0.1
Objectionable weed seeds (max. no/kg) ^c	None	None	5	15	0.05
Inert matter (max. %)	0.01	2	2	2	2
Infected seeds (max. %)					
Germination (min. %)	85	85	85	85	75
Moisture content (max. %)	12	12	12	12	

^a An isolation distance of at least of 150m for Prebasic, Basic and Certified seed shall be provided from a source of loose smut

^b Objectionable weeds are *Asphodelus* spp., *Avena fatua*, *Carthamus oxyacantha* and *Convolvulus arvensis*

^c Seed borne diseases are loose smut (*Ustilago nuda f.s.p. tritici*)

NB: Additional information on Pakistan is based on Minimum Crop and Seed Certification Standards (eds. S. I. Ahmed and S.M.M. Gilani) published by Federal Seed Certification Department, Islamabad, Pakistan in 1993; Truthfully-labeled standards referred to seed standards viz; purity, inert matter, other crop seeds/weed seeds, objectionable/noxious weed seeds and are expressed in %

Pakistan

Barley, Oats and Triticale

Standards	Seed Classes				
	Pre-basic	Basic	Certified	Approved ^a	Truthfully labelled ^b
Field Standards					
Rotation (min. years)	1	1	1		
Isolation (min. meters)	10	10	3		
Offtypes (max. %)	None	0.05	0.1	1	
Other species (max. %)	None	None	0.05	0.1	
Objectionable weed plants (max. %) ^c	None	None	0.02	0.05	
Infected plants (max. %)					
Seed Standards					
Pure seed (min. %)	99.5	98	98	97	97
Other distinguishable varieties (max. %)	None	0.05	0.2	1	
Other crop seeds (max. %)	None	None	0.1	0.2	0.1
Weed seeds (max. %)	None	None	0.05		
Objectionable weed seeds (max. No/kg)				5/10 ^d	0.05
Inert matter (max. %)	0.5	2	2	2	2.10/2 ^e
Infected seeds (max. %)					
Germination (min. %)	85	85	85	85	75
Moisture content (max. %)	12	12	12		
^a Information is available for barley and oats only ^b Information available for barley and triticale only ^c Objectionable weeds are <i>Asphodelus</i> spp., <i>Avena fatua</i> , <i>Carthamus oxyacantha</i> and <i>Convolvulus arvensis</i> ^d For barley and oats respectively ^e For barley and triticale respectively					

Pakistan*Rice*

Standards	Seed Classes				
	Pre-basic	Basic	Certified	Approved	Truthfully labelled
Field Standards					
Rotation (min. years)	1	1	1		
Isolation (min. meters)	10	10	3		
Offtypes (max. %)	None	0.05	0.1	1	
Other species (max. %)	None	None	None	None	
Objectionable weed plants (max. %) ^a	None	None	0.02	0.05	
Infected plants (max. %)	None	None	0.1		
Seed Standards					
Pure seed (min. %)	99.99	98	98	97	97
Other distinguishable varieties (max. %)	None	0.05	0.1	1	
Other crop seeds (max. %)					
Weed seeds (max. %)	None	None	0.02	0.2	0.2
Objectionable weed seeds (max. No/kg)	None	None	5	15	0.05
Inert matter (max. %)	0.01	1	1.5	2	2
Infected seeds (max. %)					
Germination (min. %)	80	80	80	80	75
Moisture content (max. %)	12	12	12		

^a Objectionable weeds are *Oryza sativa var fatua*

Pakistan*Maize*

Standards	Seed Classes				
	Pre-basic	Basic	Certified	Approved	Truthfully labelled
Field Standards					
Rotation (min. years)	None	None	None	None	
Isolation (min. meters)	400	400	200		
Offtypes (max. %)	1	1	1	1	
Other species (max. %)	None	None	None	None	
Objectionable weed plants (max. %)	None	None	None	None	
Infected plants (max. %)					
Seed Standards					
Pure seed (min. %)	99.99	98	98	97	97
Other distinguishable varieties (max. %)	None	0.5	1	1	
Offtype ears/off-colored ears (max %)	1/2	1/2	1/2		
Other crop seeds (max. %)					
Weed seeds (max. %)	None	None	None	None	None
Objectionable weed seeds (max. no/kg)	None	None	None	None	None
Inert matter (max. %)	0.01	2	2	2	2
Infected seeds (max. %)					
Germination (min. %)	90	90	90	90	70
Moisture content (max. %)	12	12	12	12	

Pakistan

Maize (Hybrid)

Standards	Seed Classes		
	Certified	Approved	Truthfully labelled
Field Standards			
Rotation (min. years)	None		
Isolation (min. meters) ^a	300		
Other varieties (max. %)	1	1	
Other species (max. %)	None	None	
Objectionable weed plants (max. %)	None	None	
Infected plants (max. %)			
Seed Standards			
Pure seed (min. %)	98	97	97
Other distinguishable varieties (max. %)	0.5	1	
Offtype ears/off-colored ears (max %)	0.5/1		
Other crop seeds (max. %)			
Weed seeds (max. %)	None	None	None
Objectionable weed (max. No/kg)	None	None	
Inert matter (max. %)	2	2	2
Infected seeds (max. %)			
Germination (min. %)	90	90	75
Moisture content (max. %)	12	12	

^a Isolation distance is 200m for varieties of the same kernel color/texture or 300 m for varieties of different kernel color/texture

Pakistan

Sorghum

Standards	Seed Classes		
	Pre-basic	Basic	Certified
Field Standards			
Rotation (min. years)	1	1	1
Isolation (min. meters)	300	300	200
Offtypes (max. %)	None	0.1	0.2
Other species (max. %)			
Objectionable weed plants (max. %) ^a	None	None	None
Infected plants (max. %) ^b	None	0.05	0.1
Seed Standards			
Pure seed (min. %)	99.5	98	98
Other distinguishable varieties (max. %)	None	0.1	0.2
Other crop seeds (max. %)	0.01	0.03	0.08
Weed seeds (max. %)	0.01	0.1	0.1
Objectionable weed seeds (max. %)	None	None	None
Inert matter (max. %)	0.5	2	2
Infected seeds (max. %)			
Germination (min. %)	80	80	80
Moisture content (max. %)	10	10	10
Moisture for vapor-proof containers	8	8	8

^a Objectionable weed plant is *Sorghum halepense*

^b Infected plants with *Sphacelotheca reiliana* and *S. sorghi*

Pakistan

Sorghum (Hybrid)

Standards	Seed Classes		
	Pre-basic	Basic	Certified
Field Standards			
Rotation (min. years)	1	1	1
Isolation (min. meters) ^a	300	300	200
Seed parent (pollen shedders, max. %) ^b	None	0.01	0.05
Offtypes (max. %)	None	0.01	0.05
Other species (max. %)			
Objectionable weed plants (max. %)	None	None	0.05
Infected plants (max. %) ^c	0.05	0.05	0.10
Seed Standards			
Pure seed (min. %)	99.5	98	98
Other distinguishable varieties (max. %)	None	0.01	0.05
Other crop seeds (max. %)	0.01	0.02	0.05
Weed seeds (max. %)	0.1	0.1	0.1
Objectionable weed seeds (max. %)	None	None	0.05
Inert matter (max. %)	0.5	2	2
Infected seeds (max. %)			
Germination (min. %)	80	80	80
Moisture content (max. %)	10	10	10

^a Isolation distance may be decreased to a minimum of 100m by planting one pollinating row for each 10m

^b The pollen shedders of seed parent should not be more than 0.05% for pre-basic and basic and 0.01% for certified seed

^c Infected plants refer to *Sphacelotheca reiliana* and *S. sorghi*

Pakistan

Pearl millet (Pennisetum typhoides)

Standards	Seed Classes			
	Pre-basic	Basic	Certified	Truthfully labelled
Field Standards				
Rotation (min. years)	1	1	1	
Isolation (min. meters) ^a	400	400	200	
Other varieties (max. %)	None	0.1	0.2	
Other species (max. %)				
Objectionable weed plants (max. %)				
Infected plants (max. %)				
Seed Standards				
Pure seed (min. %)	99.5	98	98	97
Other distinguishable varieties (max. %)	None	0.1	0.2	
Other crop seeds (max. %)	None	None	0.02	
Weed seeds (max. %)	None	0.02	0.05	0.1
Objectionable weed seeds (max. %)				0.05
Inert matter (max. %)	0.5	2	2	2
Infected seeds (max. %)				
Germination (min. %)	75	75	70	
Moisture content (max. %)	12	12	12	
Moisture for vapor-proof containers	8	8	8	

^a For cross-pollinated varieties

Pakistan*Chickpea*

Standards	Seed Classes				
	Pre-basic	Basic	Certified	Approved	Truthfully labelled
Field Standards					
Rotation (min. years)	1	1	1		
Isolation (min. meters)	20	20	10		
Offtypes (max. %)	None	0.10	0.50	1	
Other species (max. %)	None	None	None	None	
Objectionable weed plants (max. %)	None	None	None	None	
Infected plants (max. %)	None	0.5	1		
Seed Standards					
Pure seed (min. %)	99.99	98	98	97	97
Other distinguishable varieties (max. %)	None	0.10	0.50	2	
Other crop seeds (max. %)	None	None	None	None	
Weed seeds (max. %)					0.2
Objectionable weed seeds (max. No/kg)	None	None	None	None	0.05
Inert matter (max. %)	None	2	2	2	2
Infected seeds (max. %)					
Germination (min. %)	75	75	75	75	70
Moisture content (max. %)	9	9	9		

Pakistan*Lentil*

Standards	Seed Classes			
	Pre-basic	Basic	Certified	Truthfully labelled
Field Standards				
Rotation (min. years)	1	1	1	
Isolation (min. meters)	Adequate	Adequate	Adequate	
Other varieties (max. %)	None	0.02	0.10	
Other species (max. %)	None	None	0.01	
Objectionable weed plants (max. %)				
Infected plants (max. %)				
Seed Standards				
Pure seed (min. %)	99.5	98	98	97
Other distinguishable varieties (max. %)	None	0.02	0.10	
Other crop seeds (max. %)	None	None	0.01	
Weed seeds (max. %)	None	None	0.01	0.2
Inert matter (max. %)	0.5	2	2	2
Infected seeds (max. %)				
Germination (min. %)	75	70	70	70
Moisture content (max. %)	10	10	10	
Moisture for vapor-proof containers	8	8	8	

Pakistan

Mash (Vigna mungo), Moth (Phaseolus aconitifolius) and Mung (Vigna radiata)

Standards	Seed Classes				
	Pre-basic	Basic	Certified	Approved ^a	Truthfully labelled
Field Standards					
Rotation (min. years)	1	1	1		
Isolation (min. meters)	5	5	3		
Offtypes (max. %)	None	0.02	0.10	1	
Other species (max. %)	None	0.01	0.01	0.1	
Objectionable weed plants (max. %)	None	None	None	0.05	
Infected plants (max. %)					
Seed Standards					
Pure seed (min. %)	99.5	98	98	97	97
Other distinguishable varieties (max. %)	None	0.02	0.1	1	
Other crop seeds (max. %)	None	0.001	0.01	0.2	
Weed seeds (max. %)	None	None	0.1	0.2	0.2
Objectionable weed seeds (max. No/kg)				10	0.01
Inert matter (max. %)	0.5	2	2	2	2
Infected seeds (max. %)					
Germination (min. %)	75	70	70	70	70
Moisture content (max. %)	10	10	10		
Moisture for vapor-proof containers (max. %)	8	8	8		

^a Information is available for mung bean only

Pakistan*Soya bean*

Standards	Seed Classes				
	Pre-basic	Basic	Certified	Approved	truthfully labelled
Field Standards					
Rotation (min. years)	1	1	1		
Isolation (min. meters)	10	10	10		
Other varieties (max. %)	None	0.2	0.5	1	
Other species (max. %)				0.1	
Noxious weeds (max. %)				None	
Infected plants (max. %)					
Seed Standards					
Pure seed (min. %)	99.5	98	98	97	96
Other distinguishable varieties (max. %)	0.1	0.2	0.5	1	
Other crop seeds (max. %)	None	None	None	0.1	0.2
Weed seeds (max. %)	0.01	0.02	0.05		
Objectionable weed seeds (max. No/kg)				None	0.05
Inert matter (max. %)	0.5	2	2	2	3
Infected seeds (max. %)					
Germination (min. %)	85	80	80	80	70
Moisture content (max. %)	12	12	12		
Moisture for vapor-proof containers (max. %)	8	8	8		

Pakistan*Ground nut*

Standards	Seed Classes			
	Pre-basic	Basic	Certified	Truthfully labelled
Field Standards				
Rotation (min. years)	1	1	1	
Isolation (min. meters)	10	10	10	
Offtypes (max. %)	0.1	0.2	0.5	
Other species (max. %)				
Objectionable weed plants (max. %)				
Infected plants (max. %)				
Seed Standards				
Pure seed (min. %)	99.5	97	96	96
Other distinguishable varieties (max. %)	0.1	0.2	0.5	
Other crop seeds (max. %)	None	None	None	None
Weed seeds (max. %)	None	None	0.01	
Objectionable weed seeds (max. %)				None
Inert matter (max. %)	0.5	3	3	3
Infected seeds (max. %)				
Germination (min. %)	85	80	80	70
Moisture content (max. %)	9	9	9	
Moisture for vapor-proof containers (max. %)	5	5	5	

Pakistan

Rape and Mustard

Standards	Seed Classes				
	Pre-basic	Basic	Certified	Approved	Truthfully labelled
Field Standards					
Rotation (min. years)	1	1	1		
Isolation (min. meters)	400	400	200		
Offtypes (max. %)	None	0.05	0.2	1	
Other species (max. %)				0.1	
Objectionable weed plants (max. %) ^a	None	None	0.01	0.05	
Infected plants (max. %) ^b	None	0.1	0.2		
Seed Standards					
Pure seed (min. %)	99.99	98	98	97	97
Other distinguishable varieties (max. %)	None	0.05	0.2	1	
Other crop seeds (max. %)	None	0.05	0.2	0.5	0.2
Weed seeds (max. % or No/kg)	None	None	35	0.5	
Objectionable weed seeds (max. %/No/kg)	None	None	0.01	10	0.01
Inert matter (max. %)	0.1	2	2	2	
Infected seeds (max. %)					
Germination (min. %)	85	85	80	80	70
Moisture content (max. %)	10	10	10		
Moisture for vapor-proof containers (max. %)	5	5	5		

^a Objectionable weed is *Argemone mexicana*^b Seed borne diseases are *Alternaria* sp.

Pakistan*Safflower*

Standards	Seed Classes				
	Pre-basic	Basic	Certified	Approved ^a	Truthfully labelled
Field Standards					
Rotation (min. years)	2	2	2		
Isolation (min. meters)	400	400	200		
Offtypes (max. %)	0.01	0.05	0.10	1	
Other species (max. %)	None	0.01	0.03	0.1	
Objectionable weed plants (max. %) ^a	None	None	0.01	0.01?	
Infected plants (max. %)					
Seed Standards					
Pure seed (min. %)	99.5	98	98	97	97
Other distinguishable varieties (max. %)	0.01	0.05	0.1	1	
Other crop seeds (max. %)	None	0.01	0.03	0.3	
Weed seeds (max. %)	0.01	0.2	0.2	0.3	0.2
Objectionable weed seeds (max. % /No/kg)	None	None	0.01	10	0.01
Inert matter (max. %)	0.5	2	2	2	2
Infected seeds (max. %)					
Germination (min. %)	80	80	75	75	70
Moisture content (max. %)	12	12	12		
Moisture for vapor-proof containers (max. %)	8	8	8		

^a Objectionable weeds are *Carthamus oxyacantha* and *Convolvulus* sp.

Pakistan*Sesame*

Standards	Seed Classes			
	Pre-basic	Basic	Certified	Truthfully labelled
Field Standards				
Rotation (min. years)	1	1	1	
Isolation (min. meters)	50	50	25	
Offtypes (max. %)	None	0.10	0.2	
Other species (max. %)				
Objectionable weed plants (max. %)				
Infected plants (max. %)				
Seed Standards				
Pure seed (min. %)	99.5	96	96	96
Other distinguishable varieties (max. %)	None	0.1	0.2	
Other crop seeds (max. %)	None	0.05	0.1	
Weed seeds (max. %)	None	0.1	0.2	0.2
Objectionable weed seeds (max. %)				3
Inert matter (max. %)	0.5	4	4	3
Infected seeds (max. %)				
Germination (min. %)	75	75	75	70
Moisture content (max. %)	9	9	9	
Moisture for vapor-proof containers (max. %)	8	8	8	

Pakistan*Sunflower (Open pollinated and Hybrid)^a*

Standards	Seed Classes				
	Pre-basic	Basic	Certified	Approved	Truthfully labelled
Field Standards					
Rotation (min. years)	1	1	1		
Isolation (min. meters)	800	800	800		
Offtypes (max. %)	0.02	0.02	0.11		
Other species (max. %)				None	
Objectionable weed plants (max. %)				0.05	
Infected plants (max. %)					
Seed Standards					
Pure seed (min. %)	99.5	98	98	97	97
Other distinguishable varieties (max. %)	0.02	0.02	0.01	1	
Other crop seeds (max. %)	None	0.01	0.02	0.2	0.1
Weed seeds (max. %)	None	None	None	None	
Objectionable weed seeds (max. No/kg)				5	None
Inert matter (max. %)	0.5	2	2	2	
Infected seeds (max. %)					
Germination (min. %)	85	85	80	80	70
Moisture content (max. %)	12	12	12		
Moisture for vapor-proof containers (max. %)	8	8	8		

Pakistan

Cotton

Standards	Seed Classes				
	Pre-basic	Basic	Certified	Approved	Truthfully labelled
Field Standards					
Rotation (min. years)		1	1	1	
Isolation (min. meters)		50	50	20	
Offtypes (max. %) ^a (max. %)	None	0.1	0.2	2Other None	species
Noxious weeds (max. %)				None	
Seed Standards					
<i>American Cotton</i>					
Pure seed (min. %)	99.9	98	98	96	
Other distinguishable varieties (max. %)	None	0.1	0.2	2	
Desi varieties (max. %)	None	None	None		
Other crops/Weed seeds (max. %)				0.2	
Objectionable weed (max. no/kg)				None	
Inert matter (max. %)	0.1	2	2	2	
Germination (min. %) ^b	80	80	75	75	
<i>Desi Cotton</i>					
Pure seed (min. %)	99.9	98	98		
Other distinguishable varieties (max. %)	None	None	None		
Other crop seeds					
Weed seeds					
Inert matter (max. %)	0.1	2	2		
Germination (min. %) ^b	80.0	75	70		

^a There shall be no desi cotton varieties in American cotton varieties

^b In Sindh province germination for American and desi cotton seed shall be 75%, 70% and 70% for pre-basic, basic and certified seed classes, respectively

Pakistan*Sugar beet*

Standards	Seed Classes		
	Pre-basic	Basic	Certified
Field Standards			
Rotation (min. years)	1	1	1
Isolation (min. meters)	1600	1600	1000
Offtypes (max. %)	None	0.1	0.2
Other species (max. %)			
Objectionable weed plants (max. %)			
Seed Standards			
Pure seed (min. %)	98	96	96
Other distinguishable varieties (max. %)	None	0.1	0.2
Other crop seeds (max. %)	None	0.1	0.2
Weed seeds (max. %)	None	0.1	0.2
Inert matter (max. %)	2	4	4
Germination (min. %)	70	70	65
Moisture (max. %)	9	9	9
Moisture for vapor-proof containers	8	8	8

Pakistan

Beans

Standards	Seed Classes		
	Pre-basic	Basic	Certified
Field Standards			
Isolation (min. meters)	Adequate	Adequate	Adequate
Offtypes (max. %) ¹	None	0.1	0.5
Infected plants (max. %) (Ashy stem blight, Anthracnose, Ascochyta blight and Mosaic)	None	0.5	1
Seed Standards			
Pure seed (Min. %)	99.9	98	98
Other distinguishable varieties (max. %)	None	0.1	0.5
Other crop seeds (max. %)	None	None	None
Weed seeds (max. %)	None	None	None
Inert matter (max. %)	0.1	2	2
Germination (Min. %) ²	75	70	70
Moisture (max. %)	9	9	9
Moisture for vapor-proof containers (max. %)	8	8	8

Pakistan*Cabbage*

Standards	Seed Classes		
	Pre-basic	Basic	Certified
Field Standards			
Isolation (min. meters)	1600	1600	1000
Offtypes (max. %) ^a	None	0.1	0.5
Infected plants (max. %) ^b	None	0.1	0.5
Plants affected by phyllody	None	0.5	1
Seed Standards			
Pure seed (Min. %)	99.9	98	98
Other distinguishable varieties (max. %)	None	0.1	0.5
Other crop seeds (max. %)	None	0.05	0.1
Weed seeds (max. %)	None	0.05	0.2
Inert matter (max. %)	0.1	2	2
Germination (Min. %)	75	70	70
Moisture (max. %)	7	7	7
Moisture for vapor-proof containers (max. %)	5	5	5

^a At and after flowering

^b Seed borne diseases such as black leg, black rot and soft rot

Pakistan*Carrot*

Standards	Seed Classes		
	Pre-basic Seed	Basic Seed	Certified Seed
Field Standards			
Isolation (min. meters)	1600	1600	1000
Offtypes (max. %) ^a	None	0.1	0.2
Seed Standards			
Pure seed (min, %)	98	97	95
Other distinguishable varieties (max. %)	None	0.1	0.2
Other crop seeds (max. %)	None	0.05	0.1
Weed seeds (max. %)	None	0.05	0.1
Inert matter (max. %)	2	3	5
Germination (Min. %)	65	60	60
Moisture (max. %)	8	8	8
Moisture for vapor-proof containers (max. %)	7	7	7

^a Percentage permitted after flowering

Pakistan*Cucumber*

Standards	Seed Classes		
	Pre-basic Seed	Basic Seed	Certified Seed
Field Standards			
Isolation (min. meters)	800	800	400
Offtypes (max. %) ^a	None	0.1	0.2
Noxious weeds (max. %) Wild cucurbits spp	None	None	None
Infected plants (max. %) Viruses ^b	0.01 None	0.1 0.1	0.2 0.5
Seed Standards			
Pure seed (Min. %)	99.9	98	98
Other distinguishable varieties (max. %)	None	0.1	0.2
Other crop seeds (max. %)	None	0.05	0.1
Weed seeds (max. %)	None	None	None
Objectionable weed seeds (max. %)	None	None	None
Inert matter (max. %)	0.1	2	2
Germination (min. %) ³	65	65	65
Moisture (max. %)	7	7	7
Moisture for vapor-proof containers (max. %)	6	6	6

^a At and after flowering^b Affected plants must be removed.

Pakistan*Egg plant*

Standards	Seed Classes		
	Pre-basic Seed	Basic Seed	Certified Seed
Field Standards			
Isolation (min. meters)	400	400	200
Offtypes (max. %)	None	0.1	0.2
Infected plants (max. %) (Phomopsis blight)	None	0.1	0.2
Seed Standards			
Pure seed (Min. %)	99.9	98	98
Other distinguishable varieties (max. %)	None	0.1	0.2
Other crop seeds (max. %)	None	None	None
Weed seeds (max. %)	None	None	None
Inert matter (max. %) (max. %)	0.1	2	2
Germination (min. %)	70	70	70
Moisture (max. %)	8	8	8
Moisture for vapor-proof containers (max. %)	6	6	6

Pakistan*Onion*

Standards	Seed Classes		
	Pre-basic Seed	Basic Seed	Certified Seed
Field Standards			
Isolation (min. meters)	1600	1600	800
Offtypes (max. %)	None	0.5	1
Seed Standards			
Pure seed (Min. %)	99.9	98	98
Other distinguishable varieties (max. %)	None	0.5	1
Other crop seeds (max. %)	None	0.05	0.1
Weed seeds (max. %)	None	None	0.2
Inert matter (max. %)	0.1	2	2
Germination (Min. %)	70	70	70
Moisture (max. %)	8	8	8
Moisture for vapor-proof containers (max. %)	5	5	5

Pakistan*Pepper*

Standards	Seed Classes		
	Pre-basic	Basic	Certified
Field Standards			
Isolation (min. meters)	400	400	200
Offtypes (max. %)	None	0.1	0.3
Infected plants (max. %)			
Anthracnose	None	0.1	0.5
Viruses ^a	None	0.05	0.2
Seed Standards			
Pure seed (Min. %)	99.9	98	98
Other distinguishable varieties (max. %)	None	0.1	0.3
Other Crop seeds (max. %)	None	0.05	0.1
Weed seeds (max. %)	None	0.05	0.1
Inert matter (max. %)	0.1	2	2
Germination (Min. %)	70	70	65
Moisture (max. %)	8	8	8
Moisture for vapor-proof containers (max. %)	6	6	6

^a Infected plants must be removed

Pakistan

Potato

Standards	Seed Classes					
	Pre-basic		Basic		Certified	
	1	2	1	2	1	2
Field Standards						
Rotation (min, years)	2	2	2	2	2	
Isolation (min, meters)	10	10	10	10	5	
Offtypes (max, %) ^{a,b}	None	None	0.5	0.5	1	
Infected plants (max. %)						
PVY ^b	None	None	0.5	0.5	0.5	
PLRV ^b	None	None	0.5	0.5	2	
PVX, PVA ^b	None	None	0.5	0.5	2	
Other viral diseases ^b	None	None	0.5	0.5	2	
Maximum all viruses ^b	None	None	1	2	4	
Fusarium wilt ^b	None	None	0.2	0.5	1	
Black leg ^c	None	None	0.5	0.5	1	
Rhizoctonia, Leafcurl ^c and mild Verticillium	None	None	5	5	10	
Verticillium (Alboratrum) ^d	None	None	1	1	3	
Brown rot & Ring rot ^c	None	None	None	None	None	
Early blight ^e , Late blight ^f						
Seed Standards (tubers)						
Other varieties	None		None	0.2	1	2
Inert matter (soil, etc.)	None		0.5	1	2	3
Infected tubers						
Dry rot	None		None	0.5	1	2
Wet rot	None		None	None	0.2	0.5
Early and late blight	None		None	None	None	None
Rhizoctonia ^g	None		0.50	0.5	1	2
Common scab ^h	None		None	0.5	1	2
Brown rot, Ring rot	None		None	None	None	None
Wart	None		None	None	None	None
Powdery scab	None		None	None	None	None
Black leg	None		None	None	0.5	1
Size of Tuber (mm) ⁱ						
Hill			33-65	33-55	33-55	33-55
Plain			30-45	30-45	30-45	30-45

^a If offtypes do not exceed 2% roguing can be recommended during first inspection; ^bSecond inspection; ^cAt any stage; ^d Second and third inspection ^e Only relevant if masking other diseases at any stage; ^f Haulms must be destroyed immediately at any stage; ^g Rhizoctonia with more than 1/20th of surface of tubers covered will be rejected; ^h Common scab with more than 1/20th of surface of tubers covered will be rejected; ⁱ Size of tubers 5% +/- of the given standard will be acceptable.

Pakistan*Tomato*

Standards	Seed Classes		
	Pre-basic	Basic	Certified
Field Standards			
Isolation (min. meters)	60	60	10
Off-type (max. %)	None	0.2	0.5
Infected plants (max. %) (Early blight, Leaf spot and Mosaic)	None	0.1	0.5
Seed Standards			
Pure seed (Min. %)	99.9	98	98
Other distinguishable varieties (max. %)	None	0.2	0.5
Other Crop seed (max. %)	None	0.05	0.1
Weed seeds (max. %)	None	None	None
Inert matter (max. %)	0.1	2	2
Germination (max. %)	70	70	70
Moisture (max. %)	8	8	8
Moisture for vapor-proof containers (max. %)	6	6	6

Pakistan*Water melon*

Standards	Seed Classes		
	Pre-basic	Basic	Certified
Field Standards			
Isolation (min. meters)	800	800	400
Offtypes (max. %) ^a	None	0.1	0.2
Noxious weeds (max. %) Wild cucurbits spp	None	None	None
Infected plants (max. %) Seed-borne diseases Viruses ^b	0.01 None	0.1 0.1	0.2 0.5
Seed Standards			
Pure seed (Min. %)	99.9	98	98
Others distinguishable varieties (max. %)	None	None	None
Other crop seeds (max. %)	None	0.05	0.1
Weed seeds (max. %)	None	None	None
Objectionable weed seed (max. %)	None	None	None
Inert matter (max. %)	0.1	2	2
Germination (Min. %) ³	65	65	60
Moisture (max. %)	7	7	7
Moisture for vapor-proof containers (max. %)	6	6	6

^a At and after flowering

^b Affected plants must be removed

Pakistan

Alfalfa and Berseem clover

Standards	Seed Classes			
	Pre-basic	Basic	Certified	Approved ^a
Field Standards				
Rotation (min. years)	2	2	2	
Isolation (min. meters)	400	200	50	
Offtypes (max. %)	0.1	0.25	1	2
Other species (max. %)				0.1
Objectionable weed plants (max. %) ^a	None	None	0.05	0.1
Infected plants (max. %)				
Seed Standards				
Pure seed (min. %)	99.5	98	98	96
Other distinguishable varieties (max. %)	0.1	0.25	1	2
Other crop seeds (max. %)	0.01	0.2	0.5	0.8
Weed seeds (max. %)	0.01	0.01	0.2	0.8
Objectionable weed seeds (max. %)	None	None	0.05	0.05
Inert matter (max. %)	0.5	2	2	2
Infected seeds (max. %)				
Germination (min. %)	85	80	80	80
Moisture content (max. %)	10	10	10	
Moisture for vapor proof containers (max. %)	7	7	7	

^a Objectionable weeds are *Cirsium arvensis*, *Convolvulus arvensis*, *Cuscuta* spp.