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*REPORTE DE DATOS DE MADUREZ SEXUAL
DE LA ANCHOVETA PERUANA
(Engraulis ringens)
DURANTE EL PERIODO 1961 - 1987*

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y
J. Mendo**

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REPORTE DE DATOS DE MADUREZ SEXUAL DE LA ANCHOVETA PERUANA
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RESUMEN

Se presentan datos de madurez sexual promedio mensual de la anchoveta peruana, Engraulis ringens por longitudes y sexos, para las Regiones Norte (06°-10° S), Centro (10°-14° S) y Sur (14°-18°20' S) para el período 1961-87.

Estos se obtuvieron usando los datos de madurez sexual colectados macroscopicamente de ejemplares procedentes de los desembarques a lo largo del litoral peruano.

ABSTRACT

Monthly means of sexual maturity stages of the Peruvian anchoveta (Engraulis ringens) by midlengths (for males and females) from the Northern (6°-10° S), Central (10°-14° S) and Southern (14°-18°20' S) regions for the period 1961-87, are presented here.

This information was obtained using the sexual maturity data collected macroscopically from individuals acquired from landings along the Peruvian coast.

1. INTRODUCCION

Los aspectos reproductivos son muy importantes en la dinámica de poblaciones de peces que combinados con algunos parámetros ambientales podrían explicar las relaciones stock-reclutamiento de un recurso.

Al respecto, hasta la fecha se han reportado varios trabajos referentes a la anchoveta (Jordán y Ch. de Vildoso 1965, Einarsson et.al, 1966; Jordán 1980; Miñano 1958 y 1968; Santander y de Castillo 1969 y Santander 1981). Gran parte de estos trabajos están basados en informaciones provenientes de épocas o años, o de determinadas áreas.

Solo un trabajo publicado por Pauly y Soriano (1987), reporta datos mensuales del stock desovantes y producción de huevos de anchoveta de la región norte/central del Perú, para un periodo de 30 años.

El presente reporte ,tiene por finalidad proporcionar a la comunidad científica, datos de madurez sexual de la anchoveta peruana (Engraulis ringens), obtenidos por el Instituto del Mar del Perú, principalmente en los puertos de Chimbote, Callao, Pisco e Ilo (Fig.1), durante 1961-1987 y que fueron analizados preliminarmente en Peña et. al. (en prep.).

2. MATERIAL Y METODOS

El material usado de información sobre el grado (estadio) de madurez sexual de individuos procedentes de las capturas efectuadas por la flota Industrial a lo largo del litoral peruano, dividido en tres regiones: Norte de 06°-10° S, Centro de 10°-14°S y Sur de 14°- 18°20'S (Fig.1).

El grado de madurez se estableció por observación macroscópica de las gonadas, de acuerdo a Einarsson et. al. (1966), que consta de 6 estadios:

Estadio	I	inmaduros
Estadio	II	inmaduros y en recuperación
Estadio	III	madurantes
Estadio	IV	maduros
Estadio	V	parcialmente desovados y
Estadio	VI	totalmente desovados

3. PROCESAMIENTO DE LOS DATOS

Las frecuencias (número de individuos) para cada estadio de madurez por longitud y mes fueron ponderados a la captura total. Este proceso se llevó a cabo para las tres regiones mencionadas anteriormente.

El promedio mensual del estadio de madurez por longitud, se obtuvo dividiendo la suma de los productos (frecuencia por su respectivo estadio) entre la suma de frecuencias).

Todo el proceso se llevó a cabo usando una computadora IBM-Compatible y el programa Lotus 123.

4. TABULACION

Las siguientes páginas muestran los promedios mensuales del estadio de madurez, por longitudes, regiones y sexos (machos y hembras por separado) para el período 1961-1987.

La región norte reporta datos desde 1962, el centro a partir de 1961 y el sur de 1963. La región norte para los años 1962 y 1963, presenta promedios para machos y hembras en conjunto.

Ausencia de datos se podrán apreciar en la región norte para los años 1979, 1980, 1981, 1983 y 1984; en la región centro para 1966 y 1983; y en la región sur para 1983, debido en gran parte a las vedas establecidas en dichos años, como medida de protección al recurso.

La columna de la izquierda indica la longitud media en centímetros (longitud total) y en la fila superior los meses abreviados.

5. AGRADECIMIENTOS

Nuestro agradecimiento al Dr. Peter Muck Co-Director del programa Cooperativo Peruano-Alemán de Investigación Pesquera (PROCOPA), por el financiamiento de esta publicación y a los Srs. Manuel Flores G., Mario Ramírez y Daniel Rojas por la ayuda prestada en el procesamiento de los datos.

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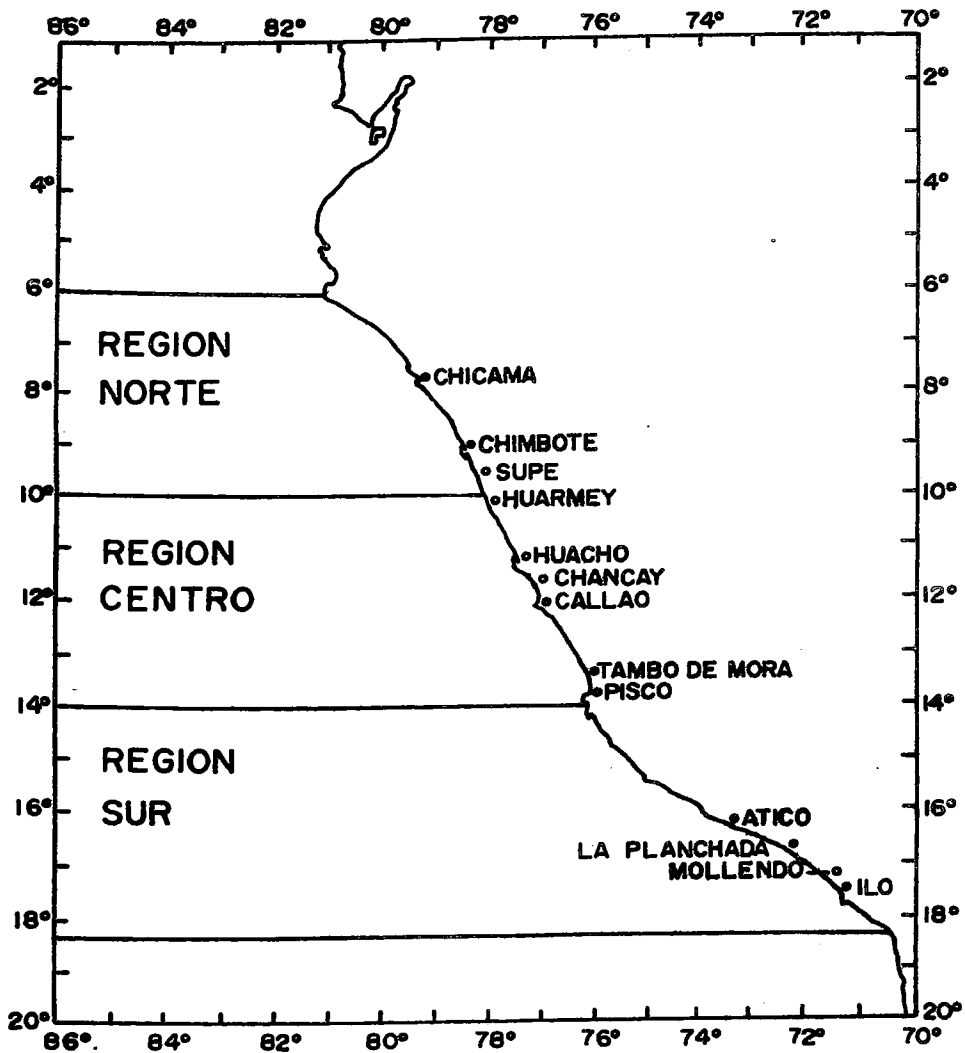


Fig. 1. Lugares y regiones de desembarque de anchoveta (*Engraulis ringens*) en el litoral peruano.

MADUREZ SEXUAL PROMEDIO MENSUAL DE ANCHOVETA MACHOS + HEMBRAS

REGION NORTE (06°-10° S)

AÑO :1962

L.N.	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SET	OCT	NOV	DIC
6.25												
6.75		1.0										
7.25		1.0										
7.75		1.0		1.0								
8.25		1.0	1.0								1.0	
8.75		1.0	1.0	1.0	1.0	1.0	1.0				1.0	
9.25	1.0	1.0	1.0	1.1	1.0	1.0	1.0				1.0	
9.75	1.0	1.1	1.0	1.3	1.5	1.7	1.2			1.0	1.0	
10.25	1.0	1.3	1.0	1.0	1.0	1.0	1.6			1.0	1.0	
10.75		1.0	1.0	1.9	2.0	2.0	1.9	2.5				
11.25	2.0	1.9	1.1	2.0	2.0	2.0	2.2	2.0	3.7			
11.75		2.0	1.4	2.0	2.0	2.0	2.3	2.7	3.4	4.3	1.5	2.0
12.25		1.9	3.0	2.0	2.0	2.0	2.5	2.7	3.7	3.0	2.0	4.0
12.75	2.0	2.7	2.3	2.0	2.0	2.0	2.4	3.1	3.7	3.3	2.9	3.6
13.25	3.4	3.4	3.0	5.5	5.7	2.0	2.6	3.2	4.1	4.3	3.0	3.9
13.75	4.4	5.1	5.1	5.0	6.0	2.0	3.1	3.3	4.1	3.7	3.7	4.1
14.25	4.3	5.1	4.7	5.5	6.0	2.7	3.1	3.3	4.3	3.0	4.0	4.0
14.75	4.0	4.9	4.9	5.1	5.5	2.5	3.2	3.5	4.1	3.7	3.0	4.9
15.25	4.7	4.3	4.6	4.0	3.4	2.6	3.3	3.4	4.2	3.6	3.9	4.6
15.75	4.4	4.6	4.6	3.6	3.6	2.9	3.3	3.3	4.0	3.7	3.6	4.5
16.25	4.1	4.1	4.1	3.5	4.1	3.0	3.1	3.3	4.0	3.7	3.6	4.3
16.75	4.4			4.0		3.5	4.2	4.0	3.9	3.9	4.3	
17.25		4.0					3.0	3.0	3.5	4.0	4.5	
17.75										3.0	3.0	
18.25												
18.75												
19.25												

L.N. = Longitud media en cm.

MADUREZ SEXUAL PROMEDIO MENSUAL DE ANCHOVETA MACHOS + HEMBRAS

REGION NORTE (06°-10° S)

AÑO :1963

L.N.	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SET	OCT	NOV	DIC
6.25												
6.75												
7.25												
7.75												
8.25	1.0					1.0						1.0
8.75	1.0			1.0	1.0	1.0					1.0	
9.25	1.0		1.0		1.0						1.0	1.0
9.75	1.0		1.0		1.0	1.0					1.0	1.0
10.25	1.0		1.0	1.0	1.0	1.0	2.0					1.0
10.75	1.5		1.2	1.6	1.0	1.2	1.0					1.0
11.25	3.5		1.8		1.3	1.4	1.3			1.0		
11.75	2.0		2.0		1.6	1.5	2.1	3.0	2.0	5.0	1.0	
12.25	2.1		2.0	2.0	1.9	1.9	2.1	3.0	3.5	4.3	5.0	5.3
12.75	2.6	2.0	2.0	2.0	2.0	2.0	2.4	3.0	3.4	4.6	4.7	5.5
13.25	2.6	5.5	3.5	2.2	2.0	2.0	2.6	2.9	3.5	4.5	4.8	5.3
13.75	3.5	3.9	4.0	2.3	2.3	2.3	2.7	3.6	3.4	4.5	5.2	5.3
14.25	4.0	4.2	4.6	3.2	2.0	2.1	2.9	3.7	3.5	4.5	5.0	5.2
14.75	4.2	4.3	4.8	3.3	2.2	2.3	3.0	3.6	3.4	4.5	4.9	4.9
15.25	4.3	4.0	4.7	3.4	2.5	2.5	3.1	3.7	3.6	4.6	4.7	4.6
15.75	4.4	4.3	4.3	3.7	2.6	2.7	3.1	3.7	3.0	4.2	4.7	4.7
16.25	4.5	4.1	4.4	4.4	3.4	2.8	3.4	3.7	3.5	4.0	4.7	4.2
16.75	4.0	4.1	4.4		2.3	3.1	3.0	3.9		4.7	4.3	4.7
17.25		4.7	6.0	5.0	3.0	3.0			4.0		5.0	
17.75			4.0			4.0						
18.25												
18.75												
19.25												

MADUREZ SEXUAL PROMEDIO MENSUAL DE ANCHOVETA HEMBRAS

MADUREZ SEXUAL PROMEDIO MENSUAL DE ANCHOVETA MACHOS

REGION NORTE (06°-10° S)

AÑO :1964

REGION NORTE (06°-10° S)

AÑO :1964

L.M. ENE FEB MAR ABR MAY JUN JUL AGO SET OCT NOV DIC

L.M. ENE FEB MAR ABR MAY JUN JUL AGO SET OCT NOV DIC

6.25												
6.75												
7.25												
7.75												
8.25	1.0	1.5		1.0							1.0	
8.75	1.0	1.0		1.0	1.0	1.0					1.0	
9.25	1.0	1.7	1.0	1.0	1.0	1.0	1.0			1.0	1.0	
9.75	1.1	1.3	1.0	1.0	1.0	1.0				1.0	1.1	
10.25	1.6	1.8	1.2	1.0	1.0	1.0	1.0				1.0	
10.75	1.2	1.7	1.3	1.3	1.0	1.0	1.3	1.5			1.2	
11.25	2.5	2.5	1.6	1.3	1.3	2.0	1.4	1.4			1.4	
11.75	2.1	2.7	1.9	1.8	1.2	1.0	2.0	1.8			1.2	
12.25	2.7	4.0	2.2	2.0	2.2	1.9	2.4	2.0			2.0	
12.75	3.4	4.4	2.7	2.1	2.1	2.1	3.5	3.7			2.0	
13.25	4.8	4.9	4.2	2.2	2.4	2.5	4.3	4.4	4.9	5.6	3.6	5.0
13.75	5.1	5.2	4.8	2.6	2.7	3.0	4.7	4.5	4.9	5.5	5.6	4.2
14.25	5.4	4.9	5.1	3.4	2.8	3.1	4.4	4.3	5.1	5.3	5.3	5.0
14.75	5.4	5.0	5.4	4.2	3.0	3.1	4.6	4.6	4.8	5.0	5.2	5.3
15.25	5.1	5.1	5.2	4.7	4.6	3.8	3.9	4.6	4.8	4.8	5.2	5.1
15.75	5.0	5.0	5.0	4.7	4.3	3.8	4.1	4.3	4.6	4.7	4.9	5.1
16.25		4.0	5.0	4.0		5.3	4.0	4.3	4.9	4.6	4.6	5.1
16.75	2.0				6.0		5.0	4.0	4.7		5.0	4.0
17.25												
17.75												
18.25												
18.75												
19.25												

L.M. = Longitud media en cm.

6.25												
6.75												
7.25												
7.75												
8.25							1.0					1.0
8.75	1.0	1.0		1.0			1.0					1.0
9.25	1.0		1.0	1.0			1.0		1.0			1.0
9.75	1.1		1.0	1.0			1.0	1.0	1.0	1.0		1.4
10.25	1.0	1.0	1.0	1.0					1.0			1.1
10.75	1.4	1.8	1.1	1.0	1.0			1.0	1.3			1.3
11.25	1.8	2.5	1.1	1.1	1.0	1.5	1.5	2.2				1.2
11.75	2.8	3.0	1.7	1.5	1.2	1.3	2.0	2.0				2.0
12.25	3.8	4.5	2.8	2.0	2.0	2.0	2.7	3.1	5.0	6.0		4.0
12.75	4.2	5.0	3.0	2.2	2.2	2.1	3.0	3.6	5.0	4.8		2.0
13.25	5.0	4.7	4.7	2.6	2.4	2.9	3.3	3.7	5.0	5.2	5.1	3.8
13.75	4.8	5.0	4.9	2.9	2.9	3.6	3.4	4.5	5.0	5.2	5.7	4.2
14.25	5.0	4.8	5.0	3.7	4.2	3.5	4.4	4.4	4.9	5.2	5.4	4.4
14.75	5.0	5.2	5.0	4.1	4.7	4.2	4.1	4.4	4.9	5.1	5.5	5.1
15.25	5.0	4.0	5.0	4.6	5.0	5.0	4.7	4.6	4.9	4.8	5.3	5.1
15.75		5.0			5.0	4.4	4.0	4.7	4.6	4.8	5.2	4.9
16.25			5.0			5.0		4.0	4.7			4.5
16.75		5.0						4.3			6.0	
17.25												
17.75												
18.25												
18.75												
19.25												

MADUREZ SEXUAL PROMEDIO MENSUAL DE ANCHOVETA HEMBRAS

REGION NORTE (06°-10° S)

AÑO :1965

L.M.	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SET	OCT	NOV	DIC
6.25												
6.75												
7.25												
7.75												
8.25												1.0
8.75	1.0			1.0	1.0			1.0				1.0
9.25	1.0		1.0	1.0	1.0							1.0
9.75	1.0		1.0	1.0	1.0	1.0			2.0			1.0
10.25	1.0		1.0	1.1	1.1	1.0			2.5			1.0
10.75	1.0	1.0	1.2	1.2	1.1	1.0			2.6			1.2
11.25	1.1	1.5	1.7	1.7	1.5	1.6			3.2			1.7
11.75	1.4		1.7	1.8	1.8	1.8			3.2	3.0	2.2	3.6
12.25	2.0	3.5	2.1	2.4	2.0	2.0			3.2	2.9	3.6	3.8
12.75	2.8	2.0	3.0	2.8	2.0	2.1			3.1	3.2	3.8	4.5
13.25	4.3	5.0	5.1	3.4	2.0	2.0			3.1	3.0	4.0	4.4
13.75	4.7	5.9	4.5	2.7	2.0	2.0			3.0	3.1	3.9	4.4
14.25	4.8	5.7	4.7	2.7	2.0	2.1			2.9	3.2	3.9	4.3
14.75	5.0	5.7	4.9	2.5	2.0	2.0			3.3	3.0	4.0	4.2
15.25	4.7	4.7	5.3	2.6	2.0	2.0			2.8	3.2	4.3	4.0
15.75	4.7	5.0	5.3	3.2	2.1	2.0			3.8	3.3	4.4	
16.25	5.1		5.5	4.0	2.0	2.0			3.5		4.4	4.5
16.75			5.6	3.3	2.0	2.0			3.0			
17.25												
17.75												
18.25												
18.75											4.0	
19.25												

MADUREZ SEXUAL PROMEDIO MENSUAL DE ANCHOVETA MACHOS

REGION NORTE (06°-10° S)

AÑO :1965

L.M.	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SET	OCT	NOV	DIC
6.25												
6.75												
7.25												
7.75												
8.25										1.0		1.0
8.75	1.0						1.0					1.0
9.25	1.0		1.0	1.0	1.0	1.0			1.0			1.0
9.75	1.0		1.0	1.0	1.0	1.0			2.3			1.0
10.25	1.0		1.0	1.0	1.0	1.0			2.4			1.0
10.75	1.1	2.0	1.2	1.2	1.0	1.0			2.6			1.0
11.25	1.3	2.0	1.4	1.6	1.2	1.4			2.9		2.7	1.7
11.75	2.0		2.5	2.0	1.7	1.8			2.9	3.0	3.3	3.0
12.25	2.4		2.0	1.9	1.9	2.0			3.0	3.1	3.0	3.3
12.75	4.3		2.6	1.9	2.0	2.0			3.2	3.0	3.2	3.8
13.25	4.1	3.5	3.7	2.0	2.0	2.2			3.1	3.0	3.6	4.1
13.75	4.0	4.4	4.3	2.0	2.0	2.0			3.2	3.1	3.6	4.0
14.25	4.1	4.8	4.5	2.0	2.0	2.0			3.6	3.2	3.8	3.8
14.75	4.2	6.0	4.8	2.0	2.0	2.1			3.4	3.8	4.3	3.7
15.25	4.2	5.5	4.8	2.0	2.0	2.6			3.0	3.2	3.9	4.5
15.75	4.8	6.0	5.3	3.1	2.3				5.0	4.0	4.2	
16.25	5.0				2.0					3.0	4.0	
16.75		2.0	2.0									
17.25												
17.75												
18.25												
18.75												
19.25												

L.M. = Longitud media en cm.

MADUREZ SEXUAL PROMEDIO MENSUAL DE ANCHOVETA HEMBRAS

MADUREZ SEXUAL PROMEDIO MENSUAL DE ANCHOVETA MACHOS

REGION NORTE (06°-10° S)

AÑO :1966

REGION NORTE (06°-10° S)

AÑO :1966

L.M.	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SET	OCT	NOV	DIC
6.25												
6.75												
7.25			1.0									
7.75		1.0	1.0									
8.25	1.0	1.0	1.0									
8.75	1.0	1.0	1.0	1.0								
9.25	1.0	1.0	1.0	1.0								
9.75	1.0	1.0	1.0	1.0								
10.25	1.0	1.1	1.0	1.0	1.0							
10.75	1.0	1.0	1.0	1.2	1.0							
11.25	1.6	1.4	1.0	1.1	1.0							
11.75	1.7	2.1	1.3	2.3	1.3							
12.25	3.5	1.8	1.9	2.7	1.4							
12.75	4.6	4.0	2.0	3.3	1.4							
13.25	4.6	5.0	5.0	2.7	1.7				3.5			
13.75	4.7	5.5	5.5	3.3	1.0				4.3			
14.25	4.8	5.1	4.9	3.9	2.0				5.2	5.0		2.0
14.75	4.8	5.2	4.8	4.7	2.1				4.6	5.2		4.2
15.25	4.5	5.0	5.1	4.6	2.3				4.8	5.3		4.6
15.75	5.0	5.0	4.5	5.5	3.0				4.4	5.0		4.2
16.25	4.5	5.0	5.0		2.0				4.5	4.7		4.3
16.75		5.0							4.7	4.6		4.1
17.25									4.0	4.2		4.2
17.75											5.0	
18.25					3.0							
18.75												
19.25												

L.M.	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SET	OCT	NOV	DIC
6.25												
6.75												
7.25												
7.75				1.0								
8.25	1.0	1.0	1.0									
8.75	1.0	1.0	1.0									
9.25	1.0	1.0	1.0									
9.75	1.0	1.0	1.0	1.0								
10.25	1.1	1.0	1.0	1.0								
10.75	1.2	1.1	1.0	1.0	1.0							
11.25	2.0	1.3	1.0	1.0	1.0							
11.75	2.1	1.6	1.1	1.0	1.0							
12.25	3.6	1.0	1.4	1.1	1.1							
12.75	3.3	4.0	2.0	1.1	1.2							
13.25	3.9	4.8	3.1	1.3	1.2				3.0	1.5		
13.75	4.0	5.4	4.9	2.2	1.4				2.5	1.8		
14.25	4.2	4.6	4.7	4.2	1.7				3.5	3.6		
14.75	4.2	4.6	4.5	4.8	2.2				4.0	3.7		4.4
15.25	4.6	4.0	4.1	4.0	2.0				4.0	4.1		4.8
15.75	3.0	5.0							4.0	4.3		4.5
16.25									4.2	4.2		4.6
16.75			6.0						4.6	4.0		4.6
17.25				6.0					4.0	5.0		4.0
17.75				6.0								
18.25												
18.75												
19.25												

L.M. = Longitud media en cm.

MADUREZ SEXUAL PROMEDIO MENSUAL DE ANCHOVETA HEMBRAS

REGION NORTE (06°-10° S)

AÑO :1967

L.M.	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SET	OCT	NOV	DIC
6.25												
6.75												
7.25												
7.75												
8.25												
8.75			1.0									
9.25			1.0									
9.75	1.0		1.0	1.0								
10.25	1.0	1.0	1.0	1.0								
10.75	1.0	1.0	1.0	1.0	1.0							
11.25	1.0	1.0	1.0	1.0	1.0	1.0						
11.75	1.0	1.0	1.0	1.0	1.0	1.0	1.0					
12.25	1.0	1.0	1.0	1.1	1.0	1.0						
12.75	2.0	1.0	2.0	1.3	1.0	1.0						
13.25			3.0	1.3	1.1	1.0						
13.75	6.0			3.1	1.2	1.2		5.0	5.0	3.3		
14.25	3.8			2.8	1.1	1.3		4.0	4.5	3.5	2.7	
14.75	5.0		3.0	4.5	1.8	1.4		5.0	4.6	3.8	3.3	
15.25	5.1	4.8	5.0	4.4	4.5	2.0		5.0	4.6	4.3	3.3	
15.75	4.8	4.7		4.8	3.8	2.0		5.0	4.5	4.7	4.2	
16.25	4.6	4.3	4.5	4.8	3.4	2.0		5.0	4.5	4.7	4.3	
16.75	5.1	4.5	4.0	4.8	3.2	2.0		5.0	4.4	4.8	4.5	
17.25	4.0	5.0		3.0	2.4	2.0		5.0	4.6	5.0	4.0	
17.75				3.0	2.3			5.0	4.2	5.0	5.0	
18.25											4.0	
18.75												
19.25												

L.M. = Longitud media en cm.

MADUREZ SEXUAL PROMEDIO MENSUAL DE ANCHOVETA MACHOS

REGION NORTE (06°-10° S)

AÑO :1967

L.M.	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SET	OCT	NOV	DIC	
6.25													
6.75													
7.25													
7.75													
8.25													
8.75				1.0									
9.25	1.0	1.0	1.0										
9.75	1.0		1.0	1.0	1.0								
10.25	1.0	1.0	1.0	1.0	1.0	1.0							
10.75	1.0	1.0	1.0	1.0	1.0								
11.25	1.0		1.0	1.1	1.0	1.0							
11.75	1.0	1.0	1.0	1.0	1.0	1.0							
12.25	1.0		1.5	1.0	1.0	1.0							
12.75				1.1	1.0	1.2				2.0			
13.25		1.0		1.2	1.0	1.1				3.0			
13.75	6.0	1.0	2.5	1.0	1.0	1.0				4.9	4.5	3.5	2.3
14.25	4.0	6.0		1.3	1.2	1.2				4.9	4.6	3.4	3.2
14.75	4.5	3.0	4.3	3.3	1.0	1.1				5.0	4.6	4.0	3.2
15.25	4.4	3.9	4.5	3.8	2.0	2.0				4.8	4.6	4.2	3.8
15.75	4.3	3.7	3.0	3.1	1.7	1.5				4.7	4.6	4.3	4.2
16.25	3.8	3.8		3.4	2.2					5.0	4.6	4.6	4.3
16.75	3.3	4.3		3.5	2.6					5.0	4.3	4.2	4.4
17.25		4.0			2.0						4.8	4.0	4.0
17.75													
18.25													
18.75													
19.25													

MADUREZ SEXUAL PROMEDIO MENSUAL DE ANCHOVETA HEMBRAS

REGION NORTE (06°-10° S)

AÑO :1968

L.M.	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SET	OCT	NOV	DIC
6.25												
6.75												
7.25												
7.75					1.0							
8.25					1.0							
8.75					1.0							1.0
9.25					1.0							1.7
9.75					1.0							2.0
10.25				2.0	1.0							2.5
10.75				1.0	1.2							
11.25				1.8	1.6							
11.75				1.7	1.8				1.0			2.0
12.25				2.0	2.0				2.2			
12.75				2.0	2.0				2.6			
13.25				2.0	2.0				5.0	2.0		
13.75	2.0	6.0		2.0	2.4			5.0	3.8	5.7	5.0	
14.25	2.7	4.3	3.4	2.0	2.0			4.7	4.9	5.0	6.0	
14.75	2.9	5.4	4.2	6.0	2.0			4.6	4.8	5.4	4.9	
15.25	3.2	5.4	5.2	5.8	4.8			4.8	4.9	5.1	4.9	
15.75	3.6	5.2	5.2	5.8	4.6			4.7	4.9	5.0	4.9	
16.25	3.7	4.9	5.3	5.6	4.9			4.8	4.7	4.9	4.9	
16.75	4.1	5.0	4.4	5.0	4.4			4.7	4.7	4.8	5.1	
17.25	4.3		6.0	5.0	5.4			4.7	4.7	4.9	5.3	
17.75	5.0		4.0		6.0			4.5	4.7	4.7	5.5	
18.25								4.0	5.0			
18.75									5.0			
19.25									5.0			

MADUREZ SEXUAL PROMEDIO MENSUAL DE ANCHOVETA MACHOS

REGION NORTE (06°-10° S)

AÑO :1968

L.M.	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SET	OCT	NOV	DIC
6.25												
6.75												
7.25												
7.75												
8.25									1.0			1.0
8.75									1.0			1.3
9.25									1.0			1.3
9.75									1.0			1.5
10.25									1.0			2.0
10.75									1.3	1.1		
11.25									2.0	1.4		
11.75									1.9	1.9		
12.25									1.9	1.9	1.0	
12.75									2.0	2.0	2.0	5.0
13.25	3.0								2.0	2.0	3.0	3.5
13.75	1.9	3.5							2.0	2.0	4.0	6.0
14.25	2.5	5.3	4.6	2.0	2.4				5.0	4.9	5.3	5.5
14.75	3.2	5.4	5.0	4.2	2.0				4.7	5.0	4.7	5.4
15.25	3.3	5.3	5.2	3.9	4.5				4.8	4.7	5.2	5.2
15.75	3.8	5.1	4.9	5.8	4.3				4.7	4.8	5.2	5.1
15.75	3.8	5.1	4.9	5.8	4.3				4.9	5.0	5.1	5.0
16.25	4.2	5.3	4.9	4.9	4.8				4.8	4.8	4.9	5.2
16.75	5.0	5.0	5.0	5.0	2.0				4.8	4.8	4.9	5.0
17.25			5.0						4.9	4.8	5.0	5.2
17.75	5.0								5.0	4.0	5.0	6.0
18.25												
18.75												
19.25												

L.M. = Longitud media en cm.

MADUREZ SEXUAL PROMEDIO MENSUAL DE ANCHOVETA HEMBRAS

REGION NORTE (06°-10° S)

AÑO :1969

L.M.	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SET	OCT	NOV	DIC
6.25												
6.75												
7.25										1.0		
7.75										1.0	1.0	
8.25	1.0				1.0					1.0	1.0	
8.75	1.0									1.0	1.0	
9.25	1.0					1.0				1.0	1.0	
9.75	1.0			1.0	1.0					1.0	1.0	
10.25	1.0	1.0	1.0	1.0						1.0	1.0	
10.75	1.1	1.4	1.0	1.0						1.0	1.0	
11.25	1.3	1.6	1.5	1.8						1.0	1.0	
11.75	1.8	2.4	2.0	2.0							1.4	
12.25	1.9	2.3	2.0	2.0							1.6	
12.75	2.0	2.7	2.2	2.0				5.0			2.0	
13.25	5.0	3.2	2.8	2.2				5.0	5.0		2.3	
13.75		3.9	3.0	2.3				5.0	5.1	4.6		
14.25		4.5	3.2	2.7				4.9	5.1	5.0		
14.75	5.2	5.5	3.8	2.6				4.8	5.0	5.0	3.0	
15.25	5.2	5.2	3.0	3.3				4.7	5.0	5.2		
15.75	5.2	5.0	4.9	4.4				4.6	5.1	5.0		
16.25	5.1	5.1	5.3	4.5				4.8	5.0	5.3		
16.75	4.9	5.1	5.4	4.3				4.7	5.0			
17.25	4.7	5.4	5.7	4.7				4.9	5.0			
17.75	5.0	5.5	5.5	4.0				5.1	5.0			
18.25	5.0											
18.75	5.0											
19.25												

MADUREZ SEXUAL PROMEDIO MENSUAL DE ANCHOVETA MACHOS

REGION NORTE (06°-10° S)

AÑO :1969

L.M.	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SET	OCT	NOV	DIC
6.25												
6.75	1.0											
7.25												
7.75												
8.25	1.0					1.0					1.0	1.0
8.75	1.0										1.0	1.0
9.25	1.0										1.0	1.0
9.75	1.0					1.0					1.0	1.0
10.25	1.2					1.1					1.0	1.0
10.75	1.2					1.3					1.0	1.0
11.25	1.3					1.7	2.0	1.7			1.0	1.1
11.75	2.0					2.0	1.9	1.8				1.3
12.25	1.9					2.2	2.0	1.9				1.5
12.75	3.5					2.7	2.2	2.0		4.5		2.0
13.25	3.4					3.5	2.4	2.0		5.0	5.3	4.0
13.75						3.1	3.1	2.0		4.7	5.0	5.8
14.25	4.0					5.0	3.3	2.6		4.8	5.2	5.5
14.75	5.0					4.0	3.3	2.6		4.8	5.0	5.1
15.25	5.1					5.2	4.8	2.8		4.8	4.9	5.2
15.75	5.2					5.3	5.7	3.2		4.9	5.3	5.2
16.25	5.0					5.3	5.5	3.1		4.9	5.0	4.7
16.75	4.8					5.3	5.3	3.3		5.0	5.0	
17.25	5.0					5.5	5.5	3.2		4.9	5.0	
17.75						5.5				5.0	4.0	
18.25												
18.75												
19.25												

L.M. = Longitud media en cm.

MADUREZ SEXUAL PROMEDIO MENSUAL DE ANCHOVETA HEMBRAS

REGION NORTE (06°-10° S)

AÑO :1970

=====

L.M. ENE FEB MAR ABR MAY JUN JUL AGO SET OCT NOV DIC

=====

6.25											
6.75											
7.25											
7.75											
8.25											
8.75											
9.25	1.0			1.0							
9.75	1.0	1.0									
10.25	1.0	1.0									
10.75	1.0	1.0	2.0	2.0							
11.25	1.0	1.7	2.0	1.7							
11.75	1.5	1.8	2.0	2.0							
12.25	2.0	2.0	2.8	2.0							
12.75	2.1	2.5	2.6	2.0	2.0						
13.25	3.8	4.5	3.8	2.3	2.0						
13.75	3.0	3.8	4.8	2.2	2.0						
14.25		5.3	4.5	4.1	2.0						
14.75		5.0	5.0	5.0	2.9						
15.25					2.3	4.4	5.3				
15.75		3.3		6.0		4.8	5.2	5.0			
16.25		5.0				4.5	4.9	4.9			
16.75						4.6	4.8	4.8			
17.25						4.6	4.7	4.9			
17.75						4.8	4.5	4.6			
18.25											
18.75											
19.25											

MADUREZ SEXUAL PROMEDIO MENSUAL DE ANCHOVETA MACHOS

REGION NORTE (06°-10° S)

AÑO :1970

=====

L.M. ENE FEB MAR ABR MAY JUN JUL AGO SET OCT NOV DIC

=====

6.25											
6.75											
7.25											
7.75											
8.25											
8.75											
9.25	1.0										
9.75	1.0	1.0									
10.25	1.0	1.0									
10.75	1.0	1.3	1.0	1.0							
11.25	1.0	1.2	2.0	2.0							
11.75	1.3	1.8	2.1	2.0							
12.25	1.9	3.1	2.9	2.0							
12.75	2.5	3.3	3.6	3.0	2.7						
13.25	3.1	5.8	5.3	2.8	2.0						
13.75	3.0	4.3	4.5	2.5	2.1						
14.25		4.9	4.6	3.6	2.0						
14.75		5.0	5.0	4.0	2.3						
15.25					2.0				5.2	5.3	
15.75									4.7	5.0	5.0
16.25									4.8	4.9	5.2
16.75									4.9	5.0	5.0
17.25									4.7	4.9	5.0
17.75									5.1	4.9	4.6
18.25									5.0	4.7	4.7
18.75											
19.25											

=====

L.M. = Longitud media en cm.

MADUREZ SEXUAL PROMEDIO MENSUAL DE ANCHOVETA HEMBRAS

MADUREZ SEXUAL PROMEDIO MENSUAL DE ANCHOVETA MACHOS

REGION NORTE (06°-10° S)

AÑO :1971

REGION NORTE (06°-10° S)

AÑO :1971

L.M.	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SET	OCT	NOV	DIC
6.25												
6.75												
7.25												
7.75												
8.25												
8.75												
9.25		1.0										
9.75		1.0	1.0									
10.25		1.0	1.0									
10.75		1.0	1.3		1.0							
11.25		1.2	1.3		2.0							
11.75		1.3	1.5		2.0							
12.25		1.7	1.8	2.0	2.0							
12.75		2.0	2.0		2.0		3.0					
13.25		2.0	2.0	2.0	2.0		3.0	2.4				
13.75		2.0	2.0	2.0	2.0		3.0	3.2	2.0			
14.25		3.0	2.8	2.0	3.2		3.5	3.0	2.0	2.0		
14.75			2.0	2.0	5.5		3.5	3.5	2.8	2.5		
15.25					3.0		3.1	4.2	3.0	2.1		
15.75							3.8	3.9	3.4	2.5		
16.25							4.2	3.8	2.9	3.1		
16.75							3.7	4.1	2.9	3.6		
17.25							3.0	5.0	3.8	4.1		
17.75							3.8	3.8	4.5	3.5		
18.25							5.0	4.0	3.3			
18.75												
19.25												

L.M.	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SET	OCT	NOV	DIC
6.25												
6.75												
7.25												
7.75												
8.25												
8.75												
9.25			1.0									
9.75			1.0	1.0								
10.25			1.0	1.0								
10.75			1.0	1.0		1.0						
11.25			1.0	1.0		1.0						
11.75			1.2	1.1		2.0						
12.25			1.6	1.7	2.0	2.0				3.0		
12.75			2.0	2.0	2.0	2.0			3.7	3.0		
13.25			2.1	2.9	2.0	2.0			3.0	2.8	2.0	
13.75			2.1	2.0	2.0	2.0			3.4	3.7	2.0	
14.25			2.0	3.0	3.0	2.0			3.0	4.1	2.6	2.0
14.75				2.0	2.5	2.3			3.4	4.1	2.4	2.1
15.25						5.0			4.1	4.1	2.7	3.1
15.75									3.0	4.6	3.2	2.9
16.25									3.3	4.0	6.0	3.0
16.75									3.0	3.5	6.0	3.5
17.25									3.0	5.0	4.7	4.0
17.75										5.0		
18.25												
18.75												
19.25												

L.M. = Longitud media en cm.

MADUREZ SEXUAL PROMEDIO MENSUAL DE ANCHOVETA HEMBRAS

REGION NORTE (06°-10° S)

AÑO :1972

L.M.	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SET	OCT	NOV	DIC
6.25												
6.75												
7.25												
7.75			1.0									
8.25			1.2									
8.75			1.0									
9.25			2.0		2.0							
9.75					1.9	1.0						
10.25			1.9		1.9	2.0						
10.75			2.0		2.0	1.7						
11.25			2.0	2.0	2.1	2.0						
11.75			1.9		2.0	2.7						
12.25			2.5		2.8	3.2						
12.75			3.0	2.0	2.9	2.8						
13.25			2.3	2.0	3.0	3.0						
13.75			2.7	2.0	2.4	5.2						
14.25			2.0		2.2	3.0						
14.75			2.0	3.8	3.4							5.0
15.25			3.0	3.5	2.6	5.0						3.9
15.75			3.1	2.9	3.2	5.0						3.0
16.25			3.4	3.5	2.0	5.2						3.0
16.75			3.5	3.7	6.0	5.0						3.4
17.25			4.7	5.0	5.0	4.2						2.5
17.75			4.1	6.0		5.0						5.0
18.25			5.0									
18.75					5.0							
19.25				6.0								

L.M. = Longitud media en cm.

MADUREZ SEXUAL PROMEDIO MENSUAL DE ANCHOVETA MACHOS

REGION NORTE (06°-10° S)

AÑO :1972

L.M.	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SET	OCT	NOV	DIC
6.25												
6.75												
7.25												
7.75												
8.25												
8.75								2.0				
9.25								2.0				
9.75								2.0				
10.25									2.0			
10.75									2.0	2.2	1.4	
11.25									1.8	2.0	2.3	
11.75									2.7	2.0	2.7	
12.25									3.3	2.3	5.0	
12.75									3.5	2.0	4.3	
13.25									3.0	2.7	3.3	
13.75									2.5	2.3	4.8	
14.25									2.6	2.0	2.6	3.8
14.75									2.1	2.0	2.0	
15.25									2.9	2.3	3.1	4.2
15.75									3.6	3.2	3.0	4.7
16.25									3.8	2.5		5.0
16.75									3.7		4.3	4.7
17.25									5.0	3.7		3.2
17.75									5.0	5.0	6.0	
18.25									5.0			
18.75												
19.25												

MADUREZ SEXUAL PROMEDIO MENSUAL DE ANCHOVETA HEMBRAS

REGION NORTE (06°-10° S)

AÑO :1973

L.M.	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SET	OCT	NOV	DIC
6.25												
6.75												
7.25												
7.75												
8.25												
8.75												
9.25												
9.75		1.0										
10.25		1.4										
10.75		1.6										
11.25		2.3										
11.75		3.0										
12.25		3.8										
12.75		4.3										
13.25		3.9										
13.75		3.6										
14.25		4.1										
14.75		3.7										
15.25		5.0										
15.75		4.5										
16.25		4.4										
16.75		5.0										
17.25		4.0										
17.75												
18.25												
18.75												
19.25												

MADUREZ SEXUAL PROMEDIO MENSUAL DE ANCHOVETA MACHOS

REGION NORTE (06°-10° S)

AÑO :1973

L.M.	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SET	OCT	NOV	DIC
6.25												
6.75												
7.25												
7.75												
8.25												
8.75												
9.25												
9.75												
10.25									1.5			
10.75									1.8			
11.25									2.9			
11.75									3.1			
12.25									3.9			
12.75									3.4			
13.25									4.2			
13.75									4.1			
14.25									4.4			
14.75									4.5			
15.25									5.4			
15.75									3.9			
16.25									5.5			
16.75									6.0			
17.25									6.0			
17.75												
18.25												
18.75												
19.25												

L.M. = Longitud media en cm.

MADUREZ SEXUAL PROMEDIO MENSUAL DE ANCHOVETA HEMBRAS

REGION NORTE (060-100 S)

AÑO :1974

L.M.	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SET	OCT	NOV	DIC
6.25												
6.75												
7.25												
7.75												
8.25												
8.75												
9.25												
9.75												
10.25												
10.75												
11.25			2.0									
11.75			2.0									
12.25			1.7									
12.75			1.9									
13.25			2.0									
13.75			3.0									
14.25			5.1									
14.75			4.5					3.3				
15.25			4.6					4.4	4.8			
15.75			5.0					4.5	5.0			
16.25			4.7					4.9	4.9			
16.75			5.0					5.1	5.1			
17.25			4.8					4.7	5.1			
17.75			4.9					5.0	5.1			
18.25			4.8					4.8	5.0			
18.75			5.0					5.0	5.1			
19.25								4.9	5.0			

MADUREZ SEXUAL PROMEDIO MENSUAL DE ANCHOVETA MACHOS

REGION NORTE (060-100 S)

AÑO :1974

L.M.	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SET	OCT	NOV	DIC
6.25												
6.75												
7.25												
7.75												
8.25												
8.75												
9.25												
9.75												
10.25												
10.75				2.0								
11.25												
11.75				2.4								
12.25				1.9								
12.75				1.9								
13.25				2.4								
13.75				4.3						4.6		
14.25				4.3						4.6	3.7	
14.75				5.0						4.4	4.9	
15.25				4.3						4.4	4.8	
15.75				5.0						4.8	4.9	
16.25				4.5						4.8	5.0	
16.75				4.2						4.9	5.1	
17.25				4.6						4.8	5.0	
17.75				5.0						4.9	4.8	
18.25				5.0						5.1	4.8	
18.75										5.1	4.9	
19.25										5.0	4.5	

L.M. = Longitud media en cm.

MADUREZ SEXUAL PROMEDIO MENSUAL DE ANCHOVETA HEMBRAS

MADUREZ SEXUAL PROMEDIO MENSUAL DE ANCHOVETA MACHOS

REGION NORTE (06°-10° S)

AÑO :1975

REGION NORTE (06°-10° S)

AÑO :1975

L.M.	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SET	OCT	NOV	DIC
6.25												
6.75												
7.25												
7.75												
8.25												
8.75		1.0										
9.25	1.0	1.0									1.0	
9.75	1.0	1.0										
10.25	1.0	1.0										
10.75	1.4	1.1		1.0	1.0							
11.25	1.6	1.0	1.0	1.0	1.0							
11.75	1.6	1.1	1.0	1.0	1.2							
12.25	2.0	1.7	1.7	1.2	1.6							
12.75	2.1	2.0	1.6	1.1	2.0							
13.25	2.1	2.0	1.9	1.8	2.0							
13.75	2.2	2.2	2.0	2.0	2.0							
14.25	2.6	2.4	2.1	2.2	2.2							
14.75	2.8	3.1	2.2	2.2	2.3							
15.25	3.7	3.4	2.4	2.5	2.2							
15.75	4.5	3.3	2.6	2.6	2.4				4.0			
16.25	4.2	3.3	2.7	2.8	2.5				4.7			
16.75	4.4	4.2	3.5	3.1	2.8				4.9			
17.25	4.5	4.5	4.1	3.4	2.9				4.8		3.5	
17.75	4.6	4.7	3.8	3.8	3.2				4.9		4.3	
18.25	4.7	4.4	4.3	4.0	3.3				4.9		4.3	
18.75	4.8	5.0	4.4	4.0	3.7				4.9		4.0	
19.25	4.9	4.6	4.6	4.1	3.8				3.7			

L.M.	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SET	OCT	NOV	DIC
6.25												
6.75												
7.25												
7.75												
8.25												
8.75												
9.25	1.0	1.0										
9.75		1.0										
10.25		1.0										
10.75	1.0	1.0		1.0	1.0							
11.25	1.2	1.0		1.0	1.0							
11.75	1.6	1.3	1.0	1.0	1.6							
12.25	1.9	1.9	1.8	1.3	1.7							
12.75	2.5	2.1	1.7	1.0	1.0							
13.25	3.0	2.3	2.0	1.7	2.0							
13.75	3.3	2.8	2.0	1.9	1.9							
14.25	3.4	2.9	2.0	2.1	2.2							
14.75	3.8	2.9	2.6	2.2	2.2							
15.25	4.5	3.6	2.7	2.6	2.1					5.5		
15.75	4.4	3.6	3.4	2.7	2.5					4.1		
16.25	4.7	4.1	3.2	3.0	2.8					4.8		
16.75	5.0	4.2	4.6	3.4	2.6					4.8		2.0
17.25	4.9	4.2	4.4	3.8	2.8					4.7		5.0
17.75	4.9	4.6	4.8	3.9	3.6					4.7		4.0
18.25	5.0	4.7	4.4	4.2	3.8					4.4		3.0
18.75	5.0	4.0	4.4	4.5	3.6					4.5		
19.25	4.9	5.0	3.7	4.6	4.1							

L.M. = Longitud media en cm.

MADUREZ SEXUAL PROMEDIO MENSUAL DE ANCHOVETA HEMBRAS

MADUREZ SEXUAL PROMEDIO MENSUAL DE ANCHOVETA MACHOS

REGION NORTE (06°-10° S)

AÑO :1976

L.M.	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SET	OCT	NOV	DIC
6.25												
6.75												
7.25												
7.75												
8.25												
8.75												
9.25				1.0	1.0							
9.75				1.0	1.0				2.0			
10.25	1.2	1.0	1.0	1.0	1.1	1.0	1.0					
10.75	1.2	1.0	1.3	1.0	1.2	1.1	1.2			3.2		
11.25	1.3	1.0	1.4	1.1	1.2	1.2	1.5		2.5	3.3		
11.75	1.7	1.0	1.7	1.2	1.4	1.4	2.0		2.7	3.6		
12.25	2.0	1.0	2.1	1.5	1.7	1.9	2.7		2.7	3.8		
12.75	2.0	2.0	2.9	1.6	1.9	2.0	2.6		3.1	4.0		
13.25	2.4	2.3	2.9	1.8	2.1	2.3	2.7		3.1	4.1		
13.75	2.9	3.0	2.2	1.7	2.1	2.5	3.3		3.6	4.6		
14.25	2.0		4.2		2.3	2.8	4.0		3.0	4.2		
14.75	2.0				3.7	2.6	4.0		4.0	4.4		
15.25					6.0	3.0						
15.75						3.0				4.0		
16.25		6.0	5.0			3.0						
16.75			6.0	3.8	2.5	3.0						
17.25	5.8	5.1	5.9	4.1	3.5	3.5						
17.75	5.5	4.8	5.8	4.0	4.6	3.5				3.0		
18.25	5.0	3.4	5.7	4.0	3.2	3.2	3.5					
18.75	5.6	5.5	6.8	3.3	3.3	4.0	4.0					
19.25			6.0									

REGION NORTE (06°-10° S)

AÑO :1976

L.M.	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SET	OCT	NOV	DIC
6.25												
6.75												
7.25												
7.75												
8.25												
8.75												
9.25							1.0					
9.75							1.0			1.8		
10.25	1.3	1.0	1.0	1.0	1.0	1.0						
10.75	1.2	1.0	1.3	1.0	1.0	1.0	1.5					3.2
11.25	1.3	1.0	1.5	1.0	1.0	1.0	1.7			2.5		3.3
11.75	1.9	1.0	2.2	1.2	1.1	1.3	1.8			2.7		3.6
12.25	2.3	1.1	2.5	1.4	1.6	1.7	2.7			3.0		3.9
12.75	2.4	1.8	2.8	1.4	1.8	2.1	3.0			2.9		4.1
13.25	2.4	2.2	2.9	1.7	1.9	2.2	3.2			3.3		4.6
13.75	3.0		3.8	2.0	2.2	2.6	2.8			3.3		4.1
14.25	3.0		3.3		3.1	2.9	4.0			3.4		4.5
14.75	4.0		4.7		2.0	3.0	3.5			3.0		4.4
15.25			3.0		2.5	3.5						5.0
15.75		5.0	6.0			3.0						
16.25			5.7	2.0		3.0						
16.75			5.8	2.9		3.6						
17.25	5.3	6.0	5.3	3.6	2.4	4.4						
17.75	4.8	5.5	5.7	4.5	3.0	3.7	3.5					
18.25	5.5	4.4	5.7	4.7	2.8	3.8	3.0					
18.75		6.0	6.0	4.5		4.8						
19.25			6.0	3.7								

L.M. = Longitud media en cm.

MADUREZ SEXUAL PROMEDIO MENSUAL DE ANCHOVETA HEMBRAS

REGION NORTE (06°-10° S)

AÑO :1977

L.M.	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SET	OCT	NOV	DIC
6.25												
6.75												
7.25												
7.75												
8.25												
8.75												
9.25												
9.75												
10.25				1.0	1.0							
10.75	3.7			1.1	1.2							
11.25	3.5			1.6	1.5							
11.75	4.3			2.0	1.8							
12.25	3.9			2.1	2.2							
12.75	4.2			2.3	2.4							
13.25	4.8			2.8	2.5							
13.75	4.2			2.8	3.0							
14.25	4.0			3.2	3.2							
14.75				3.5	3.2							
15.25	5.0			3.6	3.5							
15.75	4.7			3.4	3.5							
16.25	4.0			4.0								
16.75				4.4								
17.25					4.0							
17.75												
18.25												
18.75												
19.25												

MADUREZ SEXUAL PROMEDIO MENSUAL DE ANCHOVETA MACHOS

REGION NORTE (06°-10° S)

AÑO :1977

L.M.	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SET	OCT	NOV	DIC
6.25												
6.75												
7.25												
7.75												
8.25												
8.75												
9.25												
9.75												
10.25						3.0			1.0			
10.75						3.7			1.0	1.5		
11.25						3.6			1.4	1.4		
11.75						4.1			1.9	2.0		
12.25						3.9			2.2	2.0		
12.75						4.0			2.8	2.4		
13.25						4.0			2.7	2.7		
13.75						5.0			2.8	2.9		
14.25						4.3			3.0	3.1		
14.75									3.0	3.1		
15.25						4.3			3.4	3.0		
15.75						5.0			3.4	4.0		
16.25						4.5			3.2			
16.75									3.6			
17.25												
17.75												
18.25												
18.75												
19.25												

L.M. = Longitud media en cm.

MADUREZ SEXUAL PROMEDIO MENSUAL DE ANCHOVETA HEMBRAS

MADUREZ SEXUAL PROMEDIO MENSUAL DE ANCHOVETA MACHOS

REGION NORTE (06°-10° S)

AÑO :1978

REGION NORTE (06°-10° S)

AÑO :1978

L.M. ENE FEB MAR ABR MAY JUN JUL AGO SET OCT NOV DIC

6.25											
6.75											
7.25											
7.75											
8.25							3.3				
8.75							3.9				
9.25							3.6				
9.75							4.5				
10.25		1.0					1.0				
10.75		1.0									
11.25		1.1	1.1								
11.75		1.1	1.2								
12.25		1.5	1.7								
12.75		2.0	1.9								
13.25		2.0	2.0								
13.75		2.0	2.0								
14.25		2.0	2.0								
14.75		2.0	2.0								
15.25											
15.75											
16.25											
16.75							3.7				
17.25											
17.75				2.0	2.0	2.0	2.0	2.0			
18.25											
18.75											
19.25											

L.M. = Longitud media en cm.

L.M. ENE FEB MAR ABR MAY JUN JUL AGO SET OCT NOV DIC

6.25											
6.75											
7.25											
7.75											
8.25										4.0	
8.75										4.0	
9.25										4.0	
9.75										4.8	
10.25										4.4	
10.75							1.0	1.0			
11.25							1.0	1.1			
11.75							1.0	1.1			
12.25							1.6	1.3			
12.75							2.0	1.9			
13.25							2.0	2.0			
13.75							2.1	2.1			
14.25							2.1	2.2			
14.75							2.0	2.0			
15.25											
15.75											
16.25											
16.75										4.3	
17.25											
17.75											
18.25											
18.75											
19.25											

MADUREZ SEXUAL PROMEDIO MENSUAL DE ANCHOVETA HEMBRAS

REGION NORTE (06°-10° S)

AÑO :1982

L.M.	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SET	OCT	NOV	DIC
6.25												
6.75												
7.25												
7.75												
8.25												
8.75												
9.25												
9.75												
10.25												
10.75												
11.25		2.0										
11.75		3.0										
12.25		3.0										
12.75		3.0										
13.25		2.0										
13.75		2.6		2.3								
14.25				3.0								
14.75		5.1		2.5	2.0				6.0			
15.25		5.4		3.0					6.0			
15.75		5.4		2.6					5.7			
16.25		4.3	4.3	3.0	2.7				5.0			
16.75		5.7	3.3	3.0	3.4				5.8			
17.25		5.4	5.1	3.2	4.8				6.0			
17.75		6.0	4.5	4.7	5.0				5.4			
18.25		6.0	5.4	4.8	4.6				5.1			
18.75			4.0		4.8				5.2			
19.25		6.0	5.0						5.0			

MADUREZ SEXUAL PROMEDIO MENSUAL DE ANCHOVETA MACHOS

REGION NORTE (06°-10° S)

AÑO :1982

L.M.	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SET	OCT	NOV	DIC
6.25												
6.75												
7.25												
7.75												
8.25												
8.75												
9.25												
9.75												
10.25												
10.75												
11.25			2.0									
11.75												
12.25												
12.75												
13.25												
13.75				3.0	2.0							
14.25					2.0						3.0	
14.75			3.0		2.0						4.3	
15.25			3.0	4.0							4.9	
15.75			3.5	5.0	2.2	2.2						
16.25			5.0	4.7	2.2	2.8					5.1	
16.75			3.5	4.7	3.7	2.7					5.6	
17.25			5.8	4.8	2.7	2.8					4.6	
17.75			4.0	5.0	5.0	3.0					5.2	
18.25				5.0	6.0						5.2	
18.75												
19.25												

L.M. = Longitud media en cm.

MADUREZ SEXUAL PROMEDIO MENSUAL DE ANCHOVETA HEMBRAS

REGION NORTE (06°-10° S)

AÑO :1985

L.M.	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SET	OCT	NOV	DIC
6.25												
6.75												
7.25												
7.75												
8.25												
8.75												
9.25												
9.75												
10.25												
10.75				1.0								
11.25												
11.75					3.0							
12.25					3.0							
12.75					3.0							
13.25					3.0	2.5						
13.75					3.0	3.9						
14.25					3.0	3.8	4.5					
14.75					3.0	4.7	4.9	4.0	3.0	3.0		
15.25					3.0	4.3	5.0		3.0	2.7		
15.75					3.0	4.4	5.1	5.2	3.0	2.8		
16.25					3.0	4.2	5.1	5.0	3.0	2.4		
16.75						4.9	5.1	4.9	3.5	3.0		
17.25						4.8	5.3	5.0	3.0	3.0		
17.75					3.0	5.3	5.3	5.4	3.0	3.0		
18.25						5.0	5.2	5.0		3.0		
18.75							5.2	5.1				
19.25						5.5		5.0				

L.M. = Longitud media en cm.

MADUREZ SEXUAL PROMEDIO MENSUAL DE ANCHOVETA MACHOS

REGION NORTE (06°-10° S)

AÑO :1985

L.M.	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SET	OCT	NOV	DIC
6.25												
6.75												
7.25												
7.75												
8.25												
8.75												
9.25												
9.75												
10.25												
10.75												
11.25							1.0					
11.75							3.0					
12.25							3.0					
12.75							3.0					
13.25							3.0	3.7				
13.75							3.0	3.9	4.0			
14.25							3.0	4.8	4.6			4.0
14.75							3.0	4.6	4.8	3.0	3.0	2.0
15.25							3.0	5.1	4.9		3.8	2.3
15.75							3.0	4.9	5.0	5.0	3.6	2.5
16.25							2.0	4.5	4.9	4.7	3.6	3.0
16.75								5.0	4.8	5.3	4.3	3.0
17.25							3.0	5.0	5.2	5.0	3.0	3.0
17.75								5.0	5.0	5.0		2.3
18.25							3.0	5.5	5.2	5.0		3.0
18.75												
19.25										4.0		

MADUREZ SEXUAL PROMEDIO MENSUAL DE ANCHOVETA HEMBRAS

REGION NORTE (06°-10° S)

AÑO :1986

L.M.	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SET	OCT	NOV	DIC
6.25												
6.75												
7.25												
7.75												
8.25												
8.75												
9.25												
9.75												
10.25												
10.75										2.0		
11.25												
11.75												
12.25											2.5	
12.75											3.0	
13.25											3.0	
13.75									5.0			
14.25	3.0											
14.75	3.0		3.0				3.0					
15.25	3.0	3.0	3.0	3.0	3.0	3.5	4.7	6.0				3.0
15.75	3.1	3.0	3.0	3.2	3.2	3.6	5.0	4.7	4.5	6.0	4.5	3.0
16.25	3.2	3.0	3.0	3.0	3.3	3.8	4.6	5.1	4.5	5.3	4.1	4.3
16.75	3.3	3.0	3.0	3.0	3.1	3.5	4.9	5.4	4.7	5.6	4.1	4.3
17.25	3.0	3.0	3.0	3.0	3.5	4.1	4.8	5.3	5.0	5.1	3.9	4.1
17.75	3.0		3.4	3.0	3.6	3.8	4.9	5.4	5.1	5.4	4.2	5.0
18.25	3.0		3.8	3.2	3.6	4.5	4.7	5.3	5.1	5.3	4.5	5.0
18.75	3.0		4.0	5.0	4.0		5.3	5.0	5.0	5.3	4.9	5.0
19.25		3.0				6.0			5.3	4.3	4.8	

L.M. = Longitud media en cm.

MADUREZ SEXUAL PROMEDIO MENSUAL DE ANCHOVETA MACHOS

REGION NORTE (06°-10° S)

AÑO :1986

L.M.	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SET	OCT	NOV	DIC
6.25												
6.75												
7.25												
7.75												
8.25												
8.75												
9.25												
9.75												
10.25												
10.75												
11.25												
11.75										2.0		
12.25												
12.75												
13.25												2.5
13.75												
14.25												
14.75	3.0	3.0		2.0	3.0	4.0		6.0				6.0
15.25	3.2	3.0	3.0	3.0	3.0	3.8	5.0		6.0			4.8
15.75	3.0	3.0	3.0	3.0	3.2	3.8	4.8	4.9	5.4	5.8	5.7	5.4
16.25	3.6	3.0	3.1	3.0	3.5	4.2	4.9	5.2	5.3	5.4	4.8	4.5
16.75	3.7	3.0	3.2	3.0	3.3	4.2	4.9	5.1	5.3	5.6	4.7	5.0
17.25	3.0	3.0	3.3	3.0	4.1	4.2	4.8	5.3	5.4	5.2	4.7	4.7
17.75	3.0		3.6	3.1	4.2	5.0	4.8	5.0	4.9	5.3	4.5	4.9
18.25	5.0		4.0	3.4	5.0		4.7	5.0	5.3	5.3	4.3	5.0
18.75			4.0	4.0				6.0	6.0	4.9	4.4	5.7
19.25										4.0	5.0	

REGION NORTE (06°-10° S)

AÑO :1987

REGION NORTE (06°-10° S)

AÑO :1987

L.M.	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SET	OCT	NOV	DIC
6.25												
6.75												
7.25												
7.75												
8.25												
8.75												
9.25												
9.75						2.0						
10.25						2.0						
10.75						2.0						
11.25					4.0							
11.75			2.0		2.5							
12.25		2.6	2.0		2.9							
12.75		2.6	2.0		2.5							
13.25		3.0	2.0		2.7							
13.75		2.6	2.0									
14.25		3.0	3.0		3.0							
14.75												
15.25	5.5											
15.75	5.0	3.0	3.7		4.0							
16.25	5.2	3.0	4.0		3.0							
16.75	5.8	4.1	4.3		3.5							
17.25	5.7	3.5	3.8		4.3							
17.75	5.2	3.8	3.4		4.5							
18.25	5.5	4.9	4.4		5.4							
18.75	5.3	6.0	6.0		6.0							
19.25	5.7											

L.M.	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SET	OCT	NOV	DIC
6.25												
6.75												
7.25												
7.75												
8.25												
8.75												
9.25												
9.75												
10.25												
10.75							2.2					
11.25							2.0					
11.75				2.0			3.1					
12.25		2.0	2.0				2.0					
12.75		2.0	2.0				2.4					
13.25		2.7	2.5				2.7					
13.75		3.5	3.0				3.0					
14.25		4.5					3.0					
14.75	3.0	-										
15.25												
15.75	6.0	5.0	3.0									
16.25	5.8	5.7	3.7				3.7					
16.75	5.8	6.0	3.5				3.5					
17.25	5.5	6.0	3.5				6.0					
17.75	5.6	5.0	3.3				5.5					
18.25	5.3	5.7	3.2				4.0					
18.75	3.0	6.0	3.0									
19.25												

L.M. = Longitud media en cm.

MADUREZ SEXUAL PROMEDIO MENSUAL DE ANCHOVETA HEMBRAS

REGION CENTRO (10°-14° S)

AÑO :1961

L.M.	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SET	OCT	NOV	DIC
6.25												
6.75												
7.25												
7.75												
8.25												
8.75												
9.25		1.0										
9.75		1.0										
10.25		1.0										
10.75		1.0	1.0			1.0						
11.25		1.0										
11.75		1.6	1.6	1.0	1.0	2.3	2.1		1.0	1.0		
12.25		1.7										
12.75		3.3	2.5	3.3	2.9	2.2	2.4	5.0	2.3	1.6		
13.25		3.2										
13.75		4.2	4.0	4.7	4.3	3.1	2.7	4.5	4.5	5.5	5.6	
14.25		4.1										
14.75		4.0	5.3	4.3	4.5	3.1	3.2	3.9	5.1	5.7	5.4	
15.25		4.1										
15.75		4.7	5.6	4.3	4.0	3.6	3.5	4.1	4.8	5.4	5.5	
16.25		5.5										
16.75			6.0	4.0	4.2	3.0	3.3	4.2	4.7	5.1	5.3	
17.25												
17.75												
18.25												
18.75												
19.25												

L.M. = Longitud media en cm.

MADUREZ SEXUAL PROMEDIO MENSUAL DE ANCHOVETA MACHOS

REGION CENTRO (10°-14° S)

AÑO :1961

L.M.	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SET	OCT	NOV	DIC
6.25												
6.75												
7.25												
7.75												
8.25												
8.75												
9.25												
9.75												
10.25												
10.75												
11.25												
11.75												
12.25												
12.75												
13.25												
13.75												
14.25												
14.75												
15.25												
15.75												
16.25												
16.75												
17.25												
17.75												
18.25												
18.75												
19.25												

MADUREZ SEXUAL PROMEDIO MENSUAL DE ANCHOVETA MICHUAS

REGION CENTRO (100-140 S) AÑO :1962

L.H.	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SET	OCT	NOV	DIC
6.25												
6.75												
7.25												
7.75												
8.25												
8.75												
9.25												
9.75		1.0										
10.25												
10.75		1.0	1.0		1.0	1.0	1.0	1.0				
11.25												
11.75	1.0	1.0	1.2	1.0	1.0	1.1	1.1	1.9	1.6	1.0	1.0	
12.25												
12.75	3.0	1.5	2.0	1.1	1.7	1.8	1.5	2.1	2.5	1.5	1.0	
13.25												
13.75	4.7	4.1	3.7	4.7	3.5	2.3	2.1	2.8	3.1	3.4	4.3	2.8
14.25												
14.75	5.0	5.0	4.9	4.8	4.1	2.8	2.1	3.4	3.5	3.9	4.8	4.0
15.25												
15.75	5.0	5.2	5.0	5.1	4.2	2.8	2.4	3.7	3.9	4.0	4.8	4.8
16.25												
16.75	4.9	5.0	4.9	5.6	4.7	2.2	2.4	3.6	4.1	4.3	4.9	4.7
17.25												
17.75		6.0	5.0			2.8				4.0		
18.25												
18.75												
19.25												

MADUREZ SEXUAL PROMEDIO MENSUAL DE ANCHOVETA MACHOS

REGION CENTRO (100-140 S) AÑO :1962

L.H.	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SET	OCT	NOV	DIC
6.25												
6.75												
7.25												
7.75												
8.25												
8.75												
9.25												
9.75												
10.25												
10.75					1.0		1.0	1.0	1.0	1.3		
11.25												
11.75	5.0	1.0	5.1	1.0	1.0	1.2	1.1	2.1	2.2	1.0	1.0	
12.25												
12.75	3.7	3.0	2.5	1.2	1.2	1.4	1.5	2.3	2.6	2.5	1.7	
13.25												
13.75	5.3	4.5	4.2	4.6	4.5	4.0	2.5	3.3	3.6	4.5	3.6	3.2
14.25												
14.75	4.8	4.7	4.7	5.7	5.7	5.2	2.7	3.5	4.0	4.7	4.5	4.1
15.25												
15.75	5.0	4.7	5.0	5.8	5.6	5.2	3.3	3.7	4.0	4.4	4.4	4.6
16.25												
16.75	4.9	4.0	5.0	6.0	6.0	6.0	4.0	4.4	4.6	4.0	4.4	4.7
17.25												
17.75												
18.25												
18.75												
19.25												

MADUREZ SEXUAL PROMEDIO MENSUAL DE ANCHOVETA HEMBRAS

REGION CENTRO (10°-14° S)

AGO :1963

L.M.	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SET	OCT	NOV	DIC
6.25												
6.75												
7.25												
7.75												
8.25												
8.75												
9.25												
9.75						1.0				1.0	1.0	
10.25												
10.75	1.0		1.0	1.0	1.0	1.0	1.2	1.3		1.0	1.0	
11.25												
11.75	1.0	1.0	1.0	1.1	1.1	1.0	1.7	1.5	1.6	2.0	1.1	
12.25												
12.75	3.0	2.0	1.4	1.2	1.2	1.3	2.0	2.0	2.6	3.1	2.4	1.8
13.25												
13.75	3.7	3.9	3.9	3.8	2.7	2.6	2.4	3.3	3.8	3.6	4.1	4.4
14.25												
14.75	4.2	4.5	4.6	4.3	2.4	2.6	2.1	4.5	4.6	4.2	4.6	4.8
15.25												
15.75	4.8	5.4	4.8	4.1	3.1	2.7	3.6	4.8	4.5	4.3	4.7	4.8
16.25												
16.75	4.8	6.0	5.1	4.4	3.8	4.0	4.7	6.0	5.0	4.0	4.8	4.6
17.25												
17.75	5.0										5.0	
18.25												
18.75												
19.25												

L.M. = Longitud media en cm.

MADUREZ SEXUAL PROMEDIO MENSUAL DE ANCHOVETA MACHOS

REGION CENTRO (10°-14° S)

AGO :1963

L.M.	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SET	OCT	NOV	DIC
6.25												
6.75												
7.25												
7.75												
8.25												
8.75							1.0					
9.25												
9.75						1.0	1.0				1.0	1.0
10.25												
10.75		1.0	1.0	1.0	1.0	1.0	1.0		1.0		1.0	1.0
11.25												
11.75	1.0	1.0	1.1	1.0	1.0	1.1	1.3	1.4	1.8	4.0	2.8	1.1
12.25												
12.75	1.4	1.0	3.1	1.5	1.3	1.4	1.8	2.3	2.5	3.0	3.4	2.3
13.25												
13.75	3.9	4.2	4.8	4.3	4.3	2.2	2.7	3.5	4.3	3.9	4.7	3.6
14.25												
14.75	4.2	4.8	5.2	5.1	4.3	2.8	3.2	4.2	4.5	4.2	4.6	4.5
15.25												
15.75	4.6	4.4	5.1	5.0	4.5	2.7	3.7	4.4	4.5	4.1	4.5	4.8
16.25												
16.75	4.3	5.0	5.0	6.0	4.5			4.0	4.0		4.7	5.0
17.25												
17.75					2.0							
18.25												
18.75												
19.25												

MADUREZ SEXUAL PROMEDIO MENSUAL DE ANCHOVETA HEMBRAS

MADUREZ SEXUAL PROMEDIO MENSUAL DE ANCHOVETA MACHOS

REGION CENTRO (10°-14° S)

AÑO :1964

REGION CENTRO (10°-14° S)

AÑO :1964

L.M.	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SET	OCT	NOV	DIC
6.25												
6.75												
7.25												
7.75												
8.25												
8.75												
9.25		1.0		1.0								
9.75		1.0	1.0	1.0								
10.25	1.0	1.0	1.0	1.0	1.0							1.0
10.75	1.0	1.0	1.0	1.0	1.0	1.0						1.2
11.25	1.4	1.1	1.0	1.0	1.0	1.0						1.3
11.75	2.3	1.9	1.3	1.0	1.1	1.0	1.0					1.4
12.25	4.0	2.6	2.1	1.1	1.2	1.2	1.4	3.5				3.3
12.75	4.5	3.1	2.3	2.5	1.6	1.5	2.3	4.5			2.0	4.0
13.25	4.6	3.7	3.4	3.1	2.1	2.0	2.4	4.0		5.7	5.0	4.5
13.75	4.8	4.5	3.8	3.4	2.5	2.1	2.7	4.5	5.0	5.0	4.5	4.7
14.25	5.1	4.6	4.6	3.9	2.9	2.3	3.0	4.3	4.2	5.4	4.7	4.6
14.75	4.8	4.7	4.5	4.6	2.8	2.4	3.5	4.3	4.7	5.0	4.9	5.0
15.25	4.9	4.8	4.7	4.8	2.9	2.4	3.9	4.4	5.0	5.0	5.0	5.1
15.75	5.0	4.0	4.2	4.5	3.2	2.2	4.3	4.3	5.0	4.9	4.9	5.0
16.25	5.0	6.0	4.0	6.0	4.0	2.0	4.5	4.2		4.9	5.0	4.9
16.75				4.0			3.6			5.0	5.0	4.8
17.25												
17.75												
18.25												
18.75												
19.25												

L.M.	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SET	OCT	NOV	DIC
6.25												
6.75												
7.25												
7.75												
8.25												
8.75												
9.25	1.0	1.0		1.0								
9.75	1.0	1.0	1.0	1.0								
10.25	1.0	1.1	1.1	1.7		1.0						1.0
10.75	1.3	1.1	1.0	1.0	1.0	1.0						1.0
11.25	1.6	1.8	1.2	1.0	1.0	1.1						1.4
11.75	2.2	1.8	1.6	1.0	1.0	1.2	1.0					1.4
12.25	4.4	2.7	2.2	1.1	1.1	1.2	1.2	2.0				2.0
12.75	5.0	3.7	3.1	3.0	1.4	1.2	2.0	4.0	5.5	5.5	6.0	2.3
13.25	4.8	4.3	3.6	4.1	2.7	2.3	3.0	4.4	4.0	5.6	4.7	4.4
13.75	4.8	4.4	3.8	4.5	3.0	2.5	3.3	4.5	4.6	5.2	4.4	4.7
14.25	4.9	4.6	4.4	4.5	2.3	2.6	3.9	4.5	4.8	5.1	4.5	4.4
14.75	4.9	4.5	4.3	5.6	3.7	2.8	4.0	4.5	5.0	4.9	4.6	4.5
15.25	4.5	4.7	4.2	6.0	3.4	4.0	4.2	4.3	4.5	4.9	4.8	4.3
15.75		4.0	4.0	5.0	3.5	3.0	4.1	4.2		4.8	4.9	4.6
16.25			4.0	6.0	2.0		4.6	4.0		4.8	4.5	4.5
16.75								4.0				
17.25												
17.75												
18.25												
18.75												
19.25												

L.M. = Longitud media en cm.

MADUREZ SEXUAL PROMEDIO MENSUAL DE ANCHOVETA HEMBRAS

MADUREZ SEXUAL PROMEDIO MENSUAL DE ANCHOVETA MACHOS

REGION CENTRO (10°-14° S)

AÑO :1965

REGION CENTRO (10°-14° S)

AÑO :1965

L.M.	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SET	OCT	NOV	DIC
6.25												
6.75												
7.25												
7.75			1.0	1.0								
8.25		1.0								1.0	1.0	
8.75	1.0	1.0	1.0	1.0	1.0	1.0	1.0			1.0	1.8	
9.25	1.0	1.0		1.0	1.0	1.0	1.0		1.0	1.0	1.0	
9.75	1.0	1.0	1.0	1.0	1.0	1.2	1.0		1.0	1.3	1.0	
10.25	1.0	1.0	1.0	1.0	1.0	1.0	1.0		1.4	1.2	1.0	
10.75	1.1	1.0	1.0	1.0	1.0	1.0	1.5		1.8	1.4	1.2	
11.25	1.1	1.0	1.0	1.0	1.0	1.1	2.0		2.2	2.0	1.1	
11.75	1.4	1.1	1.0	1.1	1.0	1.5	2.8		2.5	2.0	1.7	1.7
12.25	1.6	1.4	1.0	1.3	1.1	1.5	3.0		3.0	2.7	2.3	2.3
12.75	3.3	2.6	2.2	1.7	1.6	2.1	2.8		2.9	3.7	2.8	3.0
13.25	4.3	2.5	3.2	3.1	2.8	2.9	3.0		3.8	4.8	3.8	3.3
13.75	4.4	4.4	4.8	4.9	4.0	4.0	3.4		4.3	4.8	4.1	3.7
14.25	5.0	4.6	5.2	5.3	5.1	4.1	4.0		4.7	4.9	4.4	4.0
14.75	5.1	4.9	5.5	5.9	5.1	5.2	4.0		4.4	4.7	4.7	4.2
15.25	5.0	4.9	5.5	5.6	5.3	5.1	5.0		4.3	4.8	4.6	4.5
15.75	5.0	4.8	5.4	5.7	5.4	5.2	4.4		3.8	4.4	4.1	4.3
16.25	5.0	5.0	5.5	5.9	6.0	4.7	5.0				4.5	5.0
16.75	5.0	4.5	5.6	6.0		4.0	5.0					
17.25												
17.75												
18.25												
18.75												
19.25												

L.M.	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SET	OCT	NOV	DIC
6.25												
6.75												
7.25												
7.75												2.0
8.25	1.0											
8.75	1.0	1.0	1.0			1.0	1.0				1.0	1.0
9.25	1.0	1.0				1.0	1.0	1.3	1.0			1.0
9.75	1.0	1.0	1.0	1.0	1.0	1.0	1.0		1.2		1.0	1.3
10.25	1.0	1.0	1.0	1.0	1.0	1.0	1.5		1.9		1.0	1.0
10.75	1.0	1.0	1.0	1.0	1.0	1.0	1.3	2.0		2.1	1.0	1.6
11.25	1.3	1.1	1.0	1.0	1.0	1.2	1.8		2.1	2.0	1.5	1.5
11.75	1.5	1.5	1.0	1.0	1.0	1.2	1.9		2.4	2.0	2.2	1.7
12.25	3.0	1.7	2.5	1.0	1.0	1.7	3.4		2.8	3.2	2.3	2.6
12.75	2.8	1.9	1.7	1.1	1.0	1.8	3.5		3.2	4.2	2.9	3.2
13.25	3.3	3.4	4.1	3.1	2.4	3.5	4.2		4.0	4.4	4.0	3.2
13.75	5.0	4.3	5.3	5.1	4.4	4.0	4.7		4.0	4.3	4.1	3.4
14.25	4.8	4.8	5.7	5.4	5.8	4.1	5.0		4.2	4.7	4.3	3.7
14.75	4.8	5.1	5.4	5.7	5.8	5.2	5.0		4.1	5.0	4.5	4.0
15.25	4.9	5.1	5.6	5.4	5.6	5.2	4.0		4.5		4.4	4.3
15.75	4.9	4.9	5.7	5.6	6.0	5.3	5.0		4.5	4.5	4.3	3.8
16.25	5.0	5.0	3.5	6.0		5.0			5.0			
16.75	4.0	4.0										
17.25												
17.75												
18.25												
18.75												
19.25												

L.M. = Longitud media en cm.

MADUREZ SEXUAL PROMEDIO MENSUAL DE ANCHOVETA HEMBRAS

MADUREZ SEXUAL PROMEDIO MENSUAL DE ANCHOVETA MACHOS

REGION CENTRO (10°-14° S)

AÑO :1967

REGION CENTRO (10°-14° S)

AÑO :1967

L.M. ENE FEB MAR ABR MAY JUN JUL AGO SET OCT NOV DIC

L.M. ENE FEB MAR ABR MAY JUN JUL AGO SET OCT NOV DIC

6.25											
6.75											
7.25											
7.75		1.0									
8.25	1.0	1.0	1.0								
8.75	1.0	1.0	1.0	1.0	1.0						
9.25	1.0	1.0	1.0	1.0	1.0	1.0					
9.75	1.0	1.0	1.0	1.0	1.0	1.0					
10.25	1.0	1.1	1.2	1.1	1.0	1.2					
10.75	1.0	1.5	1.0	1.6	1.0	1.3					
11.25	1.1	1.5	1.3	1.9	1.0	1.9					
11.75	1.1	1.7	2.0	2.4	2.1	2.0					
12.25	2.0	2.0	2.5	2.8	2.5	4.2	5.0				
12.75	2.0		2.9	2.8	2.9	3.2	4.8	4.7	6.0		
13.25			3.1	2.9	2.9	4.7	5.0	5.3	5.0		
13.75	3.5	3.0	4.1	3.3	3.6	2.8	4.8	4.9	4.9		
14.25	4.7	3.0	3.6	4.4	3.6	3.0	4.8	5.3	5.0		
14.75	4.7	3.6	3.8	2.8	3.6	4.0	4.5	5.0	5.0		
15.25	4.9	4.3	4.7	3.7			4.8	4.9	4.7		
15.75	4.6	5.0	4.7	4.1	6.0	3.0	5.3	5.0	5.0		
16.25	4.7	5.0	3.8	4.6	6.0		4.0	5.0	5.0		
16.75	4.4		4.3	5.0	4.7	5.0	5.0		4.0		
17.25				5.0	6.0						
17.75											
18.25											
18.75											
19.25											

6.25												
6.75												
7.25												
7.75												
8.25												
8.75		1.0	1.0		1.0							
9.25	1.0	1.0	1.0		1.0							
9.75	1.0	1.0	1.0	1.0	1.0							
10.25	1.0	1.0	1.3	1.2	1.0	1.0						
10.75	1.0	1.4	1.0	1.4	1.0	1.1						
11.25	1.6	1.9	1.4	1.9	1.7	1.9						
11.75	1.4	2.0	1.5	1.9	2.0	2.0						
12.25		2.7	2.3	2.0	2.0	2.6				5.0		
12.75	6.0	4.0	2.9	2.0	2.3	2.8				4.9	4.3	5.5
13.25	5.0	3.0	3.1	2.3	2.4	3.3				4.8	4.5	3.9
13.75	4.9	3.8	3.0	2.8	2.0	3.3				4.9	5.0	4.2
14.25	4.7	4.5	5.3	2.2	2.0	2.9				4.7	5.1	4.6
14.75	4.8	4.7	3.7	2.3	4.0	2.7				4.8	5.1	4.7
15.25	4.8	5.0	4.2	4.3	3.3					4.8	4.8	5.2
15.75	4.9		4.3	4.9	4.0					4.0	5.0	4.5
16.25	4.6		5.0	5.5	5.2						4.7	
16.75			4.0	3.0	2.0							
17.25				3.0								
17.75												
18.25												
18.75												
19.25												

L.M. = Longitud media en cm.

MADUREZ SEXUAL PROMEDIO MENSUAL DE ANCHOVETA HEMBRAS

REGION CENTRO (10°-14° S)

AÑO :1968

L.M.	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SET	OCT	NOV	DIC
6.25												
6.75												
7.25												
7.75												
8.25	1.0	1.0										
8.75	1.0	1.0	1.0									
9.25	1.0	1.0	1.0									1.0
9.75	1.0	1.0	1.0	1.0	1.0							1.0
10.25	1.0	1.0	1.0	1.5	1.0							1.0
10.75	1.1	1.0	1.7	2.0	1.0							1.0
11.25	1.2	1.4	2.0	1.6	1.0			1.0				1.0
11.75	2.0	2.0	6.0	1.4	1.2			1.7				1.0
12.25	6.0	2.0	6.0	1.4	1.5			2.5	2.3			1.0
12.75	6.0	6.0		1.2	1.7			2.0	3.5			
13.25	6.0			1.3	1.8			3.1	3.5	4.5		
13.75	5.1	5.0		1.5	1.9			4.0	4.9	4.6	5.4	
14.25	5.0	5.3		2.2	2.0			4.5	5.6	5.0	5.3	
14.75	5.1	5.4		2.0	2.1			4.6	5.4	5.0	5.3	
15.25	4.9	5.0		3.2	2.4			4.9	5.3	4.7	5.5	
15.75	4.7	5.0		3.1	2.4			4.9	5.3	4.5	5.3	
16.25	4.9	5.0		3.6	2.3			4.8	5.1	4.4	4.9	
16.75	5.0	5.0		3.9	2.3			4.9	5.3		5.1	
17.25				3.6	3.0			5.0	5.0	3.0		
17.75	3.0							5.0	5.0			
18.25												
18.75												
19.25												

L.M. = Longitud media en cm.

MADUREZ SEXUAL PROMEDIO MENSUAL DE ANCHOVETA MACHOS

REGION CENTRO (10°-14° S)

AÑO :1968

L.M.	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SET	OCT	NOV	DIC
6.25												
6.75												
7.25												
7.75												
8.25								1.0				
8.75								1.0	1.0			
9.25								1.0	1.0			
9.75	1.0	1.0	1.0					1.0				
10.25	1.0	1.0	1.7					1.0				
10.75	1.3	1.0	1.0					1.0				
11.25	2.0	1.3			1.5	1.1						1.0
11.75	2.6	2.0	6.0		1.1	1.1				1.0		1.0
12.25	3.0	4.0			1.3	1.5			2.0	2.0		
12.75	5.7				1.2	1.7			3.1	3.2	5.0	
13.25	3.7				1.2	1.9			3.3	3.5	3.0	4.0
13.75	4.5		6.0		1.4	1.8			4.0	4.5	4.3	5.5
14.25	4.8	3.8	3.0		2.0	1.9			4.4	4.9	4.6	4.9
14.75	5.0	4.1	5.0		2.0	2.2			4.2	4.8	3.9	4.9
15.25	5.1	4.5			2.8	2.1			4.5	4.8	4.3	4.9
15.75	5.0	4.3			3.0	2.1			4.8	4.9	3.7	4.6
16.25	5.0				3.1	2.0			4.6	4.8	5.0	4.9
16.75	5.0				3.3	2.3			4.9	4.9		5.0
17.25									5.0	5.0		
17.75												
18.25												
18.75												
19.25												

MADUREZ SEXUAL PROMEDIO MENSUAL DE ANCHOVETA HEMBRAS

MADUREZ SEXUAL PROMEDIO MENSUAL DE ANCHOVETA MACHOS

REGION CENTRO (10°-14° S)

AÑO :1969

L.M.	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SET	OCT	NOV	DIC
6.25												
6.75												
7.25												
7.75												
8.25												
8.75	1.0		1.0									
9.25			1.0									
9.75	1.0		1.0	1.0								
10.25	1.0		1.1	1.0								
10.75	1.0		1.2	1.3	1.0							
11.25	1.3		1.7	1.4				2.6			1.0	
11.75	1.7		1.9	1.9	2.0			3.6	3.0		2.0	
12.25	2.0		2.0	1.9	2.0			3.9	4.0		2.1	
12.75	2.7		2.1	2.0	2.0			3.6	4.0		2.0	
13.25	3.0		2.9	2.0	2.0			4.3	4.5		2.7	
13.75	5.6		2.2	2.0	2.3			4.7	3.8		3.0	
14.25	5.4		4.0	2.0	3.0			4.7	4.5		3.7	
14.75	5.2		3.8	2.1	3.0			4.9	4.5		3.4	
15.25	5.1		4.3	2.3				4.8	4.7		4.0	
15.75	5.2		5.8	2.9	2.0			4.9	4.7		3.8	
16.25	5.2		5.3	2.8				4.5	5.0		4.2	
16.75	5.0		5.0	5.0				5.0			4.0	
17.25				5.0								
17.75												
18.25												
18.75												
19.25												

REGION CENTRO (10°-14° S)

AÑO :1969

L.M.	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SET	OCT	NOV	DIC
6.25												
6.75												
7.25												
7.75												
8.25												
8.75												
9.25	1.0		1.0									
9.75	1.0		1.0									
10.25	1.1		1.1	1.0								
10.75	1.1		1.4	1.3	1.0					2.2		
11.25	1.5		1.7	1.1						2.3	2.0	1.5
11.75	1.8		1.9	1.8	2.0					3.1	3.0	1.9
12.25	2.1		2.0	1.8	2.0					3.4	3.7	2.2
12.75	2.5		2.1	2.0	2.0					3.8	3.7	2.6
13.25	2.5		2.4	2.0	2.0					4.1	3.6	2.5
13.75	4.3		2.2	2.0						4.3	4.4	3.2
14.25	4.4		6.0	2.0	2.0					4.5	4.8	3.8
14.75	4.5		2.3	2.2						4.5	4.5	4.1
15.25	4.7		4.3	2.0						4.6	4.5	4.1
15.75	5.0		4.5	2.7						5.0	4.6	4.0
16.25	5.0		5.0							5.0	4.0	4.3
16.75			4.0	3.0						5.0		
17.25	5.0			3.0								
17.75												
18.25												
18.75												
19.25												

L.M. = Longitud media en cm.

MADUREZ SEXUAL PROMEDIO MENSUAL DE ANCHOVETA HEMBRAS

MADUREZ SEXUAL PROMEDIO MENSUAL DE ANCHOVETA MACHOS

REGION CENTRO (10°-14° S)

AÑO :1970

REGION CENTRO (10°-14° S)

AÑO :1970

L.M.	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SET	OCT	NOV	DIC
6.25												
6.75												
7.25												
7.75												
8.25												
8.75												
9.25												
9.75												
10.25												
10.75												
11.25	1.4	1.8	1.5	1.2	1.3			1.0				
11.75	1.5	2.1	1.8	1.7	1.9	2.0		2.0				
12.25	1.9	2.1	1.9	2.0	2.0	2.0		3.0	2.0	2.0		
12.75	2.4	2.9	2.0	2.0	2.0	2.6		2.7	2.5	2.0	3.0	
13.25	2.6	2.9	2.5	2.0	2.2	2.9		3.1	2.7	2.3	4.8	
13.75	2.9	3.5	2.8	2.3	2.5	3.1		3.8	3.7	2.6	3.9	
14.25	3.5	3.8	3.3	2.2	2.4	3.0		4.0	3.9	2.5	5.4	
14.75	3.5	3.8	3.1	2.8	2.9	3.5		4.5	4.7	3.7	5.0	
15.25	3.6	3.9	3.7	3.1	3.0	3.7		4.5	4.5	3.9	4.4	
15.75	4.0	4.3	3.9	2.9	3.2	4.1		4.8	4.6	3.9	4.0	
16.25	4.0	4.5	4.2	4.0	3.4	4.0		4.8	4.4	4.2	4.2	
16.75	4.7	4.3	4.4	5.0		4.8		4.6	4.2	4.0	4.3	
17.25		4.0	4.7	4.0		4.0		4.7	4.4	4.2	4.5	
17.75								4.7	4.6	5.0	4.5	
18.25								4.8		5.0	5.0	
18.75												
19.25												

L.M.	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SET	OCT	NOV	DIC
6.25												
6.75												
7.25												
7.75												
8.25												
8.75												
9.25												
9.75												
10.25												
10.75												
11.25	1.5	1.7	1.5	1.2	1.5					1.7		
11.75	1.8	2.1	2.0	1.9	1.9	2.0				2.0		
12.25	2.3	2.5	2.2	1.8	2.0	2.2				2.8	2.0	2.0
12.75	2.5	2.8	2.1	2.0	2.0	2.6				3.0		2.0 4.0
13.25	2.9	3.3	2.1	2.0	2.2	2.9				3.4	3.0	2.2 4.1
13.75	3.3	3.2	2.6	2.1	2.4	3.0				3.8	3.8	2.6 4.0
14.25	3.7	3.8	2.7	2.3	2.8	3.2				3.9	3.6	2.9 4.3
14.75	3.7	3.8	2.9	2.9	2.9	3.2				4.3	4.3	3.2 3.5
15.25	4.2	4.1	3.2	3.0	2.9	3.8				4.5	4.4	3.8 4.4
15.75	4.2	3.7	3.6	3.4	3.3	3.8				4.6	4.7	3.7 4.3
16.25	4.4	4.0	4.3	3.5	3.5	4.2				4.9	4.6	3.7 4.4
16.75	5.0	4.0	2.0	4.7		4.0				4.6	4.3	4.3 4.2
17.25		4.0	4.0			4.0				5.0	4.6	4.5 4.7
17.75										5.0	5.0	4.5
18.25												5.0
18.75												
19.25												

L.M. = Longitud media en cm.

MADUREZ SEXUAL PROMEDIO MENSUAL DE ANCHOVETA HEMBRAS

MADUREZ SEXUAL PROMEDIO MENSUAL DE ANCHOVETA MACHOS

REGION CENTRO (10°-14° S)

AÑO :1971

L.M.	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SET	OCT	NOV	DIC
6.25												
6.75												
7.25												
7.75												
8.25												
8.75												
9.25				1.0								
9.75				1.0								
10.25				1.0								
10.75				1.5								
11.25		1.1	1.3	1.1	1.2			2.4	1.0			
11.75		1.5	1.5	1.5	1.5			2.8	2.0			
12.25		1.6	1.8	1.8	2.0			3.2	2.0			
12.75		2.0	2.0	1.9	2.0			4.0	4.0	2.0	2.0	
13.25		2.0	2.0	2.0	2.0			4.3	4.7	2.0	2.0	
13.75		2.1	2.0	2.0	2.0			4.3	3.3	2.2	2.0	
14.25		2.2	2.0	2.0	2.0			4.5	4.2	2.3	2.0	
14.75		2.6	2.1	2.2	2.0			5.0	4.9	2.4	2.0	
15.25		3.0	2.5	2.7	2.8			5.0	4.1	3.0	2.3	
15.75		3.6	2.7	2.7	3.0			4.8	4.8	2.9	2.7	
16.25		3.5	2.7	3.0	3.0			4.9	4.9	3.2	2.5	
16.75		3.9	2.8	2.9	3.0			5.0	4.8	3.5	3.4	
17.25		4.0	2.9	3.0	3.0			5.0	4.7	3.9	3.5	
17.75		4.2	3.0	3.0	3.0			4.5	5.0	4.2	3.6	
18.25		4.3	3.2	3.2	3.0				4.8	4.2	3.8	
18.75		5.0			3.0							
19.25												

REGION CENTRO (10°-14° S)

AÑO :1971

L.M.	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SET	OCT	NOV	DIC
6.25												
6.75												
7.25												
7.75												
8.25												
8.75												
9.25									1.0			
9.75									1.0			
10.25									1.0			
10.75												
11.25									1.3	1.4	1.0	1.0
11.75									1.1	1.7	1.2	1.5
12.25									2.0	2.0	1.8	2.0
12.75									1.9	2.0	2.0	2.0
13.25									2.0	2.0	2.0	2.0
13.75									2.1	2.0	2.0	2.0
14.25									2.2	2.0	2.0	2.0
14.75									2.6	2.1	2.1	2.0
15.25									3.1	2.0	2.2	3.0
15.75									3.3	2.3	2.7	3.0
16.25									3.4	3.3	3.0	3.0
16.75									3.6	2.8	3.0	
17.25									4.0	4.0	3.0	3.0
17.75									3.7	3.5	3.0	3.0
18.25									3.0		3.5	
18.75												
19.25												

L.M. = Longitud media en cm.

MADUREZ SEXUAL PROMEDIO MENSUAL DE ANCHOVETA HEMBRAS

REGION CENTRO (10°-14° S)

AÑO :1972

L.M.	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SET	OCT	NOV	DIC
6.25												
6.75												
7.25												
7.75												
8.25												
8.75												
9.25												
9.75											1.0	
10.25											1.0	
10.75											1.4	
11.25		1.0	1.0	1.6	1.1						1.8	
11.75		1.3	1.3	1.3	1.3						1.4	
12.25		2.0	1.6	1.9	1.8						3.5	
12.75		2.0	2.0	1.9	2.7						5.0	
13.25		2.0	2.0	2.3	2.5						4.9	
13.75		2.0	2.0	2.3	4.3						4.8	
14.25		2.0	2.4	2.9	4.3						5.3	
14.75		2.2	2.4	3.9	5.1						5.4	
15.25		2.2	2.7	3.7	5.2						5.0	
15.75		2.4	2.6	4.2	4.8						5.2	
16.25		2.6	2.8	4.3	4.5						5.3	
16.75		2.7	2.9	3.8	4.9						5.4	
17.25		3.4	3.3	4.6	4.0						5.0	
17.75		3.6	3.3	5.4	5.0						6.0	
18.25		3.9	3.3	4.0								
18.75			3.7	4.0								
19.25												

MADUREZ SEXUAL PROMEDIO MENSUAL DE ANCHOVETA MACHOS

REGION CENTRO (10°-14° S)

AÑO :1972

L.M.	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SET	OCT	NOV	DIC
6.25												
6.75												
7.25												
7.75												
8.25												
8.75												
9.25												
9.75												
10.25												1.0
10.75												1.0
11.25			1.0	1.0	1.9	1.0						1.0
11.75			1.1	1.1	1.8	1.5						1.7
12.25			2.0	1.7	2.0	1.9						4.3
12.75			2.0	1.9	2.1	2.3						5.0
13.25			2.3	2.1	2.2	2.7						4.5
13.75			2.1	2.1	2.2	3.1						5.1
14.25			2.1	2.3	3.0	3.8						5.5
14.75			2.1	2.1	3.0	4.0						5.4
15.25			2.0	2.4	3.1	4.2						5.2
15.75			2.2	2.5	4.0	4.7						5.2
16.25			2.5	2.7	4.4	4.8						5.1
16.75			2.7	2.5	3.3	4.7						5.4
17.25			3.2	2.9	4.2	4.0						6.0
17.75			3.2	2.9	5.8	5.0						1.0
18.25			3.5	3.5								
18.75												
19.25												

L.M. = Longitud media en cm.

MADUREZ SEXUAL PROMEDIO MENSUAL DE ANCHOVETA HEMBRAS

MADUREZ SEXUAL PROMEDIO MENSUAL DE ANCHOVETA MACHOS

REGION CENTRO (10°-14° S)

AÑO :1973

REGION CENTRO (10°-14° S)

AÑO :1973

L.M.	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SET	OCT	NOV	DIC
6.25												
6.75												
7.25												
7.75												
8.25												
8.75												
9.25												
9.75												
10.25			1.0									
10.75			1.0									
11.25			1.0									
11.75			1.6	1.5								
12.25			2.0	2.0								
12.75			2.4	3.2								
13.25			2.5	2.9								
13.75			3.5	3.2								
14.25			3.5	4.3								
14.75			3.9	4.5								
15.25			4.2	4.6								
15.75			4.2	4.6								
16.25			4.3	4.9								
16.75			4.3	4.6								
17.25			4.3	4.7								
17.75			4.5	5.0								
18.25			5.0									
18.75												
19.25												

L.M.	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SET	OCT	NOV	DIC
6.25												
6.75												
7.25												
7.75												
8.25												
8.75												
9.25												
9.75												
10.25								1.0				
10.75								1.0				
11.25								1.3				
11.75								1.6	1.7			
12.25								2.0	1.9			
12.75								2.7	2.2			
13.25								3.0	2.7			
13.75								3.8	3.7			
14.25								3.6	3.7			
14.75								3.7	3.9			
15.25								4.1	4.2			
15.75								4.3	4.6			
16.25								4.1	4.7			
16.75								3.8	4.5			
17.25								4.0	4.0			
17.75								3.3	5.0			
18.25												
18.75												
19.25												

L.M. = Longitud media en cm.

MADUREZ SEXUAL PROMEDIO MENSUAL DE ANCHOVETA HEMBRAS

REGION CENTRO (10°-14° S)

AÑO :1974

L.M.	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SET	OCT	NOV	DIC
6.25												
6.75												
7.25												
7.75												
8.25												
8.75												
9.25		1.0										
9.75		1.0										
10.25		1.0		1.0								
10.75		1.0		1.0								
11.25		1.3		3.0								
11.75		1.7	1.0	3.0								
12.25		3.0	1.0	3.6								
12.75		2.6	1.7	3.0			3.0					
13.25		3.4	1.2	2.0			3.0					
13.75		2.9	4.2	5.0			4.2					
14.25		3.3	4.4	2.8			4.6	4.4				
14.75		3.1	4.9	2.5			4.7	4.4				
15.25		3.5	5.0	3.2			4.9	4.6				
15.75		4.0	3.7	3.0			4.9	4.8				
16.25		4.4	5.0	3.5			5.0	4.6				
16.75		4.1	4.3	2.0			5.0	4.7				
17.25		4.5	3.6	3.1			4.9	4.9				
17.75		4.4	5.4	2.8			4.9	4.9				
18.25		4.3	4.6	2.7			4.9	5.0				
18.75		4.4	5.0	2.4			5.0	4.9				
19.25		5.0	3.3	2.0			5.0	5.0				

MADUREZ SEXUAL PROMEDIO MENSUAL DE ANCHOVETA MACHOS

REGION CENTRO (10°-14° S)

AÑO :1974

L.M.	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SET	OCT	NOV	DIC
6.25												
6.75												
7.25												
7.75												
8.25												
8.75												
9.25												
9.75												
10.25			1.0									
10.75			1.0									
11.25			1.0		1.0							
11.75			1.1		1.0							
12.25			1.1	1.0								
12.75			2.4	1.0	2.0							
13.25			2.5	1.3	2.0					3.0		
13.75			3.5	2.0						4.2	2.6	
14.25			3.5	3.6	3.0					4.5	3.5	
14.75			3.3	2.0	2.5					4.6	3.9	
15.25			3.4	3.7	2.0					4.7	4.1	
15.75			4.1	4.2	2.0					4.8	4.3	
16.25			4.2	4.4	2.0					4.8	4.5	
16.75			4.4	3.6	2.0					4.9	4.8	
17.25			4.5	2.8	2.0					4.9	4.8	
17.75			4.3	4.7	2.0					4.9	4.9	
18.25			4.5	4.3	2.1					4.9	5.0	
18.75			4.0	3.0	2.0					4.9	4.7	
19.25										4.8	5.3	

L.M. = Longitud media en cm.

MADUREZ SEXUAL PROMEDIO MENSUAL DE ANCHOVETA HEMBRAS

REGION CENTRO (10°-14° S)

AÑO :1975

L.M.	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SET	OCT	NOV	DIC
6.25												
6.75												
7.25												
7.75												
8.25												
8.75												
9.25												
9.75		1.5		1.0								
10.25		1.5	1.4	1.0	1.0							
10.75	1.3	1.5	1.3	1.1	1.0							
11.25	1.3	1.8	1.3	1.1	1.1							
11.75	1.6	2.0	1.5	1.2	1.0							
12.25	1.5	2.1	2.2	1.3	1.3							
12.75	2.1	2.2	2.5	1.7	1.6							
13.25	2.4	2.5	2.5	2.0	1.9							
13.75	2.8	2.6	2.5	2.1	2.1							
14.25	3.5	3.1	2.7	2.4	2.4							
14.75	3.0	3.2	2.7	2.3	2.7							
15.25		3.6	2.9	2.6	3.1							
15.75	3.2	3.5	3.3	2.9	3.5							
16.25		4.0	3.8	3.2	4.2							
16.75		4.2	4.1	3.9	4.0							
17.25		4.4	4.5	4.2	4.4							
17.75	4.0	4.4	4.7	4.3	4.8							
18.25		4.6	4.8	4.7	4.8							
18.75		5.3	5.0	4.8	5.0							
19.25		4.0	5.0	5.0	5.2							

L.M. = Longitud media en cm.

MADUREZ SEXUAL PROMEDIO MENSUAL DE ANCHOVETA MACHOS

REGION CENTRO (10°-14° S)

AÑO :1975

L.M.	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SET	OCT	NOV	DIC
6.25												
6.75												
7.25												
7.75												
8.25												
8.75												
9.25					1.0	1.0						
9.75		1.0	1.0	1.0								
10.25	1.0	1.3	1.1	1.0	1.0							
10.75	1.1	1.3	1.2	1.0	1.0							
11.25	1.2	1.4	1.1	1.0	1.0							
11.75	1.8	1.6	1.2	1.1	1.1							
12.25	1.8	2.2	1.8	1.2	1.2							
12.75	2.3	2.1	2.1	1.5	1.4							
13.25	2.6	2.4	2.5	1.8	1.8							
13.75	3.2	2.8	2.8	2.0	2.0							
14.25	2.5	3.0	2.8	2.1	2.4							
14.75		3.5	3.0	2.4	2.6							
15.25	3.0	3.7	3.2	2.6	3.0							
15.75	4.0	3.6	3.7	2.8	2.9							
16.25	2.0	4.5	4.0	3.2	3.2							
16.75		4.1	4.2	4.0	3.3							
17.25		4.9	4.5	4.2	3.8							
17.75		4.8	4.6	4.3	4.1							
18.25		3.5	4.7	4.4	4.0							
18.75		6.0	4.9	4.8	4.5							
19.25			4.9	4.6	4.9							

MADUREZ SEXUAL PROMEDIO MENSUAL DE ANCHOVETA HEMBRAS

MADUREZ SEXUAL PROMEDIO MENSUAL DE ANCHOVETA MACHOS

REGION CENTRO (10°-14° S)

AGO :1976

REGION CENTRO (10°-14° S)

AGO :1976

L.M.	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SET	OCT	NOV	DIC
6.25												
6.75												
7.25												
7.75												
8.25												
8.75												
9.25	1.0		1.0	1.0							1.0	
9.75	1.0		1.1	1.0	1.0	1.0					1.5	
10.25	1.1		1.0	1.0	1.0	1.1	1.1				1.6	
10.75	1.3		1.1	1.1	1.1	1.3	1.2			4.1	1.3	
11.25	1.5		1.3	1.2	1.4	1.5	2.0			4.0	2.0	
11.75	1.7		1.5	1.5	1.6	1.8	2.4			4.2	2.7	1.9
12.25	2.5	2.0	2.2	2.3	2.0	2.0	2.4			4.6	3.0	2.1
12.75	3.0	3.5	2.5	2.7	2.2	2.1	2.5			4.7	3.3	2.5
13.25	3.4	2.0	2.8	2.7	2.3	2.3	2.8			4.8	3.5	2.9
13.75	3.7	3.5	3.0	2.7	2.5	2.6	3.3			4.9	3.8	3.2
14.25	4.3	5.4	3.2	3.0	2.7	2.9	3.8			5.0	3.8	3.5
14.75	4.1	4.3	3.3	3.0	2.7	3.1	3.8			4.9	4.1	3.7
15.25	4.1	5.3	3.0	2.9	2.6	3.3	3.9			5.0	4.2	4.0
15.75	5.0	5.8	3.5	2.7	3.1	3.5	4.3			4.9	4.5	4.1
16.25	5.2	5.9	4.1	3.0	3.2	3.8	4.5			4.7	4.5	4.2
16.75	5.1	5.7	4.6	3.5	3.4	4.0	4.6			4.8	4.4	4.4
17.25	5.1	5.3	5.0	3.6	3.7	4.3	4.6			5.3	4.4	4.4
17.75	5.2	5.6	5.1	4.2	4.2	4.1	4.6			4.9	4.3	4.5
18.25	5.3	5.4	4.7	4.3	4.2	4.4	3.8			4.4	4.4	4.5
18.75	5.4	5.3	5.1	4.2	4.0	4.5	3.6			4.7	4.4	4.5
19.25	5.4	6.0	5.3	3.9	3.7	4.7				5.0	4.0	4.5

L.M.	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SET	OCT	NOV	DIC	
6.25													
6.75													
7.25													
7.75													
8.25													
8.75													
9.25	1.2		1.0									1.0	
9.75	1.0		1.0	1.0	1.0	1.3						1.5	
10.25	1.1		1.0	1.0	1.0	1.1	1.0					2.0	
10.75	1.2		1.0	1.0	1.0	1.2	1.3				3.8	1.5	
11.25	1.4		1.2	1.1	1.2	1.3	1.7				3.7	3.0	1.5
11.75	1.8		1.4	1.3	1.4	1.6	2.1				4.1	2.9	2.4
12.25	2.7		2.1	2.3	1.9	1.7	2.3				4.6	3.1	2.2
12.75	3.3	2.6	2.5	2.6	2.1	2.1	2.7				4.9	3.4	2.6
13.25	3.8	3.1	2.8	2.9	2.3	2.4	3.6				5.0	3.7	3.0
13.75	4.2	2.2	3.0	2.9	2.6	2.5	3.6				5.0	4.0	3.6
14.25	4.4	5.0	3.4	3.3	2.7	2.8	4.1				5.0	4.1	4.0
14.75	4.2		3.5	3.5	2.7	3.2	4.4				5.0	4.3	4.3
15.25	5.1	5.0	3.4	2.9	2.7	3.5	4.7				4.8	4.4	4.4
15.75	4.9	5.1	4.1	2.7	2.8	3.7	4.5				4.7	4.4	4.5
16.25	5.0	5.3	4.3	3.4	3.6	3.7	5.6				4.6	4.3	4.5
16.75	5.2	5.1	4.5	4.1	3.8	3.9	5.2				5.3	4.5	4.4
17.25	5.1	5.4	4.9	4.2	4.2	4.1	5.2				4.9	4.6	4.5
17.75	5.3	5.3	5.0	4.9	4.6	4.1	5.2				4.5	4.4	4.4
18.25	5.2	5.7	4.9	5.1	4.7	4.1	4.9				4.3	4.2	4.3
18.75	5.4	6.0	5.3	4.8	4.7	4.1	6.0				4.0	4.3	
19.25	5.3		5.8	5.0	4.4	4.8							

L.M. = Longitud media en cm.

MADUREZ SEXUAL PROMEDIO MENSUAL DE ANCHOVETA HEMBRAS

REGION CENTRO (10°-14° S)

AGO :1977

L.M.	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SET	OCT	NOV	DIC
6.25												
6.75												
7.25												
7.75	1.0											
8.25	1.0											
8.75	1.0											
9.25	1.1		1.3	1.5								
9.75	1.2		1.4	2.0								
10.25	1.2		1.5	1.3								
10.75	1.3		1.4	1.4								
11.25	1.5		1.5	1.6								
11.75	1.9		1.8	1.8								
12.25	2.5		2.1	2.0								
12.75	3.2		2.6	2.1								
13.25	3.6		2.8	2.4								
13.75	3.9		3.3	2.6								
14.25	4.3		3.4	2.8								
14.75	4.2		3.6	3.3								
15.25	4.4		3.8	3.3								
15.75	4.5		4.2	4.0								
16.25	4.5		4.3	3.9								
16.75	4.3		4.3	4.1								
17.25	4.4		4.3	4.1								
17.75	4.3		4.9	4.0								
18.25	4.6		4.8									
18.75	4.8			4.0								
19.25												

L.M. = longitud media en cm.

MADUREZ SEXUAL PROMEDIO MENSUAL DE ANCHOVETA MACHOS

REGION CENTRO (10°-14° S)

AGO :1977

L.M.	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SET	OCT	NOV	DIC
6.25												
6.75												
7.25												
7.75	1.0						1.0					
8.25	1.0											
8.75	1.0											
9.25	1.2						1.0					
9.75	1.2						1.3	1.0				
10.25	1.3						1.3	1.5				
10.75	1.3						1.2	1.5				
11.25	1.7						1.1	1.5				
11.75	2.0						1.8	1.6				
12.25	3.1						2.1	2.1				
12.75	3.9						2.7	2.3				
13.25	4.2						3.1	2.3				
13.75	4.2						3.4	2.6				
14.25	4.3						3.7	2.9				
14.75	4.5						4.0	2.9				
15.25	4.7						4.2	3.6				
15.75	4.7						4.3	3.7				
16.25	4.6						4.4	4.0				
16.75	4.2						4.4	4.2				
17.25	4.3						4.6	4.0				
17.75	4.6						4.0	4.0				
18.25	4.0						5.0	4.0				
18.75							4.0					
19.25												

MADUREZ SEXUAL PROMEDIO MENSUAL DE ANCHOVETA HEMBRAS

REGION CENTRO (10°-14° S)

ARO :1978

L.M. ENE FEB MAR ABR MAY JUN JUL AGO SET OCT NOV DIC

6.25											
6.75											
7.25											
7.75											
8.25											
8.75											
9.25		1.2									
9.75		1.4	2.0								
10.25		1.8	2.0	1.0							
10.75		1.6	1.0	1.0	1.0		3.0				
11.25		1.4	1.1	1.2	1.3		3.3				
11.75		1.6	1.3	1.3	1.4		3.8	2.0			
12.25		1.8	1.6	1.5	1.7		4.2	2.5	2.6	2.7	
12.75		2.2	1.9	2.0	2.2		4.4	3.0	2.9	2.5	
13.25		2.7	2.3	2.4	3.2		4.2	3.8	2.8	2.8	
13.75		3.2	2.5	2.6	3.6		4.2	4.0	3.3	3.1	
14.25		3.4	3.1	3.4	4.1		4.3	4.3	3.6	3.2	
14.75		4.1	3.6	4.0	4.4		4.3	4.1	3.7	3.1	
15.25		4.6	4.1	4.1	4.3		4.0	4.1	4.1	3.4	
15.75		4.0	4.6	4.0	4.4		4.0	4.2	4.8	3.6	
16.25		5.3	3.2	5.6	4.7			4.0	5.3	3.7	
16.75		5.4	5.6	6.0	5.3			4.0	5.4	3.9	
17.25		4.9	5.4	5.0					5.0	4.6	
17.75		4.3	5.2							4.3	
18.25		3.0									
18.75											
19.25											

MADUREZ SEXUAL PROMEDIO MENSUAL DE ANCHOVETA MACHOS

REGION CENTRO (10°-14° S)

ARO :1978

L.M. ENE FEB MAR ABR MAY JUN JUL AGO SET OCT NOV DIC

6.25														
6.75														
7.25														
7.75														
8.25														
8.75														
9.25														
9.75							1.0							
10.25							1.1	1.7						
10.75							1.3	1.7	1.0					
11.25							1.2	1.1	1.0	1.0	1.0			
11.75							1.3	1.2	1.0	1.2	3.0			
12.25							1.5	1.3	1.3	1.5	3.3			
12.75							1.7	1.7	1.5	1.6	3.8	2.0	2.3	
13.25							2.3	1.8	2.0	2.4	3.8	3.5	2.5	2.3
13.75							2.7	2.4	2.3	3.3	4.0	3.8	3.0	2.3
14.25							3.1	2.4	2.6	3.5	4.0	4.0	2.9	2.5
14.75							3.3	3.2	3.1	4.2	4.2	4.0	3.7	2.4
15.25							4.2	3.7	3.6	4.4	4.0	4.3	4.7	2.8
15.75							3.9	3.6	4.0	4.1	4.0	4.1	4.5	3.2
16.25							5.2	4.1	4.3	5.0	4.5	4.2	5.1	3.3
16.75							5.3	5.2	6.0	3.0	4.0	4.0	4.5	3.8
17.25							5.0	3.1	6.0			4.0	4.3	4.6
17.75							4.6	6.0						4.0
18.25							4.9	6.0						4.0
18.75														
19.25														

L.M. = Longitud media en cm.

MADUREZ SEXUAL PROMEDIO MENSUAL DE ANCHOVETA HEMBRAS

REGION CENTRO (10°-14° S)

AÑO :1979

L.M.	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SET	OCT	NOV	DIC
6.25												
6.75												
7.25												
7.75												
8.25												
8.75				1.0								
9.25				1.0								
9.75			1.0	1.0								
10.25			1.0	1.0								
10.75			1.0	1.1								
11.25			1.4	1.2								
11.75			1.5	1.4								
12.25			1.8	1.7								
12.75			2.0	2.0								
13.25			2.2	2.1								
13.75			2.5	2.6								
14.25			2.8	2.7								
14.75			2.9	2.8								
15.25			2.9	3.1								
15.75			3.3	3.2								
16.25			3.3	3.3								
16.75			3.5	3.4								
17.25			3.7	3.7								
17.75			3.8	3.2								
18.25			3.4	3.7								
18.75			3.0	6.0								
19.25												

MADUREZ SEXUAL PROMEDIO MENSUAL DE ANCHOVETA MACHOS

REGION CENTRO (10°-14° S)

AÑO :1979

L.M.	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SET	OCT	NOV	DIC
6.25												
6.75												
7.25												
7.75												
8.25												
8.75												
9.25												
9.75												
10.25												
10.75												
11.25												
11.75												
12.25												
12.75												
13.25												
13.75												
14.25												
14.75												
15.25												
15.75												
16.25												
16.75												
17.25												
17.75												
18.25												
18.75												
19.25												

L.M. = Longitud media en cm.

MADUREZ SEXUAL PROMEDIO MENSUAL DE ARCHIVETA HEMBRAS

REGION CENTRO (100-140 S)

AÑO :1980

L.M. FEB FEB MAR ABR MAY JUN JUL AGO SET OCT NOV DIC

6.25											
6.75											
7.25											
7.75											
8.25											
8.75											
9.25											
9.75											
10.25				2.0							
10.75				1.9							
11.25				2.1							
11.75				2.2	2.0						
12.25				2.4	2.1						
12.75			2.0	2.6	2.6						
13.25			2.5	2.5	2.9						
13.75			2.2	2.7	3.0						
14.25			3.0	2.9	3.3						
14.75			3.2	3.0	3.3						
15.25			3.2	3.4	3.3						
15.75			3.8	3.9	3.7						
16.25			4.5	3.8	3.7						
16.75			4.0	4.1	4.1						
17.25				4.0	4.5						
17.75				4.2	3.0						
18.25				3.7	3.0						
18.75											
19.25											

MADUREZ SEXUAL PROMEDIO MENSUAL DE ARCHIVETA MACHOS

REGION CENTRO (100-140 S)

AÑO :1980

L.M. FEB FEB MAR ABR MAY JUN JUL AGO SET OCT NOV

6.25											
6.75											
7.25											
7.75											
8.25											
8.75											
9.25											
9.75											
10.25						2.0					
10.75						1.9					
11.25						2.0	2.0				
11.75						2.0	2.0				
12.25						2.0	2.0				
12.75						2.0	2.2	2.2			
13.25						2.0	2.2	2.4			
13.75						2.0	2.5	3.0			
14.25						2.0	2.0	3.3			
14.75						3.4	3.3	3.0			
15.25						3.0	3.0	3.2			
15.75						4.2	4.2	4.4			
16.25						4.2	4.2	4.0			
16.75							4.2	4.6			
17.25						3.0	3.9	3.0			
17.75							4.2				
18.25											
18.75											
19.25											

L.M. = Longitud media en cm.

MADUREZ SEXUAL PROMEDIO MENSUAL DE ANCHOVETA HEMBRAS

MADUREZ SEXUAL PROMEDIO MENSUAL DE ANCHOVETA MACHOS

REGION CENTRO (10°-14° S)

AÑO :1981

REGION CENTRO (10°-14° S)

AÑO :1981

L.M.	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SET	OCT	NOV	DIC
6.25												
6.75												
7.25												
7.75												
8.25												
8.75												
9.25												
9.75												
10.25											2.0	
10.75											2.0	
11.25			2.0								2.0	
11.75			2.0								3.0	
12.25			2.8								3.6	
12.75			3.0	2.0	3.6						4.4	
13.25			3.1	2.1	3.6							
13.75			3.1	2.6	4.2							
14.25			3.0	2.7	3.7							
14.75			3.9	3.1	3.9					5.0	4.0	
15.25			3.9	3.6	3.6					4.9	3.9	
15.75			4.5	3.9	4.6					4.8	4.3	
16.25			4.7	4.5	4.7					5.2	4.3	
16.75			4.3	4.7	4.7					5.0	4.4	
17.25			4.6	4.3	4.4					4.6	4.5	
17.75			4.4	4.6	5.0					4.9	4.6	
18.25			4.2	5.6	5.2					5.0	4.7	
18.75										5.0	4.5	
19.25											4.7	

L.M.	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SET	OCT	NOV	DIC
6.25												
6.75												
7.25												
7.75												
8.25												
8.75												
9.25												
9.75												
10.25												2.2
10.75									2.0			2.0
11.25									2.0			2.9
11.75									2.0			3.0
12.25									3.0			4.0
12.75									2.8	1.5	3.2	
13.25									3.0	2.0	3.3	
13.75									3.4	2.2	3.4	
14.25									3.4	2.3	3.6	
14.75									3.8	2.4	3.7	4.0 3.4
15.25									4.2	3.7	3.9	4.0 4.1
15.75									4.2	3.9	4.8	4.6 4.5
16.25									5.0	4.8	4.8	4.6 4.5
16.75									4.6	4.8	4.8	4.7 4.5
17.25									4.4	4.6	5.7	5.0 4.9
17.75									4.4	5.0	4.4	4.8 4.7
18.25									4.0	4.0	5.6	5.6 4.8
18.75										4.0		4.8
19.25												

L.M. = Longitud media en cm.

MADUREZ SEXUAL PROMEDIO MENSUAL DE ANCHOVETA HEMBRAS

MADUREZ SEXUAL PROMEDIO MENSUAL DE ANCHOVETA MACHOS

REGION CENTRO (10°-14° S)

AÑO :1982

REGION CENTRO (10°-14° S)

AÑO :1982

L.M. ENE FEB MAR ABR MAY JUN JUL AGO SET OCT NOV DIC

L.M. ENE FEB MAR ABR MAY JUN JUL AGO SET OCT NOV DIC

6.25												
6.75												
7.25												
7.75												
8.25												
8.75												
9.25												
9.75												
10.25												
10.75												
11.25												
11.75												
12.25												
12.75		3.0		1.0	2.7							
13.25		3.3		2.0	2.5							
13.75		3.3	3.0	2.5	2.9							
14.25		3.5	2.8	2.6	2.8	3.0						
14.75		3.4	2.9	2.8	3.1	4.0					5.0	
15.25	4.0	3.5	3.1	2.7	3.2	3.0					4.0	
15.75	3.3	3.9	3.4	2.8	2.9	3.5					4.9	
16.25	4.3	3.9	3.5	3.4	3.4	3.3					5.5	
16.75	4.4	4.2	3.5	3.7	3.5	3.8					5.0	
17.25	4.7	4.4	3.4	3.6	3.3	4.3					5.2	
17.75	4.7	4.4	3.7	3.6	3.6						5.2	
18.25	4.5	4.5	4.4	3.8	3.8						5.0	
18.75	4.6	4.4	3.7	3.7	4.4						5.1	
19.25	5.0	4.0	3.3	3.0	3.2						6.0	

6.25												
6.75												
7.25												
7.75												
8.25												
8.75												
9.25												
9.75												
10.25												
10.75												
11.25												
11.75												
12.25							1.0	3.0				
12.75			3.0				2.0					
13.25			3.0				2.0	2.2				
13.75			3.4				1.7	2.7	3.0			
14.25			4.0	3.4	2.6	2.0	2.7	3.0				
14.75			3.7	3.4	2.2	3.1	3.0					
15.25			3.4	3.7	2.9	2.9	3.1	3.8				4.6
15.75			4.2	4.2	3.4	3.0	3.2	3.4				6.0
16.25			4.7	4.0	4.2	3.0	3.2	3.8				5.2
16.75			4.7	4.5	4.4	3.8	4.2	3.8				4.6
17.25			4.7	4.6	4.3	3.8	4.3	4.0				5.6
17.75			4.7	4.6	4.0	3.9	3.6					5.4
18.25			4.7	4.8	4.4	4.3	4.3					4.9
18.75			4.9	5.0	4.8	4.2	3.6					5.4
19.25			5.0	3.0								6.0

L.M. = Longitud media en cm.

MADUREZ SEXUAL PROMEDIO MENSUAL DE ANCHOVETA HEMBRAS

REGION CENTRO (10°-14° S)

AÑO :1984

L.M.	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SET	OCT	NOV	DIC
6.25												
6.75												
7.25												
7.75												
8.25												
8.75												
9.25												
9.75					2.0	2.0						
10.25					2.0	2.0						
10.75					2.0	2.4						
11.25						3.0						
11.75						3.1						
12.25						3.1						
12.75					3.0	3.0						
13.25						3.1	4.0					
13.75					3.0	3.0	3.5					
14.25					3.0		3.0					
14.75					4.3		3.5					
15.25					4.0							
15.75					4.3							
16.25					5.0	3.3						
16.75												
17.25					4.0	3.0						
17.75												
18.25												
18.75												
19.25												

L.M. = Longitud media en cm.

MADUREZ SEXUAL PROMEDIO MENSUAL DE ANCHOVETA MACHOS

REGION CENTRO (10°-14° S)

AÑO :1984

L.M.	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SET	OCT	NOV	DIC
6.25												
6.75												
7.25												
7.75												
8.25												
8.75												
9.25												
9.75												
10.25						2.0	2.0					
10.75						2.0	2.0					
11.25						2.0	2.3					
11.75						3.0	3.0	2.0				
12.25							3.0					
12.75							3.0	3.0				
13.25							3.3	3.3				
13.75							3.3	3.0				
14.25							4.0	3.3				
14.75							3.3	3.0				
15.25							4.7	3.5				
15.75							4.0					
16.25							4.3	3.0				
16.75							4.0	3.0				
17.25												
17.75												
18.25												
18.75												
19.25												

MADUREZ SEXUAL PROMEDIO MENSUAL DE ANCHOVETA HEMBRAS

REGION CENTRO (100-140 S)

AÑO :1985

L.M.	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SET	OCT	NOV	DIC
6.25												
6.75												
7.25												
7.75												
8.25												
8.75												
9.25												
9.75												
10.25												
10.75	2.0											
11.25	2.0				3.0							
11.75	2.6	2.2			2.7	2.8						
12.25	2.9	3.1	3.0		3.2	3.1						
12.75	3.0	3.0	2.7		3.1	3.2						
13.25	3.2	3.3	3.3		3.2	3.2						
13.75	3.2	3.2	3.3		3.2	3.3	5.0					
14.25	4.0	3.8	3.3		3.2	3.6	4.2					
14.75	4.4	4.5	3.3		3.4	3.9	4.4					
15.25	4.6	4.6	3.5		3.4	4.2	4.3					
15.75	4.4	4.7	4.2		4.0	4.3	4.5					
16.25	4.5	4.6	4.0		4.2	4.6	4.6					
16.75	4.7	4.8	4.3		5.0	4.6	4.6					
17.25	4.9	5.2	4.8		4.2	4.4	4.5					
17.75	5.0	4.0	4.7		4.8	4.3	4.5					
18.25		6.0			4.0	5.0	4.5					
18.75												
19.25												

L.M. = Longitud media en cm.

MADUREZ SEXUAL PROMEDIO MENSUAL DE ANCHOVETA MACHOS

REGION CENTRO (100-140 S)

AÑO :1985

L.M.	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SET	OCT	NOV	DIC
6.25												
6.75												
7.25												
7.75												
8.25												
8.75												
9.25												
9.75	2.0											
10.25	2.0											
10.75	2.0											
11.25	2.0	2.0					2.8					
11.75	2.8	2.0				3.0	3.0					
12.25	2.8	2.9				2.9	3.4					
12.75	3.2	3.1	2.9			3.1	3.3					
13.25	3.5	3.3	3.0			3.2	3.4					
13.75	3.8	3.5	3.2			3.2	3.5	4.5				
14.25	4.0	4.0	3.4			3.2	3.8	4.5				
14.75	4.1	4.0	3.4			3.5	4.2	4.6				
15.25	4.2	4.3	3.7			3.5	4.4	4.7				
15.75	4.5	4.8	4.0			4.1	4.3	4.6				
16.25	4.7	5.3	4.8			4.2	4.6	4.6				
16.75	4.9	5.0	4.5			4.4	4.5	4.5				
17.25	4.5	5.0	4.5			4.1	4.5	4.5				
17.75			4.7			6.0	4.5	4.4				
18.25		5.0					5.3					
18.75								5.0				
19.25												

MADUREZ SEXUAL PROMEDIO MENSUAL DE ANCHOVETA HEMBRAS

REGION CENTRO (10°-14° S)

AÑO :1986

L.M.	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SET	OCT	NOV	DIC
6.25												
6.75												
7.25												
7.75												
8.25												
8.75												
9.25												
9.75												
10.25												
10.75												
11.25												
11.75												
12.25												
12.75												
13.25												
13.75							2.0					
14.25	3.0		2.0									
14.75	2.7	3.0	2.5	2.3	3.0	3.2						
15.25	3.0	3.0	3.0	2.9	3.0	3.2						
15.75	3.0	3.0	3.0	2.9	3.0	3.3						
16.25	3.2	3.0	3.0	2.9	3.0	3.8				4.0		
16.75	3.1	3.1	3.0	2.9	3.1	3.9				4.5		
17.25	3.4	3.2	3.0	3.1	3.4	3.9				4.0		
17.75	3.3	3.4	3.1	3.2	3.6	4.3				4.0		
18.25	3.2	3.4	3.4	3.4	3.8	5.0				4.8		
18.75			3.6	3.6	4.2					5.0		
19.25			3.0	4.0	4.0							

L.M. = Longitud media en cm.

MADUREZ SEXUAL PROMEDIO MENSUAL DE ANCHOVETA MACHOS

REGION CENTRO (10°-14° S)

AÑO :1986

L.M.	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SET	OCT	NOV	DIC
6.25												
6.75												
7.25												
7.75												
8.25												
8.75												
9.25												
9.75												
10.25												
10.75												
11.25												
11.75												
12.25												
12.75												
13.25												
13.75							3.0					
14.25	2.5		2.0	3.0		3.0						
14.75	2.8	3.0		3.0	3.3	3.8						
15.25	3.0	2.3	2.9	2.9	3.0	3.8						
15.75	3.1	2.7	3.0	2.6	3.2	3.8						
16.25	3.2	2.9	3.0	2.7	3.4	4.0					5.0	
16.75	3.2	3.0	3.1	3.0	3.4	4.1					5.3	
17.25	3.6	3.2	3.2	3.3	4.0	4.2					5.0	
17.75	4.6	3.6	3.4	3.4	4.1	4.4					4.7	
18.25		3.7	3.8	4.0	4.8	4.5					5.5	
18.75				4.0	4.0							
19.25												

MADUREZ SEXUAL PROMEDIO MENSUAL DE ANCHOVETA HEMBRAS

REGION CENTRO (10°-14° S)

AÑO :1987

L.M.	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SET	OCT	NOV	DIC
6.25												
6.75												
7.25												
7.75												
8.25												
8.75												
9.25												
9.75			1.0									
10.25			1.3									
10.75			1.2									
11.25			1.4		1.5	2.0	2.7					
11.75			2.3			2.0	3.0					
12.25	3.0	3.0	2.3		2.0	2.0	3.2					
12.75	3.0	3.1	3.2	2.2	2.5	2.1	3.3					
13.25	3.0	2.6	3.2	2.5	2.5	4.1	4.4			5.0		
13.75	3.8	2.8	3.6	2.2	3.4	3.5	4.8			4.0		
14.25	3.5	3.0	3.5	2.6	3.2	4.4	4.7			4.0		
14.75		3.6	3.6	2.9	4.0	4.5	4.7			4.0		
15.25		4.0	3.0	3.1	3.6	4.4	4.9			4.0	4.3	
15.75	3.3	3.9	3.1	3.1	4.7	4.6	4.9			4.6	4.5	
16.25	4.0	4.3	3.3	4.5	3.5	4.5	4.9			4.1	4.0	
16.75	4.7	4.5	3.5	3.1	3.9	4.4	5.0			4.0	4.0	
17.25	4.9	4.7	3.7	3.4	4.0	4.6	5.0			4.4	4.3	
17.75	4.7	4.9	3.6	3.8	4.2	4.9	5.0			4.3	4.2	
18.25	4.9	4.8	3.8	3.8	4.4	4.9	5.0			4.4	4.3	
18.75	5.0	5.1	4.3	3.9	4.4	4.8	5.0			4.6	4.2	
19.25	6.0	4.7	4.5	4.7	5.4	5.2	6.0			4.5		

L.M. = Longitud media en cm.

MADUREZ SEXUAL PROMEDIO MENSUAL DE ANCHOVETA MACHOS

REGION CENTRO (10°-14° S)

AÑO :1987

L.M.	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SET	OCT	NOV	DIC
6.25												
6.75												
7.25												
7.75												
8.25												
8.75												
9.25												
9.75												
10.25				1.0								
10.75				1.4								
11.25				1.4		1.0	2.0					
11.75				1.5		1.0	3.7					
12.25	3.2	2.6	2.4		1.4	2.2	3.7					
12.75	3.3	2.9	3.2	2.0	2.8	2.3	4.2					
13.25	3.0	2.9	3.5	2.5	2.6	2.4	4.3			5.0		
13.75		3.5	3.4	2.3	2.7	2.4	4.0			4.3		
14.25	3.5	3.7	3.8	2.9	3.7	3.9	4.7			4.1		
14.75		3.3	3.8	2.6	3.5	4.4	4.7			4.5		
15.25	6.0		3.0	3.3	3.7	4.2	5.0			5.2	4.1	
15.75	4.6	5.0	5.1	3.8	2.6	4.6	4.9			5.5	4.5	
16.25	4.5	4.8	3.8	4.1	3.6	4.6	4.7			5.0	4.6	
16.75	4.7	5.0	3.9	4.3	4.4	4.7	5.0			4.4	4.4	
17.25	4.9	5.0	4.0	3.6	4.2	4.8	5.0			4.5	4.4	
17.75	4.9	4.8	4.1	4.4	4.4	4.9	5.1			4.4	4.3	
18.25	4.4	5.2	4.1	4.5	4.4	5.0	5.2			4.7	4.3	
18.75		3.4	3.7	3.4	4.0	5.1	5.0			4.4	4.6	
19.25			2.8	3.4	5.7	5.0	5.0			5.0		

MADUREZ SEXUAL PROMEDIO MENSUAL DE ANCHOVETA HEMBRAS

MADUREZ SEXUAL PROMEDIO MENSUAL DE ANCHOVETA MACHOS

REGION SUR (14°-18°20' S)

ANO :1963

REGION SUR (14°-18°20' S)

ANO :1963

L.M.	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SET	OCT	NOV	DIC
6.25												
6.75												
7.25												
7.75												
8.25												
8.75												
9.25												1.0
9.75						1.0	1.0	1.0				1.0
10.25						1.0	1.7	1.0	1.0	1.0	1.0	
10.75				2.0		1.0	1.7	2.0	2.0	1.0	1.0	
11.25	3.5					1.0	2.0	2.0	1.4	1.0	1.0	
11.75			2.0			1.0	2.4	2.0	2.0	1.3	1.1	
12.25	1.0	2.0	2.0			1.0	2.2	2.3	2.0	1.7	1.1	
12.75		2.9	2.8			2.0	2.5	2.7	2.0	1.6	1.8	
13.25	1.5	4.0	3.7			2.5	3.0	3.9	2.3	2.7	3.5	
13.75	3.5	4.5	2.0			3.1	3.3	3.3	2.5	3.3	3.6	
14.25	2.7	3.6	2.3			3.0	3.5	4.2	3.4	2.8	4.0	
14.75	2.5	3.7	2.6			3.5	3.8	4.5	3.2	2.3	3.7	
15.25	3.8	4.4	3.0			3.8	4.0	4.7	3.4	2.9	3.7	
15.75	4.2	3.4	3.2			3.9	4.0	4.9	3.4	2.5	3.7	
16.25	3.1	3.6	3.0			4.3	4.2	4.9	3.7	3.1	2.5	
16.75	3.2	3.8	3.7			4.0	4.3	5.0	3.8	3.0	2.0	
17.25	3.7	4.1	3.2						4.2	2.0	6.0	
17.75		5.5	2.0						4.8			
18.25		6.0										
18.75												
19.25												

L.M.	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SET	OCT	NOV	DIC
6.25												
6.75												
7.25												
7.75												
8.25												
8.75												
9.25								1.0	1.0	1.0		1.0
9.75								1.7	1.0		1.0	1.0
10.25								1.0	1.2	1.0	1.0	1.0
10.75								1.0	2.0	1.2	1.0	1.0
11.25								1.0	1.7	1.9	2.0	1.0
11.75								1.0	1.7	2.2	2.0	1.0
12.25								2.0	6.0	2.0	1.0	1.0
12.75								4.0	3.3	2.0	1.0	1.0
13.25								1.5	4.3	2.3	2.6	2.6
13.75								1.8	3.7	2.6	3.1	3.5
14.25								4.7	3.2	2.6	3.4	3.7
14.75								2.4	3.8	2.4	3.6	3.8
15.25								2.8	3.7	2.9	3.8	4.1
15.75								3.3	3.3	2.9	3.9	4.1
16.25								4.4	3.4	3.0	4.1	4.0
16.75								3.7	4.3	2.0	5.0	4.2
17.25									4.0	6.0		5.0
17.75									2.0			
18.25												
18.75												
19.25												

L.M. = Longitud media en cm.

MADUREZ SEXUAL PROMEDIO MENSUAL DE ANCHOVETA HEMBRAS

REGION SUR (14°-18°20' S)

AÑO :1964

L.M.	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SET	OCT	NOV	DIC
6.25												
6.75												
7.25												
7.75												
8.25												1.0
8.75			1.0									1.0
9.25	1.0		1.0									1.0
9.75	1.0		1.0									1.0
10.25	1.0	1.0	1.0									1.0
10.75	1.0	1.0	1.0	1.0	1.0							1.0
11.25	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0				1.0
11.75	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0			1.0
12.25	1.3	1.1	1.0	1.0	1.0	1.3	1.0	1.0	1.7	1.0	1.0	
12.75	1.7	1.5	1.5	1.4	1.1	2.2	2.0	2.0	2.1	2.0	2.0	1.7
13.25	2.2	2.4	2.3	2.4	2.4	4.0	2.4	3.3	3.5	3.5	2.0	2.0
13.75	4.0	2.6	2.9	2.7	2.5	2.8	3.0	4.0	5.1	4.6	2.7	2.3
14.25	3.7	2.7	3.0	2.7	2.4	3.1	3.3	4.5	5.3	5.2	3.2	2.3
14.75	4.6	3.3	5.2	3.4	2.6	3.0	3.7	4.9	5.3	5.3	3.1	2.5
15.25	4.5	3.0	3.8	3.3	2.7	2.5	3.7	4.9	5.2	5.3	3.3	2.5
15.75	4.9	6.0	5.0	3.6	3.0	2.7	3.6	4.9	5.2	5.1	3.3	2.8
16.25		6.0	4.0	2.9	3.0	3.2		4.8	5.2	5.3	3.8	2.4
16.75						3.5		5.0	5.3		2.5	
17.25					2.0			6.0				
17.75												
18.25												
18.75												
19.25												

L.M. = Longitud media en ca.

MADUREZ SEXUAL PROMEDIO MENSUAL DE ANCHOVETA MACROS

REGION SUR (14°-18°20' S)

AÑO :1964

L.M.	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SET	OCT	NOV	DIC
6.25												
6.75												
7.25												
7.75												
8.25												
8.75												
9.25					1.0							1.0
9.75	1.0		1.0	1.0								1.0
10.25	1.0	1.0	1.0			1.0						1.0
10.75	1.0	1.0	1.0	1.0	1.0	1.0			1.0			1.0
11.25	1.0	1.0	1.0	1.0	1.0	1.0		1.0				1.0
11.75	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		1.0
12.25	1.3	1.0	1.0	1.0	1.0	1.4	1.4	1.7	1.3	2.0	2.0	1.3
12.75	1.8	1.4	1.1	1.1	1.1	1.7	1.9	2.0	2.0	2.0	1.8	2.3
13.25	2.1	2.3	2.5	2.5	2.6	3.1	2.6	3.4	3.2	3.1	2.0	2.4
13.75	3.3	2.4	3.0	3.4	3.2	2.9	3.3	4.9	4.6	4.7	2.6	2.6
14.25	4.8	3.0	3.5	3.0	3.1	3.4	3.5	4.7	5.1	5.5	2.9	2.6
14.75	4.4	4.3	3.7	3.1	2.8	3.2	3.4	4.9	5.1	5.4	3.1	2.8
15.25	5.4	5.0	2.5	5.3	2.3	2.9	3.7	4.8	5.2	5.4	3.3	3.0
15.75	5.8	5.0			2.3	3.2	3.5	4.7	5.2	5.4	3.2	3.4
16.25					3.0	3.1		5.0	5.4		4.0	3.0
16.75						3.2		5.0			3.0	
17.25												
17.75												
18.25												
18.75												
19.25												

MADUREZ SEXUAL PROMEDIO MENSUAL DE ANCHOVETA HEMBRAS

REGION SUR (14°-18°20' S)

AÑO :1965

L.M. ENE FEB MAR ABR MAY JUN JUL AGO SET OCT NOV DIC

6.25											
6.75											
7.25											
7.75										1.0	
8.25				1.0	1.0			1.0		1.0	
8.75					1.0	1.0		1.0		1.0	
9.25				1.0	1.0	1.0				1.0	
9.75		1.0		1.3	1.0	1.0		1.0	1.0	1.0	
10.25		1.0		1.3	1.0	1.1		1.0	1.0	1.0	
10.75	1.0	1.0	2.0	1.3	1.0	1.0		1.0	1.0	1.0	
11.25	1.0	1.0	1.0	1.0	1.0	1.0		1.1	1.0	1.0	1.1
11.75	1.2	1.2	1.5	1.4	1.0	1.5		1.4	1.1	1.0	1.2
12.25	1.5	1.4	1.5	1.3	1.4	1.8		1.7	1.6	2.0	1.6
12.75	2.0	1.9	1.9	1.9	1.7	2.4		2.1	2.0	2.0	2.2
13.25	3.4	2.6	2.4	2.1	2.0	3.3		4.3	4.8	3.3	3.5
13.75	4.6	3.6	2.1	2.1	2.6	3.6		4.8	5.6	5.7	2.7
14.25	5.0	4.2	2.3	2.2	2.8	4.0		4.9	5.7	5.2	4.3
14.75	4.6	4.7	2.5	2.2	2.8	4.1		5.2	5.8	5.5	4.9
15.25	5.0	5.6	3.3	2.4	2.4	4.5		5.0	5.6	6.0	3.9
15.75	5.0	4.5	2.6	2.3		4.0		5.1	5.4	6.0	
16.25	5.0		2.0					5.0	6.0	5.0	5.0
16.75		6.0							5.5		
17.25											
17.75											
18.25											
18.75											
19.25											

L.M. = Longitud media en cm.

MADUREZ SEXUAL PROMEDIO MENSUAL DE ANCHOVETA MACHOS

REGION SUR (14°-18°20' S)

AÑO :1965

L.M. ENE FEB MAR ABR MAY JUN JUL AGO SET OCT NOV DIC

6.25											
6.75											
7.25											
7.75											1.0
8.25											1.0
8.75										1.0	1.0
9.25		1.0								1.0	1.0
9.75			1.0							1.0	1.0
10.25		1.0	1.0							1.0	1.0
10.75	1.0	1.0								1.0	1.0
11.25	1.1	1.1	1.0							1.0	1.0
11.75	1.2	1.0	1.0							1.0	1.0
12.25	1.6	1.4	1.3							1.0	1.0
12.75	2.0	1.7	1.8							2.0	2.0
13.25	3.6	3.1	2.4							4.6	4.6
13.75	5.4	4.4	2.9							4.8	5.1
14.25	4.0	5.5	2.8							5.4	5.7
14.75	5.2	4.3	2.6							5.3	5.5
15.25	5.0	5.4	2.9							5.0	5.7
15.75	4.4	5.6	2.0							5.3	5.8
16.25	5.0									5.0	6.0
16.75											
17.25											
17.75											
18.25											
18.75											
19.25											

MADUREZ SEXUAL PROMEDIO MENSUAL DE ANCHOVETA HEMBRAS

MADUREZ SEXUAL PROMEDIO MENSUAL DE ANCHOVETA MACHOS

REGION SUR (14°-18°20' S)

AÑO :1966

REGION SUR (14°-18°20' S)

AÑO :1966

L.M.	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SET	OCT	NOV	DIC
6.25												
6.75												1.0
7.25												
7.75												
8.25			3.0									1.0
8.75	1.0		1.0									1.0
9.25	1.0		1.7									1.0
9.75	1.0		1.8									1.0
10.25	1.0	1.1	2.5									1.1
10.75	1.0	1.5	2.7									1.3
11.25	1.1	1.5	3.3	2.4				1.0				1.0
11.75	1.3	1.9	3.3	3.7	3.3			5.0				1.4
12.25	1.8	2.4	4.1	2.7	3.1			4.8	5.0			2.0
12.75	2.6	2.9	4.2	3.3	3.3			4.6	2.9			2.5
13.25	3.4	3.5	4.5	3.4	3.1			4.7	3.4			2.0
13.75	4.0	4.1	4.7	3.5	3.1			4.9	3.8			2.9
14.25	5.2	3.9	4.6	4.0	3.7			4.7	3.6			2.9
14.75	4.5	5.0	4.5	4.4	3.4			5.1	3.8			2.9
15.25		4.7		4.1	3.6			5.1	3.9			2.9
15.75	5.0	5.0		4.5	2.0			4.8	4.3			3.0
16.25	6.0			5.0								3.0
16.75				3.7								
17.25				5.5								
17.75												
18.25												
18.75												
19.25												

L.M.	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SET	OCT	NOV	DIC
6.25												
6.75												
7.25												
7.75												
8.25												
8.75	1.0		1.5									
9.25	1.0		1.0									1.0
9.75	1.0	1.0	1.4	2.0								
10.25	1.1	1.1	2.0									1.0
10.75	1.1	1.1	1.8									
11.25	1.1	1.1	2.2	2.0								2.0
11.75	1.4	1.4	2.7	1.7						2.0	2.3	1.6
12.25	1.9	2.0	3.0	2.0	6.0					3.2	2.4	2.0
12.75	2.7	2.7	4.1	2.0	2.5					4.1	4.2	2.5
13.25	3.7	3.3	4.3	3.1	3.7					4.3	4.5	2.3
13.75	4.1	3.2	5.0	3.3	3.4					5.1	3.9	2.6
14.25	5.0	4.5	4.8	3.8	3.7					5.0	4.7	3.3
14.75	5.0	6.0		5.3	2.4					5.0	4.5	2.8
15.25	5.0			5.0	2.0					6.0	5.2	2.9
15.75				5.6						5.3		3.0
16.25				6.0	6.0							4.5
16.75												
17.25												
17.75												
18.25												
18.75												
19.25												

L.M. = Longitud media en cm.

MADUREZ SEXUAL PROMEDIO MENSUAL DE ANCHOVETA HEMBRAS

MADUREZ SEXUAL PROMEDIO MENSUAL DE ANCHOVETA MACHOS

REGION SUR (14°-18°20' S)

AÑO :1967

REGION SUR (14°-18°20' S)

AÑO :1967

L.M. ENE FEB MAR ABR MAY JUN JUL AGO SET OCT NOV DIC

L.M. ENE FEB MAR ABR MAY JUN JUL AGO SET OCT NOV DIC

6.25											
6.75											
7.25	6.0										
7.75			6.0		6.0						
8.25											
8.75		6.0			6.0						
9.25	1.0		6.0	6.0							
9.75	1.5		6.0	6.0		2.0		6.0			
10.25	1.0			1.0				6.0			
10.75	1.4		1.0	1.0		1.0	6.0	6.0	6.0		
11.25	1.3	1.0				6.0	6.0	4.0	2.5		
11.75	1.5	1.2	1.0	1.0			1.5	2.8	2.3		
12.25	1.5	1.3	1.0	1.0	1.0	1.0	1.0	2.3	2.3		
12.75	2.2	1.6	1.0	1.0	1.0	1.0		1.5	3.4	3.0	
13.25	2.6	1.9	1.0	1.0	1.0	1.0		2.2	3.5	2.2	
13.75	2.3	2.0	1.1	1.0	1.0	1.0		2.1	4.1	2.3	
14.25	2.8		1.7	1.0	1.0	1.0		2.3	4.3	3.4	
14.75	2.8	2.0		1.0	1.0	1.0		2.4	4.4	4.0	
15.25	3.4	2.0	6.0	1.0	1.0	1.0		2.2	4.1	6.0	
15.75	2.0				1.0	1.0		3.0	4.5	6.0	
16.25			6.0			1.0		2.7	1.9	6.0	
16.75	6.0					6.0		6.0	6.0		
17.25											
17.75											
18.25											
18.75											
19.25											

6.25											
6.75											
7.25											
7.75	1.0										
8.25	1.0				1.0						
8.75	1.0		1.0			1.0					
9.25	1.1		1.0		1.1	1.0					
9.75	1.0	1.0			1.0	1.2					
10.25	1.2	1.0			1.5	1.3					
10.75	1.2	1.0	1.0	1.5	1.5	1.6					
11.25	1.3	1.1	1.5	1.9	1.8	1.5				5.0	6.0
11.75	2.0	1.4	1.7	2.0	1.9	2.0				5.0	2.0
12.25	2.3	2.0	1.8	2.0	2.0	2.0				5.1	3.3
12.75	2.6	2.6	2.0	2.1	2.0	2.0				3.0	3.9
13.25	3.0	3.0	2.0	2.1	2.0	2.0				2.8	4.7
13.75	3.0	3.0	2.1	2.1	2.1	1.9				3.1	4.6
14.25	3.6	4.0	2.0	2.1	2.0	2.1				3.0	4.9
14.75	3.5	4.4	2.4	2.1	2.0	2.0				3.1	4.9
15.25	3.6	4.0		2.1	2.3	2.1				3.2	4.7
15.75	4.3			2.5	2.0	2.3				3.3	4.1
16.25				2.0	2.0	2.7				4.0	5.3
16.75											
17.25						1.0					
17.75											
18.25											
18.75											
19.25											

L.M. = Longitud media en cm.

MADUREZ SEXUAL PROMEDIO MENSUAL DE ANCHOVETA HEMBRAS

REGION SUR (14°-18°20' S)

AÑO :1968

MADUREZ SEXUAL PROMEDIO MENSUAL DE ANCHOVETA MACHOS

REGION SUR (14°-18°20' S)

AÑO :1968

L.M.	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SET	OCT	NOV	DIC
6.25												
6.75												
7.25												
7.75												
8.25												
8.75												
9.25	1.5	1.0										
9.75	1.0	1.2		1.0								
10.25	1.3	1.5									1.0	
10.75	1.5	1.8		1.0	1.0				3.0			6.0
11.25	1.9	1.8	2.0	1.8	1.5			6.0	2.0			4.7
11.75	1.8	1.9	2.0	1.9	1.9		2.5	2.3	2.5	4.5		5.2
12.25	2.0	2.0	2.0	1.9	2.0		3.0	4.4	2.8	2.3		5.2
12.75	2.1	2.1	2.0	2.0	2.0		3.0	5.0	3.4	4.7		6.0
13.25	2.5	2.0	2.2	2.0	2.0		2.9	5.1	3.9	4.7		6.0
13.75	3.5	2.1	2.3	2.1	2.0		3.1	5.2	4.1	4.7		5.5
14.25	3.1	2.0	2.2	2.0	2.0		3.2	5.3	4.5	4.3		5.2
14.75	3.0	3.0	2.3	2.1	2.1		3.3	5.3	4.5	4.6		5.2
15.25	3.0	3.0		2.1	2.2		3.7	5.4	4.0	4.2		5.1
15.75	3.9			2.0	2.3		4.2	5.0	4.7	4.0		5.0
16.25				3.0	2.8		3.9	5.0				
16.75							4.5			5.0		
17.25												
17.75												
18.25												
18.75												
19.25												

L.M.	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SET	OCT	NOV	DIC
6.25												
6.75												
7.25												
7.75												
8.25												
8.75												
9.25		1.0										
9.75		1.0										1.0
10.25		1.0		1.0								
10.75	3.5	1.4		1.0	1.0							1.0
11.25		1.6	2.0	1.0	1.7			2.0	2.3			6.0
11.75	2.4	1.8		1.4	1.5			3.0	3.2			6.0
12.25	2.3	2.1	2.0	1.9	1.9			3.7	4.3	3.0	4.2	6.0
12.75	2.8	1.9	2.0	2.0	2.0			3.4	5.1	4.4	5.0	5.0
13.25	3.8	2.4	2.4	2.0	2.0			3.4	5.2	4.5	4.6	5.0
13.75	3.9	2.6	2.0	2.0	2.1			3.2	5.4	4.9	5.6	5.4
14.25	4.3		2.7	2.0	2.1			3.5	5.4	5.2	4.8	5.0
14.75	4.0	4.0		2.0	2.5			3.7	5.4	5.6	5.4	5.0
15.25	3.2	3.0		2.0	2.7			4.2	5.7	5.9	5.0	
15.75	3.5			2.0	4.0			4.7		5.0	5.0	
16.25	6.0				2.7			3.0				
16.75								6.0				
17.25												
17.75												
18.25												
18.75												
19.25												

L.M. = Longitud media en cm.

MADUREZ SEXUAL PROMEDIO MENSUAL DE ANCHOVETA HEMBRAS

MADUREZ SEXUAL PROMEDIO MENSUAL DE ANCHOVETA MACHOS

REGION SUR (14°-18°20' S)

AÑO :1969

REGION SUR (14°-18°20' S)

AÑO :1969

L.M.	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SET	OCT	NOV	DIC
6.25												
6.75												
7.25												
7.75												
8.25										1.0	1.0	
8.75											1.0	
9.25										3.0	1.0	
9.75								3.0	2.3	1.0	1.0	
10.25	1.0				1.0			3.0	2.9	2.0	1.0	
10.75	1.0		1.0					4.3	3.3	2.0	2.6	
11.25	2.4	5.0	2.0	1.0	1.0		2.3	4.3	4.0	3.5	3.3	
11.75	3.4	2.2	1.5	1.4	1.3	1.0	2.2	4.8	4.9	5.1	4.3	
12.25	4.2	2.4	2.0	1.8	1.8	1.9	2.4	4.9	5.1	5.7	5.3	
12.75	4.4	3.5	3.0	2.0	1.9	2.0	2.4	4.8	5.2	5.7	5.6	
13.25	4.4	4.1	2.7	2.0	2.0	2.1	2.3	4.9	5.2	5.9	5.1	
13.75	3.8	3.9	2.5	2.0	2.0	2.0	2.4	5.0	5.0	5.5	5.8	
14.25	4.5	4.2	2.4	2.0	2.0	2.0	2.5	5.0	4.8	5.3	5.0	
14.75	4.2	3.7	3.3	2.0	2.0	2.0	2.5	5.0	5.2	6.0	5.0	
15.25		3.3	2.0	2.0	2.0	2.0	2.0		4.0	6.0		
15.75		5.0	4.1			2.0						
16.25												
16.75												
17.25												
17.75												
18.25												
18.75												
19.25												

L.M.	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SET	OCT	NOV	DIC
6.25												
6.75												
7.25												
7.75												
8.25												
8.75												
9.25												1.0
9.75											1.0	1.0
10.25	2.0										1.0	1.0
10.75	1.3			1.0	2.0					2.7	1.5	1.0
11.25	3.1		1.0		1.2		1.0			4.3	3.2	2.0
11.75	2.6	1.3	1.5	1.3	1.2	1.8	1.8			4.4	3.9	3.8
12.25	3.2	1.9	1.9	1.8	2.0	1.6	2.2			4.5	4.4	5.0
12.75	3.4	2.4	2.0	2.0	2.0	2.0	2.0			4.8	5.1	4.4
13.25	3.8	3.1	2.0	2.0	2.0	2.0	2.1			4.9	5.2	5.9
13.75	4.2	2.9	2.0	2.0	2.0	2.0	2.2			4.9	5.0	5.4
14.25	4.6	4.0	2.0	2.0	2.0	2.0	2.2			5.0	5.0	5.4
14.75	3.5	3.7	2.0	2.0	2.2	2.0	2.3			4.6	5.1	5.3
15.25	5.5	4.9	2.5	2.0	2.1	2.2	2.5			4.5	4.9	5.1
15.75	5.0	4.5	2.0	2.0	2.0	2.0				5.0	5.1	4.0
16.25	2.0	5.0		2.0						5.0		
16.75												
17.25												
17.75												
18.25												
18.75												
19.25												

L.M. = Longitud media en cm.

MADUREZ SEXUAL PROMEDIO MENSUAL DE ANCHOVETA MEMBRAS

MADUREZ SEXUAL PROMEDIO MENSUAL DE ANCHOVETA HACHOS

REGION SUR (14°-18°20' S)

AÑO :1970

REGION SUR (14°-18°20' S)

AÑO :1970

L.M.	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SET	OCT	NOV	DIC
6.25												
6.75												
7.25												
7.75												
8.25												
8.75					1.0					1.0		
9.25						1.0				1.0		
9.75				1.0	1.0	1.0	1.0					
10.25	2.7			1.0	1.0	1.0	1.7	2.4	1.0	1.0	1.0	
10.75	2.3	1.0	1.0	1.3	1.0	1.0	2.0	2.3	1.0	1.6	1.0	
11.25	1.5	1.7	1.9	1.8	1.4	1.7	2.0	2.5	1.8	1.8	1.0	
11.75	2.1	1.8	1.4	1.7	2.0	2.0	2.0	2.2	3.8	2.5	2.0	
12.25	2.5	2.0	2.3	2.0	2.0	2.0	2.3	4.5	4.1	2.0	2.8	
12.75	2.6	2.2	2.2	2.0	2.0	2.0	2.0	4.2	3.6	6.0	4.7	
13.25	4.4	3.0	3.1	2.0	2.0	2.1	2.5	5.8	4.8	5.4	6.0	
13.75	5.2	3.4	2.7	2.0	2.0	2.1	3.0	5.2	5.0	4.7	6.0	
14.25	5.2	4.8	3.2	2.0	2.0	2.5	2.0	5.0	4.8	5.4	6.0	
14.75	5.5	4.3	3.4	3.0	2.0	2.2	2.7	5.1	5.5	5.2	4.8	
15.25	5.2	5.6	4.6	2.6	2.0	2.5	2.3	4.8	5.7	4.9	5.3	
15.75	5.5	5.1	5.3	5.1	2.0	2.1	2.5	5.3	5.2	5.0	5.9	
16.25	5.4	3.0	6.0	4.7		2.4	2.0	5.1	5.2	5.1	5.9	
16.75	5.8					2.5		5.0	5.1	4.8	6.0	
17.25								5.1	5.0	5.0	5.8	
17.75								5.0	5.1	6.0		
18.25									5.2			
18.75												
19.25												

L.M.	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SET	OCT	NOV	DIC	
6.25													
6.75													
7.25													
7.75													
8.25													
8.75													
9.25						1.0	1.0	1.0			1.0		
9.75						1.0	1.0	1.0	1.0				
10.25	1.0					1.4	1.0	1.0	1.0	2.6	1.0	2.2	1.0
10.75	1.3	1.0	1.0	1.5	1.0	1.0	2.0	2.0	1.0	1.0	1.0	1.0	
11.25	3.9	1.4	1.7	1.7	1.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	
11.75	2.8	1.9	1.7	1.7	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	
12.25	2.5	2.3	2.6	1.9	2.0	2.0	3.0	3.9	3.8	3.9	2.0	2.0	
12.75	4.3	3.0	2.8	2.0	2.0	2.1	3.0	4.9	4.1	4.5	5.3	2.0	
13.25	5.1	3.6	3.4	2.0	2.0	2.1	2.0	4.9	4.6	4.5	6.0	2.0	
13.75	5.4	4.1	3.0	2.4	2.0	2.3	3.0	5.1	4.4	4.9	5.8	2.0	
14.25	5.4	4.4	3.2	3.6	2.0	2.3	2.4	5.0	4.8	4.5	5.1	2.0	
14.75	5.3	5.4	4.1	4.0	2.0	2.2	2.0	5.8	5.4	4.9	4.8	2.0	
15.25	5.1	5.7	4.9	3.3	2.0	2.0	3.0	5.1	5.3	5.0	4.7	2.0	
15.75	5.5	5.6		4.1	2.0	2.2	2.0	5.3	5.2	4.9	4.5	2.0	
16.25			5.0					5.0	5.5	4.8	6.0	2.5	
16.75									5.2	5.0	5.5		
17.25									5.0	5.1	5.0	6.0	
17.75									6.0	5.5	5.5		
18.25													
18.75													
19.25													

L.M. = Longitud media en cm.

MADUREZ SEXUAL PROMEDIO MENSUAL DE ANCHOVETA HEMBRAS

MADUREZ SEXUAL PROMEDIO MENSUAL DE ANCHOVETA MACHOS

REGION SUR (14°-18°20' S)

AÑO :1971

REGION SUR (14°-18°20' S)

AÑO :1971

L.M.	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SET	OCT	NOV	DIC
6.25												
6.75												
7.25												
7.75												1.0
8.25										1.0		
8.75										1.0	1.0	
9.25					1.0						1.0	
9.75		1.0	1.0	1.0						1.0	1.7	
10.25		1.0	1.0	1.0						1.8	2.0	
10.75		1.2	1.6	1.8						2.0	2.3	
11.25		1.8	2.0	2.0						2.0	2.6	
11.75		1.8	2.4	2.3						2.5	2.5	
12.25		2.5	2.6	3.0						3.0	3.0	
12.75		2.8	3.0	3.0					3.0	5.3	3.0	3.0
13.25		3.0	3.0	3.0					3.0	3.8	5.0	3.3
13.75		3.0	3.0	3.0					3.5	3.8	4.3	3.0
14.25		3.0	3.0	3.0					3.8	3.0	4.3	3.0
14.75		3.5	3.0	5.3					4.8	3.3	4.3	3.6
15.25		3.6	3.0	3.0					6.0	3.3	3.5	3.1
15.75		4.1	3.0	4.5					5.6	3.0	3.0	3.7
16.25		4.7	3.4	4.5					4.3	3.7	3.9	4.5
16.75		4.3	3.4	4.0					5.3	4.1	4.2	4.6
17.25		4.7	3.3	4.8					4.2	4.2	5.4	4.5
17.75		5.0		6.0					5.4	5.0	5.6	5.0
18.25										6.0		
18.75												
19.25												

L.M.	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SET	OCT	NOV	DIC
6.25												
6.75												
7.25												
7.75												
8.25												
8.75												
9.25												1.0
9.75												1.0
10.25							1.0					1.0 2.0
10.75							1.0	1.0	2.0			1.5 2.0
11.25								2.0	2.0			2.0 2.0
11.75							1.0	2.0	2.5		2.0	2.3
12.25							2.5	2.3	3.0			2.5 2.4
12.75							2.8	3.0	3.0			3.0 2.7
13.25							3.0	3.0			5.5	3.0 4.0
13.75							3.0	3.0		3.0	5.1	5.0 3.6
14.25							4.2	3.0	3.0	4.6	4.5	5.0 3.4
14.75							5.0	3.0	3.0	5.4	4.5	5.1 5.1
15.25							3.9	4.0		4.7	3.5	4.3 4.1
15.75							4.4	3.0	3.0	4.1	4.0	4.0 3.7
16.25							4.9	4.0	3.0	5.5	4.0	5.0 4.3
16.75							5.2	4.5	3.0	4.5	5.1	6.0 3.3
17.25								3.0		4.6	5.2	6.0 4.7
17.75										4.4	5.3	6.0 6.0
18.25												5.0
18.75												
19.25												

L.M. = Longitud media en cm.

MADUREZ SEXUAL PROMEDIO MENSUAL DE ANCHOVETA HEMBRAS

REGION SUR (14°-18°20' S)

AÑO :1972

L.M.	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SET	OCT	NOV	DIC
6.25												
6.75												
7.25												
7.75												
8.25												
8.75											1.0	
9.25												
9.75	1.0									1.0		
10.25	1.0	1.0								1.0	2.0	
10.75	1.2	1.6								1.0	1.7	
11.25	1.7	2.0								2.4	2.0	
11.75	2.0	2.3								2.7	2.2	
12.25	2.0	2.4								3.1	2.3	
12.75	2.2	2.8								3.6	2.9	
13.25	2.9	3.0								3.3	3.2	
13.75	3.0	3.2								3.5	3.5	
14.25	3.0	3.2								4.3	3.9	
14.75	3.0	3.0								3.8	4.0	
15.25	3.1	3.4								3.6	3.9	
15.75	3.4	3.3								3.8	3.9	
16.25	3.6	3.2								3.5	3.9	
16.75	3.9	3.1								3.6	4.2	
17.25	4.1	3.7								3.7	4.6	
17.75	4.0	4.2								3.9	4.5	
18.25	6.0	6.0								4.1	4.4	
18.75										5.0	2.8	
19.25												

L.M. = Longitud media en cm.

MADUREZ SEXUAL PROMEDIO MENSUAL DE ANCHOVETA MACHOS

REGION SUR (14°-18°20' S)

AÑO :1972

L.M.	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SET	OCT	NOV	DIC
6.25												
6.75												
7.25												
7.75												
8.25												
8.75												
9.25												
9.75												1.0
10.25												
10.75											1.0	
11.25											1.3	
11.75											2.5	2.0
12.25											3.2	2.3
12.75											3.0	3.0
13.25											3.2	4.1
13.75											3.8	4.7
14.25											3.5	4.9
14.75											4.6	4.9
15.25											4.3	4.8
15.75											3.8	4.9
16.25											3.6	4.8
16.75											3.9	4.9
17.25											4.0	5.0
17.75											3.9	4.8
18.25											4.0	4.8
18.75											6.0	5.8
19.25												

MADUREZ SEXUAL PROMEDIO MENSUAL DE ANCHOVETA HEMBRAS

MADUREZ SEXUAL PROMEDIO MENSUAL DE ANCHOVETA MACHOS

REGION SUR (14°-18°20' S)

AÑO :1973

REGION SUR (14°-18°20' S)

AÑO :1973

L.M.	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SET	OCT	NOV	DIC
6.25												
6.75												
7.25												
7.75												
8.25												
8.75												
9.25												
9.75												
10.25												
10.75												
11.25		2.0		1.9			2.0			2.5	2.0	
11.75		2.1		2.4	2.2	2.8				2.4	2.0	
12.25		2.3		2.6	2.6	3.3				2.3	2.2	
12.75		2.3	2.2	2.8	3.3	4.1				3.0	2.6	
13.25		2.3	2.1	2.7	3.7	4.6				3.5	3.1	
13.75		2.3	2.3	3.5	4.7	4.5				4.1	3.1	
14.25		2.8	2.1	3.7	4.9	5.1				4.4	3.8	
14.75		2.8	2.7	4.5	5.2	3.7				4.4	3.7	
15.25		2.5	2.4	4.9	4.7					4.6	4.1	
15.75		2.3	2.4	4.0	4.8					4.6	4.1	
16.25		2.7	2.5	3.4	4.8					5.0	4.4	
16.75		3.1	2.5	5.1	4.6					4.7	4.7	
17.25		2.5	4.2	5.0	5.3					4.9	4.9	
17.75		3.2	2.7	4.0	5.0					5.5	5.1	
18.25				6.0								
18.75												
19.25												

L.M.	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SET	OCT	NOV	DIC
6.25												
6.75												
7.25												
7.75												
8.25												
8.75												
9.25												
9.75												
10.25												
10.75												
11.25			2.0		2.0		2.0				4.3	3.3
11.75			2.0		2.0	2.0	6.0				3.4	3.0
12.25			2.5		3.8	5.4	4.0				4.1	3.7
12.75			2.5	2.0	2.2	5.2	5.4				4.1	4.3
13.25			2.4		2.9	5.2	5.5				4.7	3.5
13.75			3.0	2.0	4.3	5.3	5.0				5.4	3.8
14.25			3.2		4.7	5.7	5.7				5.0	4.0
14.75			3.1		4.3	5.7	5.0				5.2	4.0
15.25			2.0	2.0	6.0	5.1					5.1	5.1
15.75			4.5	2.0	5.5	5.5					5.4	4.8
16.25			4.1	2.9	6.0	5.7					5.5	4.8
16.75			4.8	4.0	5.2	5.3					5.7	4.4
17.25			3.5	6.0	5.0	5.7					5.0	5.6
17.75			4.4	2.5		5.6					6.0	5.3
18.25											5.0	
18.75												
19.25												

L.M. = Longitud media en cm.

MADUREZ SEXUAL PROMEDIO MENSUAL DE ANCHOVETA HEMBRAS

REGION SUR (14°-18°20' S)

AÑO :1974

=====

L.M. ENH FEB MAR ABR MAY JUN JUL AGO SET OCT NOV DIC

=====

6.25											
6.75											
7.25											
7.75											
8.25											
8.75											
9.25											
9.75											
10.25											
10.75									2.0		
11.25									2.0		
11.75	2.0	2.0	1.7	2.0					4.0		
12.25	2.0	2.1	1.7	2.1					4.7		
12.75	2.0	2.1	1.9	2.0					3.0		
13.25	2.0	2.3	2.0	2.0					4.0	4.7	
13.75	2.2	2.4	2.2	2.0					4.2	5.3	
14.25	2.7	2.0	2.2	2.1					4.0	4.1	
14.75	3.0	3.4	2.1	2.3					4.0	4.2	
15.25	3.0	4.0	2.7	2.4					3.4	4.6	
15.75	3.1	4.0	3.5	2.4					4.2	4.7	
16.25	3.5	4.1	3.7	2.4					4.5	5.0	
16.75	3.7	4.4	4.5	2.7					4.7	5.1	
17.25	3.0	5.0	4.3	2.9					4.9	4.9	
17.75	3.7		3.0	2.9					4.9	5.4	
18.25	6.0		3.0	2.0					5.1	5.0	
18.75									5.0	5.0	
19.25									5.0		

MADUREZ SEXUAL PROMEDIO MENSUAL DE ANCHOVETA MACHOS

REGION SUR (14°-18°20' S)

AÑO :1974

=====

L.M. ENH FEB MAR ABR MAY JUN JUL AGO SET OCT NOV DIC

=====

6.25											
6.75											
7.25											
7.75											
8.25											
8.75											
9.25											
9.75											
10.25											
10.75										1.0	
11.25										1.0	
11.75	2.0	2.6	1.6								2.0
12.25	2.0	2.4	1.0	2.0							3.6
12.75	2.1	3.2	2.1	2.0							3.3
13.25	2.4	3.3	1.8	2.0							4.0 6.0
13.75	2.6	2.8	2.0	2.0							3.8 5.3
14.25	2.9	4.1	2.7	2.0							3.9 5.0
14.75	2.9	4.4	4.0	2.0							3.7 5.0
15.25	3.1	4.4	3.5	2.3							4.5 4.9
15.75	3.4	4.7	4.0	2.5							4.6 5.0
16.25	3.3	4.8	5.4	2.0							5.0 5.1
16.75	3.5	4.7	5.0	2.0							5.0 5.0
17.25	4.5	2.0	4.4	3.7							4.7 5.1
17.75	3.5		6.0	4.0							4.1 5.5
18.25											5.5
18.75											6.0
19.25											

=====

L.M. = Longitud media en cm.

MADUREZ SEXUAL PROMEDIO MENSUAL DE ANCHOVETA HEMBRAS

REGION SUR (14'-18'20' S)

AÑO :1975

L.M.	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SET	OCT	NOV	DIC
6.25												
6.75												
7.25												
7.75												
8.25												
8.75												
9.25												
9.75												
10.25	1.6											
10.75												
11.25											1.7	
11.75	1.8	1.8		2.0	2.3						1.9	
12.25	2.0	2.0	2.0	2.0	2.1						2.1	
12.75	2.2	2.1	2.1	2.1	2.3						2.2	
13.25	2.6	2.2	2.3	2.2	2.4						2.5	
13.75	3.3	2.5	2.5	2.4	2.5						3.0	
14.25	3.6	2.8	2.5	2.4	2.6					6.0	3.5	
14.75	4.3	3.6	2.8	2.7	2.7						3.5	
15.25	4.9	4.0	3.1	2.7	2.7						4.0	
15.75	4.8	4.8	3.6	2.9	2.8				4.2	4.3	3.8	
16.25	5.0	4.8	4.0	3.1	3.2				4.1	4.5	4.2	
16.75	5.0	4.8	4.3	3.3	3.6				4.7	4.7	3.9	
17.25	5.1	5.1	5.0	3.3	3.9				4.7	4.5	4.3	
17.75	5.5	5.5	5.3	3.6	3.9				5.0	4.7	3.9	
18.25	5.0	5.0	5.0	4.5	4.0				5.0	4.7	4.6	
18.75				3.7	4.4				5.0	5.0	4.4	
19.25				5.0	5.5					5.0	5.0	

MADUREZ SEXUAL PROMEDIO MENSUAL DE ANCHOVETA MACHOS

REGION SUR (14'-18'20' S)

AÑO :1975

L.M.	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SET	OCT	NOV	DIC
6.25												
6.75												
7.25												
7.75												
8.25												
8.75												
9.25												
9.75												
10.25	1.0											
10.75												
11.25												
11.75	2.0	1.8		2.0	2.0							1.8
12.25	2.2	2.1	2.1	1.9	2.3							2.1
12.75	2.5	2.3	2.3	1.9	2.1							2.5
13.25	2.7	2.5	2.4	1.9	2.3							2.6
13.75	3.6	2.6	2.5	2.1	2.4							2.9
14.25	4.1	3.1	2.8	2.3	2.5					6.0	3.3	
14.75	4.5	3.8	3.1	2.5	2.5						3.0	
15.25	5.0	4.6	3.5	2.8	2.8						3.0	
15.75	5.1	4.9	4.4	3.1	2.9				6.0	5.5	4.5	
16.25	5.3	5.0	4.5	3.4	3.3				5.0	5.1	4.1	
16.75	5.2	5.2	4.8	3.8	3.6				5.3	5.2	4.6	
17.25	5.1	5.1	4.5	4.1	3.8				5.0	5.2	4.6	
17.75	5.0	6.0	4.5	4.4	3.4				5.3	5.1	4.6	
18.25			6.0	4.8	4.3				5.8	5.3	4.6	
18.75				5.8	5.0				5.5	5.4	4.2	
19.25										5.0	6.0	

L.M. = Longitud media en cm.

MADUREZ SEXUAL PROMEDIO MENSUAL DE ANCHOVETA HEMBRAS

REGION SUR (14°-10°20' S)

AÑO :1976

L.M.	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SET	OCT	NOV	DIC
6.25												
6.75												
7.25												
7.75												
8.25												
8.75												
9.25		1.0	1.0		1.0					1.7	1.0	
9.75	1.0	1.1	1.3	1.0	1.3					2.0	1.5	
10.25	2.0	1.3	1.7	1.2	1.5	2.0				1.7	1.8	
10.75	2.0	1.3	1.6	1.4	1.8	2.0				2.0	1.7	
11.25	2.1	1.8	1.8	1.7	1.9	2.1				2.0	2.0	
11.75	2.0	2.0	1.9	1.9	2.0	2.0					2.3	
12.25	2.1	2.0	2.0	2.0	2.1	2.1				2.8	2.3	
12.75	2.2	2.0	2.1	2.1	2.1	2.2			4.0	2.6	2.3	
13.25	2.3	2.1	2.1	2.2	2.2	2.3			3.1	3.3	3.2	
13.75	2.4	2.2	2.1	2.3	2.2	2.4			2.9	3.2	3.3	
14.25	2.5	2.3	2.1	2.2	2.3	2.5			3.6	3.2	3.6	
14.75	2.7	2.6	2.3	2.4	2.4	2.7			4.0	3.6	3.9	
15.25	2.7	2.8	2.3	2.4	2.5	2.7			4.3	4.0	4.2	
15.75	2.6	3.0	2.5	2.4	2.4	2.6			4.3	4.0	4.1	
16.25	2.6	3.5	2.4	2.7	2.7	2.5			4.6	4.3	4.2	
16.75	2.9	3.7	2.8	2.8	3.1	3.1			4.0	4.5	4.3	
17.25	3.8	3.7	3.1	2.9	3.0	3.7				4.5	5.0	
17.75	3.6	3.7	3.3	3.2	3.1	3.6			4.8	4.0		
18.25	3.9	3.5	3.5	3.4	3.1	4.1			4.0	5.0		
18.75	4.5		5.1	3.5	3.0	4.5						
19.25	3.0	6.0	3.0	3.6	2.7							

L.M. = Longitud media en cm.

MADUREZ SEXUAL PROMEDIO MENSUAL DE ANCHOVETA MACHOS

REGION SUR (14°-10°20' S)

AÑO :1976

L.M.	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SET	OCT	NOV	DIC
6.25												
6.75												
7.25												
7.75												
8.25												
8.75												
9.25											2.0	1.3
9.75	1.0	1.0	1.3	1.0	1.0							1.4
10.25	2.0	1.8	1.2	1.1	1.5	2.0						1.6
10.75	1.7	1.8	1.3	1.3	1.7	1.8				2.0	1.8	
11.25	2.0	1.7	1.7	1.6	1.8	2.0						2.1
11.75	2.0	2.0	1.8	1.8	1.9	2.0						2.3
12.25	2.1	2.0	2.0	1.9	2.0	2.1				2.3	2.3	
12.75	2.1	2.0	2.0	2.1	2.0	2.1			4.0	3.1	2.8	
13.25	2.3	2.1	2.0	2.1	2.1	2.3			3.4	3.6	3.1	
13.75	2.4	2.2	2.1	2.2	2.1	2.4			4.0	3.3	3.3	
14.25	2.5	2.4	2.1	2.3	2.2	2.5			4.2	3.5	3.9	
14.75	2.6	2.5	2.1	2.3	2.3	2.5			4.6	3.9	4.3	
15.25	2.6	2.5	2.3	2.3	2.2	2.7			4.6	4.4	4.5	
15.75	2.7	3.0	2.3	2.3	2.4	2.9			5.1	4.8	4.8	
16.25	2.7	3.8	2.7	2.7	2.4	2.9			4.5	4.3	4.8	
16.75	3.0	4.0	3.6	2.8	2.9	3.2			6.0	6.0	4.3	
17.25	3.1	4.5	3.6	3.3	2.9	3.1			5.5	5.3	5.0	
17.75	3.8	4.5	3.6	3.2	2.8	3.8			5.0	6.0	4.8	
18.25	3.3		3.1	3.6	3.4	4.0						4.0
18.75			4.4	3.3	3.3					3.0		
19.25			6.0	4.0								

MADUREZ SEXUAL PROMEDIO MENSUAL DE ANCHOVETA HEMBRAS

MADUREZ SEXUAL PROMEDIO MENSUAL DE ANCHOVETA MACHOS

REGION SUR (14°-18°20' S)

AÑO :1977

REGION SUR (14°-18°20' S)

AÑO :1977

L.M.	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SET	OCT	NOV	DIC
6.25												
6.75												
7.25												
7.75												
8.25												
8.75												
9.25	1.5		1.5	2.0	1.5	1.1						1.0
9.75	1.7		1.4	2.0	1.6	1.2		2.0				1.0
10.25	1.7	2.0	1.5	2.0	1.8	1.8	2.5					1.5
10.75	1.9	2.0	1.9	2.1	1.9	2.0	2.8	6.0				1.6
11.25	2.0	2.0	2.1	2.2	2.0	2.2	2.9	3.0			3.0	2.0
11.75	2.0	2.0	2.0	2.2	2.1	2.3	3.6	4.5	3.2			2.1
12.25	2.2	2.0	2.1	2.3	2.2	2.4	4.2	4.0	5.2		5.0	2.2
12.75	2.5	2.2	2.1	2.7	2.3	2.6	4.6	4.3	4.4		3.5	2.5
13.25	2.8	2.4	2.4	3.0	2.5	2.9	4.7	4.3	5.1	4.6	3.7	3.0
13.75	2.8	2.5	2.5	2.8	2.8	3.1	4.5	4.4	4.9	4.6	5.0	4.0
14.25	3.3	3.0	3.3	3.2	3.0	3.7	4.9	4.7	4.9	5.4	5.1	4.2
14.75	3.9	3.8	3.5	3.2	3.1	4.0	4.9	5.2	5.0	4.6	5.1	4.5
15.25	3.6	3.9	3.6	3.8	3.3	4.4	5.2	3.8	5.1	4.7	4.9	5.1
15.75	4.1	3.8	3.9	3.9	3.4	4.3	5.0	4.6	5.0	5.0	5.1	4.7
16.25	4.2	4.1	4.3	4.8	3.9	4.4	5.4	4.8	5.3	5.0	4.9	4.4
16.75	4.4	4.1	3.9	4.4	4.0	4.6	5.4	5.4	5.6	5.7	5.2	4.6
17.25	3.9	3.5	3.5	3.4	3.5	4.7	5.3	4.5	5.1	5.0	5.0	4.6
17.75	5.7	4.0		3.0	4.0	4.2	4.5	5.0	5.1	4.9	4.2	4.7
18.25					4.0		5.0	5.0	4.8	5.4	4.5	
18.75										4.8	4.5	
19.25												

L.M.	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SET	OCT	NOV	DIC
6.25												
6.75												
7.25												
7.75												
8.25												
8.75												
9.25	1.0	1.0	1.4	1.7	1.4	1.0						1.0
9.75	1.6	2.0	1.2	2.0	1.5	1.3						1.0
10.25	1.9	2.0	1.7	2.1	1.6	1.9						1.3
10.75	1.9	2.0	2.3	2.2	1.8	1.9	4.4					1.4
11.25	1.9	2.0	2.0	2.4	2.0	2.2	4.1	4.3				1.9
11.75	2.1	2.1	2.1	2.4	2.1	2.3	4.4	4.6	5.0		5.0	2.4
12.25	2.3	2.4	2.5	2.5	2.3	2.4	4.5	4.3	5.2		5.0	3.0
12.75	2.6	2.6	2.8	2.6	2.3	2.7	4.9	5.0	5.4	3.0	4.9	3.6
13.25	2.7	2.8	2.6	2.9	2.6	3.0	5.1	4.8	5.2	5.2	4.9	4.5
13.75	3.5	3.0	3.3	2.8	2.8	3.6	4.8	5.1	4.8	5.0	5.4	4.9
14.25	3.9	3.5	3.8	3.1	3.1	4.2	4.8	4.8	5.1	5.2	5.0	4.9
14.75	4.4	4.3	4.4	3.2	3.2	4.3	5.1	5.1	5.0	5.6	5.3	5.1
15.25	4.4	4.8	4.4	3.7	3.5	4.5	5.2	4.3	5.1	5.5	4.5	5.0
15.75	4.4	4.6	4.7	4.5	3.8	4.4	5.2	5.3	5.0	5.6	5.3	4.7
16.25	4.9	4.5	4.8	4.4	3.8	4.7	5.1	5.2	5.2	5.4	5.2	5.3
16.75	4.4	4.2	4.5	4.3	3.8	5.0	4.9	5.3	5.0	5.5	5.5	5.0
17.25	4.5	3.0	6.0	6.0	4.0	4.7	5.2	4.0	5.1	5.4	4.7	5.2
17.75	3.0	6.0		6.0		4.8	5.5	5.7	5.8	5.1	5.2	5.1
18.25						4.0		5.3	6.0	6.0	6.0	5.3
18.75												
19.25												

L.M. = Longitud media en cm.

MADUREZ SEXUAL PROMEDIO MENSUAL DE ANCHOVETA HEMBRAS

MADUREZ SEXUAL PROMEDIO MENSUAL DE ANCHOVETA MACHOS

REGION SUR (14°-18°20' S)

AÑO :1978

L.M.	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SET	OCT	NOV	DIC
6.25												
6.75												
7.25												
7.75												
8.25												
8.75												
9.25	1.0											
9.75	1.0	2.0										
10.25	1.6	1.9		2.0	2.0	6.0						
10.75	1.7	2.0		2.0	2.0	5.0						
11.25	2.0	1.0		2.0	2.0	4.1						
11.75	2.1	2.0		2.0	2.0	4.4						
12.25	2.3	2.7		2.0	2.1	4.6						
12.75	2.7	2.5		2.0	2.4	4.1				2.0		
13.25	3.2	3.0		2.0	2.3	4.4			3.0	4.1	6.0	
13.75	4.1	3.1		2.1	2.4	5.1		3.0	3.0	4.1	6.0	
14.25	4.7	4.1		2.4	2.6	4.6		5.0	3.1	4.4	5.8	
14.75	4.9	4.6		2.5	2.9	4.8		5.5	3.9	4.6	5.4	
15.25	4.6	5.0		2.7	3.0	5.1		5.0	4.4	4.1	5.2	
15.75	5.6	4.7		2.9	3.6	4.8		4.6	4.1	4.0	4.8	
16.25	5.0	5.8		3.3	3.9	4.7		5.1	4.6	4.2	4.6	
16.75	5.1	5.7		3.5	4.2	4.6		5.0	4.6	4.2	5.2	
17.25	5.0			3.7	4.1	5.1		4.6	5.1	4.5	5.0	
17.75	6.0	6.0		4.0	3.3	6.0		4.9	5.5	4.3	5.4	
18.25	6.0					4.0		4.0	5.1	4.9	5.0	
18.75								4.0	5.0	5.3	5.8	
19.25										4.0		

REGION SUR (14°-18°20' S)

AÑO :1978

L.M.	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SET	OCT	NOV	DIC
6.25												
6.75												
7.25												
7.75												
8.25												
8.75												
9.25	1.0											
9.75	1.0											
10.25	1.7	1.7									5.3	
10.75	1.5	1.7								2.0	4.4	
11.25	1.6	2.0							2.0	2.0	5.7	
11.75	2.3	1.0							2.2	2.1	5.2	
12.25	2.9	2.7							2.0	2.3	4.8	
12.75	3.6	2.8							2.0	2.4	4.6	
13.25	4.2	3.1							2.0	2.3	4.5	
13.75	4.8	3.7							2.2	2.4	4.6	
14.25	4.9	4.2							2.3	2.8	5.3	
14.75	5.3	4.9							2.6	3.2	5.4	
15.25	5.5	5.5							2.9	3.8	5.2	
15.75	5.8	5.5							3.3	3.9	4.6	
16.25	5.5	5.2							3.4	4.0	5.4	
16.75	5.7	5.5							4.3	4.8	5.0	
17.25	6.0	5.9							4.5	4.2	5.0	
17.75	5.1								5.0			
18.25												
18.75									4.0			
19.25												

L.M. = Longitud media en cm.

MADUREZ SEXUAL PROMEDIO MENSUAL DE ANCHOVETA HEMBRAS

MADUREZ SEXUAL PROMEDIO MENSUAL DE ANCHOVETA MACHOS

REGION SUR (14°-18°20' S)

AÑO :1979

REGION SUR (14°-18°20' S)

AÑO :1979

L.M.	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SET	OCT	NOV	DIC
6.25												
6.75												
7.25												
7.75												
8.25												
8.75												
9.25		1.1										
9.75	1.0				1.5					2.0		
10.25		1.0	1.0		1.6							
10.75	1.7	1.5		1.2	1.8		1.0					
11.25	2.0	1.9	1.0	1.8	1.9	3.3	2.0					
11.75	2.0	1.8	2.0	1.8	2.0	2.0	3.4					
12.25	4.0	1.9	2.1	1.8	2.0	2.2	2.3		5.2			
12.75	2.0	2.2	2.5	2.0	2.0	2.1	3.0		3.0	4.0	3.5	
13.25	2.2	2.2	3.1	2.1	2.0	2.8	3.0		5.0	5.3	5.0	
13.75	2.5	3.0	3.2	2.1	2.0	3.6	3.4		4.0	4.2	4.0	
14.25	5.4	3.6	3.4	2.0	2.2	2.9	3.5		4.7	4.4	4.7	
14.75	5.0	4.1	4.2	2.1	2.0	3.7	3.7	4.0	4.9	4.8	4.7	
15.25	4.2	4.0	5.0	2.1	2.3	3.7	3.9	3.0	5.0	5.0	4.9	3.6
15.75	4.2	4.2	5.1	2.9	2.1	4.5	4.1	4.5	4.6	4.8	4.8	4.7
16.25	4.3	4.0	5.3	3.2	2.5	4.6	5.1	4.2	4.8	4.6	4.6	4.6
16.75	4.1	4.4	4.8	3.0	3.1	4.5	4.2	4.1	4.8	4.8	4.5	4.6
17.25	4.1	4.3	4.6	3.2	4.0	5.0	4.6	4.3	5.0	4.8	4.5	4.6
17.75	4.6	4.5	5.1	2.8	3.8	4.7	4.5	4.4	5.0	4.9	4.8	4.8
18.25	4.9	5.4	5.0	2.6	3.8	4.3	4.6	4.2	4.6	4.7	4.7	4.3
18.75	4.7			2.0	2.0	5.0	4.7	3.0		3.0	4.2	
19.25					6.0							

L.M.	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SET	OCT	NOV	DIC
6.25												
6.75												
7.25												
7.75												
8.25												
8.75												
9.25					1.0		1.0	1.0				
9.75	1.6	1.0			1.0							
10.25	1.0	1.0	1.0		1.6		1.0					
10.75	1.8	2.0			1.6							
11.25	2.2	2.0	1.0	1.8	1.8	4.0	3.0			5.0		2.6
11.75	2.0	2.4		2.0	2.0	2.0	2.0			5.0		3.0
12.25	2.9	2.2	2.2	2.0	2.0	2.8	3.4			6.0		4.0
12.75	2.7	3.1	2.2	2.1	2.1	2.6	3.1			6.0	3.8	3.8
13.25	3.0	3.2	2.4	1.8	2.1	2.9	4.2	6.0		5.0	3.5	3.3
13.75	3.2	3.5	3.6	2.0	2.1	3.9	4.2	6.0		5.0	3.3	3.3
14.25	2.8	3.9	3.4	2.1	2.1	4.2	3.9			5.2	3.6	4.6
14.75	5.7	3.4	3.9	2.3	2.0	5.3	5.0	6.0	5.3	5.1	5.0	5.0
15.25	5.6	5.4	4.3	2.2	2.5	4.9	4.7	5.0	6.0	4.9	4.3	4.6
15.75	5.3	5.3	5.3	2.0	2.9	5.2	5.4	5.2	5.6	4.9	4.8	4.9
16.25	5.5	5.1	5.7	3.4	2.7	5.3	5.4	5.0	5.7	5.0	4.9	4.5
16.75	5.5	5.1	5.4	3.3	3.9	5.5	5.5	5.1	5.7	4.8	4.6	4.7
17.25	5.4	5.2	5.4	3.0	3.5	5.1	5.4	5.1	5.9	4.6	4.6	4.7
17.75	5.5	5.5	5.5	3.5	4.2	5.4	5.4	5.3	5.9	4.6	4.6	4.5
18.25	5.5	5.7	6.0	3.3	2.2	5.4	5.6	4.8	6.0	4.3	4.1	5.0
18.75		4.8										
19.25												

L.M. = Longitud media en cm.

MADUREZ SEXUAL PROMEDIO MENSUAL DE ANCHOVETA HEMBRAS

MADUREZ SEXUAL PROMEDIO MENSUAL DE ANCHOVETA MACHOS

REGION SUR (14°-16°20' S)

AÑO :1980

REGION SUR (14°-16°20' S)

AÑO :1980

L.M.	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SET	OCT	NOV	DIC
6.25												
6.75												
7.25												
7.75												
8.25												
8.75												
9.25	1.3	1.3	1.9	1.0							1.1	
9.75	1.1	1.0	1.3	1.4							1.2	
10.25	1.5	1.9	1.9	1.6							1.3	
10.75	1.0	1.0	2.4	1.7							1.6	
11.25	2.1	2.2	2.3	2.0							2.0	
11.75	2.5	2.7	2.1	2.0	2.3						2.1	
12.25	2.5	2.9	2.2	2.6	2.0	2.0					2.3	
12.75	3.0	4.3	2.8	3.1	2.7	2.0	4.0	5.0			2.4	
13.25	3.0	4.6	4.1	3.7	2.1	4.2	4.0	5.0			2.9	
13.75	4.0	4.7	3.3	4.4	2.2	2.0	5.0	2.0			4.4	
14.25	5.1	3.9	3.3	5.0	3.4	2.9	5.0	5.0	5.0	3.0		
14.75	5.5	5.2	5.3	4.2	2.4	4.0	5.0	5.0	5.2	4.9		
15.25	4.0	4.0	4.9	4.3	4.3	3.0	5.0	5.0	5.3			
15.75	5.2	5.0	3.0	3.0	3.0	3.6	5.0	4.7	4.0			
16.25	5.3	5.7	4.6	5.1	3.0	4.9	4.9	4.9	5.1			
16.75	4.9	5.6	5.9	4.2	3.5	5.0	4.0	4.9	5.0			
17.25	4.0	5.5	6.0	5.4	4.5	4.9	5.2	4.9	5.0	6.0		
17.75	4.7	5.7		5.4	3.2	4.5	5.0	4.0	4.9			
18.25	4.5					6.0			5.0	4.7	6.0	
18.75	5.7								6.0	5.0		
19.25	6.0											

L.M.	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SET	OCT	NOV	DIC	
6.25													
6.75													
7.25													
7.75													
8.25													
8.75													
9.25	1.2	1.3	1.0	1.5								1.2	
9.75	1.2	1.7	1.0	1.9								1.1	
10.25	1.5	2.0	1.0	1.5								1.3	
10.75	1.8	2.3	2.5	1.9		3.0						1.5	
11.25	2.6	2.9	2.8	2.6	2.0							1.9	
11.75	3.7	3.1	3.6	2.4	3.0	4.5						2.1	
12.25	3.1	3.7	3.1	3.4	4.5							2.5	
12.75	3.5	4.1	3.7	3.9	2.4	4.0				5.0	4.0	3.4	
13.25	4.6	4.7	4.7	3.6	3.4	3.9				3.0	4.6	5.0	4.2
13.75	5.2	4.1	3.4	3.6	3.7	4.0				4.9	3.0	4.0	4.6
14.25	5.0	4.7	4.7	3.7	2.0	3.9				4.6	5.0	5.0	4.7
14.75	5.1	4.8	4.8	5.0	3.8	4.2				4.5	4.4	4.9	
15.25	6.0			5.5	5.0	4.4				4.2	4.6	4.3	4.0
15.75	5.4	3.0			4.6	4.9				5.2	4.5	5.0	
16.25	4.6	5.0	3.2	4.9	4.1	4.3				4.7	4.4	4.0	
16.75	4.6	4.7	5.0	5.0	4.9	4.2				4.5	4.7	4.0	5.4
17.25	4.8		5.0	4.3	4.0					5.0	4.4	5.0	
17.75	4.6			4.9	5.0						4.0	5.0	
18.25	5.2			4.0							5.0	5.9	
18.75												6.0	
19.25	6.0												

L.M. = Longitud media en ca.

MADUREZ SEXUAL PROMEDIO MENSUAL DE ANCHOVETA HEMBRAS

MADUREZ SEXUAL PROMEDIO MENSUAL DE ANCHOVETA MACHOS

REGION SUR (14°-18°20' S)

AÑO :1981

L.M.	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SET	OCT	NOV	DIC
6.25												
6.75												
7.25												
7.75												
8.25												
8.75												
9.25	1.0	1.1	1.0								1.0	
9.75	1.1	1.1	1.1	1.4	1.0						1.0	
10.25	1.1	1.2	1.3	1.6	1.4	1.5				1.7	1.4	
10.75	1.2	1.3	1.5	1.8	1.8	2.0				2.0	1.7	
11.25	1.4	1.6	1.8	2.1	2.1	3.0				2.5	1.8	
11.75	1.6	1.8	2.0	2.9	3.0	3.3				5.0	1.6	
12.25	1.9	2.4	3.2	3.6	3.2	3.2	5.0			3.0	1.9	
12.75	2.2	2.9	3.8	4.1	3.1	3.0	4.0	5.0		3.2	2.3	
13.25	3.2	3.5	4.1	5.3	2.2	4.0	4.0	6.0	3.8	2.5	3.0	
13.75	3.3	4.0	3.7	5.1	4.6	5.0	4.2	4.0	6.0	4.0	3.2	3.7
14.25	4.0	4.2	4.1	5.5	2.8	3.5	5.2	3.9	5.2	3.9	3.0	3.9
14.75	4.9	4.5	4.9	5.6	3.6	4.2	4.4	4.1	4.7	4.1	4.0	4.4
15.25	5.5	4.2	4.3	5.0	2.7	4.5	4.4	4.2	4.6	4.0	4.5	4.6
15.75	3.0	5.0		5.0	2.9	4.3	5.0	4.3	4.7	4.3	4.7	4.5
16.25			5.4		3.6	4.4	4.8	4.1	4.7	4.2	4.4	4.3
16.75		6.0	3.8	6.0	5.2	4.7	4.9	4.2	4.7	4.4	4.3	4.8
17.25	4.2	5.0	4.0		3.7	4.7	4.8	4.3	4.6	4.4	4.4	4.5
17.75	5.0		5.7	5.0	4.0	4.8	4.9	4.2	4.8	4.1	3.6	4.5
18.25					5.0	6.0	4.0	4.3	5.3	5.5	4.6	
18.75						6.0						
19.25												

REGION SUR (14°-18°20' S)

AÑO :1981

L.M.	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SET	OCT	NOV	DIC	
6.25													
6.75													
7.25													
7.75													
8.25													
8.75													
9.25	1.2	1.0	1.1					3.0				1.0	
9.75	1.2	1.1	1.1	1.4								1.1	
10.25	1.3	1.2	1.5	1.8	4.6							1.2	
10.75	1.5	1.3	1.6	1.8	2.0			3.0			2.0	1.7	
11.25	2.0	2.1	1.9	3.1	4.6			3.4			4.0	1.7	
11.75	1.9	2.2	2.3	3.5	3.2			3.2			3.4	1.9	
12.25	2.2	2.9	2.5	5.4	4.9			3.3	5.0		5.9	2.5	
12.75	3.1	2.9	3.2	5.9	2.0			3.9		4.0	4.2	3.2	
13.25	4.6	3.7	4.9	6.0				3.5	4.0	5.0	5.2	5.0	4.7
13.75	4.1	5.2	4.7	6.0	5.0			5.0	4.8	4.0	5.5	5.0	5.0
14.25	4.6	5.3	5.6	6.0	4.3	2.0	4.5	5.8	5.0	4.1	6.0	5.6	
14.75	4.5	5.0	5.1	5.8	4.3	3.7	4.8	5.4	4.8	4.8	5.0	5.2	
15.25		6.0		6.0	4.9	3.8	4.4	5.4	4.8	5.1	4.9	3.2	
15.75		6.0		6.0	2.7	4.3	4.4	5.4	5.0	4.9	5.0	5.0	
16.25	6.0	6.0		6.0	2.7	4.0	4.6	5.3	4.9	5.1	4.9	5.9	
16.75		6.0	6.0		6.0	5.1	4.7	5.3	4.9	5.0	5.1	5.3	
17.25			6.0		6.0	5.0	4.3	5.7	4.9	4.8	5.0	5.9	
17.75		6.0			6.0	5.3	3.9	5.6	4.6	5.0	4.6		
18.25								5.0	5.0				
18.75													
19.25													

L.M. = Longitud media en cm.

MADUREZ SEXUAL PROMEDIO MENSUAL DE ANCHOVETA HEMBRAS

REGION SUR (14'-18'20' S)

AGO :1982

L.M.	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SET	OCT	NOV	DIC
6.25												
6.75												
7.25												
7.75												
8.25												
8.75												
9.25	1.5											
9.75	1.4											
10.25	1.8											
10.75	1.9											
11.25	2.4	2.0	2.0									
11.75	2.3	2.0	2.0									
12.25	2.9	2.0	2.3		2.0							
12.75	3.4	2.0	2.2	2.0	2.2							
13.25	3.4	2.0	2.2	2.0	2.0							
13.75	4.1	3.0	2.7	2.0	2.6							
14.25	3.6	3.6	3.1	2.2	2.3							
14.75	3.4	2.0	3.4	3.1	3.9							
15.25	4.0		4.0	5.6	3.8		3.0			4.0		
15.75	5.0		4.5	5.0	2.7		4.2			3.4		
16.25	4.0		2.7		3.7		3.7	4.5		3.8		
16.75	5.0		4.2				4.3	5.0		4.1		
17.25	4.8		6.0		4.0		4.5	5.0		4.0		
17.75			2.0	6.0			4.0	4.0		4.2		
18.25							4.7	4.0		3.7		
18.75							4.0			4.0		
19.25												

L.M. = Longitud media en cm.

MADUREZ SEXUAL PROMEDIO MENSUAL DE ANCHOVETA MACHOS

REGION SUR (14'-18'20' S)

AGO :1982

L.M.	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SET	OCT	NOV	DIC
6.25												
6.75												
7.25												
7.75												
8.25												
8.75												
9.25	1.8											
9.75	1.1	2.0										
10.25	1.5	2.0										
10.75	1.7	1.8										
11.25	2.5	2.0	2.0									
11.75	2.9	3.2	2.0									
12.25	3.9		2.0									
12.75	4.3	4.5	2.2		2.0							
13.25	4.7	4.8	2.8		2.0							
13.75	5.2	4.8	2.9	2.0	2.0							
14.25	4.9		4.5	2.5	2.9						6.0	
14.75	5.2	6.0	4.2	6.0	4.8						4.5	
15.25	5.7		4.5	5.5	5.4						5.0	
15.75	5.7		4.0	6.0	5.4				4.5	5.0	5.5	
16.25	5.3		5.0						4.6	4.5	5.4	
16.75	5.3		5.9		6.0				4.5	4.3	5.3	
17.25	5.4								4.0	4.5	5.6	
17.75				6.0					4.0		5.7	
18.25									5.0		5.1	
18.75									5.0	4.0		
19.25												

MADUREZ SEXUAL PROMEDIO MENSUAL DE ANCHOVETA HEMBRAS

REGION SUR (14°-18°20' S)

AÑO :1984

L.M.	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SET	OCT	NOV	DIC
6.25												
6.75												
7.25												
7.75												
8.25												
8.75												
9.25						2.1						
9.75						2.0						
10.25						2.0						
10.75	2.0					2.0						
11.25	3.5					2.3						
11.75	3.6					2.4			6.0			
12.25	4.3		3.4			3.8	4.0					
12.75	3.8		3.0					4.2				
13.25	3.7		3.6			6.0		3.8				
13.75	3.6		3.5			4.0	4.0					
14.25	3.8		3.8			4.4	4.5		4.0			
14.75			3.6			4.2	5.0		5.0			
15.25			5.0			5.1						
15.75						4.0						
16.25							3.0					
16.75												
17.25												
17.75												
18.25												
18.75												
19.25												

L.M. = Longitud media en cm.

MADUREZ SEXUAL PROMEDIO MENSUAL DE ANCHOVETA MACHOS

REGION SUR (14°-18°20' S)

AÑO :1984

L.M.	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SET	OCT	NOV	DIC
6.25												
6.75												
7.25												
7.75												
8.25												
8.75												
9.25							2.0					
9.75							4.1					
10.25							2.3					
10.75						4.5						
11.25						4.9		3.0				
11.75						5.6				2.3		
12.25						5.2		2.8		4.4	5.0	
12.75						5.1		4.0		5.4		6.0
13.25						5.0		4.2		6.0	4.4	5.5
13.75						6.0		3.3		6.0	4.6	5.0
14.25						6.0		4.5		5.9	4.8	6.0
14.75								4.3		5.9	5.3	6.0
15.25								4.5		5.9		
15.75										4.0		
16.25												
16.75												
17.25												
17.75												
18.25												
18.75												
19.25												

MADUREZ SEXUAL PROMEDIO MENSUAL DE ANCHOVETA HEMBRAS

MADUREZ SEXUAL PROMEDIO MENSUAL DE ANCHOVETA MACHOS

REGION SUR (14°-16°20' S)

AÑO :1985

REGION SUR (14°-18°20' S)

AÑO :1985

L.M.	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SET	OCT	NOV	DIC
6.25												
6.75												
7.25												
7.75												
8.25												
8.75												
9.25												
9.75												
10.25	1.0											
10.75				1.0								
11.25	1.8			1.1								
11.75	3.4			1.4								
12.25	3.5			1.9								
12.75	3.1	2.5		1.9		3.0						
13.25	3.7			2.3	4.0	3.0						
13.75	4.0			3.0		3.0		3.5				
14.25	5.5	4.0		3.5	4.0	4.1		4.5				
14.75		3.0		3.6		4.0		4.0	5.0			
15.25				3.3	4.0	4.5				4.7		
15.75		3.0		4.5		5.0	4.0	4.0	4.4	4.4	4.0	
16.25					5.3	4.9	6.0	4.0	5.5	5.7	4.0	
16.75					4.0	4.3	6.0	4.0	4.3	4.2	3.9	
17.25						4.9	6.0	3.7	4.6	5.5	4.4	
17.75						4.4	6.0		5.1	4.6	4.5	
18.25						5.7			6.0			
18.75												
19.25												

L.M.	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SET	OCT	NOV	DIC
6.25												
6.75												
7.25												
7.75												
8.25												
8.75												
9.25												
9.75												
10.25												
10.75	1.0			1.0								
11.25	2.7			1.0								
11.75	3.4			1.5								
12.25	4.8	1.5		1.8	4.7	4.5						
12.75	4.5	4.0		2.0	4.5	4.0						
13.25	5.3	4.0		2.5	6.0	5.3						
13.75	5.0	4.5		2.4	5.0	5.5				6.0		
14.25		6.0		3.8	6.0	5.5				6.0		
14.75		6.0		4.7	5.5	5.7			4.3	5.7		
15.25		6.0		4.0	4.7	5.8	6.0	5.4	5.3	5.2	6.0	
15.75		6.0		6.0	5.5	5.4	4.9	6.0	5.5	5.3	5.7	
16.25						5.2	6.0	6.0	5.6	6.0	5.1	
16.75							4.8	6.0	6.0	5.7	5.6	5.6
17.25						6.0	5.5	6.0	6.0	5.8	6.0	5.2
17.75							4.0	6.0		5.8	6.0	6.0
18.25										6.0		
18.75												
19.25												

L.M. = Longitud media en cm.

MADUREZ SEXUAL PROMEDIO MENSUAL DE ANCHOVETA HEMBRA

REGION SUR (14°-18°20' S)

AÑO :1986

L.M.	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SET	OCT	NOV	DIC
6.25												
6.75												
7.25												
7.75												
8.25												
8.75												
9.25												
9.75												
10.25												
10.75			1.0									
11.25			1.4						5.0			
11.75		2.3	2.0		2.0			4.0				
12.25		2.5	2.2		2.0		2.0	6.0	5.3			
12.75		3.3	2.4		2.2		2.0	4.8	2.5		2.0	
13.25			2.3	2.0	2.8		3.0	4.4	5.7	2.0	2.3	
13.75		3.5	2.0		2.5		2.5	3.5		2.0	3.0	
14.25			2.6	2.3	2.4		3.0	5.0	2.0	2.3	2.8	
14.75			2.8	2.3	3.5		3.5	4.2		2.2	2.3	
15.25			3.5	2.8	5.0		3.7	4.5	2.0	2.4	3.0	
15.75		2.0	3.3	2.0	6.0		4.0		3.0	3.0	3.6	
16.25		2.6	2.3	2.3	3.0		3.5	3.5	4.7	2.8	3.0	
16.75	5.0	3.5	2.6	2.7	3.6		3.5	3.7	4.3	4.3	5.1	
17.25	5.3	3.0	3.1	3.4	4.2		3.0	3.8	4.5	5.6	4.3	
17.75	3.8	3.2	4.0	3.3	3.7		3.0	3.3	5.0	5.4	3.9	
18.25		4.2	3.2	3.7	3.3		3.0	5.1	4.4	3.9	4.8	
18.75								2.6	4.1	3.7	4.8	
19.25												

L.M. = Longitud media en cm.

MADUREZ SEXUAL PROMEDIO MENSUAL DE ANCHOVETA MACHOS

REGION SUR (14°-18°20' S)

AÑO :1986

L.M.	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SET	OCT	NOV	DIC
6.25												
6.75												
7.25												
7.75												
8.25												
8.75												
9.25												
9.75												
10.25												
10.75						1.0				3.3		
11.25										5.0		
11.75			2.3	2.0		2.0			6.0	2.7		
12.25			2.0	2.0		2.0		2.0	6.0			
12.75			3.5	2.2		2.0		2.3	5.2	6.0		2.0
13.25			3.0	2.0	2.0	2.0		2.7	5.0		2.0	2.0
13.75			3.0	2.3	2.0	3.0		3.0	5.0	4.7	2.0	2.0
14.25				2.0	2.0	2.5		4.0	4.0		2.3	2.0
14.75				3.7	2.0	2.7		4.0	6.0	2.0	2.0	5.0
15.25				2.0	2.0	2.8			6.0	6.0	4.5	4.8
15.75	6.0			2.5	2.3				6.0	6.0	5.0	3.0
16.25	6.0		4.3	3.0	2.3				3.5	6.0	5.6	5.0
16.75	6.0		4.0	3.7	2.5	5.0		2.0	4.9	6.0	5.9	6.0
17.25	6.0		4.0	3.6	2.4	3.3		4.5	5.4	5.9	6.0	5.9
17.75	6.0		5.0	3.0	2.0	4.4		4.0	5.5	5.9	5.8	5.9
18.25			4.0	3.0	2.7	5.5		5.5	6.0	6.0	5.3	6.0
18.75										6.0		6.0
19.25												

MADUREZ SEXUAL PROMEDIO MENSUAL DE ANCHOVETA HEMBRAS

REGION SUR (14°-18°20' S)

AÑO :1987

L.M. ENE FEB MAR ABR MAY JUN JUL AGO SET OCT NOV DIC

6.25											
6.75											
7.25											
7.75											
8.25											
8.75											
9.25											
9.75											
10.25											
10.75											
11.25											
11.75											
12.25			2.0								
12.75			2.0								
13.25			2.0								
13.75			2.0								
14.25			5.0								
14.75			6.0								
15.25		3.0	2.0				3.0				
15.75	4.7	4.0	2.0								
16.25	5.0	3.0	6.0			4.0	4.0			3.0	
16.75	4.7	4.5	6.0		3.0	3.0	4.0	3.6		3.0	
17.25	4.8	4.7		3.0	3.7	5.0	4.7	4.1	3.7	3.0	
17.75	5.6	5.6		5.0	3.7	4.8	4.8	4.3	3.8	4.4	5.0
18.25	4.9	3.8		3.0	4.2	4.9	4.2	4.2	3.9	5.0	5.0
18.75	5.2	4.4		3.0	4.5	4.5	4.4	3.9	4.2	4.6	5.3
19.25					4.7	6.0	5.0	4.0	4.5		5.2

L.M. = Longitud media en cm.

MADUREZ SEXUAL PROMEDIO MENSUAL DE ANCHOVETA MACHOS

REGION SUR (14°-18°20' S)

AÑO :1987

L.M. ENE FEB MAR ABR MAY JUN JUL AGO SET OCT NOV DIC

6.25											
6.75											
7.25											
7.75											
8.25											
8.75											
9.25											
9.75											
10.25											
10.75											
11.25											
11.75											
12.25										2.0	
12.75											
13.25											
13.75											
14.25											
14.75										6.0	
15.25										3.0	2.0
15.75											3.0
16.25										5.5	
16.75										5.6	6.0
17.25										4.0	6.0
17.75										5.9	5.4
18.25										5.3	5.4
18.75										5.3	5.3
19.25										6.0	6.0