

Supplementary Table S1: Breeds and characteristics of Iraqi cattle

Region	Specific Characteristics	Weight (kg)
Rustaqi (Al-Murrani <i>et al.</i> , 2003; Al-Bayatti <i>et al.</i> , 2016)		
Central Iraq (Baghdad and Babylon provinces)	Brown, black to grey in color, not pigmented skin, small size/male and no hump in female, tolerant to heat stress, endemic diseases and parasites.	450 kg (male) 400 kg (female)
Jenoubi (Al-Murrani <i>et al.</i> , 2003)		
Southern Iraq (Basra, Maysan)	Red and sometimes pied color	325 kg (male) 309 kg (female)
Karradi (Al-Murrani <i>et al.</i> , 2003)		
Northern Iraq (Kurdistan)	Mostly black tend to be brown with light spots	300 kg (male) 220 kg (female)
Sharabi (Al-Murrani <i>et al.</i> , 2003; Maarroof, 2011)		
Northern Iraq (Tigris Valley, North of Mosul)	Black and white color with white line dividing all the body.	400 kg (male) 295 kg (female)