Final 4

NTP Study Number:	C10188
Lock Date:	07/15/2015
Cage Range:	ALL
Date Range:	ALL
Reasons For Removal:	ALL
Removal Date Range:	ALL
Treatment Groups:	Include ALL
Study Gender:	Both
TDMSE Version:	3.0.2.3_002
PWG Approval Date:	NONE

HARLAN SPRAGUE DAWLEY RATS MALE **0 ppm Male**																										
DAY ON TEST	0696	0731	0729	0729	0540	0547	0732	0732	0657	0732	0729	0530	0336	0731	0732	0730	0723	0608	0729	0642	0227	0476	0579	0729	0577	
ANIMAL ID	00001	00002	00003	00004	00005	00006	00007	00008	00009	00010	00011	00012	00013	00014	00015	00016	00017	00018	00019	00020	00021	00022	00023	00024	00025	**males (cont...)**
ALIMENTARY SYSTEM																										
Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	
Polyarteritis Nodosa								1		2																
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hyperplasia, Lymphocyte								2																		
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hyperplasia, Lymphocyte							2																	1		
Parasite Metazoan									X						X		X									
Polyarteritis Nodosa		2																								
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Artery, Mineral																										
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Artery, Mineral																										
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	
Artery, Mineral																										
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Basophilic Focus																										
Clear Cell Focus		X	X	X			X	X	X		X			X					X					X		
Degeneration, Cystic																										
Eosinophilic Focus			X																							
Necrosis																							2		1	

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1-4 .. Lesion qualified as:
1) Minimal 3) Moderate
2) Mild 4) Marked

HARLAN SPRAGUE DAWLEY RATS MALE

0 ppm Male

DAY ON TEST	0696	0731	0729	0729	0540	0547	0732	0732	0657	0732	0729	0530	0336	0731	0732	0730	0723	0608	0729	0642	0227	0476	0579	0729	0577	males (cont...)
ANIMAL ID	0001	0002	0003	0004	0005	0006	0007	0008	0009	0010	0011	0012	0013	0014	0015	0016	0017	0018	0019	0020	0021	0022	0023	0024	0025	
Bile Duct, Dilation																										
Bile Duct, Hyperplasia				2			1	2							1		1		1	1						
Mesentery																	+						+			
Polyarteritis Nodosa																	4									
Artery, Mineral																							2			
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Basophilic Focus																										
Polyarteritis Nodosa		2			1												2		1		1	1	1			
Acinus, Atrophy																								1		
Acinus, Hyperplasia	4	4		3				3			4													1		
Artery, Mineral																						1				
Artery, Necrosis																	2									
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Polyarteritis Nodosa																										
Artery, Mineral																										
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Inflammation, Chronic																										
Inflammation, Chronic Active	2					1				1																
Mineral																						1	2			
Polyarteritis Nodosa																										
Ulcer						1																				
Artery, Mineral																										
Epithelium, Hyperplasia	2									2																
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Inflammation, Chronic Active										2																

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HARLAN SPRAGUE DAWLEY RATS MALE																										
0 ppm Male ANIMAL ID	0001	0002	0003	0004	0005	0006	0007	0008	0009	0010	0011	0012	0013	0014	0015	0016	0017	0018	0019	0020	0021	0022	0023	0024	0025	**males (cont...)**
Mineral													1									2	4			
Artery, Mineral																										
CARDIOVASCULAR SYSTEM																										
Blood Vessel	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Mineral																						1	3			
Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Cardiomyopathy	1	1							1	2				1	1	1	2	1	1			2	3	2		
Mineral																						2	4			
Polyarteritis Nodosa											1															
Artery, Mineral																						2				
Atrium, Thrombus																										
Schwann Cell, Hyperplasia																										
Valve, Degeneration		1																								
Valve, Inflammation, Chronic																										
ENDOCRINE SYSTEM																										
Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Degeneration, Cystic																										
Hyperplasia, Focal					1																					
Hypertrophy, Focal			1						1											2					1	
Necrosis	2																									
Bilateral, Hyperplasia, Focal																										
Bilateral, Hypertrophy, Focal																								1		
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hyperplasia, Focal						1		2											1			1	1	2		

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HARLAN SPRAGUE DAWLEY RATS MALE 0 ppm Male																										
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ANIMAL ID	00001	00002	00003	00004	00005	00006	00007	00008	00009	00010	00011	00012	00013	00014	00015	00016	00017	00018	00019	00020	00021	00022	00023	00024	00025	
Bilateral, Hyperplasia, Focal									1																	
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hyperplasia				2																2						
Parathyroid Gland	+	M	+	M	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	M	+	+	
Hyperplasia, Diffuse																										
Hypertrophy, Focal																	1									
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Pars Distalis, Hyperplasia		1					1	1			1								2					3		
Pars Distalis, Hypertrophy								1																		
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
C-cell, Hyperplasia												2		2					3					4		
GENERAL BODY SYSTEM																										
NONE																										
GENITAL SYSTEM																										
Epididymis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Inflammation, Chronic Active																										
Bilateral, Hypospermia																										
Bilateral, Polyarteritis Nodosa														2												
Bilateral, Duct, Exfoliated Germ Cell	2																					1	3			
Preputial Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Inflammation, Suppurative																										

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HARLAN SPRAGUE DAWLEY RATS MALE 0 ppm Male																										
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ANIMAL ID	00001	00002	00003	00004	00005	00006	00007	00008	00009	00010	00011	00012	00013	00014	00015	00016	00017	00018	00019	00020	00021	00022	00023	00024	00025	males (cont...)
Inflammation, Chronic Active																										
Prostate	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Artery, Mineral																										
Dorsal, Lateral, Inflammation, Acute																				1						
Dorsal, Lateral, Inflammation, Chronic Active																										
Epithelium, Ventral, Hyperplasia	3																									
Ventral, Hemorrhage																		4								
Ventral, Inflammation, Acute													2					4								
Ventral, Inflammation, Chronic							1																			
Ventral, Inflammation, Chronic Active															1											
Seminal Vesicle	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Bilateral, Inflammation, Acute													2													
Bilateral, Inflammation, Chronic Active																										
Testis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Degeneration																										
Edema								1											1	1					1	
Polyarteritis Nodosa					1																					
Bilateral, Edema			1	1	1		1		1		1													1		
Bilateral, Polyarteritis Nodosa	1	3								3				2	2	1	3					2	2			
Bilateral, Germinal Epithelium, Degeneration		1				1								2			1					1	1			
Germinal Epithelium, Degeneration																				1				1		
Interstitial Cell, Hyperplasia, Focal			2					1																		
Tunic, Hyperplasia, Mesothelium																										
HEMATOPOIETIC SYSTEM																										
Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	

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Hypercellularity	2			1	3	3						4	2	1			1	2				1	1		3	
Lymph Node																										
Lumbar, Infiltration Cellular, Plasma Cell																										
Mediastinal, Hemorrhage																										
Pancreatic, Hyperplasia, Lymphocyte																										
Lymph Node, Mandibular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Atrophy																										
Infiltration Cellular, Plasma Cell																										
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	
Atrophy																										
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Extramedullary Hematopoiesis		2	1	2		2	1	2	3	1	2	3	1	2	1	1	1		2	1	1	2		2	1	
Hyperplasia, Histiocytic							2																			
Pigment		2	2	1	2		2	2	2	2	2		2	1	1	2	2	2	1	2	2	2	2	2	3	
White Pulp, Atrophy	2												4			1	2	3		2		2	3			
White Pulp, Hyperplasia									2																	
Thymus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Atrophy	4	2	2	3	3	4	2	2	3	3	1	3	4		2	2	1	4	2	2	1	4	4	2	3	
Polyarteritis Nodosa																									1	
INTEGUMENTARY SYSTEM																										
Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hyperplasia																										
Artery, Mineral																										

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HARLAN SPRAGUE DAWLEY RATS MALE **0 ppm Male**																										
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Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Cyst Epithelial Inclusion							X			X																
Inflammation, Suppurative							4																			
Inflammation, Chronic Active									3						3											
Ulcer									2																	
Epidermis, Hyperplasia									2																	
MUSCULOSKELETAL SYSTEM																										
Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Cartilage, Joint, Degeneration																									1	
Skeletal Muscle													+													
Artery, Mineral																										
NERVOUS SYSTEM																										
Brain	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Necrosis																										
Peripheral Nerve																										
Axon, Degeneration																										
Ganglion, Vacuolization Cytoplasmic																										
Spinal Cord																										
Nerve, Degeneration																										
RESPIRATORY SYSTEM																										
Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	

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HARLAN SPRAGUE DAWLEY RATS MALE

0 ppm Male

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ANIMAL ID	0001	0002	0003	0004	0005	0006	0007	0008	0009	0010	0011	0012	0013	0014	0015	0016	0017	0018	0019	0020	0021	0022	0023	0024	0025	
Fibrosis										2																
Hemorrhage																							2			
Infiltration Cellular, Histiocyte	1	1	1	1	1	1	1		3	3			1			1	2	1	2		2		3		1	
Inflammation, Granulomatous				1	1				1																	
Inflammation, Acute	3																									
Inflammation, Chronic Active		1								2		1														
Metaplasia, Osseous																		2								
Mineral																										
Artery, Mineral																							2		2	
Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Foreign Body																		X								
Inflammation, Suppurative	4														1								3			
Inflammation, Acute			1				1										1					1				
Glands, Respiratory Epithelium, Dilation							1																			
Olfactory Epithelium, Accumulation, Hyaline Droplet		2	2	3	1	3	1		3	1		1		3	1		1		2	2					2	
Olfactory Epithelium, Metaplasia, Respiratory								2									1	1								
Respiratory Epithelium, Accumulation, Hyaline Droplet				1																						
Respiratory Epithelium, Hyperplasia																	1									
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	

SPECIAL SENSES SYSTEM

Eye	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Bilateral, Cornea, Inflammation, Acute										1				1		1									1	
Choroid, Hyperplasia																										
Cornea, Inflammation, Acute																						1				

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ANIMAL ID	0001	0002	0003	0004	0005	0006	0007	0008	0009	0010	0011	0012	0013	0014	0015	0016	0017	0018	0019	0020	0021	0022	0023	0024	0025	
Iris, Inflammation, Acute																						1				
Lens, Cataract																										
Retina, Degeneration																										
Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Degeneration				1																						
Zymbal's Gland																									+	
URINARY SYSTEM																										
Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Infarct	1																									
Inflammation, Acute																		2								
Mineral																										
Nephropathy, Chronic Progressive	3	4	2	3	4	3	2	3	2	4	2	1	1	4	4	3	4	1	4	2		4	4	2	3	
Artery, Mineral																							2			
Bilateral, Pelvis, Dilation													2													
Epithelium, Papilla, Hyperplasia					1					1									1				1			
Pelvis, Inflammation, Suppurative																										
Pelvis, Inflammation, Acute																										
Renal Tubule, Cyst		X												X			X		X							
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Inflammation, Acute													1													
Inflammation, Chronic Active																										
Artery, Mineral																										

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DAY ON TEST	0547	0729	0328	0730	0730	0610	0730	0730	0593	0732	0732	0731	0731	0708	0732	0731	0731	0730	0685	0598	0673	0436	0577	0707	0597	
ANIMAL ID	00026	00027	00028	00029	00030	00031	00032	00033	00034	00035	00036	00037	00038	00039	00040	00041	00042	00043	00044	00045	00046	00047	00048	00049	00050	* TOTALS
ALIMENTARY SYSTEM																										
Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**49**
Polyarteritis Nodosa																										**2 1.5**
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Hyperplasia, Lymphocyte																										**1 2.0**
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Hyperplasia, Lymphocyte																										**2 1.5**
Parasite Metazoan																							X			**4**
Polyarteritis Nodosa																										**1 2.0**
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Artery, Mineral																									2	**1 2.0**
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Artery, Mineral																									2	**1 2.0**
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**49**
Artery, Mineral																									2	**1 2.0**
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Basophilic Focus														X												**1**
Clear Cell Focus		X		X	X		X	X	X	X	X	X	X		X	X	X						X			**24**
Degeneration, Cystic																		1								**1 1.0**
Eosinophilic Focus										X				X		X										**4**
Necrosis							1																			**3 1.3**

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HARLAN SPRAGUE DAWLEY RATS MALE

0 ppm Male

DAY ON TEST	0547	0729	0328	0730	0730	0610	0730	0730	0593	0732	0732	0731	0731	0708	0732	0731	0731	0730	0685	0598	0673	0436	0577	0707	0597		
ANIMAL ID	0026	0027	0028	0029	0030	0031	0032	0033	0034	0035	0036	0037	0038	0039	0040	0041	0042	0043	0044	0045	0046	0047	0048	0049	0050	* TOTALS	
Bile Duct, Dilation															2											**1**	**2.0**
Bile Duct, Hyperplasia				1				1			1	1			1									1		**13**	**1.2**
Mesentery																								+	+	**4**	
Polyarteritis Nodosa																										**1**	**4.0**
Artery, Mineral																								2	2	**3**	**2.0**
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Basophilic Focus				X											X											**2**	
Polyarteritis Nodosa					1								1					2								**10**	**1.3**
Acinus, Atrophy																										**1**	**1.0**
Acinus, Hyperplasia		4								1		4	4		4	1	3									**13**	**3.1**
Artery, Mineral																										**1**	**1.0**
Artery, Necrosis																										**1**	**2.0**
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Polyarteritis Nodosa																									2	**1**	**2.0**
Artery, Mineral	2																								2	**2**	**2.0**
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Inflammation, Chronic																1								1		**2**	**1.0**
Inflammation, Chronic Active																										**3**	**1.3**
Mineral																										**2**	**1.5**
Polyarteritis Nodosa																		2								**1**	**2.0**
Ulcer																										**1**	**1.0**
Artery, Mineral	1																									**1**	**1.0**
Epithelium, Hyperplasia																								2		**3**	**2.0**
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Inflammation, Chronic Active																										**1**	**2.0**

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HARLAN SPRAGUE DAWLEY RATS MALE 0 ppm Male																										
DAY ON TEST	547	729	328	730	730	610	730	730	593	732	732	731	731	708	732	731	731	730	685	598	673	436	577	707	597	
ANIMAL ID	0026	0027	0028	0029	0030	0031	0032	0033	0034	0035	0036	0037	0038	0039	0040	0041	0042	0043	0044	0045	0046	0047	0048	0049	0050	* TOTALS
Mineral			4																					3	3	**6 2.8**
Artery, Mineral	1																									**1 1.0**
CARDIOVASCULAR SYSTEM																										
Blood Vessel	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Mineral	4		3																	1				2	3	**7 2.4**
Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Cardiomyopathy	3	1	1		1			1				1			1		1	2	2	2	1			3	3	**27 1.6**
Mineral	1																							2	1	**5 2.0**
Polyarteritis Nodosa																		2								**2 1.5**
Artery, Mineral	3		3																						2	**4 2.5**
Atrium, Thrombus																		1								**1 1.0**
Schwann Cell, Hyperplasia																							2			**1 2.0**
Valve, Degeneration																										**1 1.0**
Valve, Inflammation, Chronic																1										**1 1.0**
ENDOCRINE SYSTEM																										
Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Degeneration, Cystic																	1									**1 1.0**
Hyperplasia, Focal					1										2	1										**4 1.3**
Hypertrophy, Focal										1													1			**6 1.2**
Necrosis			1																						1	**3 1.3**
Bilateral, Hyperplasia, Focal																					1					**1 1.0**
Bilateral, Hypertrophy, Focal																										**1 1.0**
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Hyperplasia, Focal					3							2														**8 1.6**

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HARLAN SPRAGUE DAWLEY RATS MALE 0 ppm Male																										
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ANIMAL ID	00026	00027	00028	00029	00030	00031	00032	00033	00034	00035	00036	00037	00038	00039	00040	00041	00042	00043	00044	00045	00046	00047	00048	00049	00050	* TOTALS
Bilateral, Hyperplasia, Focal																								2		**2 1.5**
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Hyperplasia								1	3																	**4 2.0**
Parathyroid Gland	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	M	+	M	+	+	M	+	+	**42**
Hyperplasia, Diffuse																								3	2	**2 2.5**
Hypertrophy, Focal																										**1 1.0**
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Pars Distalis, Hyperplasia				1	4	2	2	3	1	2	2	3	1		3			1						1		**19 1.8**
Pars Distalis, Hypertrophy					1												1									**3 1.0**
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
C-cell, Hyperplasia														1												**5 2.4**
GENERAL BODY SYSTEM																										
NONE																										
GENITAL SYSTEM																										
Epididymis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	**49**
Inflammation, Chronic Active																								1		**1 1.0**
Bilateral, Hypospermia								3	2													1			3	**4 2.3**
Bilateral, Polyarteritis Nodosa					1																					**2 1.5**
Bilateral, Duct, Exfoliated Germ Cell	3																							4	2	**6 2.5**
Preputial Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Inflammation, Suppurative								4																		**1 4.0**

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HARLAN SPRAGUE DAWLEY RATS MALE

0 ppm Male

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Inflammation, Chronic Active							4																			**1 4.0**
Prostate	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Artery, Mineral																									2	**1 2.0**
Dorsal, Lateral, Inflammation, Acute																										**1 1.0**
Dorsal, Lateral, Inflammation, Chronic Active																			4							**1 4.0**
Epithelium, Ventral, Hyperplasia								2			3		1													**4 2.3**
Ventral, Hemorrhage																										**1 4.0**
Ventral, Inflammation, Acute														1												**3 2.3**
Ventral, Inflammation, Chronic																										**1 1.0**
Ventral, Inflammation, Chronic Active																			4	1						**3 2.0**
Seminal Vesicle	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Bilateral, Inflammation, Acute														2												**2 2.0**
Bilateral, Inflammation, Chronic Active																			2							**1 2.0**
Testis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	**49**
Degeneration																									3	**1 3.0**
Edema					1			3	3													2				**8 1.6**
Polyarteritis Nodosa																										**1 1.0**
Bilateral, Edema		1					1			1		1											1			**12 1.0**
Bilateral, Polyarteritis Nodosa	2				1								1	1		1		2	2					2	3	**18 1.9**
Bilateral, Germinal Epithelium, Degeneration	2							3										1							3	**10 1.6**
Germinal Epithelium, Degeneration									3					1			1					3				**6 1.7**
Interstitial Cell, Hyperplasia, Focal														2											3	**4 2.0**
Tunic, Hyperplasia, Mesothelium										1																**1 1.0**

HEMATOPOIETIC SYSTEM

Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**

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HARLAN SPRAGUE DAWLEY RATS MALE

0 ppm Male

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ANIMAL ID	0026	0027	0028	0029	0030	0031	0032	0033	0034	0035	0036	0037	0038	0039	0040	0041	0042	0043	0044	0045	0046	0047	0048	0049	0050	* TOTALS	
Hypercellularity			3	3					4		1			4	4	1		1	1							**21**	**2.2**
Lymph Node				+																		+				**2**	
Lumbar, Infiltration Cellular, Plasma Cell				1																						**1**	**1.0**
Mediastinal, Hemorrhage																						3				**1**	**3.0**
Pancreatic, Hyperplasia, Lymphocyte				2																						**1**	**2.0**
Lymph Node, Mandibular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Atrophy	2																									**1**	**2.0**
Infiltration Cellular, Plasma Cell														2												**1**	**2.0**
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**49**	
Atrophy	3		2																						1	**3**	**2.0**
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Extramedullary Hematopoiesis		2	3	3	1	2	2		3	1	2	1	2	4	3	2	2	1	1	1	1	1	2			**42**	**1.8**
Hyperplasia, Histiocytic																										**1**	**2.0**
Pigment	3	2			2	2	1			2	1	1	1			2	1	1	2	1	3	2	2	3	2	**41**	**1.8**
White Pulp, Atrophy	4																			1		1		4	2	**13**	**2.4**
White Pulp, Hyperplasia																										**1**	**2.0**
Thymus	M	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	**47**	
Atrophy		2		2	2	2	2		3	2	2	2	2	3	3	2	2	1	2	2	2	3	1	4		**45**	**2.4**
Polyarteritis Nodosa																										**1**	**1.0**

INTEGUMENTARY SYSTEM

Mammary Gland	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**49**	
Hyperplasia												1														**1**	**1.0**
Artery, Mineral	2																									**1**	**2.0**

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HARLAN SPRAGUE DAWLEY RATS MALE

0 ppm Male

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Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Cyst Epithelial Inclusion		X																								**3**	
Inflammation, Suppurative																										**1**	**4.0**
Inflammation, Chronic Active														4												**3**	**3.3**
Ulcer																										**1**	**2.0**
Epidermis, Hyperplasia																										**1**	**2.0**
MUSCULOSKELETAL SYSTEM																											
Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Cartilage, Joint, Degeneration																										**1**	**1.0**
Skeletal Muscle																								+		**2**	
Artery, Mineral																								2		**1**	**2.0**
NERVOUS SYSTEM																											
Brain	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Necrosis																								2		**1**	**2.0**
Peripheral Nerve						+												+		+						**3**	
Axon, Degeneration						2																				**1**	**2.0**
Ganglion, Vacuolization Cytoplasmic																		1		1						**2**	**1.0**
Spinal Cord						+																				**1**	
Nerve, Degeneration						1																				**1**	**1.0**
RESPIRATORY SYSTEM																											
Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	

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Fibrosis																										**1**	**2.0**
Hemorrhage																										**1**	**2.0**
Infiltration Cellular, Histiocyte	1	3	1		2		3	1		1		1			1		1	4	2		2	1	3	1	1	**34**	**1.6**
Inflammation, Granulomatous		1																								**4**	**1.0**
Inflammation, Acute																										**1**	**3.0**
Inflammation, Chronic Active					1										1			2	1							**7**	**1.3**
Metaplasia, Osseous																										**1**	**2.0**
Mineral																								1	1	**2**	**1.0**
Artery, Mineral	2		3																							**4**	**2.3**
Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Foreign Body																										**1**	
Inflammation, Suppurative			2																							**4**	**2.5**
Inflammation, Acute	1				1			1																		**7**	**1.0**
Glands, Respiratory Epithelium, Dilation																										**1**	**1.0**
Olfactory Epithelium, Accumulation, Hyaline Droplet		1		2	2	1	2	1				2	4	1	3	2	1	1	2	1	1	1	2			**33**	**1.8**
Olfactory Epithelium, Metaplasia, Respiratory																										**3**	**1.3**
Respiratory Epithelium, Accumulation, Hyaline Droplet							1																			**2**	**1.0**
Respiratory Epithelium, Hyperplasia																										**1**	**1.0**
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	

SPECIAL SENSES SYSTEM

Eye	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Bilateral, Cornea, Inflammation, Acute																										**4**	**1.0**
Choroid, Hyperplasia																		2								**1**	**2.0**
Cornea, Inflammation, Acute												2		2							1				2	**5**	**1.6**

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Iris, Inflammation, Acute																										**1 1.0**
Lens, Cataract												4														**1 4.0**
Retina, Degeneration												4														**1 4.0**
Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Degeneration																										**1 1.0**
Zymbal's Gland																										**1**
URINARY SYSTEM																										
Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Infarct																	1									**2 1.0**
Inflammation, Acute																										**1 2.0**
Mineral			3																							**1 3.0**
Nephropathy, Chronic Progressive	4	3	1	3	3	2	1	2	1	3	2	3	3	4	1	2	3	4	4	4	1	1	1	4	4	**49 2.7**
Artery, Mineral	2																								2	**3 2.0**
Bilateral, Pelvis, Dilation																										**1 2.0**
Epithelium, Papilla, Hyperplasia	2													2				1						1	2	**9 1.3**
Pelvis, Inflammation, Suppurative																			2							**1 2.0**
Pelvis, Inflammation, Acute							1																			**1 1.0**
Renal Tubule, Cyst											X							X	X					X	X	**9**
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Inflammation, Acute																										**1 1.0**
Inflammation, Chronic Active																			1							**1 1.0**
Artery, Mineral																								2		**1 2.0**

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
\+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue
M .. Missing tissue
A .. Autolysis precludes evaluation
BLANK .. Not examined microscopically
1-4 .. Lesion qualified as:
1) Minimal 3) Moderate
2) Mild 4) Marked

DAY ON TEST	0314	0732	0486	0732	0545	0546	0667	0729	0729	0638	0731	0731	0730	0631	0729	0729	0729	0729	0708	0663	0731	0731	0729	0673	0731	males (cont...)
HARLAN SPRAGUE DAWLEY RATS MALE																										
300 ppm Male ANIMAL ID	00051	00052	00053	00054	00055	00056	00057	00058	00059	00060	00061	00062	00063	00064	00065	00066	00067	00068	00069	00070	00071	00072	00074	00075	00076	
ALIMENTARY SYSTEM																										
Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Inflammation, Chronic																			1							
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hyperplasia, Lymphocyte																				2						
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hyperplasia, Lymphocyte							1																			
Parasite Metazoan				X				X			X														X	
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Basophilic Focus										X																
Clear Cell Focus				X				X	X		X	X	X		X	X	X	X			X	X	X		X	
Degeneration, Cystic																										
Eosinophilic Focus			X																							
Extramedullary Hematopoiesis																	1			1						
Mixed Cell Focus																	X									
Necrosis	3										1												1			
Pigment																		1								

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
\+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue
M .. Missing tissue
A .. Autolysis precludes evaluation
BLANK .. Not examined microscopically
1-4 .. Lesion qualified as:
1) Minimal 3) Moderate
2) Mild 4) Marked

HARLAN SPRAGUE DAWLEY RATS MALE

300 ppm Male

DAY ON TEST	0314	0732	0486	0732	0545	0546	0667	0729	0729	0638	0731	0731	0730	0631	0729	0729	0729	0729	0708	0663	0731	0731	0729	0673	0731	males (cont...)
ANIMAL ID	00051	00052	00053	00054	00055	00056	00057	00058	00059	00060	00061	00062	00063	00064	00065	00066	00067	00068	00069	00070	00071	00072	00074	00075	00076	
Bile Duct, Hyperplasia						1				1		1	1	1	1	1		1					1			
Mesentery						+																				
Artery, Mineral																										
Oral Mucosa																										
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Basophilic Focus										X																
Polyarteritis Nodosa													1										2		2	
Acinus, Atrophy																									3	
Acinus, Hyperplasia							1									4	3		1				4			
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Inflammation, Chronic							3																			
Inflammation, Chronic Active																										
Mineral																										
Ulcer							2																			
Epithelium, Hyperplasia				1			2																			
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Erosion																										
Inflammation, Acute																										
Mineral						2														1						

CARDIOVASCULAR SYSTEM

Blood Vessel	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	

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+ .. Tissue examined microscopically
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BLANK .. Not examined microscopically
1-4 .. Lesion qualified as:
1) Minimal 3) Moderate
2) Mild 4) Marked

HARLAN SPRAGUE DAWLEY RATS MALE **300 ppm Male**																										
DAY ON TEST	0314	0732	0486	0732	0545	0546	0667	0729	0729	0638	0731	0731	0730	0631	0729	0729	0729	0729	0708	0663	0731	0731	0729	0673	0731	**males (cont...)**
ANIMAL ID	00051	00052	00053	00054	00055	00056	00057	00058	00059	00060	00061	00062	00063	00064	00065	00066	00067	00068	00069	00070	00071	00072	00074	00075	00076	
Dilation																										
Mineral																										
Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Cardiomyopathy	1			1			1		1	1	1	1		1	1			2	2	1			1		1	
Inflammation, Acute																										
Mineral																										
Necrosis																										
Polyarteritis Nodosa															1											
Artery, Mineral						1																				
Valve, Fibrosis										1								1								
ENDOCRINE SYSTEM																										
Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hyperplasia, Focal																						2			1	
Hypertrophy, Focal				1																						
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hyperplasia																										
Hyperplasia, Focal				1		3						1							1		1				1	
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hyperplasia										1												2				
Parathyroid Gland	+	+	+	M	+	+	+	M	+	+	M	M	+	+	M	+	+	+	M	M	M	M	+	+	M	
Bilateral, Hyperplasia, Diffuse																										
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Pars Distalis, Hyperplasia				1				4	1		1	3	3	1		2	1		1		2	4	1		1	

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
\+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue
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A .. Autolysis precludes evaluation
BLANK .. Not examined microscopically
1-4 .. Lesion qualified as:
1) Minimal 3) Moderate
2) Mild 4) Marked

HARLAN SPRAGUE DAWLEY RATS MALE **300 ppm Male**																										
DAY ON TEST	0314	0732	0486	0732	0545	0546	0667	0729	0729	0638	0731	0731	0730	0631	0729	0729	0729	0729	0708	0663	0731	0731	0729	0673	0731	
ANIMAL ID	00051	00052	00053	00054	00055	00056	00057	00058	00059	00060	00061	00062	00063	00064	00065	00066	00067	00068	00069	00070	00071	00072	00074	00075	00076	**males (cont...)**
Pars Distalis, Hypertrophy				1						1									1		1					
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
C-cell, Hyperplasia				4			2								2						1	3		1		
GENERAL BODY SYSTEM																										
NONE																										
GENITAL SYSTEM																										
Epididymis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Bilateral, Hypospermia				3													3				4	4				
Bilateral, Polyarteritis Nodosa																										
Bilateral, Duct, Exfoliated Germ Cell						2											2				2					
Preputial Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Inflammation, Suppurative																										
Prostate	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Dorsal, Epithelium, Lateral, Hyperplasia														3												
Dorsal, Lateral, Inflammation, Suppurative																			4							
Dorsal, Lateral, Inflammation, Chronic Active																		1						3		
Epithelium, Ventral, Hyperplasia				1												1										
Ventral, Inflammation, Suppurative						2													4							
Ventral, Inflammation, Chronic Active												1												3		
Seminal Vesicle	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Inflammation, Suppurative						2																				
Inflammation, Acute																										

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
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A .. Autolysis precludes evaluation
BLANK .. Not examined microscopically
1-4 .. Lesion qualified as:
1) Minimal 3) Moderate
2) Mild 4) Marked

DAY ON TEST	0314	0732	0486	0732	0545	0546	0667	0729	0729	0638	0731	0731	0730	0631	0729	0729	0729	0729	0708	0663	0731	0731	0729	0673	0731
HARLAN SPRAGUE DAWLEY RATS MALE **300 ppm Male** ANIMAL ID	00051	00052	00053	00054	00055	00056	00057	00058	00059	00060	00061	00062	00063	00064	00065	00066	00067	00068	00069	00070	00071	00072	00074	00075	00076
Bilateral, Inflammation, Suppurative																			2						
Testis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Edema									1								4					3			
Inflammation, Granulomatous																					2				
Bilateral, Edema				3				1		1	1	1				1					3			1	
Bilateral, Polyarteritis Nodosa			1	2					1		1										2				1
Bilateral, Germinal Epithelium, Degeneration				3		1	1					1									3				
Bilateral, Seminiferous Tubule, Mineral							1										1				1	2			
Germinal Epithelium, Degeneration		1	1								1			1		1	3	1				3	1		1
Interstitial Cell, Hyperplasia, Focal											1				2										
HEMATOPOIETIC SYSTEM																									
Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Congestion																									
Hypercellularity	1				2	3							1	2			2			4	2				1
Lymph Node							+																		
Deep Cervical, Hemorrhage							3																		
Lymph Node, Mandibular	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+
Atrophy						3																			
Inflammation, Suppurative																					4				
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Atrophy																			2						
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Extramedullary Hematopoiesis		2	1	2		1		2	1		2	1	1	2	2	1	3	2	1	3	2	1	2		2

males (cont...)

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
\+ .. Tissue examined microscopically
X .. Lesion present
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A .. Autolysis precludes evaluation
BLANK .. Not examined microscopically
1-4 .. Lesion qualified as:
1) Minimal 3) Moderate
2) Mild 4) Marked

HARLAN SPRAGUE DAWLEY RATS MALE 300 ppm Male																										
DAY ON TEST	0314	0732	0486	0732	0545	0546	0667	0729	0729	0638	0731	0731	0730	0631	0729	0729	0729	0729	0708	0663	0731	0731	0729	0673	0731	males (cont...)
ANIMAL ID	00051	00052	00053	00054	00055	00056	00057	00058	00059	00060	00061	00062	00063	00064	00065	00066	00067	00068	00069	00070	00071	00072	00074	00075	00076	
Pigment	2	2	1	1		2		2	1	2	1	1	1	1	2	2	1	1	3		1	2	2	3	2	
White Pulp, Atrophy	4		2			4													2							
Thymus	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	
Atrophy	1	3	2	2	2			2	2	3	1	2	2	4	2	3	2	2		3	2	2	2	3	3	
Ectopic Thyroid																										
INTEGUMENTARY SYSTEM																										
Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Cyst Epithelial Inclusion																										
Inflammation, Suppurative																										
Inflammation, Chronic																										
Inflammation, Chronic Active																										
Ulcer																										
MUSCULOSKELETAL SYSTEM																										
Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
NERVOUS SYSTEM																										
Brain	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Gliosis																		2								
Hemorrhage							2																			
Inflammation, Acute																										
Necrosis	4																									

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\+ .. Tissue examined microscopically
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M .. Missing tissue
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BLANK .. Not examined microscopically
1-4 .. Lesion qualified as:
1) Minimal 3) Moderate
2) Mild 4) Marked

HARLAN SPRAGUE DAWLEY RATS MALE 300 ppm Male																										
DAY ON TEST	0314	0732	0486	0732	0545	0546	0667	0729	0729	0638	0731	0731	0730	0631	0729	0729	0729	0729	0708	0663	0731	0731	0729	0673	0731	males (cont...)
ANIMAL ID	00051	00052	00053	00054	00055	00056	00057	00058	00059	00060	00061	00062	00063	00064	00065	00066	00067	00068	00069	00070	00071	00072	00074	00075	00076	
RESPIRATORY SYSTEM																										
Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Infiltration Cellular, Histiocyte		1	1		1	1		1		2		1	1	1	2	2			1	2	1	2			2	
Inflammation, Granulomatous													1							1						
Inflammation, Acute																	1									
Inflammation, Chronic Active																										
Mineral																										
Polyarteritis Nodosa																										
Thrombus																										
Alveolar Epithelium, Hyperplasia																										
Artery, Mineral																										
Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Inflammation, Suppurative							4					1												1		
Olfactory Epithelium, Accumulation, Hyaline Droplet	1		1	2	2				3	1	2	2	4	3	2	2		2	1	1	2	2	3	1	1	
Olfactory Epithelium, Metaplasia, Respiratory							2																			
Respiratory Epithelium, Accumulation, Hyaline Droplet														1												
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
SPECIAL SENSES SYSTEM																										
Eye	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Anterior Chamber, Inflammation, Acute							1																			
Anterior Chamber, Bilateral, Inflammation, Acute																										
Bilateral, Cornea, Inflammation, Acute																									3	

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
\+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue
M .. Missing tissue
A .. Autolysis precludes evaluation
BLANK .. Not examined microscopically
1-4 .. Lesion qualified as:
1) Minimal 3) Moderate
2) Mild 4) Marked

HARLAN SPRAGUE DAWLEY RATS MALE **300 ppm Male**																										
DAY ON TEST	0314	0732	0486	0732	0545	0546	0667	0729	0729	0638	0731	0731	0730	0631	0729	0729	0729	0729	0708	0663	0731	0731	0729	0673	0731	
ANIMAL ID	00051	00052	00053	00054	00055	00056	00057	00058	00059	00060	00061	00062	00063	00064	00065	00066	00067	00068	00069	00070	00071	00072	00074	00075	00076	**males (cont...)**
Cornea, Inflammation, Acute																2										
Iris, Inflammation, Acute							1	1																		
Lens, Inflammation, Acute							1																			
Retina, Degeneration																						2				
Retina, Dysplasia																				2						
Retina, Hyperplasia																										
Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
URINARY SYSTEM																										
Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Developmental Malformation							X																			
Infarct			1					1		1	1										1					
Inflammation, Acute																										
Mineral						2													2							
Nephropathy, Chronic Progressive	1	4	1	2	1	3	2	2	3	3	2	1	3	3	3	2	1	3	1	1	2	3	3	1	3	
Epithelium, Papilla, Hyperplasia										1								1								
Papilla, Hemorrhage												2														
Pelvis, Inflammation, Acute																			2							
Renal Tubule, Accumulation, Hyaline Droplet																			1							
Renal Tubule, Cyst																										
Renal Tubule, Hyperplasia		1																								
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hemorrhage																			1							
Artery, Mineral																										

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
\+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue
M .. Missing tissue
A .. Autolysis precludes evaluation
BLANK .. Not examined microscopically
1-4 .. Lesion qualified as:
1) Minimal 3) Moderate
2) Mild 4) Marked

HARLAN SPRAGUE DAWLEY RATS MALE

300 ppm Male

DAY ON TEST	0730	0730	0730	0730	0731	0731	0732	0732	0708	0732	0732	0732	0730	0359	0729	0729	0595	0577	0542	0730	0730	0730	0732	0690	
ANIMAL ID	00077	00078	00079	00080	00081	00082	00083	00084	00085	00086	00087	00088	00089	00090	00091	00092	00093	00094	00095	00096	00097	00098	00099	00100	* TOTALS
ALIMENTARY SYSTEM																									
Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**49**
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**49**
Inflammation, Chronic																									**1 1.0**
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**49**
Hyperplasia, Lymphocyte																									**1 2.0**
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**49**
Hyperplasia, Lymphocyte																									**1 1.0**
Parasite Metazoan	X		X																						**6**
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**49**
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**49**
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**49**
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**49**
Basophilic Focus																									**1**
Clear Cell Focus	X	X	X	X	X	X	X	X		X	X	X	X		X	X					X	X	X		**31**
Degeneration, Cystic							1																		**1 1.0**
Eosinophilic Focus																									**1**
Extramedullary Hematopoiesis														1				1							**4 1.0**
Mixed Cell Focus																									**1**
Necrosis																			3						**4 2.0**
Pigment																									**1 1.0**

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
\+ .. Tissue examined microscopically
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M .. Missing tissue
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BLANK .. Not examined microscopically
1-4 .. Lesion qualified as:
1) Minimal 3) Moderate
2) Mild 4) Marked

HARLAN SPRAGUE DAWLEY RATS MALE

300 ppm Male

DAY ON TEST	730	730	730	730	731	731	732	732	708	732	732	732	730	359	729	729	595	577	542	730	730	730	732	690		
ANIMAL ID	0077	0078	0079	0080	0081	0082	0083	0084	0085	0086	0087	0088	0089	0090	0091	0092	0093	0094	0095	0096	0097	0098	0099	0100	* TOTALS	
Bile Duct, Hyperplasia			1	1	1	1	2	1					1		1						1				18	1.1
Mesentery									+																2	
Artery, Mineral									2																1	2.0
Oral Mucosa											+														1	
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49	
Basophilic Focus												X													2	
Polyarteritis Nodosa								1	2																5	1.6
Acinus, Atrophy																									1	3.0
Acinus, Hyperplasia	4				1	4																	1		9	2.6
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48	
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49	
Inflammation, Chronic																									1	3.0
Inflammation, Chronic Active														1											1	1.0
Mineral									1																1	1.0
Ulcer																									1	2.0
Epithelium, Hyperplasia																								2	3	1.7
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49	
Erosion													2												1	2.0
Inflammation, Acute													2												1	2.0
Mineral									3																3	2.0

CARDIOVASCULAR SYSTEM

Blood Vessel	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49	

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HARLAN SPRAGUE DAWLEY RATS MALE

300 ppm Male

DAY ON TEST	730	730	730	730	731	731	732	732	708	732	732	732	730	359	729	729	595	577	542	730	730	730	732	690		
ANIMAL ID	0077	0078	0079	0080	0081	0082	0083	0084	0085	0086	0087	0088	0089	0090	0091	0092	0093	0094	0095	0096	0097	0098	0099	0100	* TOTALS	
Dilation									3																**1**	**3.0**
Mineral									3														1		**2**	**2.0**
Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**49**	
Cardiomyopathy	1	1	1	1	1			2	2		1	1	1		1					2		2			**27**	**1.2**
Inflammation, Acute																	4								**1**	**4.0**
Mineral									2																**1**	**2.0**
Necrosis																	2								**1**	**2.0**
Polyarteritis Nodosa																	1								**2**	**1.0**
Artery, Mineral									2																**2**	**1.5**
Valve, Fibrosis																									**2**	**1.0**
ENDOCRINE SYSTEM																										
Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**49**	
Hyperplasia, Focal					1										2					1					**5**	**1.4**
Hypertrophy, Focal												2											1		**3**	**1.3**
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**49**	
Hyperplasia						4																			**1**	**4.0**
Hyperplasia, Focal		1		2			1						2			2				1	1			4	**14**	**1.6**
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**49**	
Hyperplasia				2															2						**4**	**1.8**
Parathyroid Gland	+	M	M	+	+	+	+	M	+	+	+	M	+	+	+	M	+	+	M	+	M	+	+	+	**32**	
Bilateral, Hyperplasia, Diffuse									3																**1**	**3.0**
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**49**	
Pars Distalis, Hyperplasia	2		3	1			4		3	2						2	1			4	2	3	1		**26**	**2.1**

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1) Minimal 3) Moderate
2) Mild 4) Marked

HARLAN SPRAGUE DAWLEY RATS MALE

300 ppm Male

DAY ON TEST	730	730	730	730	731	731	732	732	708	732	732	732	730	359	729	729	595	557	542	730	730	730	732	690	
ANIMAL ID	0077	0078	0079	0080	0081	0082	0083	0084	0085	0086	0087	0088	0089	0090	0091	0092	0093	0094	0095	0096	0097	0098	0099	0100	* TOTALS
Pars Distalis, Hypertrophy				1				1						2											7 1.1
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
C-cell, Hyperplasia								2					2												8 2.1
GENERAL BODY SYSTEM																									
NONE																									
GENITAL SYSTEM																									
Epididymis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Bilateral, Hypospermia									3																5 3.4
Bilateral, Polyarteritis Nodosa																					1				1 1.0
Bilateral, Duct, Exfoliated Germ Cell									3					1											5 2.0
Preputial Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Inflammation, Suppurative													4												1 4.0
Prostate	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Dorsal, Epithelium, Lateral, Hyperplasia																						1			2 2.0
Dorsal, Lateral, Inflammation, Suppurative																									1 4.0
Dorsal, Lateral, Inflammation, Chronic Active																									2 2.0
Epithelium, Ventral, Hyperplasia																									2 1.0
Ventral, Inflammation, Suppurative																									2 3.0
Ventral, Inflammation, Chronic Active																								4	3 2.7
Seminal Vesicle	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Inflammation, Suppurative																									1 2.0
Inflammation, Acute								1																	1 1.0

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HARLAN SPRAGUE DAWLEY RATS MALE

300 ppm Male

DAY ON TEST	730	730	730	730	731	731	732	732	708	732	732	732	730	359	729	729	595	577	542	730	730	730	732	690	
ANIMAL ID	0077	0078	0079	0080	0081	0082	0083	0084	0085	0086	0087	0088	0089	0090	0091	0092	0093	0094	0095	0096	0097	0098	0099	0100	* TOTALS
Bilateral, Inflammation, Suppurative																									1 2.0
Testis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Edema	1											1										1	1		7 1.7
Inflammation, Granulomatous																									1 2.0
Bilateral, Edema			1	2	1		1	1					1					2			1				16 1.4
Bilateral, Polyarteritis Nodosa		1				1		1	2	1	1				2					2		1			15 1.3
Bilateral, Germinal Epithelium, Degeneration			2						4			1						3				1			10 2.0
Bilateral, Seminiferous Tubule, Mineral																									4 1.3
Germinal Epithelium, Degeneration	1	1		1				1								1									15 1.3
Interstitial Cell, Hyperplasia, Focal				3																					3 2.0
HEMATOPOIETIC SYSTEM																									
Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Congestion										2															1 2.0
Hypercellularity							1	1					1	3	1		1	4			2				17 1.9
Lymph Node																									1
Deep Cervical, Hemorrhage																									1 3.0
Lymph Node, Mandibular	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	47
Atrophy																									1 3.0
Inflammation, Suppurative																									1 4.0
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Atrophy														1											2 1.5
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Extramedullary Hematopoiesis	2	2	2	2	2	1	2	2		2	2	2	2	3	2		2	4	1	1	2	2	2	1	42 1.8

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HARLAN SPRAGUE DAWLEY RATS MALE 300 ppm Male																										
DAY ON TEST	0730	0730	0730	0730	0731	0731	0732	0732	0708	0732	0732	0732	0730	0359	0729	0729	0595	0577	0542	0730	0730	0730	0732	0690		
ANIMAL ID	00077	00078	00079	00080	00081	00082	00083	00084	00085	00086	00087	00088	00089	00090	00091	00092	00093	00094	00095	00096	00097	00098	00099	00100		* TOTALS
Pigment	2	2	1	1	1	1	2	2	3	2	1	1	2		1		1		3	1	1	1	1	2		**43 1.6**
White Pulp, Atrophy									4					2			2		2							**8 2.8**
Thymus	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		**46**
Atrophy	2	3	3		2	3	2	3	4	2	2	3	3	4	2	2	4	2	4	3	3	2	2	4		**45 2.5**
Ectopic Thyroid																1										**1 1.0**
INTEGUMENTARY SYSTEM																										
Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+		**48**
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+		**48**
Cyst Epithelial Inclusion																		X								**1**
Inflammation, Suppurative																						4				**1 4.0**
Inflammation, Chronic														4												**1 4.0**
Inflammation, Chronic Active																		4			3					**2 3.5**
Ulcer																					3					**1 3.0**
MUSCULOSKELETAL SYSTEM																										
Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		**49**
NERVOUS SYSTEM																										
Brain	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		**49**
Gliosis																										**1 2.0**
Hemorrhage																	1									**2 1.5**
Inflammation, Acute																	2									**1 2.0**
Necrosis																			3							**2 3.5**

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HARLAN SPRAGUE DAWLEY RATS MALE 300 ppm Male																										
DAY ON TEST	0730	0730	0730	0730	0731	0731	0732	0732	0708	0732	0732	0732	0730	0359	0729	0729	0595	0577	0542	0730	0730	0730	0732	0690		
ANIMAL ID	00077	00078	00079	00080	00081	00082	00083	00084	00085	00086	00087	00088	00089	00090	00091	00092	00093	00094	00095	00096	00097	00098	00099	00100		* TOTALS
RESPIRATORY SYSTEM																										
Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		49
Infiltration Cellular, Histiocyte		1		2	1	3			1	2		1	2	1	1	2				2	1		1			30 1.4
Inflammation, Granulomatous						1	1					1	1		1						1					8 1.0
Inflammation, Acute									1																	2 1.0
Inflammation, Chronic Active					1																					1 1.0
Mineral									2																	1 2.0
Polyarteritis Nodosa																	4									1 4.0
Thrombus																	4									1 4.0
Alveolar Epithelium, Hyperplasia		2																								1 2.0
Artery, Mineral									1																	1 1.0
Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		49
Inflammation, Suppurative	1								1												1					6 1.5
Olfactory Epithelium, Accumulation, Hyaline Droplet		1		3	1	2	1	1		2	3	1	3		1	2	1			2	2	1	3	1		38 1.8
Olfactory Epithelium, Metaplasia, Respiratory																										1 2.0
Respiratory Epithelium, Accumulation, Hyaline Droplet																										1 1.0
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		49
SPECIAL SENSES SYSTEM																										
Eye	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		49
Anterior Chamber, Inflammation, Acute																										1 1.0
Anterior Chamber, Bilateral, Inflammation, Acute									2																	1 2.0
Bilateral, Cornea, Inflammation, Acute									2																	2 2.5

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HARLAN SPRAGUE DAWLEY RATS MALE 300 ppm Male																										
DAY ON TEST	730	730	730	730	731	731	732	732	708	732	732	732	730	359	729	729	595	577	542	730	730	730	732	690		
ANIMAL ID	0077	0078	0079	0080	0081	0082	0083	0084	0085	0086	0087	0088	0089	0090	0091	0092	0093	0094	0095	0096	0097	0098	0099	0100	* TOTALS	
Cornea, Inflammation, Acute										1															**2**	**1.5**
Iris, Inflammation, Acute																									**2**	**1.0**
Lens, Inflammation, Acute																									**1**	**1.0**
Retina, Degeneration																									**1**	**2.0**
Retina, Dysplasia																									**1**	**2.0**
Retina, Hyperplasia					2																				**1**	**2.0**
Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**49**	
URINARY SYSTEM																										
Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**49**	
Developmental Malformation																									**1**	
Infarct							1				1	1		1	1										**10**	**1.0**
Inflammation, Acute																	1								**1**	**1.0**
Mineral																									**2**	**2.0**
Nephropathy, Chronic Progressive	3	2	2	2	2	4	3	3	4	1	2	2	3	1	3	2	3	1	1	3	3	3	2	1	**49**	**2.2**
Epithelium, Papilla, Hyperplasia									2													1			**4**	**1.3**
Papilla, Hemorrhage																									**1**	**2.0**
Pelvis, Inflammation, Acute																									**1**	**2.0**
Renal Tubule, Accumulation, Hyaline Droplet																		1							**2**	**1.0**
Renal Tubule, Cyst									X												X				**2**	
Renal Tubule, Hyperplasia																									**1**	**1.0**
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**49**	
Hemorrhage																									**1**	**1.0**
Artery, Mineral									2																**1**	**2.0**

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DAY ON TEST	0732	0732	0732	0732	0732	0729	0730	0675	0729	0617	0729	0729	0731	0731	0730	0730	0729	0729	0732	0732	0698	0729	0557	0730	0645	
HARLAN SPRAGUE DAWLEY RATS MALE																										
1000 ppm Male ANIMAL ID	0010 1	0010 2	0010 3	0010 4	0010 5	0010 6	0010 7	0010 8	0010 9	0011 0	0011 1	0011 2	0011 3	0011 4	0011 5	0011 6	0011 7	0011 8	0011 9	0012 0	0012 1	0012 2	0012 3	0012 4	0012 5	**males (cont...)**
ALIMENTARY SYSTEM																										
Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Parasite Metazoan																								X		
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Parasite Metazoan								X						X	X		X							X		
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Basophilic Focus												X														
Clear Cell Focus	X	X	X	X			X		X		X	X		X		X	X	X		X		X		X		
Degeneration, Cystic																										
Eosinophilic Focus		X						X	X							X					X				X	
Extramedullary Hematopoiesis	1	1																								
Fatty Change, Focal													4													
Hepatodiaphragmatic Nodule				X																						
Mixed Cell Focus																X										
Necrosis																										
Pigment	1				1							1					1									
Bile Duct, Dilation					3																					

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HARLAN SPRAGUE DAWLEY RATS MALE

1000 ppm Male

DAY ON TEST	0732	0732	0732	0732	0732	0729	0730	0675	0729	0617	0729	0729	0731	0731	0730	0730	0729	0729	0732	0732	0698	0729	0557	0730	0645	males (cont...)
ANIMAL ID	0010 1	0010 2	0010 3	0010 4	0010 5	0010 6	0010 7	0010 8	0010 9	0011 0	0011 1	0011 2	0011 3	0011 4	0011 5	0011 6	0011 7	0011 8	0011 9	0012 0	0012 1	0012 2	0012 3	0012 4	0012 5	
Bile Duct, Hyperplasia		1	2	1	1						2			1						1						
Hepatocyte, Cytoplasmic Alteration																										
Mesentery																									+	
Artery, Mineral																									2	
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Inflammation, Chronic Active																										
Polyarteritis Nodosa																						1	2			
Acinus, Atrophy																				1						
Acinus, Hyperplasia	4	3							4		3					4		4	4	4						
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Artery, Mineral																									2	
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hyperplasia, Squamous																										
Inflammation, Chronic																										
Inflammation, Chronic Active					3								2						2							
Mineral																										
Polyarteritis Nodosa																										
Ulcer					3								2													
Artery, Mineral																									2	
Epithelium, Hyperplasia					2														2							
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Mineral									2						2								2			
Polyarteritis Nodosa																										
Artery, Mineral																									4	

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue
M .. Missing tissue
A .. Autolysis precludes evaluation
BLANK .. Not examined microscopically
1-4 .. Lesion qualified as:
1) Minimal 3) Moderate
2) Mild 4) Marked

HARLAN SPRAGUE DAWLEY RATS MALE **1000 ppm Male**																										
DAY ON TEST	0732	0732	0732	0732	0732	0729	0730	0675	0729	0617	0729	0729	0731	0731	0730	0730	0729	0729	0732	0732	0698	0729	0557	0730	0645	
ANIMAL ID	0010 1	0010 2	0010 3	0010 4	0010 5	0010 6	0010 7	0010 8	0010 9	0011 0	0011 1	0011 2	0011 3	0011 4	0011 5	0011 6	0011 7	0011 8	0011 9	0012 0	0012 1	0012 2	0012 3	0012 4	0012 5	**males (cont...)**
Tongue																									+	
Inflammation, Suppurative																										
Inflammation, Acute																									1	
Polyarteritis Nodosa																										
CARDIOVASCULAR SYSTEM																										
Blood Vessel	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Aneurysm																		4								
Mineral												1													3	
Thrombus																		4								
Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Cardiomyopathy	1		1					1	1	1		1		1	1			1	1	2		1	2		2	
Mineral																									2	
Polyarteritis Nodosa																										
Artery, Mineral																									2	
Valve, Fibrosis																										
ENDOCRINE SYSTEM																										
Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Degeneration, Cystic																										
Hyperplasia, Focal					3							4														
Hypertrophy																										
Hypertrophy, Focal			2			2	2																			
Bilateral, Hypertrophy, Focal														3												
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hyperplasia	4																									

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M .. Missing tissue
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BLANK .. Not examined microscopically
1-4 .. Lesion qualified as:
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2) Mild 4) Marked

HARLAN SPRAGUE DAWLEY RATS MALE

1000 ppm Male

DAY ON TEST	732	732	732	732	732	729	730	675	729	617	729	729	731	731	730	730	729	729	732	732	698	729	557	730	645	males (cont...)
ANIMAL ID	001	002	003	004	005	006	007	008	009	010	011	012	013	014	015	016	017	018	019	020	021	022	023	024	025	
Hyperplasia, Focal			2						1		1								1	1					1	
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hyperplasia	4																	2	4	4						
Parathyroid Gland	M	M	+	M	+	+	+	+	+	+	+	M	M	+	+	+	+	+	+	+	+	+	+	M	+	
Hyperplasia, Focal																						3				
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Infiltration Cellular, Lymphocyte																										
Pars Distalis, Hyperplasia	2	3	2	2	1			1									2	2		1		3				
Pars Distalis, Hypertrophy			1													1										
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
C-cell, Hyperplasia	4			3	3						1							2	1			4				

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

Epididymis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hypospermia														3			3						2			
Inflammation, Chronic Active																										
Bilateral, Hypospermia					3			3		4											4				2	
Bilateral, Duct, Exfoliated Germ Cell					2																				3	
Duct, Exfoliated Germ Cell														1									3			
Preputial Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	

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1-4 .. Lesion qualified as:
1) Minimal 3) Moderate
2) Mild 4) Marked

DAY ON TEST	0732	0732	0732	0732	0732	0729	0730	0675	0729	0617	0729	0729	0731	0731	0730	0730	0729	0729	0732	0732	0698	0729	0557	0730	0645
HARLAN SPRAGUE DAWLEY RATS MALE																									
1000 ppm Male ANIMAL ID	0010 1	0010 2	0010 3	0010 4	0010 5	0010 6	0010 7	0010 8	0010 9	0011 0	0011 1	0011 2	0011 3	0011 4	0011 5	0011 6	0011 7	0011 8	0011 9	0012 0	0012 1	0012 2	0012 3	0012 4	0012 5
Prostate	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Artery, Mineral																									
Epithelium, Ventral, Hyperplasia																									
Ventral, Inflammation, Chronic Active																									
Seminal Vesicle	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Artery, Mineral																									2
Testis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Edema				1										3			3								
Inflammation, Chronic Active																									
Bilateral, Edema			1		2		1	2			1	1				1		1		1					
Bilateral, Polyarteritis Nodosa		1							1										2			2	1	2	2
Bilateral, Germinal Epithelium, Degeneration		1			3			3		4											4				2
Bilateral, Seminiferous Tubule, Mineral																									
Germinal Epithelium, Degeneration														3			3						2		
Interstitial Cell, Hyperplasia, Focal		2			3								2					2							
HEMATOPOIETIC SYSTEM																									
Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Congestion														3						3					
Hypercellularity	2								1	1		1	4	2	3		1		1	1	4	2	4	2	
Increased Bone																									
Necrosis																									
Thrombus														1											
Lymph Node						+							+												
Lumbar, Dilation																									
Mediastinal, Hemorrhage																									

males (cont...)

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
\+ .. Tissue examined microscopically
X .. Lesion present
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M .. Missing tissue
A .. Autolysis precludes evaluation
BLANK .. Not examined microscopically
1-4 .. Lesion qualified as:
1) Minimal 3) Moderate
2) Mild 4) Marked

DAY ON TEST	0732	0732	0732	0732	0732	0729	0730	0675	0729	0617	0729	0729	0731	0731	0730	0730	0729	0729	0732	0732	0698	0729	0557	0730	0645	
HARLAN SPRAGUE DAWLEY RATS MALE **1000 ppm Male** ANIMAL ID	001 01	001 02	001 03	001 04	001 05	001 06	001 07	001 08	001 09	001 10	001 11	001 12	001 13	001 14	001 15	001 16	001 17	001 18	001 19	001 20	001 21	001 22	001 23	001 24	001 25	**males (cont...)**
Mediastinal, Hyperplasia, Lymphocyte																										
Lymph Node, Mandibular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Atrophy																									3	
Infiltration Cellular, Plasma Cell																										
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Atrophy																									3	
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Extramedullary Hematopoiesis	3	2	2	2	1		2		2	2	2	2		2	2	2	2	2	2	2	3	1		1		
Hemorrhage						4																				
Pigment		1	1	1	2		2	2	2	1	1	2		1		1	2	1	2	2		2	2	1	2	
White Pulp, Atrophy										3											3		4		3	
Thymus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Atrophy	2	2	1	2	3	4	2	3	2	4		2		2	1	2	1	2	4	2	4	2	4	1	4	
INTEGUMENTARY SYSTEM																										
Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Galactocele																			3							
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Cyst Epithelial Inclusion																				X				X		
Inflammation, Chronic Active																										
MUSCULOSKELETAL SYSTEM																										
Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	

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+ .. Tissue examined microscopically
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M .. Missing tissue
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BLANK .. Not examined microscopically
1-4 .. Lesion qualified as:
1) Minimal 3) Moderate
2) Mild 4) Marked

HARLAN SPRAGUE DAWLEY RATS MALE **1000 ppm Male**																										
DAY ON TEST	0732	0732	0732	0732	0732	0729	0730	0675	0729	0617	0729	0729	0731	0731	0730	0730	0729	0729	0732	0732	0698	0729	0557	0730	0645	
ANIMAL ID	0010 1	0010 2	0010 3	0010 4	0010 5	0010 6	0010 7	0010 8	0010 9	0011 0	0011 1	0011 2	0011 3	0011 4	0011 5	0011 6	0011 7	0011 8	0011 9	0012 0	0012 1	0012 2	0012 3	0012 4	0012 5	**males (cont...)**
Osteopetrosis																										
NERVOUS SYSTEM																										
Brain	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Edema																										
Hemorrhage						2																				
Peripheral Nerve												+														
Ganglion, Vacuolization Cytoplasmic												1														
RESPIRATORY SYSTEM																										
Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Infiltration Cellular, Histiocyte	2			1	1	1	3	2	1	1		1	1				1	1			1	1	1	1		
Inflammation, Granulomatous					1										1									1		
Inflammation, Chronic Active	1																									
Mineral																									1	
Alveolar Epithelium, Hyperplasia																					1					
Artery, Mineral																									2	
Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Foreign Body																										
Inflammation, Acute		1	1									1				1				1						
Inflammation, Chronic Active																										
Olfactory Epithelium, Accumulation, Hyaline Droplet	3	1	1	2	2		2	1	2		2	1	2	2	1	2	2	2	1			1		2	1	
Olfactory Epithelium, Metaplasia, Respiratory		1																								
Respiratory Epithelium, Accumulation, Hyaline Droplet																										

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1) Minimal 3) Moderate
2) Mild 4) Marked

HARLAN SPRAGUE DAWLEY RATS MALE 1000 ppm Male																										
DAY ON TEST	0732	0732	0732	0732	0732	0729	0730	0675	0729	0617	0729	0729	0731	0731	0730	0730	0729	0729	0732	0732	0698	0729	0557	0730	0645	
ANIMAL ID	0010 1	0010 2	0010 3	0010 4	0010 5	0010 6	0010 7	0010 8	0010 9	0011 0	0011 1	0011 2	0011 3	0011 4	0011 5	0011 6	0011 7	0011 8	0011 9	0012 0	0012 1	0012 2	0012 3	0012 4	0012 5	males (cont...)
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
SPECIAL SENSES SYSTEM																										
Eye	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Anterior Chamber, Inflammation, Acute																										
Anterior Chamber, Bilateral, Inflammation, Acute																									1	
Bilateral, Cornea, Inflammation, Acute																										
Cornea, Inflammation, Acute																										
Lens, Cataract					2																					
Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Inflammation, Chronic																										
URINARY SYSTEM																										
Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Infarct	1							1					1							1						
Inflammation, Suppurative										3																
Nephropathy, Chronic Progressive	2	3	1	1	2	1	1	2	3	4	2	1	3	3	2	3	2	3	3	2	1	3	4	4	4	
Epithelium, Papilla, Hyperplasia																							2		2	
Renal Tubule, Accumulation, Hyaline Droplet												1														
Renal Tubule, Cyst																							X		X	
Renal Tubule, Hyperplasia, Atypical									1																	
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Polyarteritis Nodosa																										

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M .. Missing tissue
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BLANK .. Not examined microscopically
1-4 .. Lesion qualified as:
1) Minimal 3) Moderate
2) Mild 4) Marked

HARLAN SPRAGUE DAWLEY RATS MALE 1000 ppm Male																										
DAY ON TEST	0729	0512	0732	0729	0669	0731	0731	0730	0730	0731	0731	0732	0694	0731	0731	0729	0694	0731	0731	0730	0730	0732	0708	0730	0730	
ANIMAL ID	0012 6	0012 7	0012 8	0012 9	0013 0	0013 1	0013 2	0013 3	0013 4	0013 5	0013 6	0013 7	0013 8	0013 9	0014 0	0014 1	0014 2	0014 3	0014 4	0014 5	0014 6	0014 7	0014 8	0014 9	0015 0	* TOTALS
ALIMENTARY SYSTEM																										
Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Parasite Metazoan																										**1**
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Parasite Metazoan						X	X											X			X					**9**
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Basophilic Focus	X			X																X						**4**
Clear Cell Focus	X		X	X		X		X	X		X	X		X	X	X		X	X			X	X	X	X	**32**
Degeneration, Cystic			1																							**1 1.0**
Eosinophilic Focus	X																									**7**
Extramedullary Hematopoiesis																						1				**3 1.0**
Fatty Change, Focal																										**1 4.0**
Hepatodiaphragmatic Nodule																										**1**
Mixed Cell Focus																										**1**
Necrosis																1										**1 1.0**
Pigment																		2								**5 1.2**
Bile Duct, Dilation																										**1 3.0**

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1) Minimal 3) Moderate
2) Mild 4) Marked

HARLAN SPRAGUE DAWLEY RATS MALE

1000 ppm Male

DAY ON TEST	0729	0512	0732	0729	0669	0731	0731	0730	0730	0731	0731	0732	0694	0731	0731	0729	0694	0731	0731	0730	0730	0732	0708	0730	0730	
ANIMAL ID	0012 6	0012 7	0012 8	0012 9	0013 0	0013 1	0013 2	0013 3	0013 4	0013 5	0013 6	0013 7	0013 8	0013 9	0014 0	0014 1	0014 2	0014 3	0014 4	0014 5	0014 6	0014 7	0014 8	0014 9	0015 0	* TOTALS
Bile Duct, Hyperplasia				1				1	1		1								1			1				**13 1.2**
Hepatocyte, Cytoplasmic Alteration																					1					**1 1.0**
Mesentery																	+									**2**
Artery, Mineral																	2									**2 2.0**
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Inflammation, Chronic Active																					2					**1 2.0**
Polyarteritis Nodosa			1																							**3 1.3**
Acinus, Atrophy								1										1		1	1		1			**6 1.0**
Acinus, Hyperplasia						2		3	4		4	1			2			3	3							**16 3.3**
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Artery, Mineral																	1									**2 1.5**
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Hyperplasia, Squamous										3																**1 3.0**
Inflammation, Chronic										2																**1 2.0**
Inflammation, Chronic Active																										**3 2.3**
Mineral																	2									**1 2.0**
Polyarteritis Nodosa															1											**1 1.0**
Ulcer																										**2 2.5**
Artery, Mineral																										**1 2.0**
Epithelium, Hyperplasia																					1					**3 1.7**
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Mineral																	2									**4 2.0**
Polyarteritis Nodosa															1											**1 1.0**
Artery, Mineral																										**1 4.0**

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BLANK .. Not examined microscopically
1-4 .. Lesion qualified as:
1) Minimal 3) Moderate
2) Mild 4) Marked

HARLAN SPRAGUE DAWLEY RATS MALE

1000 ppm Male

DAY ON TEST	0729	0512	0732	0729	0669	0731	0731	0730	0730	0731	0731	0732	0694	0731	0731	0729	0694	0731	0731	0730	0730	0732	0708	0730	0730	
ANIMAL ID	0012 6	0012 7	0012 8	0012 9	0013 0	0013 1	0013 2	0013 3	0013 4	0013 5	0013 6	0013 7	0013 8	0013 9	0014 0	0014 1	0014 2	0014 3	0014 4	0014 5	0014 6	0014 7	0014 8	0014 9	0015 0	* TOTALS
Tongue							+																			**2**
Inflammation, Suppurative							3																			**1 3.0**
Inflammation, Acute																										**1 1.0**
Polyarteritis Nodosa							1																			**1 1.0**
CARDIOVASCULAR SYSTEM																										
Blood Vessel	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Aneurysm																										**1 4.0**
Mineral																	3									**3 2.3**
Thrombus																										**1 4.0**
Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Cardiomyopathy	1		1			1	1		1		1	1			1		4	1	1				2			**26 1.3**
Mineral																	3									**2 2.5**
Polyarteritis Nodosa			1						1																	**2 1.0**
Artery, Mineral																	2									**2 2.0**
Valve, Fibrosis								2																		**1 2.0**
ENDOCRINE SYSTEM																										
Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Degeneration, Cystic										1																**1 1.0**
Hyperplasia, Focal														2					2						4	**5 3.0**
Hypertrophy			3																							**1 3.0**
Hypertrophy, Focal		2				2	2																			**6 2.0**
Bilateral, Hypertrophy, Focal									2																	**2 2.5**
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Hyperplasia																										**1 4.0**

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1-4 .. Lesion qualified as:
1) Minimal 3) Moderate
2) Mild 4) Marked

HARLAN SPRAGUE DAWLEY RATS MALE

1000 ppm Male

DAY ON TEST	0729	0512	0732	0729	0669	0731	0731	0730	0730	0731	0731	0732	0694	0731	0731	0729	0694	0731	0731	0730	0730	0732	0708	0730	0730	
ANIMAL ID	0012 6	0012 7	0012 8	0012 9	0013 0	0013 1	0013 2	0013 3	0013 4	0013 5	0013 6	0013 7	0013 8	0013 9	0014 0	0014 1	0014 2	0014 3	0014 4	0014 5	0014 6	0014 7	0014 8	0014 9	0015 0	* TOTALS
Hyperplasia, Focal											4						1								2	**9 1.6**
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Hyperplasia						2		2																2		**7 2.9**
Parathyroid Gland	M	+	M	+	M	M	+	M	M	+	+	M	M	+	+	M	M	+	+	+	+	M	M	M	+	**31**
Hyperplasia, Focal																										**1 3.0**
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Infiltration Cellular, Lymphocyte					2																					**1 2.0**
Pars Distalis, Hyperplasia	1					2		2	3	4	1	2		1	4		4	1						1		**22 2.0**
Pars Distalis, Hypertrophy														1							1				1	**5 1.0**
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
C-cell, Hyperplasia		2				4				2		3				3						3	2			**14 2.6**

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

Epididymis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Hypospermia			2				3																		2	**6 2.5**
Inflammation, Chronic Active		1																								**1 1.0**
Bilateral, Hypospermia		2																								**6 3.0**
Bilateral, Duct, Exfoliated Germ Cell		1															3									**4 2.3**
Duct, Exfoliated Germ Cell																										**2 2.0**
Preputial Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**

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1) Minimal 3) Moderate
2) Mild 4) Marked

HARLAN SPRAGUE DAWLEY RATS MALE

1000 ppm Male

DAY ON TEST	729	512	732	729	669	731	731	730	730	731	731	732	694	731	731	729	694	731	731	730	730	732	708	730	730	
ANIMAL ID	0012 6	0012 7	0012 8	0012 9	0013 0	0013 1	0013 2	0013 3	0013 4	0013 5	0013 6	0013 7	0013 8	0013 9	0014 0	0014 1	0014 2	0014 3	0014 4	0014 5	0014 6	0014 7	0014 8	0014 9	0015 0	* TOTALS
Prostate	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Artery, Mineral																	2									1 2.0
Epithelium, Ventral, Hyperplasia				1										1		1										3 1.0
Ventral, Inflammation, Chronic Active										1																1 1.0
Seminal Vesicle	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Artery, Mineral																										1 2.0
Testis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Edema							1	1								1						1	1		3	9 1.7
Inflammation, Chronic Active		1																								1 1.0
Bilateral, Edema			1	1		1					1	1						1	2					1		17 1.2
Bilateral, Polyarteritis Nodosa			2												2		2									10 1.7
Bilateral, Germinal Epithelium, Degeneration		2																								7 2.7
Bilateral, Seminiferous Tubule, Mineral								1																		1 1.0
Germinal Epithelium, Degeneration			3			1	2	1	1	1						1		1		1	1				2	14 1.6
Interstitial Cell, Hyperplasia, Focal									2		1															6 2.0
HEMATOPOIETIC SYSTEM																										
Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Congestion																										2 3.0
Hypercellularity			1			1	1	2	1	3	2			2	1		2	1	1	3	2				2	29 1.9
Increased Bone																							2			1 2.0
Necrosis		3																								1 3.0
Thrombus																										1 1.0
Lymph Node			+		+			+															+			6
Lumbar, Dilation			4																							1 4.0
Mediastinal, Hemorrhage																							2			1 2.0

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1-4 .. Lesion qualified as:
1) Minimal 3) Moderate
2) Mild 4) Marked

HARLAN SPRAGUE DAWLEY RATS MALE

1000 ppm Male

DAY ON TEST	0729	0512	0732	0729	0669	0731	0731	0730	0730	0731	0731	0732	0694	0731	0731	0729	0694	0731	0731	0730	0730	0732	0708	0730	0730		
ANIMAL ID	0012 6	0012 7	0012 8	0012 9	0013 0	0013 1	0013 2	0013 3	0013 4	0013 5	0013 6	0013 7	0013 8	0013 9	0014 0	0014 1	0014 2	0014 3	0014 4	0014 5	0014 6	0014 7	0014 8	0014 9	0015 0	* TOTALS	
Mediastinal, Hyperplasia, Lymphocyte								2																		**1**	**2.0**
Lymph Node, Mandibular	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**49**	
Atrophy																										**1**	**3.0**
Infiltration Cellular, Plasma Cell															3											**1**	**3.0**
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	**49**	
Atrophy																										**1**	**3.0**
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Extramedullary Hematopoiesis	2	2	2	2		2	2	2	2	3	2	2	2	2	2	2		2	2	2		2	2	2	2	**42**	**2.0**
Hemorrhage					3																					**2**	**3.5**
Pigment	1		2	1		1	2	1	2	2	2	1	1	1	1	1	2	2	2	1		2	1	1	1	**42**	**1.5**
White Pulp, Atrophy		2															4									**6**	**3.2**
Thymus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	**49**	
Atrophy	2		2	1		2	3	2	3		2	1	2	2	3	2		2	2		3	3	2	3	3	**43**	**2.3**
INTEGUMENTARY SYSTEM																											
Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Galactocele																										**1**	**3.0**
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Cyst Epithelial Inclusion			X																							**3**	
Inflammation, Chronic Active							4																			**1**	**4.0**
MUSCULOSKELETAL SYSTEM																											
Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	

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HARLAN SPRAGUE DAWLEY RATS MALE 1000 ppm Male																										
DAY ON TEST	0729	0512	0732	0729	0669	0731	0731	0730	0730	0731	0731	0732	0694	0731	0731	0729	0694	0731	0731	0730	0730	0732	0708	0730	0730	
ANIMAL ID	0012 6	0012 7	0012 8	0012 9	0013 0	0013 1	0013 2	0013 3	0013 4	0013 5	0013 6	0013 7	0013 8	0013 9	0014 0	0014 1	0014 2	0014 3	0014 4	0014 5	0014 6	0014 7	0014 8	0014 9	0015 0	* TOTALS
Osteopetrosis		2																					2			**2 2.0**
NERVOUS SYSTEM																										
Brain	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Edema					1																					**1 1.0**
Hemorrhage		1			2																					**3 1.7**
Peripheral Nerve																										**1**
Ganglion, Vacuolization Cytoplasmic																										**1 1.0**
RESPIRATORY SYSTEM																										
Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Infiltration Cellular, Histiocyte	1	1	2			1	2	1	1	1		1		2		2	3	1		2		1		1	2	**33 1.4**
Inflammation, Granulomatous			1							1						1		1				1		1		**9 1.0**
Inflammation, Chronic Active											1								1							**3 1.0**
Mineral																										**1 1.0**
Alveolar Epithelium, Hyperplasia	1															1			1				2			**5 1.2**
Artery, Mineral																	2									**2 2.0**
Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Foreign Body				X																						**1**
Inflammation, Acute				1													1	1	1		1					**10 1.0**
Inflammation, Chronic Active								1							1											**2 1.0**
Olfactory Epithelium, Accumulation, Hyaline Droplet	4		3	2	1		2	1		1	2	1		2	3	3			3	2	4	3		2	1	**38 1.9**
Olfactory Epithelium, Metaplasia, Respiratory				1																						**2 1.0**
Respiratory Epithelium, Accumulation, Hyaline Droplet	1													1		1										**3 1.0**

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HARLAN SPRAGUE DAWLEY RATS MALE

1000 ppm Male

DAY ON TEST	729	512	732	729	669	731	731	730	730	731	731	732	694	731	731	729	694	731	731	730	730	732	708	730	730		
ANIMAL ID	0012 6	0012 7	0012 8	0012 9	0013 0	0013 1	0013 2	0013 3	0013 4	0013 5	0013 6	0013 7	0013 8	0013 9	0014 0	0014 1	0014 2	0014 3	0014 4	0014 5	0014 6	0014 7	0014 8	0014 9	0015 0	* TOTALS	
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
SPECIAL SENSES SYSTEM																											
Eye	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Anterior Chamber, Inflammation, Acute										1																**1**	**1.0**
Anterior Chamber, Bilateral, Inflammation, Acute																										**1**	**1.0**
Bilateral, Cornea, Inflammation, Acute																							2		2	**2**	**2.0**
Cornea, Inflammation, Acute																	1									**1**	**1.0**
Lens, Cataract																										**1**	**2.0**
Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Inflammation, Chronic																							1			**1**	**1.0**
URINARY SYSTEM																											
Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Infarct			1							1				1							1				1	**9**	**1.0**
Inflammation, Suppurative																										**1**	**3.0**
Nephropathy, Chronic Progressive	2		3	1	4	2	3	2	3	2	2	2	2	1	4	2	4	2	1	1	1	2	2	2	3	**49**	**2.3**
Epithelium, Papilla, Hyperplasia																	2					1				**4**	**1.8**
Renal Tubule, Accumulation, Hyaline Droplet		3																								**2**	**2.0**
Renal Tubule, Cyst					X							X														**4**	
Renal Tubule, Hyperplasia, Atypical																										**1**	**1.0**
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Polyarteritis Nodosa												1														**1**	**1.0**

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HARLAN SPRAGUE DAWLEY RATS MALE 3000 ppm Male																										
DAY ON TEST	0729	0729	0731	0628	0730	0730	0731	0719	0732	0645	0631	0730	0669	0708	0732	0616	0732	0732	0674	0730	0731	0731	0730	0730	0731	
ANIMAL ID	0015 1	0015 2	0015 3	0015 4	0015 5	0015 6	0015 7	0015 8	0015 9	0016 0	0016 1	0016 2	0016 3	0016 4	0016 5	0016 6	0016 7	0016 8	0016 9	0017 0	0017 1	0017 2	0017 3	0017 4	0017 5	males (cont...)
ALIMENTARY SYSTEM																										
Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hyperplasia, Lymphocyte							2																			
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Parasite Metazoan																	X									
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Parasite Metazoan	X				X		X									X	X				X					
Polyarteritis Nodosa																										
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hyperplasia, Lymphocyte							2																			
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Angiectasis																										
Basophilic Focus	X							X		X										X						
Cholangiofibrosis			2																							
Clear Cell Focus	X	X	X		X	X	X		X	X		X			X		X	X			X	X	X	X	X	
Degeneration, Cystic																										
Eosinophilic Focus		X					X																			
Extramedullary Hematopoiesis													1													
Mixed Cell Focus																				X					X	

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HARLAN SPRAGUE DAWLEY RATS MALE

3000 ppm Male

DAY ON TEST	729	729	731	628	730	730	731	719	732	645	631	730	669	708	732	616	732	732	674	730	731	731	730	730	731
ANIMAL ID	001 51	001 52	001 53	001 54	001 55	001 56	001 57	001 58	001 59	001 60	001 61	001 62	001 63	001 64	001 65	001 66	001 67	001 68	001 69	001 70	001 71	001 72	001 73	001 74	001 75
Necrosis		1										1			1										
Pigment	2	1	2		1	2	1		2	1		2		2	2		2	2	2	2	1	1	2	1	2
Bile Duct, Dilation									2																
Bile Duct, Hyperplasia	1	2	1		1					1					1	1	1	1	1		1			1	1
Hepatocyte, Cytoplasmic Alteration	1		3	2	1		2					1		1	1	1	1	1	1	1			2	1	1
Hepatocyte, Hypertrophy																							2		1
Mesentery									+																
Artery, Mineral									1																
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Inflammation, Chronic Active																									
Polyarteritis Nodosa												1				1			2						
Acinus, Atrophy								2								1									
Acinus, Hyperplasia		4	4			4	4	2		4				4					4	3	4	4		4	4
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Inflammation, Chronic Active														2											
Mineral											2														
Polyarteritis Nodosa																									
Ulcer														2											
Epithelium, Hyperplasia														2											
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Mineral											1														

males (cont...)

CARDIOVASCULAR SYSTEM

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HARLAN SPRAGUE DAWLEY RATS MALE

3000 ppm Male

DAY ON TEST	729	729	731	628	730	730	731	719	732	645	631	730	669	708	732	616	732	732	674	730	731	731	730	730	731	males (cont...)
ANIMAL ID	0015 1	0015 2	0015 3	0015 4	0015 5	0015 6	0015 7	0015 8	0015 9	0016 0	0016 1	0016 2	0016 3	0016 4	0016 5	0016 6	0016 7	0016 8	0016 9	0017 0	0017 1	0017 2	0017 3	0017 4	0017 5	
Blood Vessel	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Aneurysm																			1							
Degeneration					1																					
Mineral				1					1		1															
Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Cardiomyopathy	1	1	1		1	2	1				2	1		1	1	1	1	1	2	1	1	1	1	1	1	
Polyarteritis Nodosa																										
Valve, Fibrosis																							1			
ENDOCRINE SYSTEM																										
Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Degeneration, Cystic																										
Hemorrhage																										
Hyperplasia, Focal							1											1							4	
Hypertrophy, Focal					2									1							1					
Metaplasia, Osseous					2																					
Necrosis																										
Thrombus											3															
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hyperplasia, Focal	2	1							1		1						2						1			
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Atrophy																										
Hyperplasia															1			2								
Parathyroid Gland	M	+	+	+	+	+	+	+	M	+	+	+	+	+	M	+	+	+	+	+	+	M	+	+	+	

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HARLAN SPRAGUE DAWLEY RATS MALE 3000 ppm Male																										
DAY ON TEST	729	729	731	628	730	730	731	719	732	645	631	730	669	708	732	616	732	732	674	730	731	731	730	730	731	males (cont...)
ANIMAL ID	0015 1	0015 2	0015 3	0015 4	0015 5	0015 6	0015 7	0015 8	0015 9	0016 0	0016 1	0016 2	0016 3	0016 4	0016 5	0016 6	0016 7	0016 8	0016 9	0017 0	0017 1	0017 2	0017 3	0017 4	0017 5	
Hyperplasia, Diffuse											3															
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Pars Distalis, Hyperplasia	2			1	1	1			2	1		3							1		1		2		4	
Pars Distalis, Hypertrophy												1									1	1	3	2		
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
C-cell, Hyperplasia					1								1						2				1	1		
Follicular Cell, Hyperplasia							1																			
GENERAL BODY SYSTEM																										
NONE																										
GENITAL SYSTEM																										
Epididymis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hypospermia								2							2											
Bilateral, Hypospermia											4	2											3			
Preputial Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Inflammation, Chronic Active														4												
Prostate	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Dorsal, Epithelium, Lateral, Hyperplasia																							1			
Epithelium, Ventral, Hyperplasia									1																	
Ventral, Inflammation, Granulomatous										4																
Ventral, Inflammation, Chronic Active														1	2											
Seminal Vesicle	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Atrophy														2												

HARLAN SPRAGUE DAWLEY RATS MALE

3000 ppm Male

DAY ON TEST	729	729	731	628	730	730	731	719	732	645	631	730	669	708	732	616	732	732	674	730	731	731	730	730	731	
ANIMAL ID	0015 1	0015 2	0015 3	0015 4	0015 5	0015 6	0015 7	0015 8	0015 9	0016 0	0016 1	0016 2	0016 3	0016 4	0016 5	0016 6	0016 7	0016 8	0016 9	0017 0	0017 1	0017 2	0017 3	0017 4	0017 5	males (cont...)
Bilateral, Inflammation, Acute										2																
Testis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Edema			1												2					1				1	1	
Bilateral, Edema		1							1												1	1	3			
Bilateral, Polyarteritis Nodosa												2				2										
Bilateral, Germinal Epithelium, Degeneration											4	2		1									3	1		
Germinal Epithelium, Degeneration					1			1	1	1					2				1	1		1				
Interstitial Cell, Hyperplasia, Focal	1			2										2										1		
HEMATOPOIETIC SYSTEM																										
Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Congestion			1																							
Hypercellularity				2	1		2	4		2	2	1	4	4				1	4		1	2	1		2	
Lymph Node																										
Deep Cervical, Infiltration Cellular, Histiocyte																										
Deep Cervical, Pigment																										
Lumbar, Infiltration Cellular, Histiocyte																										
Lumbar, Pigment																										
Lymph Node, Mandibular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Infiltration Cellular, Histiocyte																										
Inflammation, Chronic Active																										
Pigment																										
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hemorrhage																										
Hyperplasia, Lymphocyte																	2									

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
\+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue
M .. Missing tissue
A .. Autolysis precludes evaluation
BLANK .. Not examined microscopically
1-4 .. Lesion qualified as:
1) Minimal 3) Moderate
2) Mild 4) Marked

HARLAN SPRAGUE DAWLEY RATS MALE **3000 ppm Male**																										
DAY ON TEST	729	729	731	628	730	730	731	719	732	645	631	730	669	708	732	616	732	732	674	730	731	731	730	730	731	
ANIMAL ID	0015 1	0015 2	0015 3	0015 4	0015 5	0015 6	0015 7	0015 8	0015 9	0016 0	0016 1	0016 2	0016 3	0016 4	0016 5	0016 6	0016 7	0016 8	0016 9	0017 0	0017 1	0017 2	0017 3	0017 4	0017 5	**males (cont...)**
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Extramedullary Hematopoiesis	2	2	2		2	2	2	1	2	2	1	2	3	3	2	2	1	1	1	2	2	2	2	2	2	
Pigment	1	1	2	3	2	2	1	1	1	2	2	1			1	1	2	1	1	2	2	1	2	2	2	
White Pulp, Atrophy								3			3		2													
Thymus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Atrophy	3	1	1	2	1	3	1	4	2	3	4	1	3	4	2	2	2	2	3	2	2	2		2	1	
INTEGUMENTARY SYSTEM																										
Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hyperplasia			4																							
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Inflammation, Acute																										
Inflammation, Chronic Active																										
Ulcer																										
Epidermis, Hyperplasia																										
MUSCULOSKELETAL SYSTEM																										
Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Skeletal Muscle								+																		
NERVOUS SYSTEM																										
Brain	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Inflammation, Acute																			1							
Necrosis																										

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HARLAN SPRAGUE DAWLEY RATS MALE 3000 ppm Male																										
DAY ON TEST	0729	0729	0731	0628	0730	0730	0731	0719	0732	0645	0631	0730	0669	0708	0732	0616	0732	0732	0674	0730	0731	0731	0730	0730	0731	
ANIMAL ID	00151	00152	00153	00154	00155	00156	00157	00158	00159	00160	00161	00162	00163	00164	00165	00166	00167	00168	00169	00170	00171	00172	00173	00174	00175	males (cont...)
Nerve Trigeminal								+																		
Peripheral Nerve								+																		
Axon, Sciatic, Degeneration								1																		
Spinal Cord								+																		
Axon, Degeneration								1																		
RESPIRATORY SYSTEM																										
Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Infiltration Cellular, Histiocyte			2	3			2	2	1	1	1		1	1	2	3	2	3	3	2	1	1	1	4		
Inflammation, Granulomatous																					1		1	2		
Inflammation, Acute																										
Inflammation, Chronic Active					1				1																	
Alveolar Epithelium, Hyperplasia						2											1									
Artery, Mineral																				1						
Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Accumulation, Hyaline Droplet			3																							
Inflammation, Acute										1	1							1								
Olfactory Epithelium, Accumulation, Hyaline Droplet	2	2	3	3	2	3	2	3	3	1		1	3	3	2	1	3	3	2	4	3		1	1	1	
Respiratory Epithelium, Accumulation, Hyaline Droplet													1							1						
Respiratory Epithelium, Squamous Metaplasia																										
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
SPECIAL SENSES SYSTEM																										

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DAY ON TEST	0729	0729	0731	0628	0730	0730	0731	0719	0732	0645	0631	0730	0669	0708	0732	0616	0732	0732	0674	0730	0731	0731	0730	0730	0731	
HARLAN SPRAGUE DAWLEY RATS MALE																										
3000 ppm Male ANIMAL ID	001551	001552	001553	001554	001555	001556	001557	001558	001559	001560	001561	001562	001563	001564	001565	001566	001567	001568	001569	001570	001571	001572	001573	001574	001575	**males (cont...)**
Eye	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Bilateral, Cornea, Inflammation, Acute																										
Choroid, Hyperplasia						2																				
Cornea, Inflammation, Acute								1																		
Retina, Dysplasia																										
Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
URINARY SYSTEM																										
Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Infarct	1											1		1		1										
Nephropathy, Chronic Progressive	3	2	2	2	3	3	3	3	2	4	4	3	3	2	3	2	3	3	4	2	2	2	1	2	2	
Epithelium, Papilla, Hyperplasia																			1							
Papilla, Hemorrhage			1										1													
Pelvis, Dilation																										
Renal Tubule, Cyst										X									X						X	
Renal Tubule, Dilation																										
Renal Tubule, Hyperplasia											2															
Renal Tubule, Hyperplasia, Atypical										2																
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Inflammation, Chronic Active										2																

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HARLAN SPRAGUE DAWLEY RATS MALE 3000 ppm Male																										
DAY ON TEST	0731	0731	0731	0730	0632	0534	0266	0730	0730	0732	0628	0729	0729	0729	0729	0732	0450	0732	0657	0729	0729	0732	0732	0713	0731	
ANIMAL ID	0017 6	0017 7	0017 8	0017 9	0018 0	0018 1	0018 2	0018 3	0018 4	0018 5	0018 6	0018 7	0018 8	0018 9	0019 0	0019 1	0019 2	0019 3	0019 4	0019 5	0019 6	0019 7	0019 8	0019 9	0020 0	* TOTALS
ALIMENTARY SYSTEM																										
Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Hyperplasia, Lymphocyte																										**1 2.0**
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Parasite Metazoan																						X				**2**
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Parasite Metazoan		X											X	X	X											**10**
Polyarteritis Nodosa						2																				**1 2.0**
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	**49**
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Hyperplasia, Lymphocyte																										**1 2.0**
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Angiectasis																							1			**1 1.0**
Basophilic Focus																										**4**
Cholangiofibrosis																										**1 2.0**
Clear Cell Focus	X	X	X	X		X		X	X	X		X	X	X	X	X		X		X	X	X	X		X	**36**
Degeneration, Cystic					1																					**1 1.0**
Eosinophilic Focus																										**2**
Extramedullary Hematopoiesis																										**1 1.0**
Mixed Cell Focus		X																								**3**

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HARLAN SPRAGUE DAWLEY RATS MALE

3000 ppm Male

DAY ON TEST	0731	0731	0731	0730	0632	0534	0266	0730	0730	0732	0628	0729	0729	0729	0729	0732	0450	0732	0657	0729	0729	0732	0732	0713	0731	
ANIMAL ID	0017 6	0017 7	0017 8	0017 9	0018 0	0018 1	0018 2	0018 3	0018 4	0018 5	0018 6	0018 7	0018 8	0018 9	0019 0	0019 1	0019 2	0019 3	0019 4	0019 5	0019 6	0019 7	0019 8	0019 9	0020 0	* TOTALS
Necrosis																	3		4		1					**6 1.8**
Pigment	2	2	2	2	2			2	2		1	2	1	2	1	2		2		1	2	2	2	1	2	**40 1.7**
Bile Duct, Dilation																										**1 2.0**
Bile Duct, Hyperplasia		1	1	1						1				1	1					1		1				**21 1.0**
Hepatocyte, Cytoplasmic Alteration	2				1	1	1	1		2		2				1				1			1	1	1	**28 1.3**
Hepatocyte, Hypertrophy																							1			**3 1.3**
Mesentery																										**1**
Artery, Mineral																										**1 1.0**
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Inflammation, Chronic Active																									3	**1 3.0**
Polyarteritis Nodosa	1													1	2											**6 1.3**
Acinus, Atrophy			1																							**3 1.3**
Acinus, Hyperplasia	4	2			2				4			4	4				1	4		4	4	1		4		**25 3.5**
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Inflammation, Chronic Active																										**1 2.0**
Mineral																										**1 2.0**
Polyarteritis Nodosa																							1			**1 1.0**
Ulcer																										**1 2.0**
Epithelium, Hyperplasia											4												2			**3 2.7**
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Mineral																										**1 1.0**

CARDIOVASCULAR SYSTEM

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1-4 .. Lesion qualified as:
1) Minimal 3) Moderate
2) Mild 4) Marked

HARLAN SPRAGUE DAWLEY RATS MALE

3000 ppm Male

DAY ON TEST	0731	0731	0731	0730	0632	0534	0266	0730	0730	0732	0628	0729	0729	0729	0729	0732	0450	0732	0657	0729	0729	0732	0732	0713	0731	
ANIMAL ID	0017 6	0017 7	0017 8	0017 9	0018 0	0018 1	0018 2	0018 3	0018 4	0018 5	0018 6	0018 7	0018 8	0018 9	0019 0	0019 1	0019 2	0019 3	0019 4	0019 5	0019 6	0019 7	0019 8	0019 9	0020 0	* TOTALS
Blood Vessel	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Aneurysm																										**1 1.0**
Degeneration																										**1 1.0**
Mineral																										**3 1.0**
Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Cardiomyopathy			1	1		2	1			1			1			1	1		1		1	1	1	1	1	**34 1.1**
Polyarteritis Nodosa		1												1												**2 1.0**
Valve, Fibrosis						2				1																**3 1.3**
ENDOCRINE SYSTEM																										
Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Degeneration, Cystic											1															**1 1.0**
Hemorrhage											2															**1 2.0**
Hyperplasia, Focal																							2			**4 2.0**
Hypertrophy, Focal													2	1								1				**6 1.3**
Metaplasia, Osseous																										**1 2.0**
Necrosis																			1							**1 1.0**
Thrombus																										**1 3.0**
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Hyperplasia, Focal															3										4	**8 1.9**
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Atrophy							2																			**1 2.0**
Hyperplasia									2																	**3 1.7**
Parathyroid Gland	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	M	+	**43**

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HARLAN SPRAGUE DAWLEY RATS MALE 3000 ppm Male																										
DAY ON TEST	0731	0731	0731	0730	0632	0534	0266	0730	0730	0732	0628	0729	0729	0729	0729	0732	0450	0732	0657	0729	0729	0732	0732	0713	0731	
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Hyperplasia, Diffuse																										1 3.0
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Pars Distalis, Hyperplasia	2	2	2	2								2		3	4	1					1	1				21 1.9
Pars Distalis, Hypertrophy	1	1		1										1		1	1	1		2	1		1			15 1.3
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
C-cell, Hyperplasia			3					3								4										8 2.0
Follicular Cell, Hyperplasia																										1 1.0
GENERAL BODY SYSTEM																										
NONE																										
GENITAL SYSTEM																										
Epididymis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Hypospermia																					1					3 1.7
Bilateral, Hypospermia			3			2																				5 2.8
Preputial Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Inflammation, Chronic Active																										1 4.0
Prostate	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Dorsal, Epithelium, Lateral, Hyperplasia																										1 1.0
Epithelium, Ventral, Hyperplasia			1							1																3 1.0
Ventral, Inflammation, Granulomatous																										1 4.0
Ventral, Inflammation, Chronic Active																										2 1.5
Seminal Vesicle	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Atrophy																										1 2.0

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2) Mild 4) Marked

HARLAN SPRAGUE DAWLEY RATS MALE

3000 ppm Male

DAY ON TEST	0731	0731	0731	0730	0632	0534	0266	0730	0730	0732	0628	0729	0729	0729	0729	0732	0450	0732	0657	0729	0729	0732	0732	0713	0731	
ANIMAL ID	0017 6	0017 7	0017 8	0017 9	0018 0	0018 1	0018 2	0018 3	0018 4	0018 5	0018 6	0018 7	0018 8	0018 9	0019 0	0019 1	0019 2	0019 3	0019 4	0019 5	0019 6	0019 7	0019 8	0019 9	0020 0	* TOTALS
Bilateral, Inflammation, Acute																										**1 2.0**
Testis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Edema				1					1					1						1						**9 1.1**
Bilateral, Edema			1		1					1					1	1		1	1		2	1				**14 1.2**
Bilateral, Polyarteritis Nodosa		2								1				2	2								2	2	2	**9 1.9**
Bilateral, Germinal Epithelium, Degeneration						2					4				1										1	**9 2.1**
Germinal Epithelium, Degeneration					1				1							1					1					**12 1.1**
Interstitial Cell, Hyperplasia, Focal																				1						**5 1.4**
HEMATOPOIETIC SYSTEM																										
Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Congestion													1													**2 1.0**
Hypercellularity		1	1	1	1	3	2	1	1				1	3		1	2	2	3	1		2	1	1	2	**34 1.9**
Lymph Node						+																				**1**
Deep Cervical, Infiltration Cellular, Histiocyte						2																				**1 2.0**
Deep Cervical, Pigment						2																				**1 2.0**
Lumbar, Infiltration Cellular, Histiocyte						3																				**1 3.0**
Lumbar, Pigment						3																				**1 3.0**
Lymph Node, Mandibular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Infiltration Cellular, Histiocyte													2													**1 2.0**
Inflammation, Chronic Active											3															**1 3.0**
Pigment													2													**1 2.0**
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Hemorrhage													2													**1 2.0**
Hyperplasia, Lymphocyte																										**1 2.0**

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
\+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue
M .. Missing tissue
A .. Autolysis precludes evaluation
BLANK .. Not examined microscopically
1-4 .. Lesion qualified as:
1) Minimal 3) Moderate
2) Mild 4) Marked

HARLAN SPRAGUE DAWLEY RATS MALE 3000 ppm Male																										
DAY ON TEST	0731	0731	0731	0730	0632	0534	0266	0730	0730	0732	0628	0729	0729	0729	0729	0732	0450	0732	0657	0729	0729	0732	0732	0713	0731	
ANIMAL ID	0017 6	0017 7	0017 8	0017 9	0018 0	0018 1	0018 2	0018 3	0018 4	0018 5	0018 6	0018 7	0018 8	0018 9	0019 0	0019 1	0019 2	0019 3	0019 4	0019 5	0019 6	0019 7	0019 8	0019 9	0020 0	* TOTALS
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Extramedullary Hematopoiesis	2	2	2	1	2	2	1	2	2	2	1	2	2	2	2	2	1			2	2	1	2	2	2	**47 1.8**
Pigment	2	1	1	1	1	1	2	2	2	2	2	2	1	1	2	1	2			1	2	2	2	2	1	**46 1.6**
White Pulp, Atrophy											4						2									**5 2.8**
Thymus	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	M	M	**47**
Atrophy	2	2	2	2	2	3	4	2	2	1		3	3	3	1	2	1	1	2	2	1	2				**45 2.1**
INTEGUMENTARY SYSTEM																										
Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Hyperplasia																										**1 4.0**
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Inflammation, Acute																	2									**1 2.0**
Inflammation, Chronic Active																		4								**1 4.0**
Ulcer																	3	2								**2 2.5**
Epidermis, Hyperplasia																		2								**1 2.0**
MUSCULOSKELETAL SYSTEM																										
Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Skeletal Muscle																										**1**
NERVOUS SYSTEM																										
Brain	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Inflammation, Acute																										**1 1.0**
Necrosis																	4		3							**2 3.5**

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
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M .. Missing tissue
A .. Autolysis precludes evaluation
BLANK .. Not examined microscopically
1-4 .. Lesion qualified as:
1) Minimal 3) Moderate
2) Mild 4) Marked

HARLAN SPRAGUE DAWLEY RATS MALE

3000 ppm Male

DAY ON TEST	0731	0731	0731	0730	0632	0534	0266	0730	0730	0732	0628	0729	0729	0729	0729	0732	0450	0732	0657	0729	0729	0732	0732	0713	0731	
ANIMAL ID	0017 6	0017 7	0017 8	0017 9	0018 0	0018 1	0018 2	0018 3	0018 4	0018 5	0018 6	0018 7	0018 8	0018 9	0019 0	0019 1	0019 2	0019 3	0019 4	0019 5	0019 6	0019 7	0019 8	0019 9	0020 0	* TOTALS
Nerve Trigeminal																										**1**
Peripheral Nerve																										**1**
Axon, Sciatic, Degeneration																										**1 1.0**
Spinal Cord																										**1**
Axon, Degeneration																										**1 1.0**
RESPIRATORY SYSTEM																										
Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Infiltration Cellular, Histiocyte	2		2			1	2	3	2	3	1	1						2		2		1			1	**32 1.8**
Inflammation, Granulomatous		1		1						1					1		1			1		1				**10 1.1**
Inflammation, Acute							1																			**1 1.0**
Inflammation, Chronic Active																										**2 1.0**
Alveolar Epithelium, Hyperplasia	3													1												**4 1.8**
Artery, Mineral																										**1 1.0**
Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Accumulation, Hyaline Droplet																										**1 3.0**
Inflammation, Acute							1																			**4 1.0**
Olfactory Epithelium, Accumulation, Hyaline Droplet	4	1	1	2	1			2	3	1		1	1	3	2	3	2	1	3		3	3	2	3	1	**44 2.2**
Respiratory Epithelium, Accumulation, Hyaline Droplet														1					1							**4 1.0**
Respiratory Epithelium, Squamous Metaplasia							1																			**1 1.0**
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
SPECIAL SENSES SYSTEM																										

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HARLAN SPRAGUE DAWLEY RATS MALE

3000 ppm Male

DAY ON TEST	0731	0731	0731	0730	0632	0534	0266	0730	0730	0732	0628	0729	0729	0729	0729	0732	0450	0732	0657	0729	0729	0732	0732	0713	0731		
ANIMAL ID	0017 6	0017 7	0017 8	0017 9	0018 0	0018 1	0018 2	0018 3	0018 4	0018 5	0018 6	0018 7	0018 8	0018 9	0019 0	0019 1	0019 2	0019 3	0019 4	0019 5	0019 6	0019 7	0019 8	0019 9	0020 0	* TOTALS	
Eye	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Bilateral, Cornea, Inflammation, Acute																									2	**1**	**2.0**
Choroid, Hyperplasia																										**1**	**2.0**
Cornea, Inflammation, Acute																			1							**2**	**1.0**
Retina, Dysplasia																									1	**1**	**1.0**
Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
URINARY SYSTEM																											
Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Infarct									1	1								1								**7**	**1.0**
Nephropathy, Chronic Progressive	3	3	1	2	1	4	1	2	2	3	4	3	2	3	3	1	1	2	1	1	2	2	3	3	4	**50**	**2.4**
Epithelium, Papilla, Hyperplasia																							1		1	**3**	**1.0**
Papilla, Hemorrhage																										**2**	**1.0**
Pelvis, Dilation															1									1		**2**	**1.0**
Renal Tubule, Cyst	X									X		X													X	**7**	
Renal Tubule, Dilation																	3		2							**2**	**2.5**
Renal Tubule, Hyperplasia																										**1**	**2.0**
Renal Tubule, Hyperplasia, Atypical																										**1**	**2.0**
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Inflammation, Chronic Active																										**1**	**2.0**

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HARLAN SPRAGUE DAWLEY RATS MALE **10000 ppm Male**																										
DAY ON TEST	0732	0732	0395	0732	0731	0731	0295	0731	0003	0673	0167	0732	0699	0730	0729	0729	0732	0645	0729	0729	0228	0730	0478	0731	0520	
ANIMAL ID	0020 1	0020 2	0020 3	0020 4	0020 5	0020 6	0020 7	0020 8	0020 9	0021 0	0021 1	0021 2	0021 3	0021 4	0021 5	0021 6	0021 7	0021 8	0021 9	0022 0	0022 1	0022 2	0022 3	0022 4	0022 5	**males (cont...)**
ALIMENTARY SYSTEM																										
Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Parasite Metazoan		X										X														
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Basophilic Focus						X		X				X	X		X		X	X	X	X				X		
Clear Cell Focus	X	X		X	X			X		X		X		X	X	X	X			X		X		X		
Degeneration, Cystic																										
Eosinophilic Focus		X				X										X		X				X				
Hypertrophy																			3							
Necrosis			2			1		1			2								1		2	1	1			
Pigment	2	3	1	3	3	3		3		1		3	2	1	3	2	3	3	2	2		3	2	3	2	
Regeneration																		2								
Bile Duct, Dilation																		3								
Bile Duct, Hyperplasia		1			1							1	1			1		2		1				1		
Hepatocyte, Cytoplasmic Alteration	3	3		1	4	3	3	4		2		1	1	4	3	2	3	2	4	2	2	3	1	4	1	
Hepatocyte, Hyperplasia																		3								

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2) Mild 4) Marked

DAY ON TEST	0732	0732	0395	0732	0731	0731	0295	0731	0003	0673	0167	0732	0699	0730	0729	0729	0732	0645	0729	0729	0228	0730	0478	0731	0520	
HARLAN SPRAGUE DAWLEY RATS MALE **10000 ppm Male** ANIMAL ID	00201	00202	00203	00204	00205	00206	00207	00208	00209	00210	00211	00212	00213	00214	00215	00216	00217	00218	00219	00220	00221	00222	00223	00224	00225	**males (cont...)**
Hepatocyte, Hypertrophy	1	2		1	1		1						2	1	1			3		1	3			2		
Mesentery																										
Artery, Mineral																										
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hemorrhage																									2	
Hyperplasia													1													
Polyarteritis Nodosa																										
Acinus, Atrophy																		2								
Acinus, Hyperplasia	4	2				3								4	2					3				4		
Duct, Inflammation, Chronic																										
Salivary Glands	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Inflammation, Chronic Active																		2								
Ulcer																		1								
Epithelium, Hyperplasia													1		2			3								
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Cyst, Squamous																										
Inflammation, Chronic																										
Mineral																										
CARDIOVASCULAR SYSTEM																										
Blood Vessel	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Mineral													2													

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HARLAN SPRAGUE DAWLEY RATS MALE

10000 ppm Male

DAY ON TEST	0732	0732	0395	0732	0731	0731	0295	0731	0003	0673	0167	0732	0699	0730	0729	0729	0732	0645	0729	0729	0228	0730	0478	0731	0520	
ANIMAL ID	00201	00202	00203	00204	00205	00206	00207	00208	00209	00210	00211	00212	00213	00214	00215	00216	00217	00218	00219	00220	00221	00222	00223	00224	00225	males (cont...)
Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Cardiomyopathy		1				1				1	1	1	1		1		1	1		2		2		2		
Inflammation, Chronic Active																										
Mineral																										
Necrosis																									1	
Necrosis, Focal																										
Polyarteritis Nodosa																										
Artery, Mineral													1													
Atrium, Thrombus																				2						
Valve, Fibrosis					1	1		2								1	3						2		2	
Valve, Thrombus																2	1								2	
ENDOCRINE SYSTEM																										
Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Cytoplasmic Alteration																										
Degeneration, Cystic																	1									
Hypertrophy, Focal																				2		1	1			
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hyperplasia, Focal		1																								
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hyperplasia															1											
Parathyroid Gland	+	+	+	M	M	M	+	+	M	+	+	M	+	+	M	+	+	+	+	+	M	M	+	+	+	
Pituitary Gland	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hemorrhage																										
Pars Distalis, Hyperplasia		2		1	1	2						1			2				1	1		1				

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HARLAN SPRAGUE DAWLEY RATS MALE 10000 ppm Male																										
DAY ON TEST	0732	0732	0395	0732	0731	0731	0295	0731	0003	0673	0167	0732	0699	0730	0729	0729	0732	0645	0729	0729	0228	0730	0478	0731	0520	
ANIMAL ID	00201	00202	00203	00204	00205	00206	00207	00208	00209	00210	00211	00212	00213	00214	00215	00216	00217	00218	00219	00220	00221	00222	00223	00224	00225	males (cont...)
Pars Distalis, Hypertrophy	3	2	2	2	3	2		3		3	3	3	3	2	2	2	2		3	3		2	2	2	2	
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
C-cell, Hyperplasia								2																		
Follicular Cell, Hyperplasia																										
GENERAL BODY SYSTEM																										
NONE																										
GENITAL SYSTEM																										
Epididymis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Bilateral, Hypospermia	4		4	3	4	4	4	4		4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	
Bilateral, Inflammation, Suppurative																										
Bilateral, Polyarteritis Nodosa			1																							
Bilateral, Duct, Exfoliated Germ Cell																							2	4		
Duct, Mineral																				1						
Preputial Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Prostate	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Dorsal, Lateral, Inflammation, Suppurative																										
Dorsal, Lateral, Inflammation, Acute														1												
Dorsal, Lateral, Inflammation, Chronic																										
Epithelium, Ventral, Hyperplasia																						1				
Ventral, Inflammation, Acute																										
Ventral, Inflammation, Chronic															3											
Ventral, Inflammation, Chronic Active																		3						2		

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\+ .. Tissue examined microscopically
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1-4 .. Lesion qualified as:
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2) Mild 4) Marked

HARLAN SPRAGUE DAWLEY RATS MALE 10000 ppm Male																										
DAY ON TEST	0732	0732	0395	0732	0731	0731	0295	0731	0003	0673	0167	0732	0699	0730	0729	0729	0732	0645	0729	0729	0228	0730	0478	0731	0520	
ANIMAL ID	0020 01	0020 02	0020 03	0020 04	0020 05	0020 06	0020 07	0020 08	0020 09	0021 10	0021 11	0021 12	0021 13	0021 14	0021 15	0021 16	0021 17	0021 18	0021 19	0022 20	0022 21	0022 22	0022 23	0022 24	0022 25	males (cont...)
Seminal Vesicle	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Bilateral, Inflammation, Suppurative																										
Bilateral, Inflammation, Acute																										
Bilateral, Inflammation, Chronic Active															1			3								
Testis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Edema				3								1			2	2								1		
Bilateral, Edema	2	3			3			2						3			2		2						2	
Bilateral, Polyarteritis Nodosa					1	2														1				4		
Bilateral, Germinal Epithelium, Degeneration	4	4	4	4	4	4	4			4		4	4		4	4	4	4	4	4	4	4		4	4	
Bilateral, Interstitial Cell, Hyperplasia, Focal											4			1						2						
Bilateral, Seminiferous Tubule, Dysgenesis														2												
Bilateral, Seminiferous Tubule, Mineral					3																					
Germinal Epithelium, Degeneration								4			3			4									4			
Interstitial Cell, Hyperplasia, Focal	2		1	2		2		2				2			1	4			1		4	1	4		2	
Seminiferous Tubule, Dysgenesis								2	1											2				1		
Tunic, Edema					3																					
HEMATOPOIETIC SYSTEM																										
Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Congestion																										
Hypercellularity	2	1	1			3	3	1			3		3	1	1	2	3	4	3	3	2		3		2	
Hypocellularity									2																	
Lymph Node																										
Mediastinal, Hyperplasia, Lymphocyte																										
Lymph Node, Mandibular	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	

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\+ .. Tissue examined microscopically
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BLANK .. Not examined microscopically
1-4 .. Lesion qualified as:
1) Minimal 3) Moderate
2) Mild 4) Marked

HARLAN SPRAGUE DAWLEY RATS MALE **10000 ppm Male**																										
DAY ON TEST	0732	0732	0395	0732	0731	0731	0295	0731	0003	0673	0167	0732	0699	0730	0729	0729	0732	0645	0729	0729	0228	0730	0478	0731	0520	
ANIMAL ID	0020 1	0020 2	0020 3	0020 4	0020 5	0020 6	0020 7	0020 8	0020 9	0021 0	0021 1	0021 2	0021 3	0021 4	0021 5	0021 6	0021 7	0021 8	0021 9	0022 0	0022 1	0022 2	0022 3	0022 4	0022 5	**males (cont...)**
Atrophy																										
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Atrophy					1				3				1													
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Extramedullary Hematopoiesis	1	2		1	1	2		2		2		2	1	1	2	2	3	3	2	2		1	2	1	2	
Pigment	1	1	2	2	1			1		1	2	2	2	1	1	1	1		1		1	1	1	1	1	
White Pulp, Atrophy									2												2					
White Pulp, Hyperplasia													2													
Thymus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	
Atrophy	1		3	2	2	3		1		3	3	2	4	1		2	2		2	1		2	2		2	
Atrophy, Lymphocyte									2																	
INTEGUMENTARY SYSTEM																										
Mammary Gland	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
MUSCULOSKELETAL SYSTEM																										
Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Cartilage, Joint, Degeneration					1			1																		
NERVOUS SYSTEM																										
Brain	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Gliosis																				2						
Inflammation, Acute																										

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HARLAN SPRAGUE DAWLEY RATS MALE **10000 ppm Male**																										
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ANIMAL ID	0020 1	0020 2	0020 3	0020 4	0020 5	0020 6	0020 7	0020 8	0020 9	0021 0	0021 1	0021 2	0021 3	0021 4	0021 5	0021 6	0021 7	0021 8	0021 9	0022 0	0022 1	0022 2	0022 3	0022 4	0022 5	**males (cont...)**
Necrosis			4								4									2						
RESPIRATORY SYSTEM																										
Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Infiltration Cellular, Histiocyte	1	1	1	2	2	2		2		1				2		1	2	2	2	1		1	2	2	2	
Inflammation, Granulomatous						1		2								1	1		1	1				1		
Inflammation, Chronic Active													2													
Alveolar Epithelium, Hyperplasia								1												1						
Artery, Mineral																										
Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Foreign Body			X																							
Inflammation, Suppurative			2																							
Inflammation, Acute													2											1		
Glands, Respiratory Epithelium, Dilation					2																					
Olfactory Epithelium, Accumulation, Hyaline Droplet	3	1			1	3	2	1				3		4	3	1	4	1	3	3		2	1	2	1	
Olfactory Epithelium, Metaplasia, Respiratory																										
Respiratory Epithelium, Hyperplasia																								1		
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Inflammation, Chronic Active													3													
SPECIAL SENSES SYSTEM																										
Eye	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Bilateral, Cornea, Inflammation, Acute													2													
Cornea, Inflammation, Acute																										
Retina, Degeneration					2																			1		

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HARLAN SPRAGUE DAWLEY RATS MALE **10000 ppm Male**																										
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ANIMAL ID	00201	00202	00203	00204	00205	00206	00207	00208	00209	00210	00211	00212	00213	00214	00215	00216	00217	00218	00219	00220	00221	00222	00223	00224	00225	**males (cont...)**
Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Inflammation, Chronic Active																			3							
URINARY SYSTEM																										
Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Infarct	1					1		1		1			1			1	2	1		1						
Inflammation, Acute																										
Inflammation, Chronic Active																										
Mineral									1				1													
Nephropathy, Chronic Progressive	2	2	2	1	1	3	1	3			1	2	1	2	2	1	3	3	2	3	1	2	1	3	1	
Artery, Mineral				1																						
Cortex, Hemorrhage																										
Epithelium, Papilla, Hyperplasia	1		1			1		1						2		1	2					1				
Papilla, Edema	3	1	2	2		2	1	2		2	2	2	3	2	2	3	3		2	1		2	2	1	2	
Papilla, Hemorrhage	2				1							1	2			1				2					2	
Pelvis, Dilation																										
Pelvis, Inflammation, Acute																		3								
Pelvis, Inflammation, Chronic Active															2											
Renal Tubule, Cyst						X													X							
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Inflammation, Chronic																		1								

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HARLAN SPRAGUE DAWLEY RATS MALE

10000 ppm Male

DAY ON TEST	0413	0730	0730	0732	0226	0003	0099	0732	0732	0730	0295	0731	0731	0717	0732	0727	0731	0729	0003	0730	0729	0003	0005	0003	0729	
ANIMAL ID	0026	0027	0028	0029	0030	0031	0032	0033	0034	0035	0036	0037	0038	0039	0040	0041	0042	0043	0044	0045	0046	0047	0048	0049	0050	* TOTALS
ALIMENTARY SYSTEM																										
Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	**48**
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	**49**
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	**49**
Parasite Metazoan		X	X	X				X																	X	**7**
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	**49**
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	**49**
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	**49**
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	**49**
Basophilic Focus				X								X		X	X	X					X				X	**17**
Clear Cell Focus		X	X	X				X	X	X		X	X		X	X	X	X		X					X	**28**
Degeneration, Cystic									1																1	**2 1.0**
Eosinophilic Focus				X					X					X						X	X				X	**11**
Hypertrophy																										**1 3.0**
Necrosis			1		2					1										1	1					**13 1.3**
Pigment		3	3	3	1			3	3	3		3	3	3	3	3	2	2		2	3				3	**38 2.5**
Regeneration																										**1 2.0**
Bile Duct, Dilation																										**1 3.0**
Bile Duct, Hyperplasia			1				1	1	1								1	1							1	**15 1.1**
Hepatocyte, Cytoplasmic Alteration		3	2	3				3	3	2		3	2	3	2	3	1	3		3					3	**37 2.6**
Hepatocyte, Hyperplasia																										**1 3.0**

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HARLAN SPRAGUE DAWLEY RATS MALE 10000 ppm Male																										
DAY ON TEST	0413	0730	0730	0732	0226	0003	0099	0732	0732	0730	0295	0731	0731	0717	0732	0727	0731	0729	0003	0730	0729	0003	0005	0003	0729	
ANIMAL ID	0026	0027	0028	0029	0030	0031	0032	0033	0034	0035	0036	0037	0038	0039	0040	0041	0042	0043	0044	0045	0046	0047	0048	0049	0050	* TOTALS
Hepatocyte, Hypertrophy		1						2	2			2													1	**17 1.6**
Mesentery							+																			**1**
Artery, Mineral							2																			**1 2.0**
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	**49**
Hemorrhage																										**1 2.0**
Hyperplasia																										**1 1.0**
Polyarteritis Nodosa		2																3								**2 2.5**
Acinus, Atrophy																										**1 2.0**
Acinus, Hyperplasia			2							4			4		4	3		2		4					4	**15 3.3**
Duct, Inflammation, Chronic		4																								**1 4.0**
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**49**
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	**49**
Inflammation, Chronic Active																										**1 2.0**
Ulcer																										**1 1.0**
Epithelium, Hyperplasia													2	3	1											**6 2.0**
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	**49**
Cyst, Squamous													X													**1**
Inflammation, Chronic		1																								**1 1.0**
Mineral							2																			**1 2.0**
CARDIOVASCULAR SYSTEM																										
Blood Vessel	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	**49**
Mineral							4																			**2 3.0**

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HARLAN SPRAGUE DAWLEY RATS MALE

10000 ppm Male

DAY ON TEST	0413	0730	0730	0732	0226	0003	0099	0732	0732	0730	0295	0731	0731	0717	0732	0727	0731	0729	0003	0730	0729	0003	0005	0003	0729	
ANIMAL ID	0026	0027	0028	0029	0030	0031	0032	0033	0034	0035	0036	0037	0038	0039	0040	0041	0042	0043	0044	0045	0046	0047	0048	0049	0050	* TOTALS
Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	49
Cardiomyopathy	1	1	1				2		1	1	2				1			1								21 1.2
Inflammation, Chronic Active	2																									1 2.0
Mineral							3																			1 3.0
Necrosis					1																3					3 1.7
Necrosis, Focal	2																									1 2.0
Polyarteritis Nodosa																				1						1 1.0
Artery, Mineral																										1 1.0
Atrium, Thrombus																										1 2.0
Valve, Fibrosis									3		1				1	2										11 1.7
Valve, Thrombus											2					1					3					6 1.8
ENDOCRINE SYSTEM																										
Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	49
Cytoplasmic Alteration														3												1 3.0
Degeneration, Cystic																				1	1					3 1.0
Hypertrophy, Focal																										3 1.3
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	49
Hyperplasia, Focal																									2	2 1.5
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	49
Hyperplasia																										1 1.0
Parathyroid Gland	+	+	+	M	+	M	M	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	38
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Hemorrhage															2											1 2.0
Pars Distalis, Hyperplasia			1						1	1							4			1						14 1.4

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HARLAN SPRAGUE DAWLEY RATS MALE

10000 ppm Male

DAY ON TEST	0413	0730	0730	0732	0226	0003	0099	0732	0732	0730	0295	0731	0731	0717	0732	0727	0731	0729	0003	0730	0729	0003	0005	0003	0729		
ANIMAL ID	0026	0027	0028	0029	0030	0031	0032	0033	0034	0035	0036	0037	0038	0039	0040	0041	0042	0043	0044	0045	0046	0047	0048	0049	0050	* TOTALS	
Pars Distalis, Hypertrophy	3	3	2	2	3			2	3	2	1	3	2		3		2	2		2					2	37	2.4
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
C-cell, Hyperplasia																				1						2	1.5
Follicular Cell, Hyperplasia				2																						1	2.0

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

Epididymis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	49	
Bilateral, Hypospermia	4	4	4	4	4		4	4	4	4	4	4	4	4	4	4	4	4		4	4				4	43	4.0
Bilateral, Inflammation, Suppurative														4												1	4.0
Bilateral, Polyarteritis Nodosa																										1	1.0
Bilateral, Duct, Exfoliated Germ Cell																										2	3.0
Duct, Mineral																										1	1.0
Preputial Gland	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	48	
Prostate	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	49	
Dorsal, Lateral, Inflammation, Suppurative														4												1	4.0
Dorsal, Lateral, Inflammation, Acute							1																			2	1.0
Dorsal, Lateral, Inflammation, Chronic		1																								1	1.0
Epithelium, Ventral, Hyperplasia																1		1								3	1.0
Ventral, Inflammation, Acute																	1									1	1.0
Ventral, Inflammation, Chronic																										1	3.0
Ventral, Inflammation, Chronic Active																										2	2.5

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HARLAN SPRAGUE DAWLEY RATS MALE

10000 ppm Male

DAY ON TEST	0413	0730	0730	0732	0226	0003	0099	0732	0732	0730	0295	0731	0731	0717	0732	0727	0731	0729	0003	0730	0729	0003	0005	0003	0729	* TOTALS	
ANIMAL ID	0026	0027	0028	0029	0030	0031	0032	0033	0034	0035	0036	0037	0038	0039	0040	0041	0042	0043	0044	0045	0046	0047	0048	0049	0050		
Seminal Vesicle	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	**49**	
Bilateral, Inflammation, Suppurative														1												**1**	**1.0**
Bilateral, Inflammation, Acute							1								1											**2**	**1.0**
Bilateral, Inflammation, Chronic Active																		2								**3**	**2.0**
Testis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	**49**	
Edema																										**5**	**1.8**
Bilateral, Edema		2	1	2				2	2	2		1	2		2										2	**18**	**2.1**
Bilateral, Polyarteritis Nodosa		2																3								**6**	**2.2**
Bilateral, Germinal Epithelium, Degeneration			4	4	4		3	4	4	4	4	4	4	4	4	4	4	4			4				4	**37**	**4.0**
Bilateral, Interstitial Cell, Hyperplasia, Focal			1		2												4					3				**7**	**2.4**
Bilateral, Seminiferous Tubule, Dysgenesis	3																									**2**	**2.5**
Bilateral, Seminiferous Tubule, Mineral											3															**2**	**3.0**
Germinal Epithelium, Degeneration	4	4																		4						**7**	**3.9**
Interstitial Cell, Hyperplasia, Focal				2				2	2	2	4	2	2			2					2				3	**23**	**2.2**
Seminiferous Tubule, Dysgenesis			1			1	2												1							**8**	**1.4**
Tunic, Edema																										**1**	**3.0**

HEMATOPOIETIC SYSTEM

Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Congestion																		4								**1**	**4.0**
Hypercellularity	3	1	1	1	2		3	3	2	2	3	1	1	3			1	2		1	3				1	**36**	**2.1**
Hypocellularity						2													2				3	4		**5**	**2.6**
Lymph Node								+																		**1**	
Mediastinal, Hyperplasia, Lymphocyte								2																		**1**	**2.0**
Lymph Node, Mandibular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**49**	

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1-4 .. Lesion qualified as:
1) Minimal 3) Moderate
2) Mild 4) Marked

HARLAN SPRAGUE DAWLEY RATS MALE 10000 ppm Male																										
DAY ON TEST	0413	0730	0730	0732	0226	0003	0099	0732	0732	0730	0295	0731	0731	0717	0732	0727	0731	0729	0003	0730	0729	0003	0005	0003	0729	
ANIMAL ID	0026	0027	0028	0029	0030	0031	0032	0033	0034	0035	0036	0037	0038	0039	0040	0041	0042	0043	0044	0045	0046	0047	0048	0049	0050	* TOTALS
Atrophy						4													4			2	3	2		**5 3.0**
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	M	+	**48**
Atrophy						4													3			2				**6 2.3**
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	**49**
Extramedullary Hematopoiesis	3	1	1	2				2			3	2	2		2	2	2	2		2	1	1			2	**36 1.8**
Pigment	1	1	1	1	2		1		1	1		2	2	3	1	2	1	1		1	1				1	**38 1.3**
White Pulp, Atrophy	2				2	3								4					2		3		4			**9 2.7**
White Pulp, Hyperplasia																										**1 2.0**
Thymus	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	M	+	**47**
Atrophy	3	1	2	1	1		4	2	2	3		1	4		2	3	2	2		2	3				1	**36 2.1**
Atrophy, Lymphocyte						3													2			4	3			**5 2.8**
INTEGUMENTARY SYSTEM																										
Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	**48**
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
MUSCULOSKELETAL SYSTEM																										
Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Cartilage, Joint, Degeneration																										**2 1.0**
NERVOUS SYSTEM																										
Brain	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**49**
Gliosis																										**1 2.0**
Inflammation, Acute																					2					**1 2.0**

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
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M .. Missing tissue
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1-4 .. Lesion qualified as:
1) Minimal 3) Moderate
2) Mild 4) Marked

HARLAN SPRAGUE DAWLEY RATS MALE

10000 ppm Male

DAY ON TEST	0413	0730	0730	0732	0226	0003	0099	0732	0732	0730	0295	0731	0731	0717	0732	0727	0731	0729	0003	0730	0729	0003	0005	0003	0729		
ANIMAL ID	0026	0027	0028	0029	0030	0031	0032	0033	0034	0035	0036	0037	0038	0039	0040	0041	0042	0043	0044	0045	0046	0047	0048	0049	0050	* TOTALS	
Necrosis					4																					**4**	**3.5**
RESPIRATORY SYSTEM																											
Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	**49**	
Infiltration Cellular, Histiocyte	1	2		1				2	2	1	3			1	3	2	1	2			1				1	**32**	**1.6**
Inflammation, Granulomatous																1		1								**9**	**1.1**
Inflammation, Chronic Active	3		1																		1					**4**	**1.8**
Alveolar Epithelium, Hyperplasia			2																							**3**	**1.3**
Artery, Mineral							1																			**1**	**1.0**
Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Foreign Body																										**1**	
Inflammation, Suppurative		1																								**2**	**1.5**
Inflammation, Acute								1	1								1									**5**	**1.2**
Glands, Respiratory Epithelium, Dilation																										**1**	**2.0**
Olfactory Epithelium, Accumulation, Hyaline Droplet	1		2	1	2			2	2	3		2	3	2	1	2				1	2				2	**33**	**2.0**
Olfactory Epithelium, Metaplasia, Respiratory																	1									**1**	**1.0**
Respiratory Epithelium, Hyperplasia																										**1**	**1.0**
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Inflammation, Chronic Active																										**1**	**3.0**
SPECIAL SENSES SYSTEM																											
Eye	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**49**	
Bilateral, Cornea, Inflammation, Acute																										**1**	**2.0**
Cornea, Inflammation, Acute																				1						**1**	**1.0**
Retina, Degeneration																										**2**	**1.5**

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M .. Missing tissue
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1) Minimal 3) Moderate
2) Mild 4) Marked

HARLAN SPRAGUE DAWLEY RATS MALE

10000 ppm Male

DAY ON TEST	0413	0730	0730	0732	0226	0003	0099	0732	0732	0730	0295	0731	0731	0717	0732	0727	0731	0729	0003	0730	0729	0003	0005	0003	0729		
ANIMAL ID	0026	0027	0028	0029	0030	0031	0032	0033	0034	0035	0036	0037	0038	0039	0040	0041	0042	0043	0044	0045	0046	0047	0048	0049	0050	* TOTALS	
Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Inflammation, Chronic Active																										**1**	**3.0**
URINARY SYSTEM																											
Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	**49**	
Infarct		1							1	1			1		1	1				1	2					**17**	**1.1**
Inflammation, Acute							3																			**1**	**3.0**
Inflammation, Chronic Active														3												**1**	**3.0**
Mineral							2																			**3**	**1.3**
Nephropathy, Chronic Progressive	2	2	3	1	1			1	1	1		2	2	4	1	2	2	2		2	2				2	**41**	**1.9**
Artery, Mineral																										**1**	**1.0**
Cortex, Hemorrhage							2																			**1**	**2.0**
Epithelium, Papilla, Hyperplasia			2	1	1				1			1	1		1	2									1	**17**	**1.2**
Papilla, Edema	2	3	3	3	2		1	2	3	2		3	3		3	2	2	3		3	2				3	**39**	**2.2**
Papilla, Hemorrhage		1						2	2						1					3						**12**	**1.7**
Pelvis, Dilation							2																1		1	**3**	**1.3**
Pelvis, Inflammation, Acute																										**1**	**3.0**
Pelvis, Inflammation, Chronic Active																										**1**	**2.0**
Renal Tubule, Cyst									X			X				X										**5**	
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	M	+	**48**	
Inflammation, Chronic																										**1**	**1.0**

*** END OF MALE DATA ***

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2) Mild 4) Marked

HARLAN SPRAGUE DAWLEY RATS FEMALE 0 ppm Female																										
DAY ON TEST	073 7	073 7	072 5	072 4	064 5	073 7	073 7	040 6	073 5	073 5	073 5	073 5	062 5	068 9	073 7	073 7	073 2	073 2	073 2	064 5	073 6	072 6	073 6	058 8	036 8	
ANIMAL ID	002 51	002 52	002 53	002 54	002 55	002 56	002 57	002 58	002 59	002 60	002 61	002 62	002 63	002 64	002 65	002 66	002 67	002 68	002 69	002 70	002 71	002 72	002 73	002 74	002 75	females (cont...)
ALIMENTARY SYSTEM																										
Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Parasite Metazoan																										
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Parasite Metazoan									X			X							X							
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hyperplasia, Lymphocyte																										
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Angiectasis									1																	
Basophilic Focus									X																	
Cholangiofibrosis																										
Clear Cell Focus							X		X	X									X		X					
Eosinophilic Focus	X																			X						
Extramedullary Hematopoiesis			1						1				1							1						
Hepatodiaphragmatic Nodule										X																
Necrosis																										
Bile Duct, Hyperplasia	1	1																		1						

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1) Minimal 3) Moderate
2) Mild 4) Marked

HARLAN SPRAGUE DAWLEY RATS FEMALE 0 ppm Female																										
DAY ON TEST	073 7	073 7	072 5	072 4	064 5	073 7	073 7	040 6	073 5	073 5	073 5	073 5	062 5	068 9	073 7	073 7	073 2	073 2	073 2	064 5	073 6	072 6	073 6	058 8	036 8	females (cont...)
ANIMAL ID	002 51	002 52	002 53	002 54	002 55	002 56	002 57	002 58	002 59	002 60	002 61	002 62	002 63	002 64	002 65	002 66	002 67	002 68	002 69	002 70	002 71	002 72	002 73	002 74	002 75	
Mesentery					+																					
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Basophilic Focus																										
Polyarteritis Nodosa																										
Acinus, Atrophy																										
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Inflammation, Chronic Active																						1				
Ulcer																						2				
Epithelium, Hyperplasia						1								1								2				
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Mineral									1	1								1		1						
Glands, Dysplasia																				1						
CARDIOVASCULAR SYSTEM																										
Blood Vessel	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Cardiomyopathy			1					1	1										1	1		1			1	
ENDOCRINE SYSTEM																										
Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Angiectasis																										
Degeneration, Cystic						1					1		1		1	1							1			

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HARLAN SPRAGUE DAWLEY RATS FEMALE

0 ppm Female

DAY ON TEST	0737	0737	0725	0724	0645	0737	0737	0406	0735	0735	0735	0735	0625	0689	0737	0737	0732	0732	0732	0645	0736	0726	0736	0588	0368	
ANIMAL ID	0025 1	0025 2	0025 3	0025 4	0025 5	0025 6	0025 7	0025 8	0025 9	0026 0	0026 1	0026 2	0026 3	0026 4	0026 5	0026 6	0026 7	0026 8	0026 9	0027 0	0027 1	0027 2	0027 3	0027 4	0027 5	**females (cont...)**
Extramedullary Hematopoiesis			1																							
Hyperplasia																										
Thrombus																										
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hyperplasia																2										
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hyperplasia																							1			
Parathyroid Gland	+	+	+	+	M	+	+	+	+	+	+	+	M	+	+	M	+	+	+	+	+	+	+	+	+	
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Pars Distalis, Hyperplasia	2		3	2							3		2	3	3			1								
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
C-cell, Hyperplasia		1					1			4				2					2				2		1	

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

Clitoral Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Inflammation, Chronic Active																										
Ovary	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Bilateral, Atrophy	3	2	3	2	3	3		2	3	3	3	3	2	3	3	3	1	3	2		3		3	2	2	
Bilateral, Follicle, Cyst																										
Bursa, Cyst														X	X											

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HARLAN SPRAGUE DAWLEY RATS FEMALE 0 ppm Female																									
DAY ON TEST	0737	0737	0725	0724	0645	0737	0737	0406	0735	0735	0735	0735	0625	0689	0737	0737	0732	0732	0732	0645	0736	0726	0736	0588	0368
ANIMAL ID	00251	00252	00253	00254	00255	00256	00257	00258	00259	00260	00261	00262	00263	00264	00265	00266	00267	00268	00269	00270	00271	00272	00273	00274	00275
Follicle, Cyst						X	X														X				
Paraovarian Tissue, Cyst		X																							
Uterus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Adenomyosis																									
Cyst, Squamous																									
Dilation	3																								
Hyperplasia, Stromal																			3						
Inflammation, Suppurative												3	2												
Inflammation, Chronic Active	2																								
Thrombus																									
Endometrium, Hyperplasia, Atypical												4													
Endometrium, Hyperplasia, Cystic		3	1	2		1		2	1	1	3		2	1		2		2			3		1		
Endometrium, Squamous Metaplasia		2		3				2		1	2	3	2	1	1	1		2			2		2		1
Vagina	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Prolapse													X												
HEMATOPOIETIC SYSTEM																									
Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Congestion	2																								
Hypercellularity	3	2	4	4	4	2	1	3		2	1	1	3	4	2	2		1	3	4			1		4
Myelofibrosis																						2			
Lymph Node, Mandibular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Atrophy			2																						
Hemorrhage																									

females (cont...)

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HARLAN SPRAGUE DAWLEY RATS FEMALE 0 ppm Female																										
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ANIMAL ID	00251	00252	00253	00254	00255	00256	00257	00258	00259	00260	00261	00262	00263	00264	00265	00266	00267	00268	00269	00270	00271	00272	00273	00274	00275	females (cont...)
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Extramedullary Hematopoiesis	2	2	3		1	2	1		2	2	2	2	2	3	2	2	2	2	2	3	2	3	2		3	
Hemorrhage																										
Pigment	2	1	1	1	1	2	2	2	2	1	1	1	2		2	1	2	2	1		1	1	2	3	1	
White Pulp, Atrophy				3	3			3																2		
Thymus	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	
Atrophy	2	2	2	4	3	1	1	1	3	1	3	1	2		3	1	1	3	2	2	3	4	2	1	3	
INTEGUMENTARY SYSTEM																										
Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Galactocele										4																
Hyperplasia										2					1	1	2				1	2				
Infiltration Cellular, Mononuclear Cell																						3				
Inflammation, Chronic						2																				
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
MUSCULOSKELETAL SYSTEM																										
Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Osteopetrosis																						4				
Skeletal Muscle																				+						
Hemorrhage																				4						
NERVOUS SYSTEM																										
Brain	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	

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HARLAN SPRAGUE DAWLEY RATS FEMALE 0 ppm Female																										
DAY ON TEST	0737	0737	0725	0724	0645	0737	0737	0406	0735	0735	0735	0735	0625	0689	0737	0737	0732	0732	0732	0645	0736	0726	0736	0588	0368	
ANIMAL ID	00251	00252	00253	00254	00255	00256	00257	00258	00259	00260	00261	00262	00263	00264	00265	00266	00267	00268	00269	00270	00271	00272	00273	00274	00275	**females (cont...)**
Hemorrhage																										
Necrosis								4												1						
RESPIRATORY SYSTEM																										
Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hyperplasia, Lymphocyte																										
Infiltration Cellular, Histiocyte	2	3	2	3	2	2	2	1	3	1	2	2	3		2	2	2	2	2	1	3		2	1	2	
Inflammation, Granulomatous				1					1	1											1					
Inflammation, Chronic Active					1																					
Alveolar Epithelium, Hyperplasia					2																					
Bronchiole, Hyperplasia																					1					
Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Inflammation, Chronic Active																				2						
Olfactory Epithelium, Accumulation, Hyaline Droplet	1	3	3	3	2	4	3	3	3	3	3	3	3	2	3	3	3	3	3	2	4	3	2	2	2	
Respiratory Epithelium, Accumulation, Hyaline Droplet						1			1					1	1					1					1	
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
SPECIAL SENSES SYSTEM																										
Eye	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Lens, Cataract																		2								
Retina, Degeneration																										
Retina, Dysplasia																										
Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	

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BLANK .. Not examined microscopically
1-4 .. Lesion qualified as:
1) Minimal 3) Moderate
2) Mild 4) Marked

HARLAN SPRAGUE DAWLEY RATS FEMALE																										
DAY ON TEST	073	073	072	072	064	073	073	040	073	073	073	073	062	068	073	073	073	073	073	064	073	072	073	058	036	
0 ppm Female ANIMAL ID	0025 1	0025 2	0025 3	0025 4	0025 5	0025 6	0025 7	0025 8	0025 9	0026 0	0026 1	0026 2	0026 3	0026 4	0026 5	0026 6	0026 7	0026 8	0026 9	0027 0	0027 1	0027 2	0027 3	0027 4	0027 5	**females (cont...)**
Atrophy																						2				
Lacrimal Gland																						+				
URINARY SYSTEM																										
Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Nephropathy, Chronic Progressive	1	1	1		2	1	1	3	2	1	1		2	1	1	1	1	1		1	1	1		1	1	
Epithelium, Papilla, Hyperplasia																				1						
Papilla, Necrosis		1																								
Renal Tubule, Accumulation, Hyaline Droplet								1												3						
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	

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HARLAN SPRAGUE DAWLEY RATS FEMALE

0 ppm Female

DAY ON TEST	0689	0736	0736	0445	0732	0732	0732	0735	0728	0634	0616	0732	0732	0732	0560	0592	0524	0736	0736	0736	0736	0561	0736	0735	0735		
ANIMAL ID	0027 6	0027 7	0027 8	0027 9	0028 0	0028 1	0028 2	0028 3	0028 4	0028 5	0028 6	0028 7	0028 8	0028 9	0029 0	0029 1	0029 2	0029 3	0029 4	0029 5	0029 6	0029 7	0029 8	0029 9	0030 0	* TOTALS	
ALIMENTARY SYSTEM																											
Esophagus	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**49**	
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Parasite Metazoan																	X		X							**2**	
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Parasite Metazoan						X					X						X			X				X		**8**	
Intestine Small, Duodenum	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**49**	
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Hyperplasia, Lymphocyte								3																		**1**	**3.0**
Liver	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**49**	
Angiectasis																										**1**	**1.0**
Basophilic Focus		X						X				X														**4**	
Cholangiofibrosis					1																					**1**	**1.0**
Clear Cell Focus		X	X		X							X	X					X		X				X	X	**14**	
Eosinophilic Focus																								X		**3**	
Extramedullary Hematopoiesis								1		1						1										**7**	**1.0**
Hepatodiaphragmatic Nodule					X																					**2**	
Necrosis								1	2								3									**3**	**2.0**
Bile Duct, Hyperplasia			1					1				1						2				1		2		**9**	**1.2**

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1) Minimal 3) Moderate
2) Mild 4) Marked

HARLAN SPRAGUE DAWLEY RATS FEMALE

0 ppm Female

DAY ON TEST	0689	0736	0736	0445	0732	0732	0732	0735	0728	0634	0616	0732	0732	0732	0560	0592	0524	0736	0736	0736	0736	0561	0736	0735	0735	* TOTALS		
ANIMAL ID	0027 6	0027 7	0027 8	0027 9	0028 0	0028 1	0028 2	0028 3	0028 4	0028 5	0028 6	0028 7	0028 8	0028 9	0029 0	0029 1	0029 2	0029 3	0029 4	0029 5	0029 6	0029 7	0029 8	0029 9	0030 0			
Mesentery																										**1**		
Pancreas	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**49**		
Basophilic Focus							X																				**1**	
Polyarteritis Nodosa																					1						**1**	**1.0**
Acinus, Atrophy															1												**1**	**1.0**
Salivary Glands	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**49**		
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**		
Inflammation, Chronic Active	2																										**2**	**1.5**
Ulcer																											**1**	**2.0**
Epithelium, Hyperplasia	2																										**4**	**1.5**
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**		
Mineral											1										1						**6**	**1.0**
Glands, Dysplasia																											**1**	**1.0**
CARDIOVASCULAR SYSTEM																												
Blood Vessel	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**49**		
Heart	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**49**		
Cardiomyopathy								1						1										1			**10**	**1.0**
ENDOCRINE SYSTEM																												
Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**		
Angiectasis			2																								**1**	**2.0**
Degeneration, Cystic							1	2	1									1	1					1			**12**	**1.1**

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1-4 .. Lesion qualified as:
1) Minimal 3) Moderate
2) Mild 4) Marked

HARLAN SPRAGUE DAWLEY RATS FEMALE

0 ppm Female

DAY ON TEST	0689	0736	0736	0445	0732	0732	0732	0735	0728	0634	0616	0732	0732	0732	0560	0592	0524	0736	0736	0736	0736	0561	0736	0735	0735		
ANIMAL ID	00276	00277	00278	00279	00280	00281	00282	00283	00284	00285	00286	00287	00288	00289	00290	00291	00292	00293	00294	00295	00296	00297	00298	00299	00300	* TOTALS	
Extramedullary Hematopoiesis																										**1**	**1.0**
Hyperplasia																		2								**1**	**2.0**
Thrombus																	2	2								**2**	**2.0**
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Hyperplasia																										**1**	**2.0**
Islets, Pancreatic	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**49**	
Hyperplasia		3																1								**3**	**1.7**
Parathyroid Gland	+	+	+	M	+	+	+	+	M	M	+	+	M	+	+	+	+	+	+	+	+	+	+	+	M	**42**	
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	**49**	
Pars Distalis, Hyperplasia	1	3	3			1			1			2	3						3	3			2		2	**19**	**2.3**
Thyroid Gland	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**49**	
C-cell, Hyperplasia						1				3		1	4							3	1				1	**14**	**1.9**

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

Clitoral Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Inflammation, Chronic Active																						4				**1**	**4.0**
Ovary	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Bilateral, Atrophy	3	2	2	3			3	2		3	3	2	4	2	3				2	3	3	2	2		3	**40**	**2.6**
Bilateral, Follicle, Cyst					X																					**1**	
Bursa, Cyst																		X				X				**4**	

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1-4 .. Lesion qualified as:
1) Minimal 3) Moderate
2) Mild 4) Marked

HARLAN SPRAGUE DAWLEY RATS FEMALE

0 ppm Female

DAY ON TEST	0689	0736	0736	0445	0732	0732	0732	0735	0728	0634	0616	0732	0732	0732	0560	0592	0524	0736	0736	0736	0561	0736	0735	0735		
ANIMAL ID	0027 6	0027 7	0027 8	0027 9	0028 0	0028 1	0028 2	0028 3	0028 4	0028 5	0028 6	0028 7	0028 8	0028 9	0029 0	0029 1	0029 2	0029 3	0029 4	0029 5	0029 6	0029 7	0029 8	0029 9	0030 0	* TOTALS
Follicle, Cyst		X						X						X			X						X		X	**9**
Paraovarian Tissue, Cyst																										**1**
Uterus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Adenomyosis														1												**1 1.0**
Cyst, Squamous												X		X												**2**
Dilation										4												4				**3 3.7**
Hyperplasia, Stromal																										**1 3.0**
Inflammation, Suppurative			3											2												**4 2.5**
Inflammation, Chronic Active																						2				**2 2.0**
Thrombus																2										**1 2.0**
Endometrium, Hyperplasia, Atypical																										**1 4.0**
Endometrium, Hyperplasia, Cystic	1	2					1	1			2		2	1	1				3	2	1		2		1	**27 1.7**
Endometrium, Squamous Metaplasia		1	3					1		4	2		2	1						2	1	4			1	**25 1.9**
Vagina	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**49**
Prolapse																										**1**

HEMATOPOIETIC SYSTEM

Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Congestion																										**1 2.0**
Hypercellularity	4	2	2	4			3	4	3	4	3	3	2	2		4	4		3		2	4	3		2	**39 2.8**
Myelofibrosis																										**1 2.0**
Lymph Node, Mandibular	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**49**
Lymph Node, Mesenteric	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**49**
Atrophy																										**1 2.0**
Hemorrhage							3																			**1 3.0**

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HARLAN SPRAGUE DAWLEY RATS FEMALE

0 ppm Female

DAY ON TEST	0689	0736	0736	0445	0732	0732	0732	0735	0728	0634	0616	0732	0732	0732	0560	0592	0524	0736	0736	0736	0561	0736	0735	0735		
ANIMAL ID	00276	00277	00278	00279	00280	00281	00282	00283	00284	00285	00286	00287	00288	00289	00290	00291	00292	00293	00294	00295	00296	00297	00298	00299	00300	* TOTALS
Spleen	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**49**
Extramedullary Hematopoiesis	4	2	2		2	2	3	3		3		2	2	2	2	3	3	2	2	2	2	2	3	2	3	**44 2.3**
Hemorrhage									4																	**1 4.0**
Pigment		1	1		1	2						1	2	2	1			1	2	2	3			2	1	**37 1.5**
White Pulp, Atrophy	2														2							1				**7 2.3**
Thymus	+	+	+	M	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	M	+	+	**46**
Atrophy	3	3	1		2	2	2	1		2		1	2	2	3	2	3	2	1	2	2	1		2	2	**45 2.0**
INTEGUMENTARY SYSTEM																										
Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Galactocele								4																		**2 4.0**
Hyperplasia		2	1						2			1	1			1	4	2						2	1	**16 1.6**
Infiltration Cellular, Mononuclear Cell																										**1 3.0**
Inflammation, Chronic																										**1 2.0**
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
MUSCULOSKELETAL SYSTEM																										
Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Osteopetrosis																										**1 4.0**
Skeletal Muscle		+																								**2**
Hemorrhage																										**1 4.0**
NERVOUS SYSTEM																										
Brain	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**

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HARLAN SPRAGUE DAWLEY RATS FEMALE

0 ppm Female

DAY ON TEST	0689	0736	0736	0445	0732	0732	0732	0735	0728	0634	0616	0732	0732	0732	0560	0592	0524	0736	0736	0736	0561	0736	0735	0735		
ANIMAL ID	00276	00277	00278	00279	00280	00281	00282	00283	00284	00285	00286	00287	00288	00289	00290	00291	00292	00293	00294	00295	00296	00297	00298	00299	00300	* TOTALS
Hemorrhage									4																	1 4.0
Necrosis																										2 2.5
RESPIRATORY SYSTEM																										
Lung	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Hyperplasia, Lymphocyte					2																					1 2.0
Infiltration Cellular, Histiocyte	2	4	3		1	3	3	4	1	2	3	1	3	3	3	2	2		3	2	4	3	2	2		45 2.3
Inflammation, Granulomatous		1	1				1														2					8 1.1
Inflammation, Chronic Active																										1 1.0
Alveolar Epithelium, Hyperplasia																			1							2 1.5
Bronchiole, Hyperplasia																										1 1.0
Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Inflammation, Chronic Active																										1 2.0
Olfactory Epithelium, Accumulation, Hyaline Droplet	2	1	4	1	3	3	4	3	3	3	3	3	4	4	2	3	3	3	3	4	4	3	4	3	3	50 2.9
Respiratory Epithelium, Accumulation, Hyaline Droplet		1				1				1				1		1										11 1.0
Trachea	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
SPECIAL SENSES SYSTEM																										
Eye	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Lens, Cataract																										1 2.0
Retina, Degeneration																					1					1 1.0
Retina, Dysplasia											1															1 1.0
Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50

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HARLAN SPRAGUE DAWLEY RATS FEMALE																											
DAY ON TEST	0689	0736	0736	0445	0732	0732	0732	0735	0728	0634	0616	0732	0732	0732	0560	0592	0524	0736	0736	0736	0561	0736	0735	0735		
0 ppm Female ANIMAL ID	00276	00277	00278	00279	00280	00281	00282	00283	00284	00285	00286	00287	00288	00289	00290	00291	00292	00293	00294	00295	00296	00297	00298	00299	00300	*** TOTALS**	
Atrophy																										**1**	**2.0**
Lacrimal Gland																										**1**	
URINARY SYSTEM																											
Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Nephropathy, Chronic Progressive		1	1	1	1	1	1	1	1	1	1		2	1	1		1	1	1	1	2	1	1		1	**42**	**1.2**
Epithelium, Papilla, Hyperplasia					1																					**2**	**1.0**
Papilla, Necrosis																										**1**	**1.0**
Renal Tubule, Accumulation, Hyaline Droplet																										**2**	**2.0**
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	

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2) Mild 4) Marked

HARLAN SPRAGUE DAWLEY RATS FEMALE 300 ppm Female																										
DAY ON TEST	065	073	073	073	065	073	073	073	073	073	073	073	073	052	073	047	072	041	073	050	073	073	073	058	073	
ANIMAL ID	001	002	003	004	005	006	007	008	009	010	011	012	013	014	015	016	017	018	019	020	021	022	023	024	025	females (cont...)
ALIMENTARY SYSTEM																										
Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Parasite Metazoan					X																					
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Parasite Metazoan				X		X						X														
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Parasite Metazoan								X						X									X			
Polyarteritis Nodosa																										
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Inflammation, Chronic Active																										
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Basophilic Focus										X																
Clear Cell Focus		X		X		X	X	X			X								X			X				
Eosinophilic Focus												X										X	X			
Extramedullary Hematopoiesis									1						1					1						
Hepatodiaphragmatic Nodule																										
Mixed Cell Focus																			X							
Necrosis	2				1									3			3	2		3						
Pigment			1	1																						

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
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BLANK .. Not examined microscopically
1-4 .. Lesion qualified as:
1) Minimal 3) Moderate
2) Mild 4) Marked

HARLAN SPRAGUE DAWLEY RATS FEMALE

300 ppm Female

DAY ON TEST	065	073	073	073	065	073	073	073	073	073	073	073	073	052	073	047	072	041	073	050	073	073	073	058	073	females (cont...)
ANIMAL ID	001	002	003	004	005	006	007	008	009	010	011	012	013	014	015	016	017	018	019	020	021	022	023	024	025	
Bile Duct, Cyst																										
Bile Duct, Hyperplasia		1			1					1					1				1						1	
Endothelial Cell, Hypertrophy																3										
Hepatocyte, Cytoplasmic Alteration							1		1				1													
Hepatocyte, Hypertrophy									1							3										
Mesentery													+													
Fat, Necrosis													1													
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Polyarteritis Nodosa																										
Acinus, Atrophy																										
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Inflammation, Acute																										
Epithelium, Hyperplasia																								3		
Epithelium, Hyperplasia, Atypical																										
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Inflammation, Chronic Active									4																	
Mineral							1														1	1				
Ulcer									4																	
CARDIOVASCULAR SYSTEM																										
Blood Vessel	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	

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HARLAN SPRAGUE DAWLEY RATS FEMALE 300 ppm Female																										
DAY ON TEST	065	073	073	073	065	073	073	073	073	073	073	073	073	052	073	047	072	041	073	050	073	073	073	058	073	
ANIMAL ID	001	002	003	004	005	006	007	008	009	010	011	012	013	014	015	016	017	018	019	020	021	022	023	024	025	**females (cont...)**
Cardiomyopathy			1	1		1	1			1		1	1		1					1	1					
ENDOCRINE SYSTEM																										
Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Accessory Adrenal Cortical Nodule																										
Angiectasis												2														
Degeneration, Cystic		1							1		2															
Hemorrhage																										
Metaplasia, Osseous														3												
Necrosis																	2									
Thrombus																					1					
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hyperplasia															4								1			
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hyperplasia																						2				
Parathyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	M	+	+	+	
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Pars Distalis, Hyperplasia	3	2	1	3			4	1	1		1	2							1			1				
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Inflammation, Acute						1																				
Polyarteritis Nodosa																										
Bilateral, C-cell, Hyperplasia							2														4					
C-cell, Hyperplasia		2																				1				

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DAY ON TEST	065	073	073	073	065	073	073	073	073	073	073	073	073	052	073	047	072	041	073	050	073	073	073	058	073	
HARLAN SPRAGUE DAWLEY RATS FEMALE																										
300 ppm Female ANIMAL ID	0301	0302	0303	0304	0305	0306	0307	0308	0309	0310	0311	0312	0313	0314	0315	0316	0317	0318	0319	0320	0321	0322	0323	0324	0325	**females (cont...)**
GENERAL BODY SYSTEM																										
NONE																										
GENITAL SYSTEM																										
Clitoral Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	
Ovary	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Cyst																										
Pigment					3																					
Bilateral, Atrophy	2	3	2	2	3	3	3	1	3		2	2			2	2		3	1	3				2	3	
Bursa, Cyst			X		X					X		X														
Follicle, Cyst				X									X				X					X				
Germinal Epithelium, Cyst									X																	
Interstitial Cell, Hyperplasia																										
Paraovarian Tissue, Inflammation, Chronic																										
Rete Ovarii, Hyperplasia																										
Uterus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Adenomyosis																										
Dilation																										
Hemorrhage																										
Thrombus																										
Endometrium, Hyperplasia, Atypical																										
Endometrium, Hyperplasia, Cystic	2	1	2	2	2	2	2		2		1	1						1							1	
Endometrium, Squamous Metaplasia		1		2	3	2	1				1							1							2	
Vagina	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Inflammation, Chronic Active																										

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HARLAN SPRAGUE DAWLEY RATS FEMALE 300 ppm Female																										
DAY ON TEST	065	073	073	073	065	073	073	073	073	073	073	073	073	052	073	047	072	041	073	050	073	073	073	058	073	
ANIMAL ID	001	002	003	004	005	006	007	008	009	010	011	012	013	014	015	016	017	018	019	020	021	022	023	024	025	**females (cont...)**
Necrosis																										
HEMATOPOIETIC SYSTEM																										
Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hypercellularity	4		4	1		1	2		4	2		1	1	4	3	4	3	4		4			1	4		
Lymph Node																+										
Axillary, Hemorrhage																										
Lumbar, Hemorrhage																										
Mediastinal, Hyperplasia, Plasma Cell																3										
Pancreatic, Inflammation																4										
Renal, Sinusoid, Dilation																3										
Lymph Node, Mandibular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Infiltration Cellular, Plasma Cell																				2						
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Infiltration Cellular, Plasma Cell																										
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Extramedullary Hematopoiesis	3	2	2	2	1	2	3	2	3	2	2	2	2	3	3	4	3	3	2	3	2	2	3	3	2	
Hemorrhage																										
Pigment		2		2	1	2	1	2	1	2	2	1	2	1			1	1	2	1	2	1	1	1	1	
White Pulp, Atrophy																	3			3						
Thymus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Atrophy	2		2	2	2	2	4	3	3	4	2	2	3	2	2	2	3	2	3	2	1	2	2	4	2	
Hyperplasia, Tubular																										

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HARLAN SPRAGUE DAWLEY RATS FEMALE 300 ppm Female																										
DAY ON TEST	065	073	073	073	065	073	073	073	073	073	073	073	073	052	073	047	072	041	073	050	073	073	073	058	073	
ANIMAL ID	001	002	003	004	005	006	007	008	009	010	011	012	013	014	015	016	017	018	019	020	021	022	023	024	025	**females (cont...)**
INTEGUMENTARY SYSTEM																										
Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Galactocele																								2		
Hyperplasia		1	1					2		1			2	2			2		3		1	2	1			
Hyperplasia, Atypical																										
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Inflammation, Chronic Active																				4						
MUSCULOSKELETAL SYSTEM																										
Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Inflammation, Chronic																										
Necrosis																										
Skeletal Muscle																										
NERVOUS SYSTEM																										
Brain	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Gliosis																										
Hemorrhage																										
Medulla, Demyelination																										
Nerve Trigeminal																										
Peripheral Nerve																										
Spinal Cord																										

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HARLAN SPRAGUE DAWLEY RATS FEMALE 300 ppm Female																										
DAY ON TEST	065	073	073	073	065	073	073	073	073	073	073	073	073	052	073	047	072	041	073	050	073	073	073	058	073	
ANIMAL ID	001	002	003	004	005	006	007	008	009	010	011	012	013	014	015	016	017	018	019	020	021	022	023	024	025	females (cont...)
Demyelination																										
Axon, Degeneration																										
Nerve, Gliosis																										
RESPIRATORY SYSTEM																										
Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Infiltration Cellular, Histiocyte	2	3		1	2	3	3	2	2	1	4	3	2	2	2	2	1	1	2	1		1	1	2	3	
Inflammation, Granulomatous			1						1												1		1			
Inflammation, Chronic Active							1																			
Thrombus																		1		2						
Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Inflammation, Chronic Active		1																1	1							
Thrombus																	1									
Olfactory Epithelium, Accumulation, Hyaline Droplet	3	3	3	3	4		2	1	3	3	3	3	2	2	4	3		3	1	2	2	2	3	3	3	
Respiratory Epithelium, Accumulation, Hyaline Droplet											1	1												1		
Respiratory Epithelium, Hyperplasia																										
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
SPECIAL SENSES SYSTEM																										
Eye	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Retina, Degeneration																										
Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Atrophy										1																

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DAY ON TEST	065	073	073	073	065	073	073	073	073	073	073	073	073	052	073	047	072	041	073	050	073	073	073	058	073
HARLAN SPRAGUE DAWLEY RATS FEMALE	5	2	2	2	9	5	5	5	7	7	7	7	7	8	7	7	1	5	6	9	5	5	5	5	2
300 ppm Female ANIMAL ID	001	002	003	004	005	006	007	008	009	010	011	012	013	014	015	016	017	018	019	020	021	022	023	024	025
URINARY SYSTEM																									
Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Calculus Micro Observation Only																									
Cyst																									
Infarct																									
Nephropathy, Chronic Progressive		1	1	2	1	2		1	1	1	1		1	1		1	1	1			3	1		3	1
Epithelium, Papilla, Hyperplasia																					3				
Renal Tubule, Accumulation, Hyaline Droplet																									
Renal Tubule, Hyperplasia, Atypical																									
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

females (cont...)

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HARLAN SPRAGUE DAWLEY RATS FEMALE

300 ppm Female

DAY ON TEST	0592	0732	0732	0737	0737	0737	0737	0477	0396	0701	0701	0732	0288	0497	0713	0736	0736	0736	0736	0736	0736	0696	0736	0526	0735	
ANIMAL ID	0032 6	0032 7	0032 8	0032 9	0033 0	0033 1	0033 2	0033 3	0033 4	0033 5	0033 6	0033 7	0033 8	0033 9	0034 0	0034 1	0034 2	0034 3	0034 4	0034 5	0034 6	0034 7	0034 8	0034 9	0035 0	* TOTALS
ALIMENTARY SYSTEM																										
Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Parasite Metazoan																										**1**
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Parasite Metazoan															X											**4**
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Parasite Metazoan												X				X									X	**6**
Polyarteritis Nodosa																			3							**1 3.0**
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Inflammation, Chronic Active																		2								**1 2.0**
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Basophilic Focus											X								X		X		X			**5**
Clear Cell Focus		X	X	X	X	X										X	X			X	X				X	**18**
Eosinophilic Focus	X																									**4**
Extramedullary Hematopoiesis					1			1	1																	**6 1.0**
Hepatodiaphragmatic Nodule	X										X														X	**3**
Mixed Cell Focus			X																							**2**
Necrosis	2													3								2				**9 2.3**
Pigment			1				1					1								1						**6 1.0**

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HARLAN SPRAGUE DAWLEY RATS FEMALE

300 ppm Female

DAY ON TEST	592	732	732	737	737	737	737	477	396	701	701	732	288	497	713	736	736	736	736	736	736	696	736	526	735	
ANIMAL ID	0032 6	0032 7	0032 8	0032 9	0033 0	0033 1	0033 2	0033 3	0033 4	0033 5	0033 6	0033 7	0033 8	0033 9	0034 0	0034 1	0034 2	0034 3	0034 4	0034 5	0034 6	0034 7	0034 8	0034 9	0035 0	* TOTALS
Bile Duct, Cyst																			X							**1**
Bile Duct, Hyperplasia	1			1	1					1									1				1		1	**13 1.0**
Endothelial Cell, Hypertrophy																										**1 3.0**
Hepatocyte, Cytoplasmic Alteration												1														**4 1.0**
Hepatocyte, Hypertrophy																										**2 2.0**
Mesentery																										**1**
Fat, Necrosis																										**1 1.0**
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Polyarteritis Nodosa																			2							**1 2.0**
Acinus, Atrophy										1					2											**2 1.5**
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Inflammation, Acute															1											**1 1.0**
Epithelium, Hyperplasia																										**1 3.0**
Epithelium, Hyperplasia, Atypical		4																								**1 4.0**
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Inflammation, Chronic Active																										**1 4.0**
Mineral																										**3 1.0**
Ulcer																										**1 4.0**

CARDIOVASCULAR SYSTEM

Blood Vessel	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**

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HARLAN SPRAGUE DAWLEY RATS FEMALE

300 ppm Female

DAY ON TEST	592	732	732	737	737	737	737	477	396	701	701	732	288	497	713	736	736	736	736	736	736	696	736	526	735	
ANIMAL ID	0032 6	0032 7	0032 8	0032 9	0033 0	0033 1	0033 2	0033 3	0033 4	0033 5	0033 6	0033 7	0033 8	0033 9	0034 0	0034 1	0034 2	0034 3	0034 4	0034 5	0034 6	0034 7	0034 8	0034 9	0035 0	* TOTALS
Cardiomyopathy							1					1														**12 1.0**
ENDOCRINE SYSTEM																										
Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Accessory Adrenal Cortical Nodule							X																			**1**
Angiectasis																										**1 2.0**
Degeneration, Cystic		1				1										1			2				1			**8 1.3**
Hemorrhage																				4						**1 4.0**
Metaplasia, Osseous																										**1 3.0**
Necrosis																										**1 2.0**
Thrombus												3														**2 2.0**
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Hyperplasia																										**2 2.5**
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Hyperplasia											1															**2 1.5**
Parathyroid Gland	+	+	+	+	+	M	+	+	M	+	+	+	+	+	+	M	+	M	+	+	+	M	+	+	+	**43**
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Pars Distalis, Hyperplasia				2											1		1		1	4			1		4	**18 1.9**
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Inflammation, Acute																										**1 1.0**
Polyarteritis Nodosa																			1							**1 1.0**
Bilateral, C-cell, Hyperplasia				1																						**3 2.3**
C-cell, Hyperplasia					1	1	1									1				3	4					**8 1.8**

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
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BLANK .. Not examined microscopically
1-4 .. Lesion qualified as:
1) Minimal 3) Moderate
2) Mild 4) Marked

DAY ON TEST	059	073	073	073	073	073	073	047	039	070	070	073	028	049	071	073	073	073	073	073	073	069	073	052	073	
HARLAN SPRAGUE DAWLEY RATS FEMALE																										
300 ppm Female ANIMAL ID	0032	0032	0032	0032	0033	0033	0033	0033	0033	0033	0033	0033	0033	0033	0034	0034	0034	0034	0034	0034	0034	0034	0034	0034	0035	*** TOTALS**
GENERAL BODY SYSTEM																										
NONE																										
GENITAL SYSTEM																										
Clitoral Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**49**
Ovary	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Cyst			X																							**1**
Pigment																										**1 3.0**
Bilateral, Atrophy		2			3	2	3	2		3	3	3			3		2	3	3	2	3		3	2	2	**35 2.5**
Bursa, Cyst				X																						**5**
Follicle, Cyst		X		X						X		X				X										**9**
Germinal Epithelium, Cyst																										**1**
Interstitial Cell, Hyperplasia			3																							**1 3.0**
Paraovarian Tissue, Inflammation, Chronic			2																							**1 2.0**
Rete Ovarii, Hyperplasia			2																							**1 2.0**
Uterus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Adenomyosis			2																							**1 2.0**
Dilation							4																			**1 4.0**
Hemorrhage			2						3																	**2 2.5**
Thrombus									3																	**1 3.0**
Endometrium, Hyperplasia, Atypical																					1					**1 1.0**
Endometrium, Hyperplasia, Cystic		1	2		2					1	2	1			1		2	1	2				1	1		**24 1.5**
Endometrium, Squamous Metaplasia		1	2		1		4					1					2			4			1	2		**17 1.8**
Vagina	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Inflammation, Chronic Active															2											**1 2.0**

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1) Minimal 3) Moderate
2) Mild 4) Marked

HARLAN SPRAGUE DAWLEY RATS FEMALE

300 ppm Female

DAY ON TEST	592	732	732	737	737	737	737	477	396	701	701	732	288	497	713	736	736	736	736	736	736	696	736	526	735	
ANIMAL ID	0032 6	0032 7	0032 8	0032 9	0033 0	0033 1	0033 2	0033 3	0033 4	0033 5	0033 6	0033 7	0033 8	0033 9	0034 0	0034 1	0034 2	0034 3	0034 4	0034 5	0034 6	0034 7	0034 8	0034 9	0035 0	* TOTALS
Necrosis															2											**1 2.0**
HEMATOPOIETIC SYSTEM																										
Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Hypercellularity	4	2	3	1	4	1	4	3	4	1	2	2	3	4	3			3	3	3		4		3		**37 2.8**
Lymph Node						+										+								+		**4**
Axillary, Hemorrhage																2										**1 2.0**
Lumbar, Hemorrhage																								2		**1 2.0**
Mediastinal, Hyperplasia, Plasma Cell																										**1 3.0**
Pancreatic, Inflammation																										**1 4.0**
Renal, Sinusoid, Dilation																										**1 3.0**
Lymph Node, Mandibular	+	+	+	+	+	+	+	+	+	+	+	+	+	I	+	+	+	+	+	+	+	+	+	+	+	**49**
Infiltration Cellular, Plasma Cell																										**1 2.0**
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Infiltration Cellular, Plasma Cell																			2							**1 2.0**
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Extramedullary Hematopoiesis	3	2	2	2	3	2	3	3	3		2	2		3		2	2	2	3		2	3	2	2	2	**46 2.4**
Hemorrhage															2											**1 2.0**
Pigment		2		2	1	2		1		2	1	1	1			1	2	2	2	2	2		2	2	2	**39 1.5**
White Pulp, Atrophy										1												3				**4 2.5**
Thymus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Atrophy	2	2	3	3	3	2		4	2	2		3		3	3	3	2	2	2	1	2	3	2	2	1	**46 2.4**
Hyperplasia, Tubular																							3			**1 3.0**

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HARLAN SPRAGUE DAWLEY RATS FEMALE

300 ppm Female

DAY ON TEST	0592	0732	0732	0737	0737	0737	0737	0477	0396	0701	0701	0732	0288	0497	0713	0736	0736	0736	0736	0736	0736	0696	0736	0526	0735	
ANIMAL ID	0032 6	0032 7	0032 8	0032 9	0033 0	0033 1	0033 2	0033 3	0033 4	0033 5	0033 6	0033 7	0033 8	0033 9	0034 0	0034 1	0034 2	0034 3	0034 4	0034 5	0034 6	0034 7	0034 8	0034 9	0035 0	* TOTALS
INTEGUMENTARY SYSTEM																										
Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Galactocele								2																		**2 2.0**
Hyperplasia	2		1	2			1							1		2					4	2			4	**20 1.9**
Hyperplasia, Atypical																			1							**1 1.0**
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Inflammation, Chronic Active																										**1 4.0**
MUSCULOSKELETAL SYSTEM																										
Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Inflammation, Chronic									2																	**1 2.0**
Necrosis									1																	**1 1.0**
Skeletal Muscle																			+							**1**
NERVOUS SYSTEM																										
Brain	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Gliosis	2																									**1 2.0**
Hemorrhage															2											**1 2.0**
Medulla, Demyelination													1													**1 1.0**
Nerve Trigeminal													+													**1**
Peripheral Nerve													+													**1**
Spinal Cord													+													**1**

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HARLAN SPRAGUE DAWLEY RATS FEMALE

300 ppm Female

DAY ON TEST	0592	0732	0732	0737	0737	0737	0737	0477	0396	0701	0701	0732	0288	0497	0713	0736	0736	0736	0736	0736	0736	0696	0736	0526	0735	
ANIMAL ID	0032 6	0032 7	0032 8	0032 9	0033 0	0033 1	0033 2	0033 3	0033 4	0033 5	0033 6	0033 7	0033 8	0033 9	0034 0	0034 1	0034 2	0034 3	0034 4	0034 5	0034 6	0034 7	0034 8	0034 9	0035 0	* TOTALS
Demyelination													1													**1 1.0**
Axon, Degeneration													2													**1 2.0**
Nerve, Gliosis													3													**1 3.0**
RESPIRATORY SYSTEM																										
Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Infiltration Cellular, Histiocyte	1	2	3	2	3	1	2	1	2	2	2	3	1	1	2	2	3	3	1	3	2	3	2	3	2	**48 2.0**
Inflammation, Granulomatous																1	1			1						**7 1.0**
Inflammation, Chronic Active														1												**2 1.0**
Thrombus																										**2 1.5**
Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Inflammation, Chronic Active												1				1		1								**6 1.0**
Thrombus																										**1 1.0**
Olfactory Epithelium, Accumulation, Hyaline Droplet	3	3	3	2	4	3	3	1	3	3	2	3	2	4	3	2	3	2	2	2	4	3	2	2	2	**48 2.6**
Respiratory Epithelium, Accumulation, Hyaline Droplet	1												1	2												**6 1.2**
Respiratory Epithelium, Hyperplasia	1																									**1 1.0**
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
SPECIAL SENSES SYSTEM																										
Eye	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Retina, Degeneration																	1									**1 1.0**
Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Atrophy																										**1 1.0**

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HARLAN SPRAGUE DAWLEY RATS FEMALE

300 ppm Female

DAY ON TEST	592	732	732	737	737	737	737	477	396	701	701	732	288	497	713	736	736	736	736	736	736	696	736	526	735	
ANIMAL ID	0032 6	0032 7	0032 8	0032 9	0033 0	0033 1	0033 2	0033 3	0033 4	0033 5	0033 6	0033 7	0033 8	0033 9	0034 0	0034 1	0034 2	0034 3	0034 4	0034 5	0034 6	0034 7	0034 8	0034 9	0035 0	*** TOTALS**
URINARY SYSTEM																										
Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Calculus Micro Observation Only												X														**1**
Cyst												X														**1**
Infarct										1		4							1							**3 2.0**
Nephropathy, Chronic Progressive	1				1	1	1	2	1	2	3	3	1			1		2	1	1	1	1	1		1	**36 1.4**
Epithelium, Papilla, Hyperplasia																										**1 3.0**
Renal Tubule, Accumulation, Hyaline Droplet	1																									**1 1.0**
Renal Tubule, Hyperplasia, Atypical	1																									**1 1.0**
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**

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HARLAN SPRAGUE DAWLEY RATS FEMALE 1000 ppm Female																										
DAY ON TEST	0735	0735	0648	0735	0735	0735	0590	0284	0732	0732	0732	0732	0737	0737	0737	0737	0735	0735	0735	0344	0736	0500	0736	0496	0732	
ANIMAL ID	0035 1	0035 2	0035 3	0035 4	0035 5	0035 6	0035 7	0035 8	0035 9	0036 0	0036 1	0036 2	0036 3	0036 4	0036 5	0036 6	0036 7	0036 8	0036 9	0037 0	0037 1	0037 2	0037 3	0037 4	0037 5	**females (cont...)**
ALIMENTARY SYSTEM																										
Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Inflammation, Chronic Active																										
Polyarteritis Nodosa																										
Ulcer																										
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Parasite Metazoan	X	X		X														X					X			
Polyarteritis Nodosa																										
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Basophilic Focus																										
Clear Cell Focus					X					X		X	X	X			X		X		X		X		X	
Eosinophilic Focus													X			X										
Extramedullary Hematopoiesis	1							1																		
Hepatodiaphragmatic Nodule										X																
Mixed Cell Focus										X																
Necrosis																						2				
Pigment					1	1			1	1						2										

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DAY ON TEST	0735	0735	0648	0735	0735	0735	0590	0284	0732	0732	0732	0732	0737	0737	0737	0737	0735	0735	0735	0344	0736	0500	0736	0496	0732	
HARLAN SPRAGUE DAWLEY RATS FEMALE																										
1000 ppm Female ANIMAL ID	00351	00352	00353	00354	00355	00356	00357	00358	00359	00360	00361	00362	00363	00364	00365	00366	00367	00368	00369	00370	00371	00372	00373	00374	00375	**females (cont...)**
Bile Duct, Cyst										X																
Bile Duct, Dilation																3										
Bile Duct, Hyperplasia	1	1		2						1						2	1								2	
Hepatocyte, Cytoplasmic Alteration										1																
Hepatocyte, Hypertrophy															2					2						
Mesentery																										
Fat, Necrosis																										
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Acinus, Atrophy		1																								
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Inflammation, Chronic Active																										
Polyarteritis Nodosa																										
Ulcer																										
Epithelium, Hyperplasia																										
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Mineral																			1							
CARDIOVASCULAR SYSTEM																										
Blood Vessel	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Cardiomyopathy			1							1		1				1								1		
Endocardium, Hyperplasia																							2			

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HARLAN SPRAGUE DAWLEY RATS FEMALE 1000 ppm Female																										
DAY ON TEST	0735	0735	0648	0735	0735	0735	0590	0284	0732	0732	0732	0732	0737	0737	0737	0737	0735	0735	0735	0344	0736	0500	0736	0496	0732	females (cont...)
ANIMAL ID	00351	00352	00353	00354	00355	00356	00357	00358	00359	00360	00361	00362	00363	00364	00365	00366	00367	00368	00369	00370	00371	00372	00373	00374	00375	
ENDOCRINE SYSTEM																										
Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Angiectasis									2																	
Degeneration, Cystic																			1				1		1	
Extramedullary Hematopoiesis			1																							
Hyperplasia																										
Mineral																										
Necrosis																				1						
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hyperplasia																										
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hyperplasia						3	1												2			1			4	
Parathyroid Gland	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	M	+	
Hyperplasia		2																								
Pituitary Gland	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Angiectasis									1																	
Pars Distalis, Hyperplasia		2								2	2	1		1		2		2								
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Inflammation, Acute																										
C-cell, Hyperplasia									1				3			1			2							
GENERAL BODY SYSTEM																										
Peritoneum							+																			

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HARLAN SPRAGUE DAWLEY RATS FEMALE **1000 ppm Female**																										
DAY ON TEST	073	073	064	073	073	073	059	028	073	073	073	073	073	073	073	073	073	073	073	034	073	050	073	049	073	
ANIMAL ID	035	052	053	054	055	056	057	058	059	060	061	062	063	064	065	066	067	068	069	070	071	072	073	074	075	**females (cont...)**
Inflammation, Chronic							3																			
GENITAL SYSTEM																										
Clitoral Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	
Ovary	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Bilateral, Atrophy		3				3	3		3	3	2			3	3	2	2	2	3		2					
Bursa, Cyst																										
Follicle, Cyst						X						X					X			X					X	
Paraovarian Tissue, Cyst									X																	
Uterus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Cyst, Squamous										X																
Dilation																										
Hemorrhage																										
Inflammation, Acute			2				2							1							1					
Inflammation, Chronic Active																										
Perforation																										
Cervix, Hyperplasia, Squamous																3										
Endometrium, Hyperplasia, Cystic		2	2		1	1	1		2	1	2			1	1	1	1	1	2		1					
Endometrium, Squamous Metaplasia		2				3	1		1	2	2					2	1	1	2							
Vagina	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
HEMATOPOIETIC SYSTEM																										
Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hypercellularity	3	3	4	1	1		4	4	3	3	1		1	2	4	3	2	3	4	4	2	4		4		

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
\+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue
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BLANK .. Not examined microscopically
1-4 .. Lesion qualified as:
1) Minimal 3) Moderate
2) Mild 4) Marked

HARLAN SPRAGUE DAWLEY RATS FEMALE

1000 ppm Female

DAY ON TEST	0735	0735	0648	0735	0735	0735	0590	0284	0732	0732	0732	0732	0737	0737	0737	0737	0735	0735	0735	0344	0736	0500	0736	0496	0732	
ANIMAL ID	0035 1	0035 2	0035 3	0035 4	0035 5	0035 6	0035 7	0035 8	0035 9	0036 0	0036 1	0036 2	0036 3	0036 4	0036 5	0036 6	0036 7	0036 8	0036 9	0037 0	0037 1	0037 2	0037 3	0037 4	0037 5	females (cont...)
Lymph Node																						+	+			
Inguinal, Infiltration Cellular, Histiocyte																										
Lumbar, Infiltration Cellular, Plasma Cell																						4				
Lymph Node, Mandibular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Infiltration Cellular, Plasma Cell																										
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hyperplasia, Lymphocyte																										
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Extramedullary Hematopoiesis	3	2	3	2	2	1	3	3	2	1	2	2	2	2	2	2	2	2	2	4	2	3	2		2	
Pigment	1	1	1	2	1	1	2			1	2	2	2	2	1	2	2	1	1		1		2	1	2	
White Pulp, Atrophy																								4		
Thymus	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	
Atrophy		2	4	1	3	1	4		2	2	1	2	2	1	4	2	2	2	2	4	1	4	2		1	
Cyst																										

INTEGUMENTARY SYSTEM

Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Galactocele																										
Hyperplasia	2			2		1		1															2		2	
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Inflammation, Chronic Active																										
Ulcer																										

MUSCULOSKELETAL SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
\+ .. Tissue examined microscopically
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M .. Missing tissue
A .. Autolysis precludes evaluation
BLANK .. Not examined microscopically
1-4 .. Lesion qualified as:
1) Minimal 3) Moderate
2) Mild 4) Marked

HARLAN SPRAGUE DAWLEY RATS FEMALE 1000 ppm Female																										
DAY ON TEST	073	073	064	073	073	073	059	028	073	073	073	073	073	073	073	073	073	073	073	034	073	050	073	049	073	
ANIMAL ID	051	052	053	054	055	056	057	058	059	060	061	062	063	064	065	066	067	068	069	070	071	072	073	074	075	females (cont...)
Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
NERVOUS SYSTEM																										
Brain	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Gliosis																										
Peripheral Nerve																		+								
RESPIRATORY SYSTEM																										
Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Infiltration Cellular, Histiocyte	2	3	3	2	2	2	2	1	3	2	2	2	2	2	3	2	3	2	3		2	1	3	3	1	
Inflammation, Granulomatous	1									1					1	1										
Inflammation, Chronic Active														1												
Thrombus																								2		
Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Inflammation, Chronic Active									1											1						
Olfactory Epithelium, Accumulation, Hyaline Droplet	3	2	3	4	3	4	3	3	1	2	3	2	3	2	3	3	3	3	4	1	2	3	3		2	
Respiratory Epithelium, Accumulation, Hyaline Droplet						1		1					1		1							1				
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
SPECIAL SENSES SYSTEM																										
Eye	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Retina, Degeneration																										

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HARLAN SPRAGUE DAWLEY RATS FEMALE																										
DAY ON TEST	0735	0735	0648	0735	0735	0735	0590	0284	0732	0732	0732	0732	0737	0737	0737	0737	0735	0735	0735	0344	0736	0500	0736	0496	0732	
1000 ppm Female ANIMAL ID	0035 1	0035 2	0035 3	0035 4	0035 5	0035 6	0035 7	0035 8	0035 9	0036 0	0036 1	0036 2	0036 3	0036 4	0036 5	0036 6	0036 7	0036 8	0036 9	0037 0	0037 1	0037 2	0037 3	0037 4	0037 5	**females (cont...)**
Retina, Hyperplasia																										
Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Atrophy																										
URINARY SYSTEM																										
Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Infarct					1	1			1						1		1			2						
Nephropathy, Chronic Progressive	1	1	1	1		2	1		1	1	3	1	1	1	2	2	1	1	1	1	1		2			
Epithelium, Papilla, Hyperplasia																										
Papilla, Edema															1											
Pelvis, Inflammation, Acute																										
Renal Tubule, Cyst																		X								
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Inflammation, Acute			1																							

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HARLAN SPRAGUE DAWLEY RATS FEMALE

1000 ppm Female

DAY ON TEST	053	064	058	070	065	073	073	073	073	073	070	059	073	073	073	073	073	070	055	054	073	073	073	073	073		
ANIMAL ID	0037 6	0037 7	0037 8	0037 9	0038 0	0038 1	0038 2	0038 3	0038 4	0038 5	0038 6	0038 7	0038 8	0038 9	0039 0	0039 1	0039 2	0039 3	0039 4	0039 5	0039 6	0039 7	0039 8	0039 9	0040 0	* TOTALS	
ALIMENTARY SYSTEM																											
Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	**49**	
Inflammation, Chronic Active			3																							**1**	**3.0**
Polyarteritis Nodosa													1													**1**	**1.0**
Ulcer			3																							**1**	**3.0**
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Parasite Metazoan						X			X	X																**8**	
Polyarteritis Nodosa													1													**1**	**1.0**
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	**49**	
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Basophilic Focus										X	X													X		**3**	
Clear Cell Focus		X				X	X		X													X				**15**	
Eosinophilic Focus					X	X																				**4**	
Extramedullary Hematopoiesis											1															**3**	**1.0**
Hepatodiaphragmatic Nodule	X								X																	**3**	
Mixed Cell Focus																										**1**	
Necrosis			3																2							**3**	**2.3**
Pigment			1		1	1	1					2	1	1								1		1		**14**	**1.1**

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HARLAN SPRAGUE DAWLEY RATS FEMALE

1000 ppm Female

DAY ON TEST	053	064	058	070	065	073	073	073	073	073	070	059	073	073	073	073	073	070	055	054	073	073	073	073	073		
ANIMAL ID	0037 6	0037 7	0037 8	0037 9	0038 0	0038 1	0038 2	0038 3	0038 4	0038 5	0038 6	0038 7	0038 8	0038 9	0039 0	0039 1	0039 2	0039 3	0039 4	0039 5	0039 6	0039 7	0039 8	0039 9	0040 0	* TOTALS	
Bile Duct, Cyst																										**1**	
Bile Duct, Dilation																										**1**	**3.0**
Bile Duct, Hyperplasia		1					1			1											1		1		1	**13**	**1.2**
Hepatocyte, Cytoplasmic Alteration			2		1									1		1						1			1	**7**	**1.1**
Hepatocyte, Hypertrophy					1							2										1				**5**	**1.6**
Mesentery																									+	**1**	
Fat, Necrosis																									1	**1**	**1.0**
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Acinus, Atrophy		1			2																					**3**	**1.3**
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Inflammation, Chronic Active	2			1																						**2**	**1.5**
Polyarteritis Nodosa													1													**1**	**1.0**
Ulcer	1																									**1**	**1.0**
Epithelium, Hyperplasia	1			1																				1		**3**	**1.0**
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Mineral			2						1				1													**4**	**1.3**
CARDIOVASCULAR SYSTEM																											
Blood Vessel	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Cardiomyopathy							1										1							1		**8**	**1.0**
Endocardium, Hyperplasia																										**1**	**2.0**

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HARLAN SPRAGUE DAWLEY RATS FEMALE 1000 ppm Female																										
DAY ON TEST	053 3	064 0	058 1	070 1	065 1	073 7	073 7	073 7	073 7	073 7	070 1	059 6	073 6	073 6	073 6	073 6	073 6	070 1	055 7	054 6	073 2	073 2	073 2	073 6	073 6	
ANIMAL ID	003 76	003 77	003 78	003 79	003 80	003 81	003 82	003 83	003 84	003 85	003 86	003 87	003 88	003 89	003 90	003 91	003 92	003 93	003 94	003 95	003 96	003 97	003 98	003 99	004 00	* TOTALS
ENDOCRINE SYSTEM																										
Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Angiectasis													1													**2 1.5**
Degeneration, Cystic				1				1										1			1	1		1		**9 1.0**
Extramedullary Hematopoiesis																										**1 1.0**
Hyperplasia									1																	**1 1.0**
Mineral																								1		**1 1.0**
Necrosis																		3								**2 2.0**
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Hyperplasia																								1		**1 1.0**
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Hyperplasia												2										2				**7 2.1**
Parathyroid Gland	+	+	+	+	M	+	M	+	M	+	+	+	+	+	+	+	M	+	+	+	+	+	+	M	+	**42**
Hyperplasia																										**1 2.0**
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**49**
Angiectasis																										**1 1.0**
Pars Distalis, Hyperplasia										2	1			1		3		2							4	**13 1.9**
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Inflammation, Acute																								1		**1 1.0**
C-cell, Hyperplasia			1	1			2	1	4					1			2					1			1	**13 1.6**
GENERAL BODY SYSTEM																										
Peritoneum												+														**2**

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HARLAN SPRAGUE DAWLEY RATS FEMALE

1000 ppm Female

DAY ON TEST	053	064	058	070	065	073	073	073	073	073	070	059	073	073	073	073	073	070	055	054	073	073	073	073	073		
ANIMAL ID	0037 6	0037 7	0037 8	0037 9	0038 0	0038 1	0038 2	0038 3	0038 4	0038 5	0038 6	0038 7	0038 8	0038 9	0039 0	0039 1	0039 2	0039 3	0039 4	0039 5	0039 6	0039 7	0039 8	0039 9	0040 0	* TOTALS	
Inflammation, Chronic												3														**2**	**3.0**
GENITAL SYSTEM																											
Clitoral Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**49**	
Ovary	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Bilateral, Atrophy	2		3	2	2					3		3	2	2	3	2		3	2	3	2	3	3	3		**30**	**2.6**
Bursa, Cyst																							X			**1**	
Follicle, Cyst						X																				**6**	
Paraovarian Tissue, Cyst															X											**2**	
Uterus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Cyst, Squamous																										**1**	
Dilation																				3						**1**	**3.0**
Hemorrhage	2																									**1**	**2.0**
Inflammation, Acute										3										2						**6**	**1.8**
Inflammation, Chronic Active												4														**1**	**4.0**
Perforation												X														**1**	
Cervix, Hyperplasia, Squamous																										**1**	**3.0**
Endometrium, Hyperplasia, Cystic	2				1								1	2	1	2		1	2		1	1	2	1	1	**28**	**1.4**
Endometrium, Squamous Metaplasia	1		1							4		1	1	3	2				2				1	1		**20**	**1.7**
Vagina	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
HEMATOPOIETIC SYSTEM																											
Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Hypercellularity	4		3	3	3		1	4		3	4	4	2	3	2	3	3	4	3	3		1			1	**40**	**2.9**

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HARLAN SPRAGUE DAWLEY RATS FEMALE

1000 ppm Female

DAY ON TEST	0533	0640	0581	0701	0651	0737	0737	0737	0737	0701	0596	0736	0736	0736	0736	0701	0557	0546	0732	0732	0732	0736	0736		
ANIMAL ID	0037 6	0037 7	0037 8	0037 9	0038 0	0038 1	0038 2	0038 3	0038 4	0038 5	0038 6	0038 7	0038 8	0038 9	0039 0	0039 1	0039 2	0039 3	0039 4	0039 5	0039 6	0039 7	0039 8	0039 9	0040 0	* TOTALS	
Lymph Node																+		+								4	
Inguinal, Infiltration Cellular, Histiocyte																2											1 2.0
Lumbar, Infiltration Cellular, Plasma Cell																		2									2 3.0
Lymph Node, Mandibular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Infiltration Cellular, Plasma Cell																		2									1 2.0
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Hyperplasia, Lymphocyte												3															1 3.0
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Extramedullary Hematopoiesis	2	2	3	3	2	2	2	3	2	1	3	3	2	1	2	3	3	3		1	2	2		2	2		47 2.2
Pigment	1	2		1	2	2	1		2	2	1	2	2	2	2	1				3	2	1	2	2	2		41 1.6
White Pulp, Atrophy																				3							2 3.5
Thymus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48	
Atrophy	2	3		2	3	2		2	2	1	2	3	2	2	2	3	3	3	2	2	2	2	2	1	4		45 2.2
Cyst																							X				1

INTEGUMENTARY SYSTEM

Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Galactocele													X														1
Hyperplasia		2				2	3	2	1		1						3							1	1		15 1.7
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Inflammation, Chronic Active																		4									1 4.0
Ulcer																		3									1 3.0

MUSCULOSKELETAL SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
\+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue
M .. Missing tissue
A .. Autolysis precludes evaluation
BLANK .. Not examined microscopically
1-4 .. Lesion qualified as:
1) Minimal 3) Moderate
2) Mild 4) Marked

HARLAN SPRAGUE DAWLEY RATS FEMALE

1000 ppm Female

DAY ON TEST	053	064	058	070	065	073	073	073	073	070	059	073	073	073	073	070	055	054	073	073	073	073	073	* TOTALS	
ANIMAL ID	0376	0377	0378	0379	0380	0381	0382	0383	0384	0385	0386	0387	0388	0389	0390	0391	0392	0393	0394	0395	0396	0397	0398	0399	0400		
Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
NERVOUS SYSTEM																											
Brain	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Gliosis				3																						**1**	**3.0**
Peripheral Nerve																										**1**	
RESPIRATORY SYSTEM																											
Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Infiltration Cellular, Histiocyte	1	3	3	3	3	3	2	2	1	2	2	4	3	2	2	3	1	2	3	1	3	3	2	3	1	**49**	**2.3**
Inflammation, Granulomatous												1	1				1				1					**8**	**1.0**
Inflammation, Chronic Active																										**1**	**1.0**
Thrombus																										**1**	**2.0**
Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Inflammation, Chronic Active																										**2**	**1.0**
Olfactory Epithelium, Accumulation, Hyaline Droplet	3	3	2	3	3	2	4	4	3	3	4	2	3	3	2	4	3	3	3	1	3	3	3	4	4	**49**	**2.9**
Respiratory Epithelium, Accumulation, Hyaline Droplet				1	1						1			1		2										**10**	**1.1**
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
SPECIAL SENSES SYSTEM																											
Eye	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Retina, Degeneration		2																								**1**	**2.0**

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
\+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue
M .. Missing tissue
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BLANK .. Not examined microscopically
1-4 .. Lesion qualified as:
1) Minimal 3) Moderate
2) Mild 4) Marked

HARLAN SPRAGUE DAWLEY RATS FEMALE 1000 ppm Female																											
DAY ON TEST	053	064	058	070	065	073	073	073	073	073	070	059	073	073	073	073	073	070	055	054	073	073	073	073	073		
ANIMAL ID	0376	0377	0378	0379	0380	0381	0382	0383	0384	0385	0386	0387	0388	0389	0390	0391	0392	0393	0394	0395	0396	0397	0398	0399	0400	* TOTALS	
Retina, Hyperplasia						1																				**1**	**1.0**
Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Atrophy				1																						**1**	**1.0**
URINARY SYSTEM																											
Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Infarct											1															**7**	**1.1**
Nephropathy, Chronic Progressive	1	2			1	1	1	1	1	1		2	3	1	1	1	1	1		1	1	1	1	2	1	**41**	**1.3**
Epithelium, Papilla, Hyperplasia								1														1				**2**	**1.0**
Papilla, Edema			2																							**2**	**1.5**
Pelvis, Inflammation, Acute			1																							**1**	**1.0**
Renal Tubule, Cyst														X												**2**	
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Inflammation, Acute																										**1**	**1.0**

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\+ .. Tissue examined microscopically
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BLANK .. Not examined microscopically
1-4 .. Lesion qualified as:
1) Minimal 3) Moderate
2) Mild 4) Marked

HARLAN SPRAGUE DAWLEY RATS FEMALE **3000 ppm Female**																										
DAY ON TEST	0732	0629	0736	0736	0736	0545	0736	0736	0707	0735	0172	0735	0407	0732	0675	0732	0736	0736	0736	0359	0592	0735	0721	0735	0653	
ANIMAL ID	0040 1	0040 2	0040 3	0040 4	0040 5	0040 6	0040 7	0040 8	0040 9	0041 0	0041 1	0041 2	0041 3	0041 4	0041 5	0041 6	0041 7	0041 8	0041 9	0042 0	0042 1	0042 2	0042 3	0042 4	0042 5	**females (cont...)**
ALIMENTARY SYSTEM																										
Esophagus	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Artery, Polyarteritis Nodosa																										
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Parasite Metazoan																		X					X			
Polyarteritis Nodosa		2																					2			
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Parasite Metazoan			X													X		X								
Polyarteritis Nodosa																							1			
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Basophilic Focus																										
Clear Cell Focus							X																			
Degeneration, Cystic					1																					
Eosinophilic Focus							X																	X		
Extramedullary Hematopoiesis			1						1																	
Fibrosis																										
Necrosis				2					1				3												3	
Pigment			2	1	2	1	1	1		3		2		1	2	3	1	1		1		2	2	2		

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
\+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue
M .. Missing tissue
A .. Autolysis precludes evaluation
BLANK .. Not examined microscopically
1-4 .. Lesion qualified as:
1) Minimal 3) Moderate
2) Mild 4) Marked

HARLAN SPRAGUE DAWLEY RATS FEMALE

3000 ppm Female

DAY ON TEST	732	629	736	736	736	545	736	736	707	735	172	735	407	732	675	732	736	736	736	359	592	735	721	735	653	females (cont...)
ANIMAL ID	0401	0402	0403	0404	0405	0406	0407	0408	0409	0410	0411	0412	0413	0414	0415	0416	0417	0418	0419	0420	0421	0422	0423	0424	0425	
Regeneration																									2	
Bile Duct, Cyst																										
Bile Duct, Dilation																4										
Bile Duct, Hyperplasia	1	1			1									1		1						1		1		
Hepatocyte, Cytoplasmic Alteration			1	2	2	2	1	1		3		1		1	1	2	1	2	1	1		1	3	1	1	
Hepatocyte, Hypertrophy			2							3								2		1	1		2			
Mesentery																							+			
Polyarteritis Nodosa																							2			
Artery, Thrombus																							X			
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Basophilic Focus						X																				
Inflammation, Acute																		1								
Polyarteritis Nodosa																							2			
Acinus, Atrophy														1												
Acinus, Hyperplasia																		2								
Salivary Glands	+	M	+	M	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Inflammation, Chronic Active				2				1									1									
Mineral																										
Ulcer				1																						
Epithelium, Hyperplasia				3				2																		
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Mineral											2							1			1			1		

CARDIOVASCULAR SYSTEM

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DAY ON TEST	0732	0629	0736	0736	0736	0545	0736	0736	0707	0735	0172	0735	0407	0732	0675	0732	0736	0736	0736	0359	0592	0735	0721	0735	0653	
HARLAN SPRAGUE DAWLEY RATS FEMALE																										
3000 ppm Female ANIMAL ID	0040 1	0040 2	0040 3	0040 4	0040 5	0040 6	0040 7	0040 8	0040 9	0041 0	0041 1	0041 2	0041 3	0041 4	0041 5	0041 6	0041 7	0041 8	0041 9	0042 0	0042 1	0042 2	0042 3	0042 4	0042 5	**females (cont...)**
Blood Vessel	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Aneurysm																							2			
Thrombus																							3			
Heart	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Cardiomyopathy			1		1			1		1			1			1							1			
Atrium, Thrombus				3																						
ENDOCRINE SYSTEM																										
Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Angiectasis																										
Degeneration, Cystic			1					1						1				2								
Hyperplasia																										
Thrombus																										
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hyperplasia												2												1		
Parathyroid Gland	+	M	+	M	+	M	+	M	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	M	M	
Hyperplasia																										
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	
Cyst																							X			
Pars Distalis, Hyperplasia	1				2	1		3		1				1			3	2				2			2	
Thyroid Gland	+	M	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	

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HARLAN SPRAGUE DAWLEY RATS FEMALE **3000 ppm Female**																										
DAY ON TEST	0732	0629	0736	0736	0736	0545	0736	0736	0707	0735	0172	0735	0407	0732	0675	0732	0736	0736	0736	0359	0592	0735	0721	0735	0653	
ANIMAL ID	0040 1	0040 2	0040 3	0040 4	0040 5	0040 6	0040 7	0040 8	0040 9	0041 0	0041 1	0041 2	0041 3	0041 4	0041 5	0041 6	0041 7	0041 8	0041 9	0042 0	0042 1	0042 2	0042 3	0042 4	0042 5	**females (cont...)**
C-cell, Hyperplasia										4		1		1										1		
GENERAL BODY SYSTEM																										
NONE																										
GENITAL SYSTEM																										
Clitoral Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Ovary	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Bilateral, Atrophy					2	2				3			3	2	2	2	3	2			1	2		3	2	
Bilateral, Polyarteritis Nodosa																							1			
Bilateral, Follicle, Cyst			X																				X			
Bursa, Cyst								X	X																	
Corpus Luteum, Cyst																										
Follicle, Cyst	X				X										X	X					X					
Germinal Epithelium, Cyst																										
Oviduct																										
Inflammation, Chronic																										
Uterus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Dilation													2													
Hemorrhage					3																					
Inflammation, Acute					3	2																				
Polyarteritis Nodosa																							2			
Endometrium, Hyperplasia, Cystic					2					2				1		2		1				1		1	1	
Endometrium, Squamous Metaplasia					2	1				1				1	1	1		1				1			2	

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HARLAN SPRAGUE DAWLEY RATS FEMALE 3000 ppm Female																										
DAY ON TEST	0732	0629	0736	0736	0736	0545	0736	0736	0707	0735	0172	0735	0407	0732	0675	0732	0736	0736	0736	0359	0592	0735	0721	0735	0653	
ANIMAL ID	0040 1	0040 2	0040 3	0040 4	0040 5	0040 6	0040 7	0040 8	0040 9	0041 0	0041 1	0041 2	0041 3	0041 4	0041 5	0041 6	0041 7	0041 8	0041 9	0042 0	0042 1	0042 2	0042 3	0042 4	0042 5	**females (cont...)**
Vagina	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
HEMATOPOIETIC SYSTEM																										
Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hypercellularity	2	3	4	3	3	3	1	3	4	2	1	2	3	2	3	3	4	2	2	4	4	3	3	3	3	
Lymph Node				+				+																		
Lumbar, Hyperplasia, Lymphocyte								2																		
Mediastinal, Hemorrhage				3																						
Lymph Node, Mandibular	+	M	+	M	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Extramedullary Hematopoiesis	3	1	2	2	2	2	2	3	3	2		1		2	1	2	3	2		3	2	2	3	2	3	
Hemorrhage																			4							
Pigment	1	2		1	1	2	2	1		2	2	1	2	2	2	2	1	2			1	2	1	2	1	
White Pulp, Atrophy		2				2							4				1								1	
Thymus	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Atrophy	4		2	4	2	2	2	3	2	2		3	3	2	2	1	3		2	2	1	1	1	1	4	
Ectopic Parathyroid Gland																										
INTEGUMENTARY SYSTEM																										
Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Galactocele																										
Hyperplasia	4	1	2		1			2	2			1				1			1				1			

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DAY ON TEST	0732	0629	0736	0736	0736	0545	0736	0736	0707	0735	0172	0735	0407	0732	0675	0732	0736	0736	0736	0359	0592	0735	0721	0735	0653	
HARLAN SPRAGUE DAWLEY RATS FEMALE																										
3000 ppm Female ANIMAL ID	0040 1	0040 2	0040 3	0040 4	0040 5	0040 6	0040 7	0040 8	0040 9	0041 0	0041 1	0041 2	0041 3	0041 4	0041 5	0041 6	0041 7	0041 8	0041 9	0042 0	0042 1	0042 2	0042 3	0042 4	0042 5	**females (cont...)**
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
MUSCULOSKELETAL SYSTEM																										
Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
NERVOUS SYSTEM																										
Brain	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Degeneration																								1		
Necrosis													4													
RESPIRATORY SYSTEM																										
Lung	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Infiltration Cellular, Histiocyte	3		4	3	2	4	3	2	1	2	1	2	3	3	2	3	2	2	2	2	3	3	2	3	3	
Inflammation, Granulomatous	1																							1		
Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Inflammation, Chronic Active																					1	1				
Olfactory Epithelium, Accumulation, Hyaline Droplet	3	1	3	3	3	1	3	2	4	4		1	2	4	4	3	4	2	4	2	4	2	1	2	4	
Respiratory Epithelium, Accumulation, Hyaline Droplet				1																						
Respiratory Epithelium, Squamous Metaplasia																										
Trachea	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
SPECIAL SENSES SYSTEM																										
Eye	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	

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HARLAN SPRAGUE DAWLEY RATS FEMALE **3000 ppm Female** ANIMAL ID	00401	00402	00403	00404	00405	00406	00407	00408	00409	00410	00411	00412	00413	00414	00415	00416	00417	00418	00419	00420	00421	00422	00423	00424	00425	**females (cont...)**
Choroid, Hyperplasia																	1									
Retina, Hyperplasia																										
Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Atrophy																										
URINARY SYSTEM																										
Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Infarct	1	1															1		1							
Nephropathy, Chronic Progressive	1	2	1	2	1	1	2		1	1	1	1		1	1	1	1	1	1	1		1	2	2	1	
Polyarteritis Nodosa																							1			
Epithelium, Papilla, Hyperplasia										1						2										
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	+	M	M	+	+	+	+	+	+	+	+	+	+	
Polyarteritis Nodosa																							1			

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
+ .. Tissue examined microscopically
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BLANK .. Not examined microscopically
1-4 .. Lesion qualified as:
1) Minimal 3) Moderate
2) Mild 4) Marked

HARLAN SPRAGUE DAWLEY RATS FEMALE

3000 ppm Female

DAY ON TEST	735	735	735	737	737	701	737	737	517	670	737	639	732	707	732	732	732	732	732	737	737	457	737	732	732	
ANIMAL ID	0426	0427	0428	0429	0430	0431	0432	0433	0434	0435	0436	0437	0438	0439	0440	0441	0442	0443	0444	0445	0446	0447	0448	0449	0450	* TOTALS
ALIMENTARY SYSTEM																										
Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**49**
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Artery, Polyarteritis Nodosa															1											**1 1.0**
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Parasite Metazoan																										**2**
Polyarteritis Nodosa																										**2 2.0**
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Parasite Metazoan																									X	**4**
Polyarteritis Nodosa																										**1 1.0**
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**49**
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**49**
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Basophilic Focus																				X	X					**2**
Clear Cell Focus		X	X	X	X			X			X		X				X							X	X	**11**
Degeneration, Cystic																										**1 1.0**
Eosinophilic Focus							X										X				X			X	X	**7**
Extramedullary Hematopoiesis						1							1													**4 1.0**
Fibrosis																								2		**1 2.0**
Necrosis						1	1			2																**7 1.9**
Pigment	2		2	2	2	1	1	1			1		1	1	1	3	2		1	2	1		2	1	3	**36 1.6**

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HARLAN SPRAGUE DAWLEY RATS FEMALE

3000 ppm Female

DAY ON TEST	735	735	735	737	737	701	737	737	517	670	737	639	732	707	732	732	732	732	732	737	737	457	737	732	732		
ANIMAL ID	0042 6	0042 7	0042 8	0042 9	0043 0	0043 1	0043 2	0043 3	0043 4	0043 5	0043 6	0043 7	0043 8	0043 9	0044 0	0044 1	0044 2	0044 3	0044 4	0044 5	0044 6	0044 7	0044 8	0044 9	0045 0	* TOTALS	
Regeneration																										**1**	**2.0**
Bile Duct, Cyst																				X					X	**2**	
Bile Duct, Dilation																				3			2			**3**	**3.0**
Bile Duct, Hyperplasia		1		1	1		1	2		1	1	1						1		1	1		1	1	2	**21**	**1.1**
Hepatocyte, Cytoplasmic Alteration	1		1	2	3	2	2	2	2	2	2			2	2	1		1	2	1	1		1	3	2	**39**	**1.6**
Hepatocyte, Hypertrophy					1	1					1															**9**	**1.6**
Mesentery														+												**2**	
Polyarteritis Nodosa														2												**2**	**2.0**
Artery, Thrombus																										**1**	
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Basophilic Focus																										**1**	
Inflammation, Acute																										**1**	**1.0**
Polyarteritis Nodosa														2												**2**	**2.0**
Acinus, Atrophy													1										1			**3**	**1.0**
Acinus, Hyperplasia																							1			**2**	**1.5**
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	**46**	
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Inflammation, Chronic Active					1	1																				**5**	**1.2**
Mineral			1																							**1**	**1.0**
Ulcer																										**1**	**1.0**
Epithelium, Hyperplasia						3																				**3**	**2.7**
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Mineral								1																		**5**	**1.2**

CARDIOVASCULAR SYSTEM

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HARLAN SPRAGUE DAWLEY RATS FEMALE

3000 ppm Female

DAY ON TEST	735	735	735	737	737	701	737	737	517	670	737	639	732	707	732	732	732	732	732	737	737	457	737	732	732	
ANIMAL ID	0042 6	0042 7	0042 8	0042 9	0043 0	0043 1	0043 2	0043 3	0043 4	0043 5	0043 6	0043 7	0043 8	0043 9	0044 0	0044 1	0044 2	0044 3	0044 4	0044 5	0044 6	0044 7	0044 8	0044 9	0045 0	* TOTALS
Blood Vessel	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Aneurysm														2												**2 2.0**
Thrombus																										**1 3.0**
Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**49**
Cardiomyopathy					1			2	1			1	1					1								**13 1.1**
Atrium, Thrombus																										**1 3.0**
ENDOCRINE SYSTEM																										
Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Angiectasis																		2								**1 2.0**
Degeneration, Cystic								1											2							**6 1.3**
Hyperplasia																	2									**1 2.0**
Thrombus										1																**1 1.0**
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Hyperplasia											1		1													**4 1.3**
Parathyroid Gland	+	+	+	+	+	M	M	+	+	+	+	M	+	M	+	+	M	+	+	+	+	+	M	+	+	**37**
Hyperplasia																				2						**1 2.0**
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**49**
Cyst																										**1**
Pars Distalis, Hyperplasia						1		1					2		3				1	2	2		1	1	2	**20 1.7**
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	**47**

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HARLAN SPRAGUE DAWLEY RATS FEMALE

3000 ppm Female

DAY ON TEST	0735	0735	0735	0737	0737	0701	0737	0737	0517	0670	0737	0639	0732	0707	0732	0732	0732	0732	0732	0737	0737	0457	0737	0732	0732	* TOTALS	
ANIMAL ID	0042 6	0042 7	0042 8	0042 9	0043 0	0043 1	0043 2	0043 3	0043 4	0043 5	0043 6	0043 7	0043 8	0043 9	0044 0	0044 1	0044 2	0044 3	0044 4	0044 5	0044 6	0044 7	0044 8	0044 9	0045 0		
C-cell, Hyperplasia																		1						3		**6**	**1.8**

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

Clitoral Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Ovary	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Bilateral, Atrophy	3			2			2		2			2	2	2	3	3	2			3	2		4	2	3	**28**	**2.4**
Bilateral, Polyarteritis Nodosa																										**1**	**1.0**
Bilateral, Follicle, Cyst										X																**3**	
Bursa, Cyst																										**2**	
Corpus Luteum, Cyst					X																					**1**	
Follicle, Cyst	X	X	X																							**8**	
Germinal Epithelium, Cyst						X																				**1**	
Oviduct									+																	**1**	
Inflammation, Chronic									2																	**1**	**2.0**
Uterus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Dilation																										**1**	**2.0**
Hemorrhage																										**1**	**3.0**
Inflammation, Acute																										**2**	**2.5**
Polyarteritis Nodosa																										**1**	**2.0**
Endometrium, Hyperplasia, Cystic	2			1			2		1			2	1	1	2	1	1	1		1	1			1	1	**23**	**1.3**
Endometrium, Squamous Metaplasia	2			1			1						1		1						2			2	1	**17**	**1.3**

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HARLAN SPRAGUE DAWLEY RATS FEMALE

3000 ppm Female

DAY ON TEST	735	735	735	737	737	701	737	737	517	670	737	639	732	707	732	732	732	732	732	737	737	457	737	732	732	
ANIMAL ID	0042 6	0042 7	0042 8	0042 9	0043 0	0043 1	0043 2	0043 3	0043 4	0043 5	0043 6	0043 7	0043 8	0043 9	0044 0	0044 1	0044 2	0044 3	0044 4	0044 5	0044 6	0044 7	0044 8	0044 9	0045 0	* TOTALS
Vagina	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
HEMATOPOIETIC SYSTEM																										
Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Hypercellularity	2			2	1	4	2	2	4	4		1	3	3	3	2	1	2	3	1	3	2	4	3	2	**47 2.6**
Lymph Node																										**2**
Lumbar, Hyperplasia, Lymphocyte																										**1 2.0**
Mediastinal, Hemorrhage																										**1 3.0**
Lymph Node, Mandibular	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	**46**
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**49**
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Extramedullary Hematopoiesis	2	2	2	2	2	3	2	2	3	4	2		3	3	1	1	2	2	3	2	2		3	2	2	**45 2.2**
Hemorrhage																										**1 4.0**
Pigment	2	2	2	2	2		2	2	1		1	2	1	1	2	2	2	1	1	2	2	3	1		2	**43 1.7**
White Pulp, Atrophy										2		1										2	2			**9 1.9**
Thymus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	**48**
Atrophy	2	3	3	2	2	2	3	2	1	3	2	2	2	4	3	2	1	2			2		2	3	1	**44 2.2**
Ectopic Parathyroid Gland											1															**1 1.0**
INTEGUMENTARY SYSTEM																										
Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Galactocele													2	4			3									**3 3.0**
Hyperplasia		1	2	1	3	2		2		2	1			2	4		1	1	2							**23 1.7**

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HARLAN SPRAGUE DAWLEY RATS FEMALE

3000 ppm Female

DAY ON TEST	735	735	735	737	737	701	737	737	517	670	737	639	732	707	732	732	732	732	732	737	737	457	737	732	732		
ANIMAL ID	0042 6	0042 7	0042 8	0042 9	0043 0	0043 1	0043 2	0043 3	0043 4	0043 5	0043 6	0043 7	0043 8	0043 9	0044 0	0044 1	0044 2	0044 3	0044 4	0044 5	0044 6	0044 7	0044 8	0044 9	0045 0	* TOTALS	
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
MUSCULOSKELETAL SYSTEM																											
Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
NERVOUS SYSTEM																											
Brain	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Degeneration																										**1**	**1.0**
Necrosis																						4				**2**	**4.0**
RESPIRATORY SYSTEM																											
Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**49**	
Infiltration Cellular, Histiocyte	3	3	2	2	3	2	2	3		1	3	2	2		4	2	1	2	2	3	2	1	4	2	2	**47**	**2.4**
Inflammation, Granulomatous				1			1			1				1	1		1			1			2			**10**	**1.1**
Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Inflammation, Chronic Active											1															**3**	**1.0**
Olfactory Epithelium, Accumulation, Hyaline Droplet	3	3	3	3	3	3	3	2	4	2	3	3	2	4	3	3	1	2	3	3	2	3	3	3	2	**49**	**2.8**
Respiratory Epithelium, Accumulation, Hyaline Droplet		1																						1		**3**	**1.0**
Respiratory Epithelium, Squamous Metaplasia											1															**1**	**1.0**
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**49**	
SPECIAL SENSES SYSTEM																											
Eye	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	

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HARLAN SPRAGUE DAWLEY RATS FEMALE

3000 ppm Female

DAY ON TEST	735	735	735	737	737	701	737	737	517	670	737	639	732	707	732	732	732	732	732	737	737	457	737	732	732		
ANIMAL ID	0042 6	0042 7	0042 8	0042 9	0043 0	0043 1	0043 2	0043 3	0043 4	0043 5	0043 6	0043 7	0043 8	0043 9	0044 0	0044 1	0044 2	0044 3	0044 4	0044 5	0044 6	0044 7	0044 8	0044 9	0045 0	* TOTALS	
Choroid, Hyperplasia																			2							**2**	**1.5**
Retina, Hyperplasia											1															**1**	**1.0**
Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Atrophy																1										**1**	**1.0**
URINARY SYSTEM																											
Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Infarct					1																					**5**	**1.0**
Nephropathy, Chronic Progressive	2	1	1	1	3		1	1	1	1	2	2	2	3	2	1	1	1	1	1	1	2	1		1	**45**	**1.3**
Polyarteritis Nodosa																										**1**	**1.0**
Epithelium, Papilla, Hyperplasia											1														1	**4**	**1.3**
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**48**	
Polyarteritis Nodosa																										**1**	**1.0**

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HARLAN SPRAGUE DAWLEY RATS FEMALE 10000 ppm Female																									
DAY ON TEST	0735	0723	0735	0314	0732	0488	0008	0655	0008	0735	0735	0735	0736	0736	0642	0515	0736	0002	0736	0592	0732	0732	0624	0616	0737
ANIMAL ID	0045 1	0045 2	0045 3	0045 4	0045 5	0045 6	0045 7	0045 8	0045 9	0046 0	0046 1	0046 2	0046 3	0046 4	0046 5	0046 6	0046 7	0046 8	0046 9	0047 0	0047 1	0047 2	0047 3	0047 4	0047 5
ALIMENTARY SYSTEM																									
Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+
Parasite Metazoan														X	X										
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+
Parasite Metazoan															X										
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+
Angiectasis																									
Basophilic Focus	X				X						X										X				
Clear Cell Focus	X									X	X		X												
Degeneration, Cystic											1														
Eosinophilic Focus								X			X	X		X			X		X	X	X				
Extramedullary Hematopoiesis																							1	1	
Hyperplasia, Nodular																									
Necrosis		2				2		3							2	3							2		
Pigment	3	3	3		3	2		2		3	3	3	2	1	3		3		2	3	3	2	3	3	2
Bile Duct, Hyperplasia					1					1	1											1			
Hepatocyte, Cytoplasmic Alteration	4	2	4		4	3	2	2		3	4	4	4	4	3		4		4	3	4	4	2	4	4

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1-4 .. Lesion qualified as:
1) Minimal 3) Moderate
2) Mild 4) Marked

HARLAN SPRAGUE DAWLEY RATS FEMALE 10000 ppm Female																										
DAY ON TEST	0735	0723	0735	0314	0732	0488	0008	0655	0008	0735	0735	0735	0736	0736	0642	0515	0736	0002	0736	0592	0732	0732	0624	0616	0737	
ANIMAL ID	00451	00452	00453	00454	00455	00456	00457	00458	00459	00460	00461	00462	00463	00464	00465	00466	00467	00468	00469	00470	00471	00472	00473	00474	00475	females (cont...)
Hepatocyte, Hypertrophy	2		3		1	2	1			3	3	3	2	4			1		3	2	3	3		1	2	
Mesentery																										
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	
Polyarteritis Nodosa					1																					
Acinus, Atrophy																					1					
Acinus, Hyperplasia														1							3					
Acinus, Metaplasia, Hepatocyte																										
Salivary Glands	+	+	+	+	+	+	M	+	M	+	+	+	+	+	M	M	+	+	+	+	+	+	+	+	+	
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	
Inflammation, Chronic																										
Inflammation, Chronic Active																										
Ulcer																										
Epithelium, Hyperplasia																										
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	
Mineral										1																
CARDIOVASCULAR SYSTEM																										
Blood Vessel	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	
Mineral				2																						
Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	
Cardiomyopathy			1		1			1		1		1		1												
Mineral				2												1										
Epicardium, Inflammation, Chronic																							2			

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\+ .. Tissue examined microscopically
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HARLAN SPRAGUE DAWLEY RATS FEMALE **10000 ppm Female**																										
DAY ON TEST	073 5	072 3	073 5	031 4	073 2	048 8	000 8	065 5	000 8	073 5	073 5	073 5	073 6	073 6	064 2	051 5	073 6	000 2	073 6	059 2	073 2	073 2	062 4	061 6	073 7	
ANIMAL ID	004 51	004 52	004 53	004 54	004 55	004 56	004 57	004 58	004 59	004 60	004 61	004 62	004 63	004 64	004 65	004 66	004 67	004 68	004 69	004 70	004 71	004 72	004 73	004 74	004 75	**females (cont...)**
ENDOCRINE SYSTEM																										
Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	
Degeneration, Cystic				1		1								1			1		1	1				1		
Hyperplasia														1												
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	
Parathyroid Gland	M	+	+	+	+	+	+	+	+	+	+	M	M	M	M	M	+	+	+	M	+	+	+	M	+	
Hyperplasia			3																							
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Pars Distalis, Hyperplasia	1		1		3			1				2					2		1	1			1			
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	
C-cell, Hyperplasia										3															1	
Follicular Cell, Hyperplasia																										
GENERAL BODY SYSTEM																										
NONE																										
GENITAL SYSTEM																										
Clitoral Gland	+	+	+	+	+	+	M	+	M	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	
Ovary	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	
Cyst																						X				

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M .. Missing tissue
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1) Minimal 3) Moderate
2) Mild 4) Marked

HARLAN SPRAGUE DAWLEY RATS FEMALE

10000 ppm Female

DAY ON TEST	0735	0723	0735	0314	0732	0488	0008	0655	0008	0735	0735	0735	0736	0736	0642	0515	0736	0002	0736	0592	0732	0732	0624	0616	0737
ANIMAL ID	0045 1	0045 2	0045 3	0045 4	0045 5	0045 6	0045 7	0045 8	0045 9	0046 0	0046 1	0046 2	0046 3	0046 4	0046 5	0046 6	0046 7	0046 8	0046 9	0047 0	0047 1	0047 2	0047 3	0047 4	0047 5
Bilateral, Atrophy		3	2					2				3	1				2				2		2	3	3
Bilateral, Follicle, Cyst											X														
Bursa, Cyst																									X
Follicle, Cyst								X				X													
Germinal Epithelium, Cyst													X												
Paraovarian Tissue, Cyst	X																								
Uterus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+
Dilation															4										
Hemorrhage			1																						
Inflammation, Chronic Active															4										
Thrombus								2																	
Endometrium, Atypical Hyperplasia																									
Endometrium, Hyperplasia, Cystic			2									1	1							1	3		1	1	1
Endometrium, Squamous Metaplasia			2												3								1		
Vagina	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
HEMATOPOIETIC SYSTEM																									
Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Hypercellularity	1	3	3	2	1	2		4				3	2	2	4	3	3		3	3	3	2	4	3	3
Hypocellularity							4		3									2							
Lymph Node																+							+		
Lymph Node, Mandibular	+	+	+	+	+	+	+	+	M	+	+	+	+	+	M	M	+	+	+	+	+	+	+	M	+
Atrophy							4											3							
Lymph Node, Mesenteric	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+

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HARLAN SPRAGUE DAWLEY RATS FEMALE **10000 ppm Female**																										
DAY ON TEST	0735	0723	0735	0314	0732	0488	0008	0655	0008	0735	0735	0735	0736	0736	0642	0515	0736	0002	0736	0592	0732	0732	0624	0616	0737	
ANIMAL ID	0045 1	0045 2	0045 3	0045 4	0045 5	0045 6	0045 7	0045 8	0045 9	0046 0	0046 1	0046 2	0046 3	0046 4	0046 5	0046 6	0046 7	0046 8	0046 9	0047 0	0047 1	0047 2	0047 3	0047 4	0047 5	**females (cont...)**
Atrophy									4																	
Spleen	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	
Extramedullary Hematopoiesis	1	1	2		2			3		1	1	1	1	2	3	2	2		1	1	2	2	3	3	2	
Pigment	1	1	1	3	1	2				2	2	1	1	1		2	1		1	1		2	1	1	2	
White Pulp, Atrophy		2		3		2		2	2						2	3										
Thymus	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	
Atrophy	3	1	3	4	2			3	3	2	1	1	1	1	2	2	1		2	2	1	2	3	2	1	
Ectopic Parathyroid Gland																										
Necrosis																										
INTEGUMENTARY SYSTEM																										
Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	
Galactocele																										
Hyperplasia					2						2			2								1				
Skin	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
MUSCULOSKELETAL SYSTEM																										
Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Skeletal Muscle																										
NERVOUS SYSTEM																										
Brain	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Necrosis				2																						

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HARLAN SPRAGUE DAWLEY RATS FEMALE 10000 ppm Female																										
DAY ON TEST	0735	0723	0735	0314	0732	0488	0008	0655	0008	0735	0735	0735	0736	0736	0642	0515	0736	0002	0736	0592	0732	0732	0624	0616	0737	
ANIMAL ID	0045 1	0045 2	0045 3	0045 4	0045 5	0045 6	0045 7	0045 8	0045 9	0046 0	0046 1	0046 2	0046 3	0046 4	0046 5	0046 6	0046 7	0046 8	0046 9	0047 0	0047 1	0047 2	0047 3	0047 4	0047 5	**females (cont...)**
Meninges, Hyperplasia											1															
RESPIRATORY SYSTEM																										
Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	
Infiltration Cellular, Histiocyte	2	3	4	2	4	2		4		2	2	2	2	1	3	1	2		4	3	2	2	2	2	3	
Inflammation, Granulomatous			1		1												1		1							
Thrombus																										
Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Olfactory Epithelium, Accumulation, Hyaline Droplet	2	3	2	1	2	2		1		4	3	3	1	3	1	1	3		2	1	1	2	3	3	3	
Respiratory Epithelium, Accumulation, Hyaline Droplet																										
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
SPECIAL SENSES SYSTEM																										
Eye	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	
Cornea, Inflammation, Acute				2															1							
Lens, Cataract																										
Retina, Degeneration			2																				2			
Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	
URINARY SYSTEM																										
Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	
Infarct				4						1									1				2		1	
Nephropathy, Chronic Progressive	1	1	1	3	1	1		1		1	1	1	1	2	1		1		1	1	1	1	1	2	1	

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HARLAN SPRAGUE DAWLEY RATS FEMALE

10000 ppm Female

DAY ON TEST	735	723	735	314	732	488	008	655	008	735	735	735	736	736	642	515	736	002	736	592	732	732	624	616	737	
ANIMAL ID	0045 1	0045 2	0045 3	0045 4	0045 5	0045 6	0045 7	0045 8	0045 9	0046 0	0046 1	0046 2	0046 3	0046 4	0046 5	0046 6	0046 7	0046 8	0046 9	0047 0	0047 1	0047 2	0047 3	0047 4	0047 5	**females (cont...)**
Epithelium, Papilla, Hyperplasia			1									2		1			1		1					1		
Papilla, Edema	1	1	2		1	2		2		2	1	3	2	2	1	1	1			2	1	2	1	2	1	
Papilla, Hemorrhage																				1					1	
Pelvis, Dilation																								1		
Renal Tubule, Accumulation, Hyaline Droplet										1																
Renal Tubule, Cyst	X					X				X				X						X			X			
Renal Tubule, Dilation																										
Urethra													+													
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	

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HARLAN SPRAGUE DAWLEY RATS FEMALE 10000 ppm Female																										
DAY ON TEST	0737	0037	0737	0732	0732	0732	0732	0736	0576	0701	0002	0737	0737	0737	0004	0735	0620	0659	0735	0736	0685	0004	0003	0736	0718	
ANIMAL ID	0046	0047	0048	0049	0050	0051	0052	0053	0054	0055	0056	0057	0058	0059	0060	0061	0062	0063	0064	0065	0066	0067	0068	0069	0070	* TOTALS
ALIMENTARY SYSTEM																										
Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	**49**
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	**48**
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	**48**
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	**48**
Parasite Metazoan					X																					**3**
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	**48**
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	**48**
Parasite Metazoan																										**1**
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	**48**
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	**48**
Angiectasis																				3					2	**2 2.5**
Basophilic Focus			X	X				X						X							X				X	**10**
Clear Cell Focus	X											X				X								X		**8**
Degeneration, Cystic																										**1 1.0**
Eosinophilic Focus										X						X	X								X	**12**
Extramedullary Hematopoiesis																		1							1	**4 1.0**
Hyperplasia, Nodular																				2						**1 2.0**
Necrosis										3											1					**8 2.3**
Pigment	3		3	3	3	3	3	3	1	1		3	3	2		3	1	3	2	3	4			2	2	**40 2.6**
Bile Duct, Hyperplasia					1											1				2					1	**8 1.1**
Hepatocyte, Cytoplasmic Alteration	4		4	3	4	4	4	3				4	4	3		2	3	3	3	4	4			2	1	**39 3.4**

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HARLAN SPRAGUE DAWLEY RATS FEMALE

10000 ppm Female

DAY ON TEST	0737	0037	0737	0732	0732	0732	0732	0736	0576	0701	0002	0737	0737	0737	0004	0735	0620	0659	0735	0736	0685	0004	0003	0736	0718		
ANIMAL ID	0047 6	0047 7	0047 8	0047 9	0048 0	0048 1	0048 2	0048 3	0048 4	0048 5	0048 6	0048 7	0048 8	0048 9	0049 0	0049 1	0049 2	0049 3	0049 4	0049 5	0049 6	0049 7	0049 8	0049 9	0050 0	* TOTALS	
Hepatocyte, Hypertrophy	3		2	3	4	3	2	2				2	3	3		1	2	2	2	3	2			3		**34**	**2.4**
Mesentery																									+	**1**	
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	**48**	
Polyarteritis Nodosa																										**1**	**1.0**
Acinus, Atrophy																										**1**	**1.0**
Acinus, Hyperplasia				2																						**3**	**2.0**
Acinus, Metaplasia, Hepatocyte													1													**1**	**1.0**
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	**45**	
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	**48**	
Inflammation, Chronic																					1					**1**	**1.0**
Inflammation, Chronic Active																	1								2	**2**	**1.5**
Ulcer																									1	**1**	**1.0**
Epithelium, Hyperplasia												2	1								2					**3**	**1.7**
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	**48**	
Mineral										1				1												**3**	**1.0**
CARDIOVASCULAR SYSTEM																											
Blood Vessel	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	**48**	
Mineral		1																								**2**	**1.5**
Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	**48**	
Cardiomyopathy																			1		1			1		**9**	**1.0**
Mineral																										**2**	**1.5**
Epicardium, Inflammation, Chronic																										**1**	**2.0**

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1) Minimal 3) Moderate
2) Mild 4) Marked

HARLAN SPRAGUE DAWLEY RATS FEMALE

10000 ppm Female

DAY ON TEST	0737	0037	0737	0732	0732	0732	0732	0736	0576	0701	0002	0737	0737	0737	0004	0735	0620	0659	0735	0736	0685	0004	0003	0736	0718		
ANIMAL ID	0047 6	0047 7	0047 8	0047 9	0048 0	0048 1	0048 2	0048 3	0048 4	0048 5	0048 6	0048 7	0048 8	0048 9	0049 0	0049 1	0049 2	0049 3	0049 4	0049 5	0049 6	0049 7	0049 8	0049 9	0050 0	* TOTALS	
ENDOCRINE SYSTEM																											
Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	**48**	
Degeneration, Cystic			1		1														2	1	1						**12 1.1**
Hyperplasia						2														2							**3 1.7**
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	M	+	+	**47**	
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	**48**	
Parathyroid Gland	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	M	+	+	+	M	M	+	+	**38**	
Hyperplasia																											**1 3.0**
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	**49**	
Pars Distalis, Hyperplasia										1										1	1						**12 1.3**
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	**48**	
C-cell, Hyperplasia																											**2 2.0**
Follicular Cell, Hyperplasia						1							2														**2 1.5**
GENERAL BODY SYSTEM																											
NONE																											
GENITAL SYSTEM																											
Clitoral Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	**46**	
Ovary	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	**48**	
Cyst																											**1**

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HARLAN SPRAGUE DAWLEY RATS FEMALE

10000 ppm Female

DAY ON TEST	0737	0037	0737	0732	0732	0732	0732	0736	0576	0701	0002	0737	0737	0737	0004	0735	0620	0659	0735	0736	0685	0004	0003	0736	0718		
ANIMAL ID	0046	0047	0048	0049	0050	0051	0052	0053	0054	0055	0056	0057	0058	0059	0060	0061	0062	0063	0064	0065	0066	0067	0068	0069	0070	* TOTALS	
Bilateral, Atrophy			2				3		2	2		2	3				2			3	3					**19**	**2.4**
Bilateral, Follicle, Cyst	X				X	X																				**4**	
Bursa, Cyst																										**1**	
Follicle, Cyst								X				X												X		**5**	
Germinal Epithelium, Cyst														X		X										**3**	
Paraovarian Tissue, Cyst																										**1**	
Uterus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	**48**	
Dilation					1					4																**3**	**3.0**
Hemorrhage										3																**2**	**2.0**
Inflammation, Chronic Active																										**1**	**4.0**
Thrombus																										**1**	**2.0**
Endometrium, Atypical Hyperplasia																								3		**1**	**3.0**
Endometrium, Hyperplasia, Cystic			3				1		1			2	1				1	1						3		**16**	**1.5**
Endometrium, Squamous Metaplasia			1									1					1	1								**7**	**1.4**
Vagina	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	**49**	

HEMATOPOIETIC SYSTEM

Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Hypercellularity	2		2		1	2	3	2	4	4		3	3	2		2	4	3		4	4			2	3	**38**	**2.7**
Hypocellularity											2				4							4	3			**7**	**3.1**
Lymph Node																										**2**	
Lymph Node, Mandibular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	M	M	M	+	+	**42**	
Atrophy											4															**3**	**3.7**
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	**47**	

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HARLAN SPRAGUE DAWLEY RATS FEMALE

10000 ppm Female

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ANIMAL ID	0047 6	0047 7	0047 8	0047 9	0048 0	0048 1	0048 2	0048 3	0048 4	0048 5	0048 6	0048 7	0048 8	0048 9	0049 0	0049 1	0049 2	0049 3	0049 4	0049 5	0049 6	0049 7	0049 8	0049 9	0050 0	* TOTALS	
Atrophy											4				2							2				**4**	**3.0**
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	**47**	
Extramedullary Hematopoiesis	2		2	2	1	1	2	2	1	3		2	2	1		1	3	3	1	2				2	3	**39**	**1.8**
Pigment	2		1	1	2	2	1	2	2	1		1	1	2		2		1	1	1	3			1	1	**38**	**1.4**
White Pulp, Atrophy		4								2					3						4					**11**	**2.6**
Thymus	+	M	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	**45**	
Atrophy	2		2	2	3	4		3	4	3		3	3		3	2	2	3	1	3	4	3		2	3	**42**	**2.3**
Ectopic Parathyroid Gland													2													**1**	**2.0**
Necrosis											2															**1**	**2.0**
INTEGUMENTARY SYSTEM																											
Mammary Gland	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	**47**	
Galactocele																				2						**1**	**2.0**
Hyperplasia	1				1			1						1		2								1		**10**	**1.4**
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**49**	
MUSCULOSKELETAL SYSTEM																											
Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Skeletal Muscle																					+				+	**2**	
NERVOUS SYSTEM																											
Brain	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	**49**	
Necrosis																										**1**	**2.0**

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HARLAN SPRAGUE DAWLEY RATS FEMALE 10000 ppm Female																										
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Meninges, Hyperplasia																										**1 1.0**
RESPIRATORY SYSTEM																										
Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	**48**
Infiltration Cellular, Histiocyte	1		3	2	2	2	2	3	2	2		1	3	2		3	3	2	2	3	4			2	3	**42 2.4**
Inflammation, Granulomatous																				1				1	1	**7 1.0**
Thrombus																		1								**1 1.0**
Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Olfactory Epithelium, Accumulation, Hyaline Droplet	3		3	3	3	2	2	2	1	2		3	2	4		2	3	3	2	2				2	1	**41 2.2**
Respiratory Epithelium, Accumulation, Hyaline Droplet						1																				**1 1.0**
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	**49**
SPECIAL SENSES SYSTEM																										
Eye	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**49**
Cornea, Inflammation, Acute																										**2 1.5**
Lens, Cataract																								2		**1 2.0**
Retina, Degeneration																										**2 2.0**
Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**49**
URINARY SYSTEM																										
Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	**48**
Infarct				3			1	1		1				1				1		1						**12 1.5**
Nephropathy, Chronic Progressive	2		1	1	1	1		1				1	1	2		1	1	1		3	1			1	2	**37 1.2**

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Epithelium, Papilla, Hyperplasia				1	1			1				1		2		3	1			2					1	**15**	**1.3**
Papilla, Edema	1		1	2	3	2	1	2	1	1		2	1	1		2	2	2	2	1					1	**38**	**1.6**
Papilla, Hemorrhage																										**2**	**1.0**
Pelvis, Dilation																										**1**	**1.0**
Renal Tubule, Accumulation, Hyaline Droplet																										**1**	**1.0**
Renal Tubule, Cyst																				X						**7**	
Renal Tubule, Dilation		4		2															2							**3**	**2.7**
Urethra																										**1**	
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	**48**	

*** END OF REPORT ***

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