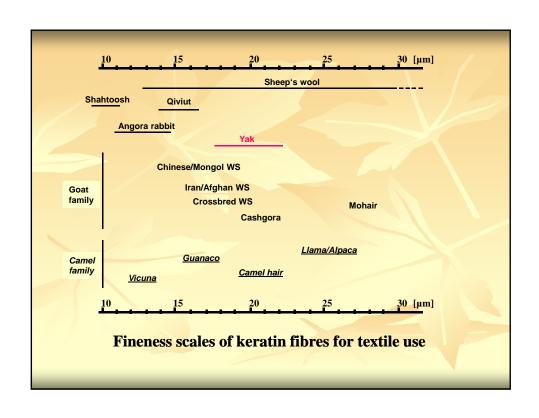


Breeds Fiber characteristics Scientific projects The Challenges Ahead

Dr. H. R. Ansari-Renani Animal Science Research Institute Tajikistan, 23 - 24, September 2009

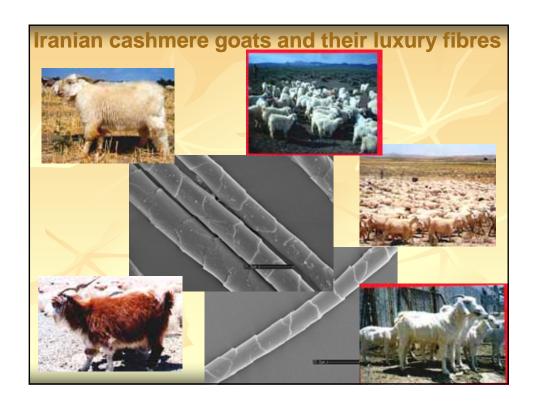
	1987	2004	Change [%]	
Goat family				
- Cashmere	5.000	8.000	+ 37	
- Mohair	24.000	7.500	- 69	
- Cashgora Camel family	200	?	-	
- Camel hair	2.000	2.000	+ 0	
- Lama/Alpaca	4.500	5.500		
- Vicuna/Guanaco	50	50	+ 0	
Angora rabbit hair	10.000	8.000	- 20	
<u>Yak</u>	200	1.000	+ 500	



	Longth	Price range
	<u>Length</u> (mm)	Price range (US\$/kg)
White	(11111)	(ΟΟψ/κς)
Long hair	36 - 40	72 - 94
Medium	30 - 34	58 - 72
Short	22 - 30	42 - 58
Brown		
Long hair	34 - 36	64 - 72
Medium	30 - 34	52 - 64
Short	22 - 30	36 - 52

Iranian goat population and ratio					
Goat breeds	Population		Ratio %		Production system
	1990	2000	1990	2004	
Marghoz Najdi Native Balck Raeini Tali Mixed Breed Unharacterized Crosses Total Goats*	* * * * * * * * 24,635,000	14,000 50,000 1,500,000 2,000,000 140,000 11,000,000 4,000,000 829,600 27,000,000	* * * * * *	0.05 0.19 5.56 7.4 0.52 40.7 14.8 30.73	Village Semi-nomadic, mixed crop livestock and village Nomadic, semi-nomadic and village Nomadic and semi-nomadic Mixed crop livestock and Village in small family flocks













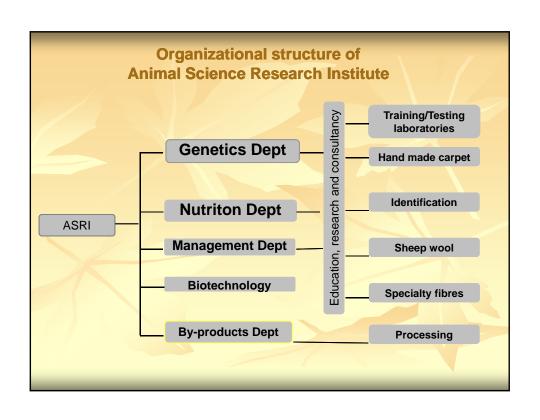




Cashmere characteristics by breeds

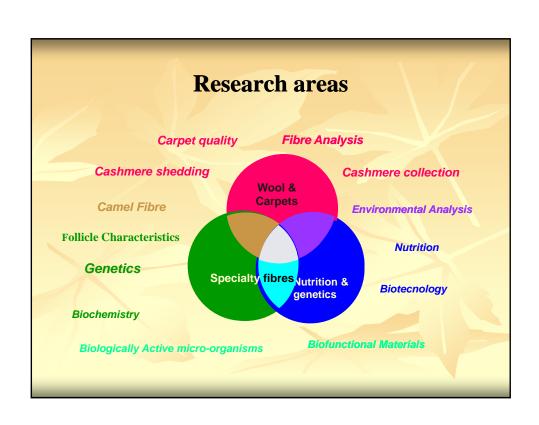
Name of breeds	Fiber diameter (mkm)	Non- medulated (%)	Medulated (%)
"Birjandi" Bucks Young bucks Does Young female goats	19.11 16.11 18.61 17.81	46.10 51.33 47.46 42.63	53.9 48.68 52.54 57.37
"Raeini" Bucks Young bucks Does Young female goats	18.2 17.82 17.58 17.65	63.12 70.44 56.20 71.36	36.80 29.56 43.80 28.64
"Nadushan" Does Young female goats	17.26 17.21	41.23 50.39	58.78 49.61

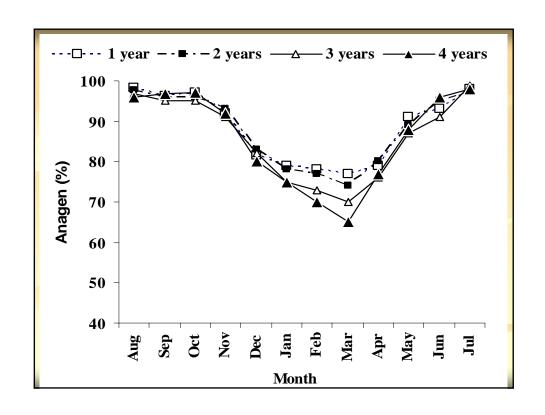
Name of breeds	S/P ratio	Primaries (mm2)	Secondaries (mm2)	P+S
"Birjandi" Bucks Young bucks Does Young female goats	8.88	2.07	24.47	20.53
	10.47	2.65	27.87	30.52
	9.44	2.70	26.75	29.45
	7.37	3.00	29.03	32.03
"Raeini" Bucks Young bucks Does Young female goats	12.86	3.35	37.35	40.70
	14.02	3.28	37.86	41.14
	13.47	2.81	36.65	39.46
	11.87	2.37	29.50	31.82
"Nadushan" Does Young female goats	8.86	2.97	27.80	30.77
	8.55	3.40	31.50	34.90



Research and technological projects on cashmere goats sponsored by the government

Duration	Main outcomes		
1990-1995	Fiber quality characteristics of different goat breeds bred in various ecological zones of Mongolia		
1996-2000	Production characteristics of cashmere fiber.		
1995-2005	New technology for breeding superior goats. Selection method based on genetic parameters of productivity and advanced reproduction techniques (AI) of cashmere goats		
2004-2006	Collection of cashmere, new feed resources, genetic relationship		
	1990-1995 1996-2000 1995-2005		







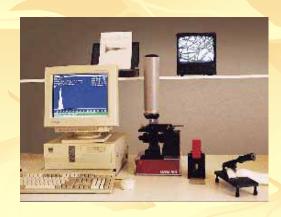
Cashmere & Wool laboratory

- CWL has been established as a division of Animal Science Research Institute (ASRI).
- CWTC is an independent testing laboratory determined to serving the Researchers and manufacturers.
- CWTC has skilled technicians and researchers.

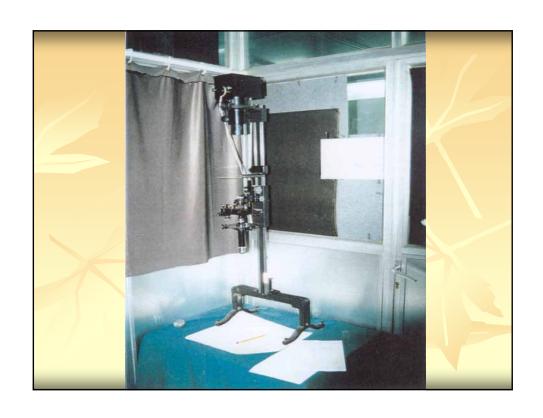
Mean fibre diameter

Projection microscopy IWTO-8, AATCC 20, ASTM D629

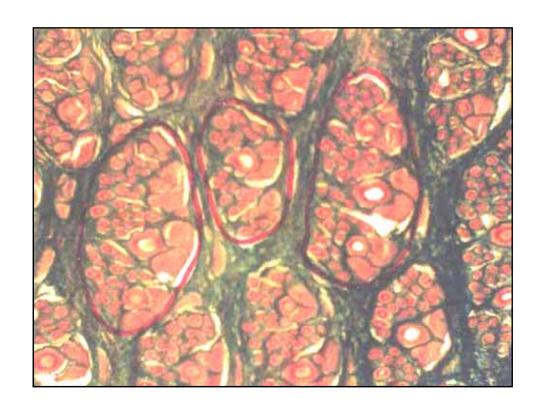
OFDA Technique IWTO-47













Quality criteria

Fibre fineness S/P ratio

Fibre length Follecle density

Staple strength Follicle activity

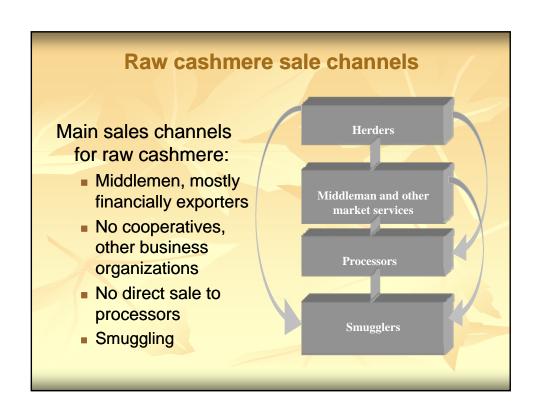
Colour Follicle morphology

Style Follicle histology

Purity

Grease and moisture content









How to support your cashmere industry

Government:

attractive for FDI business environment competitive financial services favorable trade negotiations vocational training
best practices benchmarking
better organized raw and processed cashmere markets
Businesses: target your goal

Markets Money Management Information access

Herders

don't play with genetics unless you are sure cooperatives – stronger voice, stronger bargaining education on cashmere quality

