

Table S1: National counts of the wintering individuals of the Ferruginous duck per year and per site

Site code	Site name	Y	X	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017		
1030	Marais de l'wad Smir	35,710279	-5,342979	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	0	0	7	0	X	0	0	0	0	8			
1031	Barrage de Smir	35,683615	-5,388875	X	X	X	X	X	X	X	X	X	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	X	X	X	0	10	X	0	X			
1070	Embouchure de l'wad Martil	35,606983	-5,278080	X	X	X	X	X	X	X	0	0	0	X	0	X	0	X	0	0	X	X	0	X	0	X	0	X	X	X	X	X	0	0	12	X	0			
1075	Marécages de Cuelma	35,566661	-5,323567	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	2	X	X	X				
1090	Sadd Al Ajras	35,566796	-5,494172	X	X	0	X	X	0	0	0	0	0	0	0	0	0	0	X	2	0	0	0	0	X	X	X	X	0	X	X	X	X	X	X	X				
1140	Marais du bas Loukkos	35,149080	-6,087594	X	0	9	0	0	19	17	0	17	63	68	0	0	10	4	0	0	0	0	20	0	6	0	4	9	14	68	13	0	0	5	61	24	6	19		
1150	Merja des Wlad Skher	35,051329	-6,207286	X	X	X	X	X	X	0	2	2	0	0	2	0	X	0	0	0	0	6	0	0	0	0	0	0	X	10	0	X	0	0	0	0	0			
1170	Merja Bargha	35,015986	-6,213227	X	X	X	X	X	0	X	4	2	0	0	4	2	X	0	0	0	0	6	0	0	0	0	0	0	X	0	50	X	8	63	9	0	0			
1200	Merja Al Halloufa	34,963009	-6,244803	X	X	X	1	2	0	0	0	0	0	0	0	0	X	0	0	0	0	0	0	0	0	0	0	0	X	0	X	0	0	0	4	0	0			
1230	Barrage de Wazzane	34,788046	-5,537449	0	0	0	0	6	0	0	0	0	0	0	X	0	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
1240	Merja Zerga	34,848142	-6,275793	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13	0	0	0	0	0	0	0			
1254	Barrage Sahla	34,583372	-4,675908	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	2	X		
1256	Barrage Al Wahda	34,576210	-5,115183	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	0	0	99	X	
1290	Merja de l'wad Fouwarate	34,265694	-6,548408	X	X	X	X	X	X	X	0	0	0	0	X	0	X	X	0	0	0	0	0	0	0	X	X	31	X	0	X	X	324	356	680	450	386	634	1200	
1300	Merja de Sidi Bou Ghaba	34,242494	-6,673121	0	1	0	0	0	1	0	0	0	0	0	10	2	7	0	11	0	6	1	12	6	14	9	15	6	22	X	X	83	X	72	250	320	400	400		
1320	Plan d'eau de Dwiayate	34,047183	-5,116167	0	0	1	0	0	1	1	0	X	0	0	0	0	2	X	X	X	X	X	X	X	X	0	X	X	22	X	X	X	X	X	X	X	X	400	X	
1354	Barrage El Mehraz	33,967503	-4,971008	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	8	X	X	0	0		
1370	Aguelmams Twimate	33,699141	-6,144826	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	4	X	X	X	X	X		
2030	Embouchure de l'wad Malwiya	35,109072	-2,355657	0	10	0	X	0	X	0	0	0	0	0	0	3	0	0	X	0	0	0	0	0	0	0	0	0	0	16	X	0	2	6	2	8	8			
2040	Barrage Ben Abdelkrim Al Khattabi	35,093083	-3,807731	X	0	X	X	0	X	0	X	X	0	4	X	0	X	X	0	X	0	0	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
2060	Barrage Mechra' Hommedi	34,731152	-2,816834	10	0	0	X	0	X	X	X	X	0	0	X	X	X	X	X	X	X	17	X	0	X	0	0	X	0	0	76	X	X	X	X	X	X	X		
2070	Barrage Mohammed V	34,635683	-2,949740	X	0	X	X	X	0	0	0	0	0	0	0	0	X	0	0	0	0	0	0	0	0	X	0	90	X	5	0	400	X	0	35	X	0			
2140	Barrage Kheng El Hda	33,604756	-2,913130	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	0	0	0	0	0	0	0	X	6	13	0	0	
2200	Barrage Enjil	33,237877	-4,649956	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	0	0	5	0	12	13	0	X	4	4	10	0		
3040	Barrage Rwidate	33,727910	-6,966581	X	X	X	X	X	X	X	X	0	2	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	0	X	X	X	X	X	0	X	X	X		
3046	Réserve royale Aïn Sferjla	33,716944	-6,932501	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	15	X	X	X	X	6	X	X	X			
3060	Marais de Wadd Al Maleh	33,694468	-7,406900	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	0	X	0	X	X	X	X	7	X	X	12	X	X	6	X	X	3	0		
3075	Zone humide de Dar Bouazza	33,573200	-7,714190	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	3	0		
3085	Barrage Hassar	33,569774	-7,425773	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	124	45	516	12	0	
3100	Barrage de l'wad Al Mellah	33,494794	-7,332621	0	1	0	0	0	0	X	0	0	0	0	X	0	X	X	X	X	X	0	X	X	X	X	X	0	X	X	0	X	0	2	X	X	0	0		
3185	Barrage Al Himer	33,105763	-7,461961	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	10	X	X	X	0	
3194	Barrage Mzanza	33,018005	-7,520096	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	1	X	X	X	0		
3210	Lagunes de Sidi Moussa-Walidia	32,912501	-8,818131	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	2	10	44	0	0		
3214	Daya Al Beyda	32,569134	-8,979875	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	0	0	0	0	0	0	X	X	X	X	0	0	
3217	Dayet Warar	32,529394	-8,484850	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	31	X	X	0	X	X	X	X	X	X	X	0	
3240	Barrage Al Massira	32,449574	-7,558523	X	0	X	X	X	0	X	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	6	4	6	4	0	0	0	X	0	0	0	0	
3345	Côte et Archipel d'Essawira	31,497494	-9,777118	X	X	X	X	X	X	X	X	X	X	X	X	0	X	X	X	0	0	0	0	X	0	0	0	0	0	0	0	0	0	0	0	0	0	35	4	
3350	Barrage Lalla Takerkoust	31,334609	-8,142192	0	2	0	X	4	0	0	0	0	0	0	X	0	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
4010	Dayet 'Awa	33,652133	-5,035413	1	0	0	0	0	0	0	0	0	0	1	0	0	0	6	0	0	X	X	0	0	0	0	0	65	0	X	195	X	2	46	X	X	7	0		
4090	Dayet Hachlaf	33,550499	-5,001330	X	X	X	X	X	X	X	X	X	X	X	X	X	X	0	X	X	X	X	X	0	X	X	X	2	X	X	0	X	0	X	0	17	X	X	24	0
4100	Dayet Ifrah	33,559596	-4,930318	0	0	0	0	1	0	0	0	0	0	0	0	0	X	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	33	X	X	22	0		
4110	Plan d'eau de Zerrouqa	33,546053	-5,095685	X	0	0	X	0	0	0	6	0	0	0	0	0	0	0	0	X	0	0	0	0	0	0	0	0	0	0	0	0	X	2	0	X	X	0		
4160	Aguelmam Afennourir	33,279848	-5,253375	0	0	0	X	0	0	0	X	0	0	0	0	X	X	0	0	0	0	0	0	0	0	0	0	0	21	0	X	56	X	0	16	X	X	X		
4220	Aguelmam N'Tifounassine	33,154791	-5,095791	X	X	X	X	0	0	0	0	0	0	0	0	0	X	0	0	0	0	X	0	0	X	0	X	0	0	0	X	X	30	27	X	X	X	0		
4240	Aguelmams Sidi Ali-Ta'nzout	33,073975	-4,995712	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0	X	0	X	0	0	X	X	0	0		
4350	Aguelmam Abekhane	32,661612	-5,523251	0	0	0	X	0	0	0	0	0	0	0	X	X	X	X	0	0	X	0	X	X	X	0	0	X	0	X	X	X	2	X	X	X	X	0		
5015	Daya Bennejma	32,376857	-2,305369	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	17	0	
5017	Barrage Zelmou	32,130500	-2,888938	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	9	5	57	52	58	7	X	5	20	25	0	0	
5040	Barrage Al Mansour Ad-Dahbi	30,932311	-6,776625	0	0	X	X	0	X	0	0	0																												