

QUANTIFICATIONS OF ENVIRONMENTAL EFFECTS

We are giving below the data concerning the follow-up and control carried out by Dana Automoción, S.A. – Industrias Serva of its most significant environmental issues.

On the other hand, the values of the analyses hereunder refer to samples taken under normal manufacturing conditions.

Air emissions

Table 1 shows the data for 2003 concerning the emission points of the process.

Table 2 show the data concerning the combustion points.

Tabla 1

FOCO EMISOR	Emisión de Hidrocarburos⁽¹⁾	Emisión másica de Hidrocarburos	Inmisión de Hidrocarburos⁽²⁾	Distancia⁽³⁾	Temperatura	Caudal Gas
Impregnación	0,9 mg/Nm ³	0,002 Kg/h	355,9 µg/Nm ³	389 m	24,6 °C	2168,2 Nm ³ /h
Estufa Laboratorio	301,7 mg/Nm ³	0,093 Kg/h	355,9 µg/Nm ³	389 m	27,8 °C	307,2 Nm ³ /h
Horno Pequeño	22,1 mg/Nm ³	0,015 Kg/h	355,9 µg/Nm ³	389 m	115,2 °C	694,2 Nm ³ /h
Horno Grande	1588,5 mg/Nm ³	0,595 Kg/h	355,9 µg/Nm ³	389 m	107,4 °C	374,8 Nm ³ /h
Aspiración de pantallas	3069,8 mg/Nm ³	1,115 Kg/h	355,9 µg/Nm ³	389 m	26,6 °C	308,8 Nm ³ /h
Inyección de cauchos I	0,8 mg/Nm ³	0,004 Kg/h	355,9 µg/Nm ³	389 m	32,9 °C	4245,8 Nm ³ /h
Inyección de cauchos II	2,9 mg/Nm ³	0,014 Kg/h	2,870 µg/Nm ³	191 m	31,8 °C	4774,4 Nm ³ /h
Máquina de corte por láser ⁽⁴⁾	9,3 mg/Nm ³	0,060 Kg/h	355,9 µg/Nm ³	389 m	26 °C	6445,1 Nm ³ /h

(1) Reference value taken from German Regulations (Taluft) 150 mg/Nm³, if mass emission > 3 KG/h

(2) Max concentration at (3) m from emission point. Reference values taken from Annex III of Decree 833/75 concerning Protection of Air, total hexane-based hydrocarbons: 140 mg/Nm³ (average concentration in thirty minutes) and 280 mg/Nm³ (average concentration in twenty four hours).

(4) Value obtained of solid particles: 9.3 mg/Nm³ with a mass emission of solid particles of 0.060 Kg/h. Max value allowed according to Annex II of Decree 833/75 about Protection of Air for solid particles: 150 mg/Nm³

N/A: Not apply.

Tabla 2

FOCO EMISOR	Emisión de CO⁽¹⁾	Emisión de NOx⁽¹⁾	Emisión de SO₂⁽¹⁾	Opacidad	Temperatura	Caudal Gas
Caldera Oficinas I	0 ppm	91 ppm	157,13 mg/Nm ³	0-1	173,4 °C	499,33 Nm ³ /h
Caldera Oficinas II	0 ppm	86 ppm	150,71 mg/Nm ³	1	170 °C	528,35 Nm ³ /h
Caldera I NavesExp.	11 ppm	65 ppm	108,57 mg/Nm ³	1	127,3 °C	211,74 Nm ³ /h
Caldera II Naves/Exp.	0 ppm	70 ppm	82,85 mg/Nm ³	0-1	107,7 °C	101,11 Nm ³ /h

(1) (1) Max levels of emission allowed according to Annex IV of Decree 833/75 about Protection of Air: the values of CO, NOx and SO₂ are respectively: 1.445 ppm, 300 ppm and 1700 mg/Nm³; opacity > 2. N/D: Not detected.

Sewage

The main sewage points of the Company are annually controlled through analyses carried out by an officially authorized Control Organization. The results for the final sewage points are as follows:

AGUAS DE VERTIDO FINAL (COLECTOR)	PUNTO 1 (ENTRADA PRINCIPAL)	PUNTO 2 (SALIDA MERCANCIAS)	MAXIMOS LEGALES
Parámetro	Valor	Valor	Valor máximo ⁽¹⁾
<i>pH</i>	7,57 ± 2,82%	7,52 ± 2,82%	5,5-9,4
<i>Temperatura</i>	22 °C	13 °C	40 °C
<i>Conductividad</i>	1413 µS/cm	1920 µS/cm	3000µS/cm
<i>DQO</i>	60 ± 4,41% mgO ₂ /l	188 ± 4,41% mgO ₂ /l	1500 mgO ₂ /l
<i>DBO₅</i>	22 ± 2,11% mgO ₂ /l	68 ± 2,11% mgO ₂ /l	500 mgO ₂ /l
<i>Plomo</i>	< 0,2 ± 0,05% mg/l	< 0,2 ± 0,05% mg/l	1 mg/l
<i>Aceites y grasas</i>	10 ± 0,03% mg/l	< 5 ± 0,03% mg/l	200 mg/l
<i>Sólidos en suspensión</i>	129 ± 1,83% mg/l	122 ± 1,83% mg/l	500 mg/l
<i>Fenoles</i>	< 0,5 µg/l	< 0,5 µg/l	10 mg/l
<i>Cianuros libres</i>	< 0,02 ± 4,84% mg/l	< 0,02 ± 4,84% mg/l	2 mg/l
<i>Sulfuros totales</i>	< 1 ± 1,48% mg/l	< 1 ± 1,48% mg/l	5 mg/l
<i>Hierro</i>	< 0,1 ± 0,03 mg/l	< 0,1 ± 0,03 mg/l	10 mg/l
<i>Cromo total</i>	< 0,21 ± 0,06 mg/l	< 0,21 ± 0,06 mg/l	5 mg/l
<i>Cromo (VI)</i>	< 0,01 ± 0,01 mg/l	< 0,01 ± 0,01 mg/l	1 mg/l
<i>Cobre</i>	< 0,1 ± 0,07 mg/l	< 0,1 ± 0,07 mg/l	2 mg/l
<i>Zinc</i>	0,077 ± 0,02 mg/l	0,128 ± 0,02 mg/l	7 mg/l
<i>Níquel</i>	< 0,1 ± 0,04 mg/l	< 0,1 ± 0,04 mg/l	2 mg/l
<i>Estaño</i>	< 2 ± 0,4 mg/l	< 2 ± 0,4 mg/l	2 mg/l
<i>Selenio</i>	< 2 ± 0,4 µg/l	< 2 ± 0,4 µg/l	1 mg/l
<i>Mercurio</i>	< 4 ± 0,7 µg/l	< 4 ± 0,7 µg/l	0,05 mg/l
<i>Cadmio</i>	< 0,05 ± 0,04 mg/l	< 0,05 ± 0,04 mg/l	0,5 mg/l
<i>Arsénico</i>	< 4 ± 0,7 µg/l	< 4 ± 0,7 µg/l	1 mg/l

(1) Limits of sewage to local Sewage system taken from Annex II of Local Regulations of Saragossa for the control of sewage pollution.

Noise

The results from the measurements of noise level inside the Plant in 2003 are as follows:

Leq (A) (*)	1999	2000	2001	2002	2003
> 90 dB(A)	30	8	9	3	5
> 85 dB(A) y ≤ 90 dB(A)	39	7	23	19	15
> 80 dB(A) y ≤ 85 dB(A)	6	15	25	51	15
≤ 80 dB(A)	1	18	3	29	2
Total	76	48	60	102	37

(*) Levels established in RD 1316/89 concerning Protection of Workers against Risks resulting from Exposure to Noise during the Work.

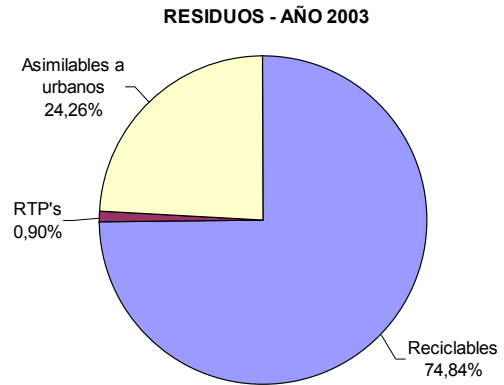
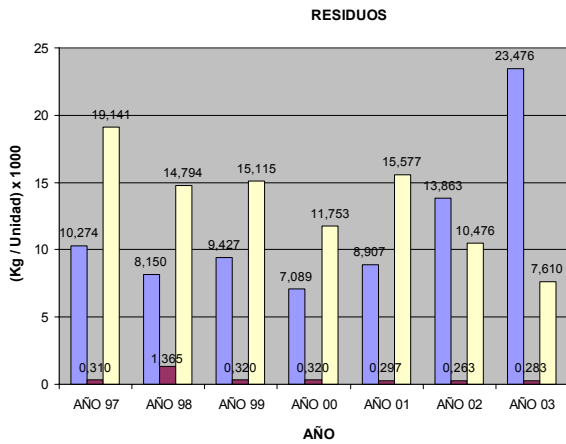
These measurements of max level of internal noise emission are carried out annually by an external Prevention Service. On the other hand, the measurements of levels of external noise emission are carried out on a two-year basis by an officially authorized Control Organization. The next one is scheduled for 2004. The results from the measurements of noise levels (day and night) in the outside of the Plant in the year 2002 show values lower than 69.4 dB(A) in the 13 representative points measured (max day and night values are 75 and 70 dB(A) respectively, as established in the Local Regulations for Protection against Noise and Vibrations of Saragossa). Anyway, the effects of the above values of external noise are negligible, due to the strong noise coming from the traffic on the A-2 Motorway, which runs near the Company's premises.

Waste

The total quantity of waste generated in the year 2003 amounts to 1 132.437 Kg. It is worth highlighting the increase of recyclable waste (37.108% in regard to 2002) and the lowest values since 1997 in regard to Toxic and Dangerous Waste (TDW) and urban-like waste.

Recyclable waste include the data concerning generation of wood (broken cases and pallets which cannot be re-used) since 2002. This waste was not included in the statements of previous years.

RESIDUOS							
TIPO	AÑO 97	AÑO 98	AÑO 99	AÑO 00	AÑO 01	AÑO 02	AÑO 03
Reciclables	412.220	459.031	502.494	481.250	428.385	618.115	847.485
RTP's	12.444	76.868	17.082	21.748	14.275	11.722	10.232
Asimilables a urbanos	768.020	833.220	805.660	797.920	749.180	467.100	274.720
Totales	1.192.684	1.369.119	1.325.236	1.300.918	1.191.840	1.096.937	1.132.437

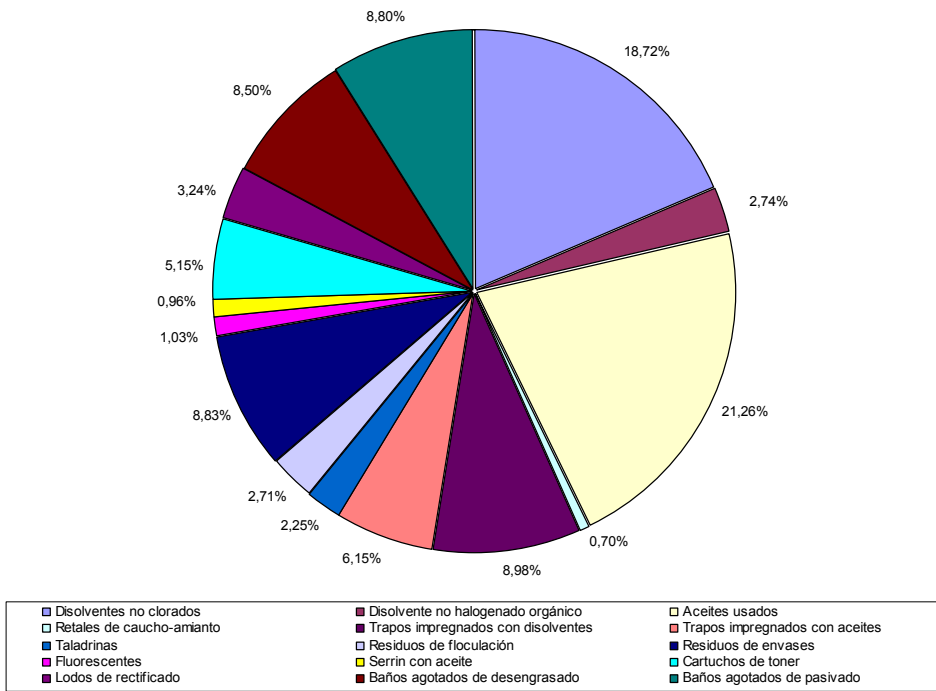


We are giving below the quantities of dangerous waste generated during the last seven years in Dana Automoción, S.A. – Industrias Serva, as well as the corresponding environmental rates ((Kg/unit) x 1000 x 1000):

RTP'S														
MATERIAL	AÑO 97	AÑO 98	AÑO 99	AÑO 00	AÑO 01	AÑO 02	AÑO 03	INDICE 97	INDICE 98	INDICE 99	INDICE 00	INDICE 01	INDICE 02	INDICE 03
Disolventes no clorados (Kg)	3,686	2,750	5,162	5,101	4,585	2,431	1,915	91,867	48,828	96,843	75,135	95,331	54,523	53,047
Arenas con gasoil (Kg)		65,080 P							1155,533					
Disolvente no halogenado orgánico (Kg)	213	301	245	315	280	315	280	5,309	5,344	4,596	4,640	5,822	7,065	7,756
Aceites usados (Kg)	2,035	700	4,055	3,700	2,025	3,100	2,175	50,719	12,429	76,075	54,499	42,104	69,527	60,249
Retales de caucho-amianto (Kg)	2,009	1,195	307			247	72	50,071	21,218	5,760			5,540	1,994
Tropos impregnados con disolventes (Kg)	13	1,983	2,244	1,804	1,969	1,161	919	0,324	35,209	42,099	26,572	40,939	26,039	25,457
Tropos impregnados con aceites (Kg)	101	1,016	1,994	1,853	1,249	1,014	629	2,517	18,040	37,409	27,294	25,969	22,742	17,424
Taladrinas (Kg)		60	106	242			221		1,065	1,989	3,565		4,957	6,371
Salas de cromo hexavalente (Kg)	1,288	205 E						32,101	3,640					
Residuos de floculación (Kg)		188	557	303	430	283	277		3,338	10,450	4,463	8,941	6,347	7,673
Residuo de cola (Kg)		120 E												
Residuo a incinerar (Kg)		545 P												
Recortes de chapa de deposito de gasoil (Kg)		1,620 P												
Residuos de envases (Kg)		1,105	1,465	3,892	2,464	1,824	903		19,620	27,484	57,327	51,231	40,909	25,014
Fuel con agua (Kg)	2,125		148	76				52,962		2,777	1,119			
Mezcla de ácidos y humectantes (Kg)	939 E													
Acetona con caucho (Kg)			154 E											
Fluorescentes (Kg)			123	50	78	65	105		2,308	0,736	1,622	1,458	2,909	
Pilas (Kg)		23							0,431					
Serrín con aceite (Kg)		499	79			85	98		9,362	1,164		1,906	2,715	
Restos de adhesivo al agua (Kg)				1,120	539	151 E				16,497	11,207	3,387		
Cartuchos de tintas y cintas (Kg)		183	408							2,696	8,483			
Cartuchos de toner (Kg)		109	248	545	527					1,606	5,156	12,223	14,598	
Productos Caducados (Kg)			251 P							3,697				
Mezcla agua disolvente no halogenado (Kg)			132 P							1,944				
Aguas con aceites (Kg)			2,538 E							37,384				
Lodos de rectificado (Kg)					280	332						6,280	9,197	
Baños agotados de desengrasado (Kg)						870							24,100	
Baños agotados de pasivado (Kg)						900							24,931	
Totales	12,409	76,868	17,082	21,748	14,275	11,722	10,232							

- (E) Dangerous waste eliminated (not generated)
- (P) Occasional dangerous waste (occasionally generated, only once)

RESIDUOS TOXICOS Y PELIGROSOS- AÑO 2003 (10 Tm)

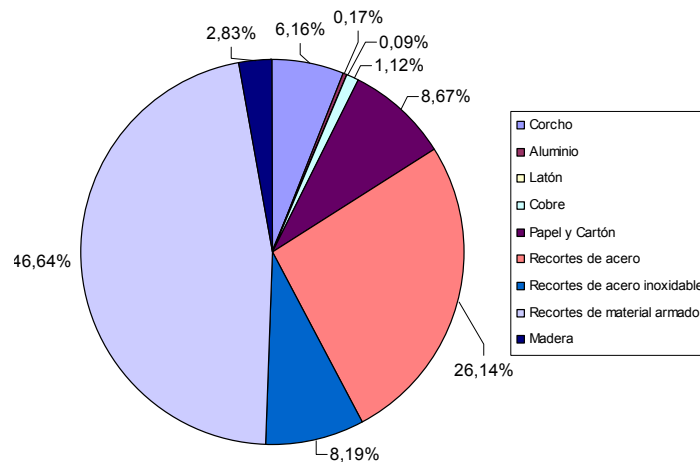


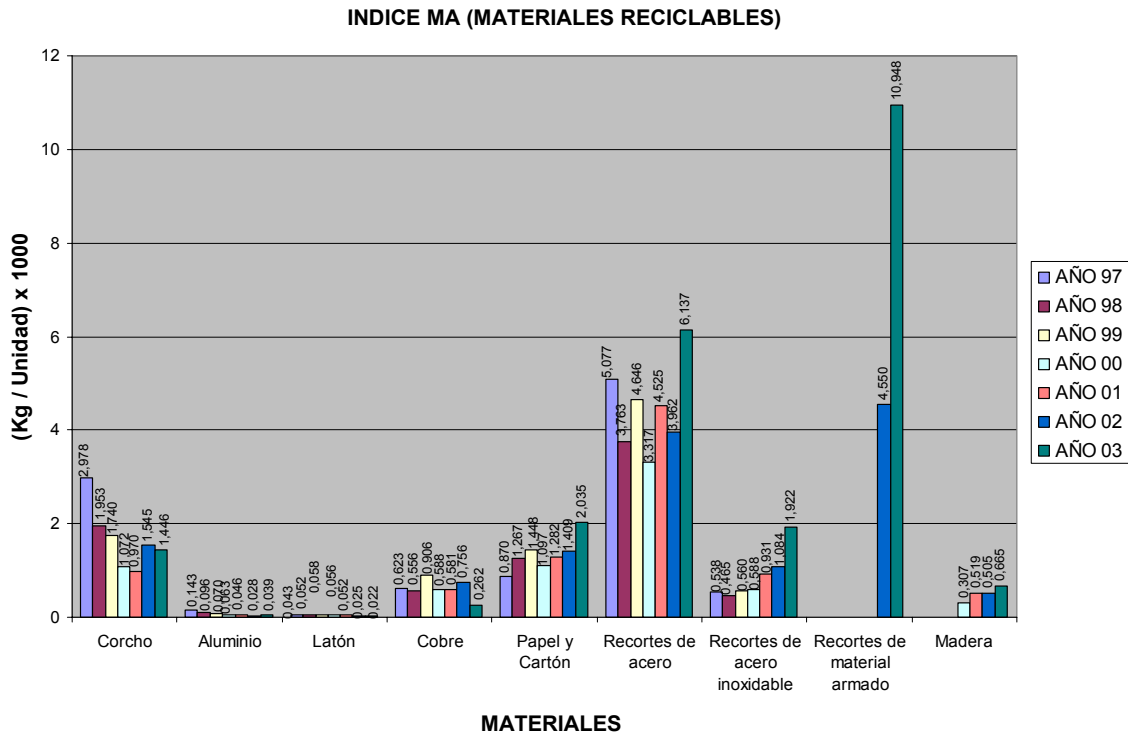
Furthermore, 8.5 Kg of cytostatic and specific sanitary waste from the infirmary and medical service. This waste is collected by the authorized agent.

As part of the production process, some types of waste are generated that can be externally recycled to re-enter the process as raw materials.

MATERIALES RECICLABLES														
MATERIAL	AÑO 97	AÑO 98	AÑO 99	AÑO 00	AÑO 01	AÑO 02	AÑO 03	INDICE 97	INDICE 98	INDICE 99	INDICE 00	INDICE 01	INDICE 02	INDICE 03
Corcho (Kg)	119.500	109.969	92.736	72.800	46.663	68.889	52.195	2,978	1,953	1,740	1,072	0,970	1,545	1,446
Aluminio (Kg)	5.752	5.392	3.709	4.277	2.214	1.241	1405	0,143	0,096	0,070	0,063	0,046	0,028	0,039
Latón (Kg)	1.734	2.920	3.097	3.826	2.503	1.122	777	0,043	0,052	0,058	0,056	0,052	0,025	0,022
Cobre (Kg)	25.015	31.297	48.290	39.935	27.944	33.696	9.454	0,623	0,556	0,906	0,588	0,581	0,756	0,262
Cartón (Kg)	34.920	71.380	77.200	74.460	61.660	62.840	73.480	0,870	1,267	1,448	1,097	1,282	1,409	2,035
Recortes de acero (Kg)	203.700	211.910	247.620	225.220	217.640	176.640	221.550	5,077	3,763	4,646	3,317	4,525	3,962	6,137
Recortes de acero inoxidable (Kg)	21.599	26.163	29.842	39.922	44.801	48.337	69.394	0,538	0,465	0,560	0,588	0,931	1,084	1,922
Recortes de material armado (Kg)	0	0	0	0	0	202.850	395.230						4,550	10,948
Madera (Kg)	0	0	0	20.810	24.960	22.500	24.000				0,307	0,519	0,505	0,665
Totales	412.220	459.031	502.494	481.250	428.385	618.115	847.485							

MATERIALES RECICLABLES - AÑO 2003 (839 Tm)



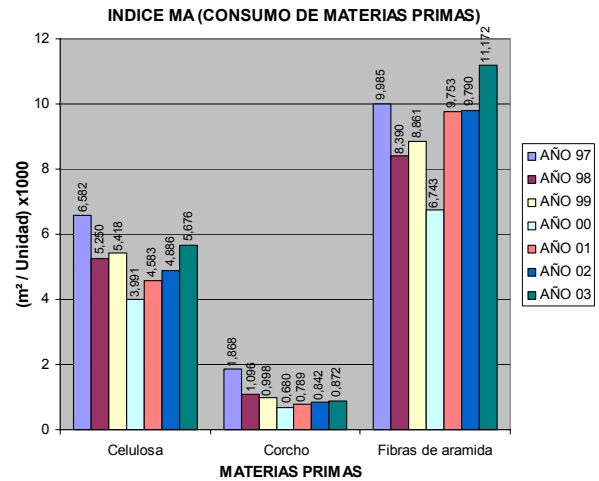
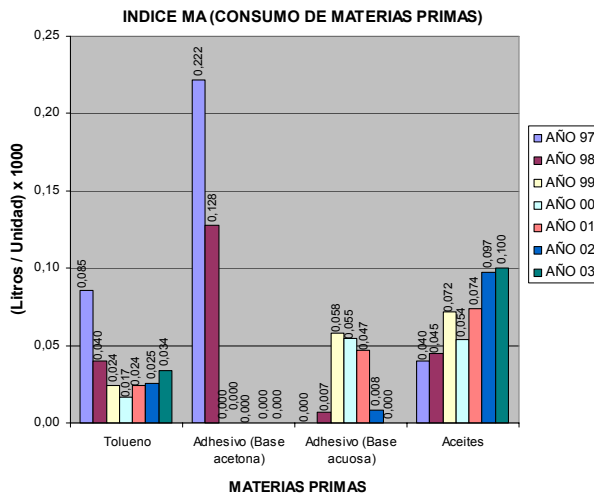
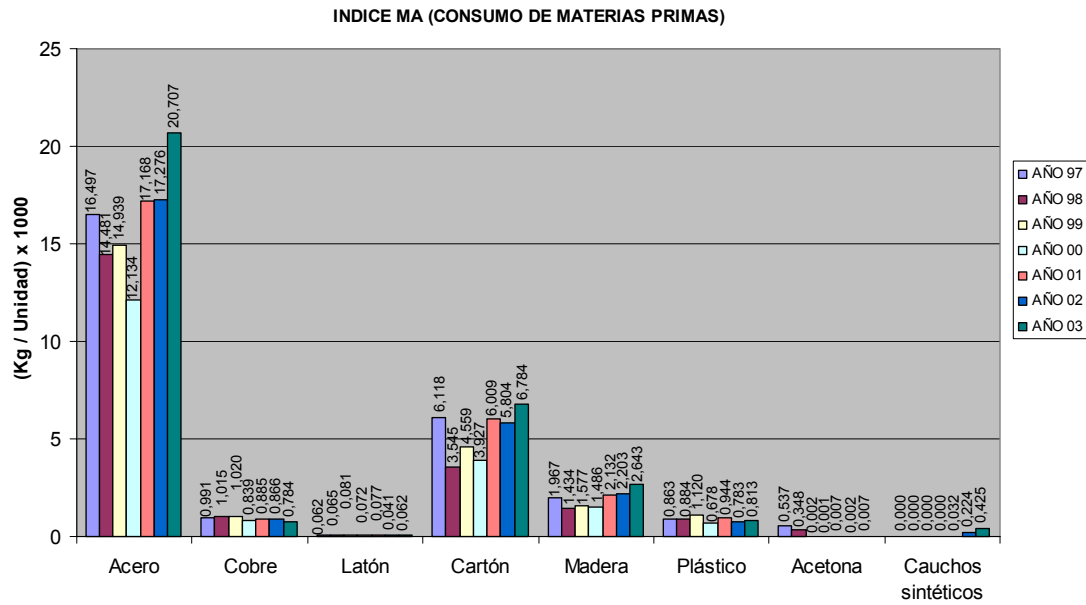


Consumption of raw materials, power and water

Raw materials

The consumed quantities of the main materials used as raw materials by Dana Automoción, S.A. – Industrias Serva and their corresponding environmental rates ((consumption (m², kg, L) / unit) x 1000) in the last six years are shown in the following table:

CONSUMO MATERIAS PRIMAS														
MATERIAL	AÑO 97	AÑO 98	AÑO 99	AÑO 00	AÑO 01	AÑO 02	AÑO 03	INDICE 97	INDICE 98	INDICE 99	INDICE 00	INDICE 01	INDICE 02	INDICE 03
Celulosa (m ²)	264.095	295.688	288.786	270.960	220.440	217.832	204.913	6,582	5,250	5,418	3,991	4,583	4,886	5,676
Corcho (m ²)	74.932	61.737	53.191	46.154	37.928	37.544	31.484	1,868	1,096	0,998	0,680	0,789	0,842	0,872
Fibras (m ²)	400.624	472.540	472.319	457.773	469.098	436.516	403.301	9,985	8,390	8,861	6,743	9,753	9,790	11,172
Acero (Kg)	661.919	815.580	796.271	823.783	825.691	770.276	747.520	16,497	14,481	14,939	12,134	17,168	17,276	20,707
Cobre (Kg)	39.778	57.192	54.365	56.990	42.570	38.603	28.302	0,991	1,015	1,020	0,839	0,885	0,866	0,784
Latón (Kg)	2.506	3.682	4.343	4.903	3.727	1.840	2.248	0,062	0,065	0,081	0,072	0,077	0,041	0,062
Cartón (Kg)	245.493	199.680	243.002	266.615	289.028	258.793	244.888	6,118	3,545	4,559	3,927	6,009	5,804	6,784
Madera (Kg)	78.925	80.748	84.058	100.913	102.556	98.247	95.413	1,967	1,434	1,577	1,486	2,132	2,203	2,643
Plástico (Kg)	34.640	49.805	59.681	46.044	45.399	34.920	29.363	0,863	0,884	1,120	0,678	0,944	0,783	0,813
Acetona (Kg)	21.547	19.578	132	75	320	75	250	0,537	0,348	0,002	0,001	0,007	0,002	0,007
Caucho sintético (Kg)	0	0	0	0	1.561	9.995	15.345	0,000	0,000	0,000	0,000	0,032	0,224	0,425
Tolueno (L)	3.425	2.255	1.272	1.125	1.150	1.125	1.225	0,085	0,040	0,024	0,017	0,024	0,025	0,034
Adhesivos (Base acetona) (L)	8.900	7.200	0	0	0	0	0	0,222	0,128	0,000	0,000	0,000	0,000	0,000
Adhesivos (Base acuosa) (L)	0	376	3.108	3.704	2.271	375	0	0,000	0,007	0,058	0,055	0,047	0,008	0,000
Aceites (L)	1.615	2.543	3.840	3.650	3.555	4.328	3.623	0,040	0,045	0,072	0,054	0,074	0,097	0,100

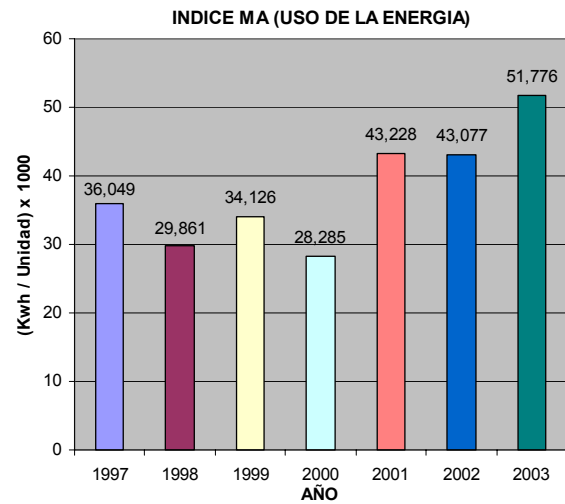
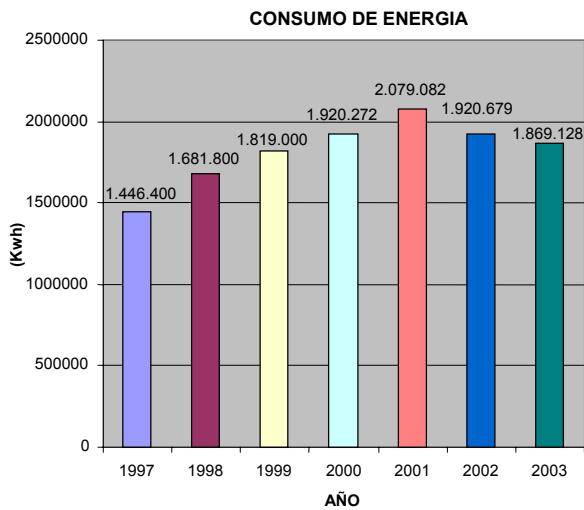


Power consumption

We are giving below the consumption of diesel oil and electric power in the last six years, as well as the corresponding environmental rates:

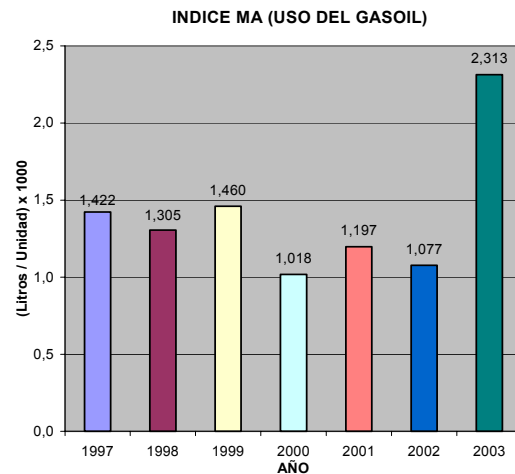
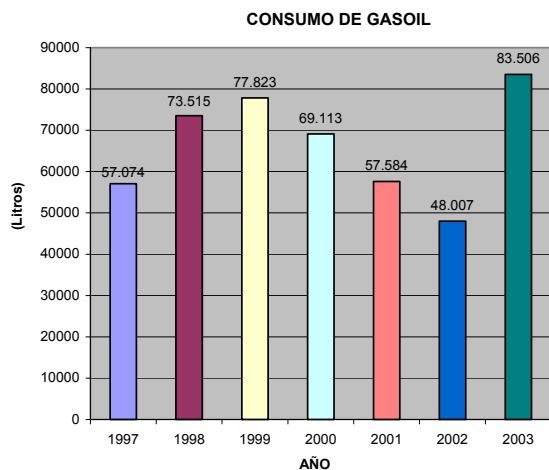
In regard to electric power consumption, there is a 2.684% reduction (-51 551 Kwh) if compared to 2002. The main reason for it is the reduction from two shifts to one shift during the months of July and August.

CONSUMO DE ENERGIA (Kwh)		
AÑO	CONSUMO	INDICE (Kwh/Unidad)x1000
1997	1.446.400	36,049
1998	1.681.800	29,861
1999	1.819.000	34,126
2000	1.920.272	28,285
2001	2.079.082	43,228
2002	1.920.679	43,007
2003	1.869.128	51,776



Concerning the consumption of diesel oil C used in the heating boilers, there is an increase of +73.945%. This is due to the fact that 35 002 L of diesel oil were put into the tanks in the months of November and December of 2003, but they were actually used by early 2004.

CONSUMO GASOIL (L)		
AÑO	CONSUMO	INDICE (L/Unidad)x1000
1997	57.074	1,422
1998	73.515	1,305
1999	77.823	1,460
2000	69.113	1,018
2001	57.584	1,197
2002	48.007	1,077
2003	83.506	2,313

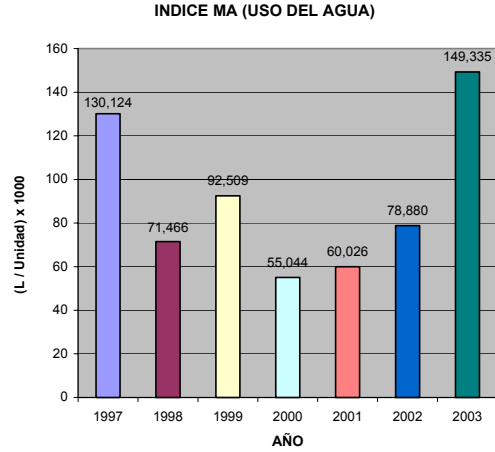
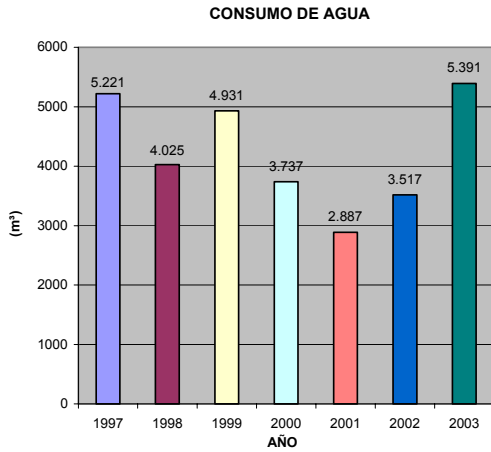


Water consumption

We are giving below the consumption of water in the last six years, as well as the corresponding environmental rates:

There is an increase of consumption of 1874 m3, which means +53.284% in regard to 2002. This increase is due to a leak that was identified and corrected by end December by the Maintenance Dpt.

CONSUMO DE AGUA (m³)		
AÑO	CONSUMO	INDICE (L/Unidad)x1000
1997	5.221	130,124
1998	4.025	71,466
1999	4.931	92,509
2000	3.737	55,044
2001	2.887	60,026
2002	3.517	78,880
2003	5.391	149,335



ENVIRONMENTAL VERIFIER

DECLARACIÓN MEDIOAMBIENTAL VALIDADA POR

AENOR Asociación Española de Normalización y Certificación

DE ACUERDO AL REGLAMENTO Nº 761/2001
CON FECHA:

COMO VERIFICADOR ACREDITADO POR ENAC CON
Nº 01/VMA/001/96

Firma y sello:

D. Ramón NAZ PAJARES
Director General de AENOR

