

Snake charming and the exploitation of snakes in Morocco

JUAN M. PLEGUEZUELOS, MÓNICA FERICHE, JOSÉ C. BRITO and SOUMÍA FAHD

SUPPLEMENTARY MATERIAL 1 The standardized forms used when interviewing Aissawa snake charmers and snake hunters in Morocco.

For snake charmers:

Record number:

Date:

Site:

Name of interviewee:

Age:

Snakes species and no. of individuals held:

Number of individuals (per species) exploited per year:

Do you feed the snakes?

How do you get the snakes?

How much did you pay for an Egyptian cobra?

Annual period for snake exhibition?

Do you know other snake charmers in the locality or surrounding areas?

Implicit and explicit contradictions:

For snake hunters:

Record number:

Date:

Site:

Name of interviewee:

Age:

Snakes species and no. of individuals held:

Number of individuals (per species) hunted per year:

Hunting places:

Do you know other snake hunters in surrounding areas?

Do you feed the snakes?

How much did you earn for an Egyptian cobra?

Annual period for snake hunting:

Implicit and explicit contradictions:

TABLE S1 Snake hunting localities in south-western Morocco during 1989–2010.

Locality	Latitude	Longitude	Year
Sidi Ahmed	29.64°N	9.37°W	1989
Ighil Isemlalene	30.15°N	8.83°W	1989
Guelmin, close to	29.05°N	10.04°W	1989
Oued Chbika	28.43°N	11.35°W	1989
Targoumait, close to	28.82°N	9.58°W	1989
Targoumait	28.84°N	9.56°W	1989
Trine-Al-Mader	29.75°N	9.63°W	1989
Assaka	29.69°N	9.51°W	1989
Aït Baha	30.07°N	9.16°W	1989
Aït Amrane	29.73°N	9.29°W	1989
El Feid, Oued Massa	29.81°N	9.56°W	1989
Taroudant	30.36°N	8.87°W	1989
Ain Ifni	29.38°N	10.09°W	1989
Bouizakarne	29.18°N	9.71°W	1989
Agadir, close to	30.01°N	9.40°W	1989
Labyar	28.78°N	10.50°W	1989
Labyar	28.79°N	10.47°W	1989
Taroudant region	30.30°N	8.91°W	1990
Tioute, Taroudant region	30.42°N	8.64°W	1991
Ait Rass	30.21°N	8.81°W	1991
Oued Dra	28.56°N	11.05°W	1991
Tan Tan, close to	28.47°N	11.13°W	1991
Sidi Ifni, close to	29.39°N	10.14°W	1991
Asaka, north of	29.08°N	10.15°W	1991
Tabaynoute	29.24°N	10.17°W	1991

Oued Seyad, Plage Blanche	28.88°N	10.50°W	1991
Oued Sous	30.39°N	9.08°W	1991
Taroudant, close to	30.39°N	8.83°W	1991
Oued Draa	28.49°N	10.86°W	1991
Aït Yahya	29.98°N	9.25°W	1991
Bouizakarne	29.17°N	9.70°W	1991
Tidergit	28.58°N	10.84°W	1991
Tagmout	29.03°N	9.46°W	1991
Tan Tan, north of	28.53°N	11.10°W	1991
Tafnidilt	28.54°N	10.96°W	1991
Afra	29.55°N	9.04°W	1993
Plage Blanche	28.83°N	10.70°W	1993
Rass Oumlil	28.92°N	10.06°W	1993
Oued Draa, south of	28.43°N	10.74°W	1993
Samara	28.18°N	11.44°W	1993
Tan Tan, north of	28.54°N	11.17°W	1993
Rass Oumlil	28.92°N	10.10°W	1993
Tan Tan	28.48°N	11.06°W	1993
Aouinet Lahna	28.51°N	9.86°W	1993
Tata	29.77°N	7.98°W	1993
Oued Draa	28.46°N	10.80°W	1993
Jbel Bou Arhzene	30.74°N	7.26°W	1993
Jbel Saghro	30.94°N	6.23°W	1993
Tiouit	31.17°N	5.79°W	1993
Timoula	31.82°N	5.48°W	1993
Oued Fint, South of Uarzazate	30.82°N	6.95°W	1993
Oued Fint, South of Uarzazate	30.83°N	6.89°W	1994

Jbel Saghro	30.94°N	6.22°W	1994
Agdz	30.72°N	6.44°W	1994
Jebel Sahro	31.00°N	5.89°W	1994
Tiformine	31.12°N	5.73°W	1994
Jbel Saghro	30.94°N	6.44°W	1994
Anezal	30.70°N	7.27°W	1994
Jbel Saghro	30.94°N	6.28°W	1994
Toundoute	31.27°N	6.58°W	1994
Bouizakarne	29.16°N	9.74°W	1994
Labyar	28.83°N	10.43°W	1994
Tan Tan, south of	28.37°N	11.24°W	1994
Tan Tan	28.42°N	11.15°W	1994
Aïssa Abd el Kader	31.92°N	9.06°W	1995
Guelmin, south of	28.94°N	10.03°W	1995
Labyar	28.84°N	10.40°W	1995
Guelmin	29.01°N	10.07°W	1995
Tinerhir	31.51°N	5.03°W	1995
Boumalne Dades	31.24°N	6.12°W	1995
Ikniuine, Jbel Sahgro	31.13°N	5.79°W	1995
Uarzazate	30.94°N	6.92°W	1995
Boumalne Dades	31.38°N	5.99°W	1995
Skoura	31.07°N	6.57°W	1995
Oued Dades	30.98°N	6.63°W	1995
Skoura, south of	31.01°N	6.54°W	1995
Jbel Saghro, north of	31.07°N	6.10°W	1995
Jbel Saghro, south of	30.78°N	6.09°W	1995
Insei	30.81°N	6.58°W	1995

Uerzazate, south of	30.89°N	6.72°W	1995
Tinerhir, south-east of	31.46°N	5.43°W	1995
Amerzgane	31.04°N	7.21°W	1995
Aguelmous	32.11°N	4.16°W	1995
Taroudant, Ued Sous	30.50°N	8.88°W	1995
Taroudant, north of	30.54°N	8.88°W	1995
Guelmim	28.97°N	10.14°W	1995
Labyar	28.84°N	10.41°W	1995
Rass Oumlil	28.92°N	10.08°W	1995
Tidergit	28.56°N	10.81°W	1995
Labyar	28.87°N	10.56°W	1995
Tan Tan	28.37°N	11.18°W	1995
Oued Chebeika	28.11°N	11.42°	1995
Akka	29.36°N	8.26°W	1995
Tata	29.75°N	7.96°W	1995
Tan Tan, south of	28.39°N	11.16°W	1995
Uarzazate, south of	30.74°N	6.90°W	1995
El Borj	30.67°N	7.08°W	1996
Ait Saoun	30.73°N	6.63°W	1996
Labyar	28.81°N	10.47°W	1996
Amizmiz	31.22°N	8.24°W	1996
Chichaoua, west of	31.58°N	9.02°W	1996
Ben Guerir	32.08°N	7.93°W	1996
Labyar	28.83°N	10.40°W	1996
Tan Tan	28.46°N	11.10°W	1996
Sidi Ifni, south-east of	29.29°N	10.15°W	1996
Sidi Ifni, east of	29.40°N	10.07°W	1996

Oued Seyad	28.99°N	10.46°W	1996
Fask	29.02°N	9.82°W	1996
Tighmert	29.02°N	9.82°W	1996
Aureora	28.72°N	10.88°W	1996
Tidergit, north of	28.62°N	10.83°W	1996
Labyar	28.86°N	10.43°W	1996
Beni Melal	32.37°N	6.31°W	1996
Oulad Teima	30.48°N	9.38°W	1996
Oulad Teima	30.48°N	9.38°W	1996
Sidi Ifni, east of	29.36°N	10.12°W	1996
Sidi Ifni, east of	29.39°N	10.07°W	1996
Bouizakarne	29.18°N	9.64°W	1996
Guelmim, south of	28.91°N	10.17°W	1996
Plage Blanche	28.80°N	10.80°W	1996
Sidi Sabi	28.59°N	10.65°W	1996
Bou Jerif	29.11°N	10.38°W	1996
Plage Blanche	28.83°N	10.64°W	1996
Ras Tarf	28.93°N	10.45°W	1996
Oued Seyad	28.91°N	10.55°W	1996
Tinzaline, north of	30.75°N	7.36°W	1996
Toulouine	31.44°N	5.47°W	1996
Jbel Saghro	31.16°N	6.13°W	1996
Cafia	31.01°N	6.58°W	1996
Sidi Flah, south of	30.96°N	6.53°W	1996
Skoura	31.08°N	6.57°W	1996
Aït Saoun	30.74°N	6.64°W	1996
Zagora, south of	29.80°N	5.66°W	1996

Uarzazate	30.91°N	6.89°W	2003
Zagora	30.35°N	5.82°W	2003
Tan Tan	28.43°N	11.09°W	2003
Agadir	30.40°N	9.51°W	2003
El-Aaiún	27.39°N	12.87°W	2003
Tiformine	31.16°N	5.71°W	2003
Uarzazate	30.91°N	6.89°W	2003
Zagora	30.35°N	5.82°W	2003
Tan Tan	30.35°N	5.87°W	2003
Guelmim	29.05°N	10.03°W	2003
Guelmim	29.05°N	10.03°W	2003
Sebt Ahminich, south-east of Guelmin	28.82°N	9.93°W	2003
Akhfennir	28.09°N	12.05°W	2003
Uarzazate	30.91°N	6.89°W	2003
Zagora	30.35°N	5.82°W	2003
Tata	29.73°N	7.95°W	2003
Merzouga	31.02°N	3.90°W	2003
Sidi Bou Othmane	31.21°N	8.27°W	2003
Marrakech	31.58°N	8.01°W	2003
Guelmim	29.05°N	10.03°W	2003
Uarzazate	30.91°N	6.89°W	2003
Tan Tan	28.43°N	11.09°W	2003
Oued Chebeika	28.17°N	11.46°W	2003
Akhfennir	28.07°N	12.03°W	2003
Assaka	28.95°N	10.22°W	2003
Aureora	28.69°N	10.95°W	2003
Labyar	28.82°N	10.46°W	2003

Labyar	28.74°N	10.45°W	2003
Akhfennir, north of	28.01°N	11.82°W	2003
Tinzouline	30.49°N	6.08°W	2003
Zagora	30.29°N	5.82°W	2003
Jbel Saghro	30.97°N	5.75°W	2003
Boumalne Dades	31.38°N	5.99°W	2003
Tiouit, Jbel Saghro	31.09°N	5.48°W	2003
Imzil	30.53°N	7.01°W	2003
Ait Saoun	30.73°N	6.57°W	2003
Oumidernil	30.85°N	6.63°W	2003
Issougrid	30.82°N	6.80°W	2003
Fint	30.75°N	7.00°W	2007
El Hammam	30.89°N	7.30°W	2007
Taghdoute, north-east of	30.66°N	7.23°W	2007
Halouqte	30.71°N	7.31°W	2007
Timegharegrine	30.35°N	7.30°W	2007
Ait rahou	30.44°N	7.81°W	2007
Fint	30.75°N	7.00°W	2007
El Hammam	30.89°N	7.30°W	2007
Tisslit, north-west of	30.66°N	7.23°W	2007
Halouqte	30.71°N	7.31°W	2007
Angraf	30.33°N	7.30°W	2007
Oued Fint	30.79°N	6.96°W	2007
Tisslit	30.66°N	7.23°W	2007
Guelmim	31.64°N	4.93°W	2007
Uarzazate	30.88°N	6.87°W	2007
Jbel Saghro	30.91°N	6.16°W	2007

Tifornine	31.11°N	5.69°W	2007
Labyar	28.80°N	10.54°W	2007
Assaka	29.06°N	10.31°W	2007
Guelmim, south-east of	28.88°N	10.29°W	2007
Targoumait	28.83°N	9.56°W	2007
Joiu Zkara	28.92°N	10.46°W	2007
Fask	28.97°N	9.83°W	2007
Ait Rba	29.78°N	9.66°W	2007
Ait Ighil	29.75°N	9.66°W	2007
Oued Massa	29.76°N	9.48°W	2007
Aglou	29.60°N	9.97°W	2007
Aguni	29.48°N	10.05°W	2007
Tan Tan	28.42°N	11.24°W	2007
Oued Draa	28.45°N	10.84°W	2007
Tah	27.76°N	12.94°W	2007
Akhfennir	27.98°N	12.20°W	2007
Oued Chbika	28.09°N	11.43°W	2007
Oued Ouâar	28.41°N	11.32°W	2007
Ras el Kraia	27.80°N	12.66°W	2007
Agouidirat	27.85°N	12.24°W	2007
Khnifiss	27.88°N	12.36°W	2007
Akhfennir	28.03°N	12.04°W	2007
Akka, south of	29.37°N	8.25°W	2007
Akka, south of	29.37°N	8.28°W	2007
Akka	29.37°N	8.26°W	2007
Akka, north of	29.42°N	8.27°W	2007
Oued Noun	29.09°N	10.34°W	2007

Bouissafen	28.76°N	10.73°W	2007
Plage Blanche	28.79°N	10.88°W	2007
Bou Tgherdaine	28.70°N	10.62°W	2007
Aït Boukha	28.95°N	9.94°W	2007
Laayoune	27.74°N	12.47°W	2007
Zag	28.02°N	9.30°W	2007
Foum Zguid	30.08°N	6.88°W	2007
Tata	29.74°N	7.98°W	2007
Er Rachidia	31.90°N	4.47°W	2007
Guelmim	28.91°N	10.14°W	2007
Tan Tan	28.42°N	11.15°W	2007
Uarzazate	30.88°N	6.87°W	2007
Tiznit	29.67°N	9.74°W	2007
Rhamna	31.52°N	7.75°W	2007
Er Rachidia	31.90°N	4.47°W	2007
Guelmim	28.91°N	10.14°W	2007
Ouarzazate	30.88°N	6.87°W	2007
Tan Tan	28.42°N	11.15°W	2007
Tan Tan Plage	28.45°N	11.31°W	2009
Oued Draa	28.62°N	11.13°W	2009
Akhfenir	27.95°N	11.98°W	2009
Fouilet Zini, Low Draa	27.98°N	11.33°W	2010
Aglou, north of	29.82°N	9.81°W	2010
Guelmim-Assa road	28.78°N	9.42°W	2010
Guelmim-Assa road	28.76°N	9.59°W	2010
