**Annexe** : Résultats des recensements internationaux d'oiseaux d'eau (hiver) : *Embouchure de la Moulouya*

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Années** | **1983** | **1984** | **1985** | **1987** | **1989** | **1990** | **1991** | **1992** | **1993** | **1994** | **1995** | **1996** | **1997** | **1999** | **2000** |
| *Anser anser* |  |  |  |  |  |  |  |  |  |  | 1 |  |  |  |  |
| *Tadorna tadorna* |  |  |  |  |  |  |  |  |  | 20 |  |  |  |  |  |
| *Anas penelope* |  | 18 |  |  | 14 |  |  |  |  | 9 |  |  | 3 |  |  |
| *Anas crecca* | 5 |  |  |  |  | 40 |  |  |  | 3 |  |  |  |  |  |
| *Anas platyrhynchos* |  |  | 9 | 18 |  | 20 | 50 | 50 |  | 20 | 22 | 6 | 120 |  | 13 |
| *Anas acuta* |  | 26 |  |  |  | 2 |  |  |  | 250 |  |  |  | 4 |  |
| *Anas clypeata* |  | 92 | 2 |  |  | 70 | 50 |  |  | 11 |  |  |  | 2 |  |
| *Marmaronetta angustirostris* |  |  |  |  |  |  |  |  |  | 3 |  |  |  |  |  |
| *Aythya ferina* | 13 |  |  |  |  | 12 | 50 |  |  | 29 |  | 2 |  |  |  |
| *Aythya nyroca* |  | 10 |  |  |  |  |  |  |  |  | 3 |  |  |  |  |
| *Aythya fuligula* |  |  |  |  |  |  |  |  |  |  |  | 1 |  |  |  |
| *Anatidae spp.* |  |  |  |  |  | 20 |  |  | 3 |  |  | 10 |  |  |  |
| *Tachybaptus ruficollis* |  | 5 | 5 | 1 | 1 | 3 | 5 | 3 | 1 | 11 |  | 12 |  | 2 |  |
| *Podiceps cristatus* |  |  |  |  |  |  | 5 | 4 |  |  |  |  |  |  | 3 |
| *Podiceps nigricollis* |  |  |  |  |  |  | 5 | 2 |  | 1 | 1 | 2 |  |  |  |
| *Morus bassana* |  |  |  |  |  |  |  |  |  |  |  |  | 8 |  |  |
| *Phalacrocorax carbo sinensis* |  |  |  |  |  | 40 |  | 4 |  | 16 | 66 |  |  | 10 |  |
| *Phalacrocorax aristotelis* |  |  |  |  |  |  | 50 |  | 1 |  | 2 |  |  |  |  |
| *Phalacrocorax spp.* |  |  |  |  |  |  |  |  |  |  |  | 2 |  |  |  |
| *Ardea cinerea* | 4 | 3 | 8 | 6 | 1 | 30 | 50 | 10 | 8 | 99 | 10 | 39 | 5 | 5 |  |
| *Ardea purpurea* |  |  |  |  |  |  |  |  |  |  |  |  |  | 1 |  |
| *Egretta garzetta* | 5 | 3 | 5 | 1 | 1 | 6 | 5 | 3 | 1 | 70 |  | 1 | 2 | 3 |  |
| *Ardea ibis* |  |  |  |  |  | 10 | 5 | 30 |  | 1 | 100 |  |  | 21 |  |
| *Nycticorax nycticorax* |  |  |  |  |  |  |  |  | 12 |  |  |  |  |  |  |
| *Botaurus stellaris* | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| *Ciconia ciconia* |  |  |  | 1 |  | 2 | 5 | 1 | 1 | 2 | 5 |  |  | 42 |  |
| *Plegadis falcinellus* |  |  |  |  |  |  |  | 7 |  | 1 |  |  |  |  |  |
| *Phoenicopterus ruber* |  |  |  |  |  |  |  |  |  | 17 |  |  |  | 12 |  |
| *Grus grus* |  |  |  |  |  | 17 |  |  |  |  |  |  |  |  |  |
| *Porzana porzana* | 2 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| *Gallinula chloropus* |  | 4 | 3 | 2 |  |  |  | 1 |  |  |  | 1 |  |  |  |
| *Porphyrio porphyrio* |  | 1 |  |  |  |  | 5 | 4 | 10 |  |  |  | 3 | 1 |  |
| *Fulica atra* | 80 | 244 | 37 | 150 | 78 | 400 | 500 |  | 8 | 115 | 78 | 75 |  | 4 | 41 |
| *Haematopus ostralegus* |  | 2 |  |  |  |  |  |  | 2 |  |  |  |  |  |  |
| *Himantopus himantopus* |  |  |  |  |  |  | 5 |  |  |  |  |  |  |  |  |
| *Recurvirostra avosetta* |  |  |  |  | 6 |  | 5 |  |  | 20 |  |  |  |  |  |
| *Burhinus oedicnemus* |  |  |  |  |  |  | 5 |  |  | 15 |  |  | 4 |  |  |
| *Vanellus vanellus* |  |  | 2 |  |  | 20 |  |  |  |  |  |  |  |  |  |
| *Pluvialis apricaria* |  |  | 20 |  |  |  |  |  |  |  |  |  |  |  |  |
| *Pluvialis squatarola* |  | 1 |  |  |  |  |  |  |  | 5 |  |  |  |  |  |
| *Charadrius hiaticula* |  |  |  |  |  |  |  | 10 | 1 | 1 |  |  |  |  |  |
| *Charadrius dubius* | 18 |  |  |  |  | 100 | 50 |  |  | 2 |  |  |  |  |  |
| *Charadrius alexandrinus* | 2 | 1 |  |  | 1 |  | 5 |  | 2 | 14 |  |  | 9 |  | 39 |
| *Limosa limosa* |  |  |  | 14 |  | 30 | 5 |  |  | 50 |  |  |  |  |  |
| *Numenius phaeopus* |  |  | 10 |  |  |  |  |  |  |  |  |  |  |  |  |
| *Numenius arquata* |  |  | 5 |  |  |  |  | 6 | 4 | 140 |  |  |  |  |  |
| *Tringa erythropus* |  |  |  |  |  | 1 |  |  |  | 28 |  |  |  |  |  |
| *Tringa totanus* | 20 | 1 | 58 | 3 | 4 | 4 | 5 | 10 | 4 | 20 |  |  | 17 | 10 |  |
| *Tringa nebularia* |  |  |  |  |  | 1 |  |  |  | 3 |  |  |  | 1 |  |
| *Tringa ochropus* | 3 |  |  |  |  |  | 5 |  |  | 2 |  |  | 3 |  |  |
| *Tringa spp.* |  |  |  |  |  |  |  |  |  |  |  | 5 |  |  |  |
| *Tringa hypoleucos* |  |  | 18 |  |  |  | 50 |  |  | 2 |  |  |  |  |  |
| *Gallinago gallinago* | 6 |  | 58 | 5 | 60 | 25 | 5 | 1 |  | 5 | 11 |  |  |  |  |
| *Calidris alba* | 70 | 40 | 45 |  | 6 | 50 | 50 | 3 |  | 62 |  | 3 | 8 | 6 | 20 |
| *Calidris minuta* |  |  |  |  |  |  |  |  |  | 11 |  |  | 3 |  |  |
| *Calidris alpina* |  | 17 |  |  |  |  |  |  | 12 | 303 |  | 7 |  |  |  |
| *Calidris spp.* |  |  |  |  |  |  |  | 50 |  |  |  |  |  |  |  |
| *Philomachus pugnax* |  |  |  |  | 2 |  |  |  | 3 | 3 |  |  |  |  |  |
| *Larus audouinii* |  |  |  |  |  |  | 50 | 40 | 1 | 1 | 150 |  | 107 | 24 | 13 |
| *Larus cachinnans* |  |  | 1256 |  |  | 200 | 500 | 200 |  | 106 | 47 | 270 | 1260 | 300 | 251 |
| *Larus fuscus* | 2 |  |  |  |  |  |  |  |  |  | 5 |  |  |  |  |
| *Larus ridibundus* | 4 |  | 238 |  |  | 5 |  |  |  | 138 | 40 | 123 | 12 | 4 | 3 |
| *Larus minutus* |  |  |  |  | 1 |  |  |  |  |  |  |  |  |  |  |
| *Larus spp.* | 200 |  |  |  |  |  | 50 |  |  |  |  |  |  |  |  |
| *Chlidonias niger* |  |  |  |  |  |  |  | 200 |  |  |  |  |  |  |  |
| *Sterna caspia* |  |  |  |  | 1 |  |  |  |  |  |  |  |  |  |  |
| *Sterna hirundo* |  |  |  |  |  |  |  |  |  | 1 |  |  |  |  |  |
| *Sterna bengalensis* |  |  |  |  |  |  |  |  |  |  |  |  |  | 9 |  |
| *Sterna sandvicensis* |  |  |  |  |  |  |  |  |  | 10 |  | 5 | 82 | 10 |  |
| *Pandion haliaetus* |  | 1 |  |  |  |  |  |  |  | 2 | 2 |  | 1 |  |  |
| *Circus aeruginosus* | 5 | 1 |  |  | 3 | 3 | 5 | 3 | 1 | 8 | 13 | 2 |  | 2 |  |
| *Circus cyaneus* |  |  |  |  |  |  |  |  |  | 1 | 4 |  |  |  |  |
| *Alcedo atthis* | 5 |  | 4 | 1 |  |  |  | 2 |  | 1 |  |  |  | 1 |  |
| **Effectifs totaux** | **445** | **470** | **1783** | **201** | **179** | **1111** | **1580** | **644** | **75** | **1632** | **560** | **566** | **1647** | **474** | **383** |