

Supplementary 3: Shoulder height of modern sheep breeds found in Northern, Eastern, Southern and Western Africa

Breed	Location	Notes	Shoulder Height (cm)	Reference
Southern Africa				
Nguni	Makhathini Research Station, KwaZulu-Natal Province, South Africa	-	61.97±4.04	Oosthuizen, 2018
Nguni	Dundee Research Station, KwaZulu-Natal Province, South Africa	-	63.45±4.34	Oosthuizen, 2018
Pedi	Limpopo Province, South Africa	Ewe	60	Epstein, 1971
Fat-tailed haired	Former Transvaal Province, South Africa	Ewe	60	Ryder, 1983
Tswana	Botswana	Female, over 48 months of age	65.8±1.6 – 65.9±0.9	Monau et al., 2018
Unspecified indigenous breed. Possibly Nguni	Eastern Cape Province, South Africa	Rams	59.98	Tyasi et al., 2015
Sabi	Zimbabwe	-	60.4	Hall, 1999
Namaqua Afrikaner	Carnavon, Northern Cape province, South Africa	Rams	74.2±4.1	Qwabe, 2011

Namaqua Afrikaner	Carnavon, Northern Cape province, South Africa	Ewes	67.6±4.1	Qwabe, 2011
Dorper	Free State Province, South Africa	Improved breed. Yearling ewes	60.9±2.43	Van Rooyen et al., 2012
Thin-tailed hair	Angola, Zambia, Zimbabwe	-	60	Ryder, 1983
Eastern Africa				
Blackhead	Somalia	Female	59.97±0.21	Ferew, 2008
Blackhead	Somalia	Male	61.30±0.30	Ferew, 2008
Horro	Ethiopia	Ewe. 1 year old	59.2 ±1.20	Tibbo et al., 2004; cited in Edea, 2008
Horro	Ethiopia	Ram. 1 year old	59.9 ±1.20	Tibbo et al., 2004; cited in Edea, 2008
Horro	Ethiopia	Female	65.2 ± 3.00	Solomon, 2004; cited in Edea, 2008
Horro	Ethiopia	Male. 1 year old	61.91 ± 0.62	Kassahun, 2000; cited in Edea, 2008
Bonga	Ethiopia	Female	64.00	Tibbo & Ginbar, 2004; cited in Edea, 2008
Bonga	Ethiopia	Female	65.8 ± 2.7	Solomon, 2004; cited in Edea, 2008
Bonga	Ethiopia	Male	73.00	Tibbo & Ginbar, 2004; cited in Edea, 2008
Menz	Ethiopia	Male. 1 year old	59.89 ± 0.44	Kassahun, 2000; cited in Edea, 2008
Gumuz	Ethiopia	Ewe	63.59 ± 2.80	Solomon, 2007; cited in Edea, 2008
Gumuz	Ethiopia	Ram	68.31 ± 3.80	Solomon, 2007; cited in Edea, 2008

Central Highland	Ethiopia	Female	61.79 ± 4.80	Sisay, 2002; cited in Edea, 2008
Central Highland	Ethiopia	Male	64.72 ± 5.90	Sisay, 2002; cited in Edea, 2008
Rift Valley	Ethiopia	Female	60.02 ± 3.30	Sisay, 2002; cited in Edea, 2008
Rift Valley	Ethiopia	Male	60.94 ± 3.90	Sisay, 2002; cited in Edea, 2008
Washera	Ethiopia	Female	69.1 ± 0.20	Mengiste, 2008; cited in Edea, 2008
Washera	Ethiopia	Male	70.0 ± 1.90	Mengiste, 2008; cited in Edea, 2008
Fat-tailed haired	Eritrea, Ethiopia, Somalia	-	60	Ryder, 1983
Fat-tailed haired	Kenya	Ram	70	Ryder, 1983
Fat-tailed haired	Kenya	Ewe	60	Ryder, 1983
Fat-rumped haired	Somalia	-	65	Ryder, 1983
Fat-rumped haired	Sudan	-	55	Ryder, 1983
Western Africa				
Vina	Sudano Guinean zone, Cameroon	-	72.33±0.48	Bayeni et al., 2018
Mbere	Sudano Guinean zone, Cameroon	-	69.07±0.39	Bayeni et al., 2018
Djerem	Sudano Guinean zone, Cameroon	-	68.34±0.44	Bayeni et al., 2018
Mayo Banyo	Sudano Guinean zone, Cameroon	-	69.00±0.40	Bayeni et al., 2018

West African Dwarf Sheep	Ajegunle Abeokuta, Ogun State, Nigeria	Male	44.0 – 69.0 (average: 56.19)	Sowande & Sobola, 2008
West African Dwarf Sheep	Ajegunle Abeokuta, Ogun State, Nigeria	Female	34.0 – 66.0 (average: 52.73)	Sowande & Sobola, 2008
Thin-tailed hair	Sudan Desert	Ram	85	Ryder, 1983
Thin-tailed hair	Sudan Desert	Ewe	75	Ryder, 1983
Thin-tailed hair	Eritrea	Ram	100	Ryder, 1983
Thin-tailed hair	Eritrea	Ewe	85	Ryder, 1983
Thin-tailed hair Tuareg	West Africa (country not specified)	Ram	80	Ryder, 1983
Thin-tailed hair Tuareg	West Africa (country not specified)	Ewe	50	Ryder, 1983
Thin-tailed hair Maure	West Africa (country not specified)	-	80	Ryder, 1983
Thin-tailed hair Fulani	West Africa (country not specified)	-	70	Ryder, 1983
Thin-tailed hair	Democratic Republic of the Congo	-	70	Ryder, 1983
Tropical dwarf Nilotic	Sudan	-	55	Ryder, 1983
Tropical dwarf	Democratic Republic of the Congo	-	45	Ryder, 1983
Tropical dwarf	Cameroon	-	50	Ryder, 1983
Tropical dwarf	West Africa (country not specified)	-	50	Ryder, 1983

North Africa				
Thin-tailed woolly	Macina (country not specified)	-	70	Ryder, 1983
Thin-tailed woolly	Dongola (country not specified)	-	60	Ryder, 1983
Thin-tailed woolly	Zaghawa (country not specified)	Ram	80	Ryder, 1983
Thin-tailed woolly	Zaghawa (country not specified)	Ewe	70	Ryder, 1983
Thin-tailed woolly	Arrit (country not specified)	Ram	70	Ryder, 1983
Thin-tailed woolly	Arrit (country not specified)	Ewe	60	Ryder, 1983