

## Illegal trade of the Psittacidae in Venezuela

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TABLE S1 Details of the psittacid trade in Venezuela, with the number of records of each species obtained from various sources (literature, the Venezuelan Environment Ministry (VEM), U.S. Fish and Wildlife Service (USFWS), Facebook, zoos, and CITES), the total number of records, the distribution, Red List category and population trend for each species, the number of records per species  $i$  ( $O_i$ ), the number of years when species  $i$  was offered for sale ( $m_i$ ), the specific offer index (SO) for each species (values  $>1$  in bold), the number of individuals traded, the extraction rate (number of individuals per  $m_i$ ) for each species, and the number of records categorized as domestic or international trade.

Species	Literature	VEM	USFWS	Facebook	Zoo	CITES	Total records	Distribution	Red List category	Current population trend	$O_i$	$m_i$	SO	Number of specimens	Extraction rate	Domestic	International
Psittacidae	0	35	0	40	2	14	91										
<i>Agapornis fischeri</i>	0	0	1	1	0	0	2	Tanzania	NT	Decreasing	2	2	0.002	3	2	1	1
<i>Agapornis personata</i>	0	0	0	0	1	0	1	Tanzania			1	1	0.001	15	15	1	0
<i>Agapornis roseicollis</i>	0	0	0	1	1	0	2	Angola; Namibia; South Africa	LC	Decreasing	1	1	0.001	39	39	2	0
<i>Amazona aestiva</i>	0	0	0	0	0	8	8	Argentina; Bolivia; Brazil; Paraguay	LC	Decreasing	7	5	0.020	11	2	0	8
<i>Amazona albifrons</i>	0	0	1	0	0	3	4	From Central America to Mexico	LC	Increasing	4	3	0.007	1,503	501	0	4
<i>Amazona amazonica</i>	18	33	1	3	8	38	101	Bolivia; Brazil; Colombia; Ecuador; French Guiana; Guyana; Peru; Suriname; Trinidad and	LC	Decreasing	80	23	<b>1.073</b>	23,980	1043	61	72

								Tobago; Venezuela									
<i>Amazona autumnalis</i>	0	0	0	0	0	3	3	Belize; Colombia; LC Costa Rica; Guatemala; Honduras; Mexico; Nicaragua; Panama	Decreasing	1	1	0.001	17	17	0	3	
<i>Amazona barbadensis</i>	11	12	4	1	5	15	48	Almost endemic to VU Venezuela B1ab(i,ii,iii,v)	Decreasing	44	22	0.564	2,004	91	29	31	
<i>Amazona bodini</i>	1	1	0	0	0	4	6	Colombia; NT Guyana; Venezuela	Decreasing	4	4	0.009	997	249	1	6	
<i>Amazona dufresniana</i>	1	0	0	0	0	1	2	French Guiana; NT Guyana; Suriname; Venezuela	Decreasing	2	2	0.002	4	2	1	1	
<i>Amazona farinosa</i>	4	4	0	0	1	2	11	Bolivia; Brazil; NT Colombia; Ecuador; French Guiana; Guyana; Panama; Peru; Suriname; Venezuela	Decreasing	10	5	0.029	1,614	323	9	7	
<i>Amazona leucocephala</i>	0	0	0	0	1	0	1	Bahamas; Cuba; NT Cayman Islands	Decreasing	1	1		4	4	1	0	
<i>Amazona ochrocephala</i>	24	73	3	41	15	117	273	Bolivia; Brazil; LC Colombia; Costa Rica; Ecuador; French Guiana; Guyana; Panama; Peru; Suriname; Trinidad and Tobago;	Decreasing	206	30	3.603	316,331	10544	150	194	

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<i>Amazonetta brasiliensis</i>	1	0	0	0	0	0	1	Argentina; Bolivia; Brazil; Colombia; French Guiana; Guyana; Paraguay; Peru; Suriname; Uruguay; Venezuela	LC	Stable	1	1	1	1	1	0	
<i>Ara ararauna</i>	18	25	1	5	4	50	103	Bolivia; Brazil; Colombia; Ecuador; French Guiana; Guyana; Panama; Paraguay; Peru; Suriname; Venezuela	LC	Decreasing	61	17	0.605	18,063	1063	52	78
<i>Ara chloropterus</i>	2	10	1	4	21	19	57	Argentina; Bolivia; Brazil; Colombia; Ecuador; French Guiana; Guyana; Panama; Paraguay; Peru; Suriname; Venezuela	LC	Decreasing	46	21	0.563	81,957	3903	37	32
<i>Ara macao</i>	3	21	0	13	2	21	60	Belize; Bolivia; Brazil; Colombia; Costa Rica; Ecuador; French Guiana; Guatemala; Guyana; Honduras; Mexico; Nicaragua; Panama; Peru; Suriname; Trinidad and Tobago;	LC	Decreasing	44	16	0.410	23,134	1446	38	44

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<i>Ara militaris</i>	1	9	0	1	3	7	21	Argentina; Bolivia; Colombia; Ecuador; Mexico; Peru; Venezuela	VU A2cd+3cd+4cd	Decreasing	17	14	0.139	246	18	14	17
<i>Ara severus</i>	0	3	0	1	10	4	18	Bolivia; Brazil; Colombia; Ecuador; French Guiana; Guyana; Panama; Peru; Suriname; Venezuela	LC	Stable	9	7	0.037	3,626	518	14	7
<i>Aratinga jandaya</i>	0	0	0	0	1	0	1	North of Brazil	LC	Stable	1	1		4	4	1	0
<i>Aratinga leucophthalmus</i>	0	0	0	0	1	0	1	Argentina; Uruguay; Venezuela			1	1		2	2	1	0
<i>Aratinga solstitialis</i> <sup>1</sup>	0	0	0	1	1	1	3	Brazil; Guyana	EN	Decreasing	3	1		6	6	2	1
<i>Bolborhynchus lineola</i>	0	0	0	1	0	0	1	Bolivia; Colombia; Costa Rica; Ecuador; El Salvador; Guatemala; Honduras; Mexico; Nicaragua; Panama; Peru; Venezuela	LC	Stable	1	1	0.001	1	1	1	0
<i>Brotogeris chrysoptera</i>	0	0	0	0	0	1	1	Bolivia; Brazil; French Guiana; Guyana; Suriname;	LC	Decreasing	1	1	0.001	24	24	0	1

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<i>Brotogeris jugularis</i>	2	2	0	5	3	1	13	Colombia; Costa Rica; El Salvador; Guatemala; Honduras; Mexico; Nicaragua; Panama; Venezuela	LC	Stable	10	7	0.041	21	3	12	3
<i>Deropterus accipitrinus</i>	1	0	0	2	0	0	3	Brazil; Colombia; Ecuador; French Guiana; Guyana; Peru; Suriname; Venezuela	LC	Decreasing	1	1	0.001	4	4	3	1
<i>Diopsittaca nobilis</i>	0	8	0	7	0	1	16	Brazil; French Guiana; Guyana; Suriname; Venezuela	LC	Stable	13	7	0.053	23	3	15	9
<i>Eupsittula pertinax</i>	24	47	0	20	19	7	117	Aruba; Brazil; Colombia; Costa Rica; French Guiana; Guyana; Panama; Suriname; Venezuela	LC	Increasing	97	24	1.357	871	36	110	56
<i>Forpus passerinus</i>	11	21	0	3	6	2	43	Aruba; Brazil; Cayman Islands; Colombia; Curaçao; French Guiana; Guyana; Suriname; Trinidad and Tobago; Venezuela	LC	Stable	39	15	0.341	20,067	1,338	41	24
<i>Melopsittacus undulatus</i>	0	2	1	0	0	0	3	Puerto Rico; USA	LC	Increasing	3	2	0.003	7	4	2	3

<i>Nannopsittaca panychlora</i>	1	0	0	0	0	1	2	Almost endemic to Venezuela	LC	Stable	2	2	0.002	8	4	1	1
<i>Nymphicus hollandicus</i>	0	0	2	7	0	0	9	Australia; Puerto Rico (introduced)	LC	Stable	8	3	0.014	19	6	7	2
<i>Orthopsittaca manilata</i>	0	1	0	1	1	4	7	Bolivia; Brazil; Colombia; Ecuador; French Guiana; Guyana; Peru; Suriname; Trinidad and Tobago; Venezuela	LC	Stable	2	2	0.002	14	7	3	5
<i>Pionites melanocephalus</i>	2	6	1	4	2	6	21	Brazil; Colombia; Ecuador; French Guiana; Guyana; Peru; Suriname; Venezuela	LC	Stable	18	11	0.115	416	38	13	15
<i>Pionus chalcopterus</i>	0	0	0	0	1	0	1	Colombia; Ecuador; Peru; Venezuela	LC	Decreasing	1	1		2	2	1	0
<i>Pionus fuscus</i>	0	0	0	0	1	0	1	Brazil; Colombia; French Guiana; Guyana; Suriname; Venezuela	LC	Decreasing	1	1		3	3	1	0
<i>Pionus menstruus</i>	1	5	0	1	3	3	13	Bolivia; Brazil; Colombia; Costa Rica; Ecuador; French Guiana; Guyana; Panama; Peru; Suriname; Trinidad and Tobago; Venezuela	LC	Decreasing	10	6	0.035	37	6	10	8
<i>Pionus sordidus</i>	1	0	0	0	1	0	2	Bolivia; Colombia; Ecuador; Peru; Venezuela	LC	Decreasing	1	1	0.001	3	3	2	0

<i>Pionus tumultuosus</i>	0	0	1	0	0	2	3	Colombia; Ecuador; Peru; Bolivia	LC	Decreasing	3	2	0.003	26	13	0	3
<i>Platycercus eximius</i>	0	0	0	1	0	0	1	Australia	LC	Increasing	1	1	0.001	1	1	0	1
<i>Psittacara leucophthalmus</i>	10	1	0	0	0	0	11	Argentina; Bolivia; Brazil; Colombia; Ecuador; French Guiana; Guyana; Paraguay; Peru; Suriname; Uruguay; Venezuela	LC	Decreasing	9	3	0.016	11	4	11	3
<i>Psittacara mitratus</i>	0	0	0	0	0	1	1	Argentina; Bolivia; Peru	LC	Stable	1	1	0.001	107,702	107,702	0	1
<i>Psittacara wagleri</i>	1	2	0	2	1	0	6	Colombia; Venezuela	NT	Decreasing	3	2	0.003	8	4	6	2
<i>Psittacus erithacus</i>	0	0	0	1	0	0	1	Angola; Burundi; Cameroon; Central African Republic; Congo; Congo; Côte d'Ivoire; Equatorial Guinea; Gabon; Ghana; Kenya; Nigeria; Rwanda; Sao Tomé and Príncipe; Tanzania; Uganda	EN	Decreasing	1	1		1	1	1	0
<i>Pyrrhura lepida</i> <sup>2</sup>	0	0	0	0	1	0	1	Brazil			1	1		1	1	1	0
<i>Pyrrhura rhodocephala</i>	0	2	0	0	0	1	3	Venezuela	LC	Stable	2	2	0.002	32	16	2	3
<i>Thectocercus acuticaudatus</i> ( <i>Aratinga acuticaudata</i> )	2	6	0	0	1	3	12	From Colombia to northern Argentina	LC	Decreasing	9	7	0.037	2,991	427	9	11

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<sup>1</sup>Suspected occurrence in Venezuela

<sup>2</sup>Not yet assessed for the IUCN Red List