Final 3_Rats

NTP Study Number:	C20712
Lock Date:	04/09/2018
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

DAY ON TEST	0597	0647	0732	0407	0697	0725	0729	0633	0729	0720	0732	0732	0731	0731	0570	0729	0654	0729	0599	0674	0730	0730	0653	0547	0729	
HARLAN SPRAGUE DAWLEY RATS MALE **0 ppm males** 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	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Erosion																										
Inflammation, Suppurative																										
Inflammation, Chronic Active																								1		
Mineral																										
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Parasite Metazoan														X								X				
Lymphoid Tissue, Hyperplasia																										
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Parasite Metazoan									X							X						X			X	
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Polyarteritis Nodosa									3																	
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hyperplasia																					3					
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Basophilic Focus																										
Clear Cell Focus	X		X				X	X	X		X	X	X	X		X					X	X			X	
Eosinophilic Focus												X														
Fatty Change																				2						

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

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HARLAN SPRAGUE DAWLEY RATS MALE																										
0 ppm males																										
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...)**
Mixed Cell Focus													X													
Necrosis				2																						
Bile Duct, Cyst					X						X															
Bile Duct, Dilation																		3								
Bile Duct, Hyperplasia	1					2						1				1	1	2								
Mesentery						+																				
Hemorrhage																										
Polyarteritis Nodosa						3																				
Fat, Necrosis																										
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Polyarteritis Nodosa		2	1						3									2				1				
Acinus, Atrophy							2																			
Acinus, Hyperplasia								3									4	4			4	4				
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Inflammation, Acute																										
Inflammation, Chronic																										
Inflammation, Chronic Active					1					2										2						
Ulcer					2															1						
Epithelium, Hyperplasia					4					2										2						
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Erosion																							2			
Inflammation, Suppurative																							1			
Inflammation, Chronic Active			1																							
Mineral						3											3							2		

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HARLAN SPRAGUE DAWLEY RATS MALE																										
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CARDIOVASCULAR SYSTEM																										
Blood Vessel	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Degeneration																										
Degeneration, Hyaline																								1		
Inflammation, Chronic Active																1										
Mineral						2											1									
Necrosis, Fibrinoid																										
Carotid Artery, Polyarteritis Nodosa									3																	
Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Cardiomyopathy	3	1	2		1	2	1		1			1	2	1	1	1	2	2	1	1	1		2	1		
Inflammation, Acute																										
Mineral																										
ENDOCRINE SYSTEM																										
Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Degeneration, Cystic			1										1												1	
Hyperplasia, Focal		2											1													
Hypertrophy, Focal			1								1	1				1			1		1				2	
Necrosis						4																				
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hyperplasia, Focal					1		2					1	4			3	1				1			1		
Necrosis						3																				
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hyperplasia																	2									

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HARLAN SPRAGUE DAWLEY RATS MALE																										
0 ppm males																										
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Parathyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	
Hyperplasia		2																	3							
Infiltration Cellular, Lymphocyte																			2							
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Pars Distalis, Hyperplasia		3	3			1	1	2		1				3		1	4				4					
Rathke's Cleft, Hyperplasia									2																	
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Infiltration Cellular, Lymphocyte																					3					
C-cell, Hyperplasia							1						4	2									3			
GENERAL BODY SYSTEM																										
NONE																										
GENITAL SYSTEM																										
Coagulating Gland																									+	
Hyperplasia																									1	
Inflammation, Chronic Active																										
Epididymis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Epithelium, Degeneration	2																									
Penis																							+			
Preputial Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hyperplasia	1																									
Inflammation, Suppurative																										

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HARLAN SPRAGUE DAWLEY RATS MALE																										
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Prostate	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Inflammation, Chronic Active									1																	
Seminal Vesicle	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Testis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Polyarteritis Nodosa		2	1			3			3		1						2	2	1				1			
Germinal Epithelium, Degeneration		3	1			2	3	3		1	3	1		4			3			3			2	2	3	
Germinal Epithelium, Polyarteritis Nodosa	1																									
Interstitial Cell, Hyperplasia					2													1								
HEMATOPOIETIC SYSTEM																										
Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hemorrhage						4																	4	3		
Hypercellularity		3		4					1				2				2	1	2	2	1		2			
Hypocellularity																								2		
Lymph Node																										
Lymph Node, Mandibular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Atrophy																	3									
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Atrophy																	3						2			
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Extramedullary Hematopoiesis	2	3	2	3	1		2		2	2	2	2	2	2	1	2	3	2		1	1	2	1		2	
Pigment	2	1	1		2	2	2	1	2		1	1	2	1	3	1	1	1	2	2	2	1	2	2	1	

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HARLAN SPRAGUE DAWLEY RATS MALE																										
0 ppm males 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...)**
White Pulp, Atrophy		1				3								1	3		3		2				4	4		
Thymus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	
Atrophy	1	1	2	2	1	4	2		2		1	2	2	2	4	2	4	3	2	3	2	2	4	4		
Ectopic Tissue, Parathyroid Gland																										
Hyperplasia, Lymphocyte								4																		
Polyarteritis Nodosa																					1					
INTEGUMENTARY SYSTEM																										
Mammary Gland	+	+	+	+	+	+	+	+	+	M	+	+	+	+	M	+	+	+	+	M	+	+	+	+	+	
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
MUSCULOSKELETAL SYSTEM																										
Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Fracture, Chronic							X																			
Cartilage, Vertebra, Hyperplasia																										
Joint, Degeneration											2															
Skeletal Muscle																										
Degeneration																										
Mineral																										
NERVOUS SYSTEM																										
Brain	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Gliosis																										
Hemorrhage																										

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HARLAN SPRAGUE DAWLEY RATS MALE																										
0 ppm males 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...)**
Necrosis						2									3											
Brain Trigeminal Ganglion																										
Nerve Trigeminal																							+			
Peripheral Nerve																							+			
Axon, Tibial, Degeneration																										
Spinal, Hyperplasia																										
Spinal Cord																							+			
RESPIRATORY SYSTEM																										
Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Foreign Body																										
Infiltration Cellular, Histiocyte		1		1	2		1	1	2	1	2	2	1	1		2		2	1	1	1				3	
Inflammation, Granulomatous, Focal			1																	1	1				1	
Inflammation, Acute																										
Inflammation, Chronic Active		1												1									3			
Mineral																										
Alveolar Epithelium, Hyperplasia													1											1		
Bronchiole, Cyst																										
Bronchiole, Fibrosis																							2			
Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Foreign Body										X																
Inflammation, Suppurative										3																
Inflammation, Acute																					1	1	1			
Epithelium, Accumulation, Hyaline Droplet			3		1	1		1	3	2	3	1	1		1	4	1	2	2	3	1				1	

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HARLAN SPRAGUE DAWLEY RATS MALE 0 ppm males	DAY ON TEST	0597	0647	0732	0407	0697	0725	0729	0633	0729	0720	0732	0732	0731	0731	0570	0729	0654	0729	0599	0674	0730	0730	0653	0547	0729	males (cont...)
	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	
Olfactory Epithelium, Metaplasia, Respiratory														1													
Olfactory Epithelium, Necrosis																											
Respiratory Epithelium, Dilation, Glands																											
Respiratory Epithelium, Hyperplasia																											
Respiratory Epithelium, Necrosis																											
Trachea		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
SPECIAL SENSES SYSTEM																											
Eye		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Choroid, Hyperplasia																											
Cornea, Inflammation, Suppurative						2																					
Cornea, Inflammation, Acute																						2			1		
Harderian Gland		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
URINARY SYSTEM																											
Kidney		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Calculus Micro Observation Only												X															
Infarct					1																						
Nephropathy, Chronic Progressive		3	3	3		2	4	3	2	4	2	2	3	3	2	2	2	4	4	3	2	3	3	4	4	2	
Pelvis, Dilation																											
Renal Tubule, Accumulation, Hyaline Droplet			2																								
Urinary Bladder		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Urothelium, Infiltration Cellular, Mast Cell																	1										

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HARLAN SPRAGUE DAWLEY RATS MALE

0 ppm males

DAY ON TEST	0592	0608	0729	0592	0541	0732	0483	0239	0729	0521	0729	0554	0731	0730	0730	0729	0617	0731	0314	0732	0732	0571	0732	0615	0732	* TOTALS	
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		
ALIMENTARY SYSTEM																											
Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Intestine Large, Cecum	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**49**	
Erosion												3														**1**	**3.0**
Inflammation, Suppurative												2														**1**	**2.0**
Inflammation, Chronic Active																										**1**	**1.0**
Mineral												4														**1**	**4.0**
Intestine Large, Colon	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**49**	
Parasite Metazoan						X																				**3**	
Lymphoid Tissue, Hyperplasia									2						3											**2**	**2.5**
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Parasite Metazoan						X										X									X	**7**	
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Polyarteritis Nodosa																										**1**	**3.0**
Intestine Small, Ileum	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**49**	
Intestine Small, Jejunum	+	+	+	+	+	+	A	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**48**	
Hyperplasia									2																	**2**	**2.5**
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Basophilic Focus		X																								**1**	
Clear Cell Focus			X			X			X		X		X	X	X	X		X		X	X		X		X	**26**	
Eosinophilic Focus									X					X												**3**	
Fatty Change																	1									**2**	**1.5**

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HARLAN SPRAGUE DAWLEY RATS MALE

0 ppm males

DAY ON TEST	0592	0608	0729	0592	0541	0732	0483	0239	0729	0521	0729	0554	0731	0730	0730	0729	0617	0731	0314	0732	0732	0571	0732	0615	0732	
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**
Mixed Cell Focus																										**1**
Necrosis	1				2																					**3 1.7**
Bile Duct, Cyst																X										**3**
Bile Duct, Dilation																										**1 3.0**
Bile Duct, Hyperplasia						1			1	1						1								1	1	**12 1.2**
Mesentery	+																+							+		**4**
Hemorrhage	3																									**1 3.0**
Polyarteritis Nodosa																										**1 3.0**
Fat, Necrosis																	1									**1 1.0**
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Polyarteritis Nodosa																										**5 1.8**
Acinus, Atrophy												2				1			1				1			**5 1.4**
Acinus, Hyperplasia					3											1							4			**8 3.4**
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Inflammation, Acute								1																		**1 1.0**
Inflammation, Chronic																								2		**1 2.0**
Inflammation, Chronic Active																	3									**4 2.0**
Ulcer																								2		**3 1.7**
Epithelium, Hyperplasia									1								4							1		**6 2.3**
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Erosion																										**1 2.0**
Inflammation, Suppurative																										**1 1.0**
Inflammation, Chronic Active																										**1 1.0**
Mineral	2			3			4					2														**7 2.7**

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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

0 ppm males

DAY ON TEST	0592	0608	0729	0592	0541	0732	0483	0239	0729	0521	0729	0554	0731	0730	0730	0729	0617	0731	0314	0732	0732	0571	0732	0615	0732	
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
CARDIOVASCULAR SYSTEM																										
Blood Vessel	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Degeneration																							1			**1 1.0**
Degeneration, Hyaline												3														**2 2.0**
Inflammation, Chronic Active																										**1 1.0**
Mineral	3			2			4					2														**6 2.3**
Necrosis, Fibrinoid																					1					**1 1.0**
Carotid Artery, Polyarteritis Nodosa																										**1 3.0**
Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Cardiomyopathy	3			3			3				1	3	1				1			1	1	1			1	**30 1.5**
Inflammation, Acute					1																					**1 1.0**
Mineral	2			2			3																			**3 2.3**
ENDOCRINE SYSTEM																										
Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Degeneration, Cystic						1																				**4 1.0**
Hyperplasia, Focal			1								1									1						**5 1.2**
Hypertrophy, Focal	1	1				1			1		1		1				1				2					**15 1.1**
Necrosis																										**1 4.0**
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Hyperplasia, Focal				1						3	3			1	2			1		1						**15 1.7**
Necrosis																										**1 3.0**
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Hyperplasia																										**1 2.0**

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DAY ON TEST	0592	0608	0729	0592	0541	0732	0483	0239	0729	0521	0729	0554	0731	0730	0730	0729	0617	0731	0314	0732	0732	0571	0732	0615	0732	
HARLAN SPRAGUE DAWLEY RATS MALE																										
0 ppm males																										
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**
Parathyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**49**
Hyperplasia	3						4									2										**5 2.8**
Infiltration Cellular, Lymphocyte																										**1 2.0**
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Pars Distalis, Hyperplasia		3	1							1				1		1				1	4			2		**18 2.1**
Rathke's Cleft, Hyperplasia																										**1 2.0**
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Infiltration Cellular, Lymphocyte																										**1 3.0**
C-cell, Hyperplasia		1	4		3	1			3							3	1							2		**12 2.3**
GENERAL BODY SYSTEM																										
NONE																										
GENITAL SYSTEM																										
Coagulating Gland				+																						**2**
Hyperplasia																										**1 1.0**
Inflammation, Chronic Active				2																						**1 2.0**
Epididymis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Epithelium, Degeneration																										**1 2.0**
Penis																										**1**
Preputial Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Hyperplasia																										**1 1.0**
Inflammation, Suppurative																4				4						**2 4.0**

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DAY ON TEST / HARLAN SPRAGUE DAWLEY RATS MALE / 0 ppm males / ANIMAL ID	0592 000026	0608 000027	0729 000028	0592 000029	0541 000030	0732 000031	0483 000032	0239 000033	0729 000034	0521 000035	0729 000036	0554 000037	0731 000038	0730 000039	0730 000040	0729 000041	0617 000042	0731 000043	0314 000044	0732 000045	0732 000046	0571 000047	0732 000048	0615 000049	0732 000050	* TOTALS	
Prostate	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Inflammation, Chronic Active				2					1																1	**4**	**1.3**
Seminal Vesicle	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Testis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Polyarteritis Nodosa	1			1					1													1				**13**	**1.5**
Germinal Epithelium, Degeneration			1	2			1					2			1		3								1	**21**	**2.1**
Germinal Epithelium, Polyarteritis Nodosa																										**1**	**1.0**
Interstitial Cell, Hyperplasia			1																							**3**	**1.3**
HEMATOPOIETIC SYSTEM																											
Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Hemorrhage	3			2								4														**6**	**3.3**
Hypercellularity	2	3			3	2		2						1			2	2				1	2		2	**21**	**2.0**
Hypocellularity																										**1**	**2.0**
Lymph Node		+																						+		**2**	
Lymph Node, Mandibular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Atrophy												2														**2**	**2.5**
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Atrophy																										**2**	**2.5**
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Extramedullary Hematopoiesis	2		2		1	2			2	2	2		2	2	2	2	1	2	1	2	2		2		2	**39**	**1.9**
Pigment	2	1	1	3	2	1	2	2	1	2	2	2		1	1	1	1	1	2	1	1	1	1		1	**46**	**1.5**

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HARLAN SPRAGUE DAWLEY RATS MALE 0 ppm males	DAY ON TEST	0592	0608	0729	0592	0541	0732	0483	0239	0729	0521	0729	0554	0731	0730	0730	0729	0617	0731	0314	0732	0732	0571	0732	0615	0732	* TOTALS	
	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		
White Pulp, Atrophy		4	3		2	1		4	2				4														**15**	**2.7**
Thymus		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**49**	
Atrophy		3	4	2	3	2		4	2	1	2	2	4	2	2	3	3	4	4		2	3	3	2		2	**44**	**2.5**
Ectopic Tissue, Parathyroid Gland													3				2										**2**	**2.5**
Hyperplasia, Lymphocyte							4																				**2**	**4.0**
Polyarteritis Nodosa																											**1**	**1.0**
INTEGUMENTARY SYSTEM																												
Mammary Gland		+	+	+	+	+	+	+	+	+	+	+	+	M	M	+	+	+	+	+	+	+	+	+	+	+	**45**	
Skin		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
MUSCULOSKELETAL SYSTEM																												
Bone		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Fracture, Chronic																											**1**	
Cartilage, Vertebra, Hyperplasia																		2									**1**	**2.0**
Joint, Degeneration																											**1**	**2.0**
Skeletal Muscle					+		+											+									**3**	
Degeneration					3													2									**2**	**2.5**
Mineral					3																						**1**	**3.0**
NERVOUS SYSTEM																												
Brain		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Gliosis																			1								**1**	**1.0**
Hemorrhage																			1						4		**2**	**2.5**

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DAY ON TEST	0592	0608	0729	0592	0541	0732	0483	0239	0729	0521	0729	0554	0731	0730	0730	0729	0617	0731	0314	0732	0732	0571	0732	0615	0732	
HARLAN SPRAGUE DAWLEY RATS MALE																										
0 ppm males 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**
Necrosis					4			4																		**4 3.3**
Brain Trigeminal Ganglion																	+									**1**
Nerve Trigeminal																	+									**2**
Peripheral Nerve																	+							+		**3**
Axon, Tibial, Degeneration																	2									**1 2.0**
Spinal, Hyperplasia																	2									**1 2.0**
Spinal Cord																	+									**2**
RESPIRATORY SYSTEM																										
Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Foreign Body				X																						**1**
Infiltration Cellular, Histiocyte		2	1							1				2	2	2		2	2	1	1	1	2	1	1	**31 1.5**
Inflammation, Granulomatous, Focal				3			2																1			**7 1.4**
Inflammation, Acute		1																								**1 1.0**
Inflammation, Chronic Active																										**3 1.7**
Mineral							3																			**1 3.0**
Alveolar Epithelium, Hyperplasia																										**2 1.0**
Bronchiole, Cyst				X																						**1**
Bronchiole, Fibrosis																										**1 2.0**
Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Foreign Body																									X	**2**
Inflammation, Suppurative																										**1 3.0**
Inflammation, Acute																1	1								1	**6 1.0**
Epithelium, Accumulation, Hyaline Droplet	1	1	2			2		1	3	1	1	1	3	1	1	1	2	3	3	3	1			2	2	**37 1.8**

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HARLAN SPRAGUE DAWLEY RATS MALE																										
0 ppm males 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**
Olfactory Epithelium, Metaplasia, Respiratory																										**1 1.0**
Olfactory Epithelium, Necrosis		2																								**1 2.0**
Respiratory Epithelium, Dilation, Glands									2																	**1 2.0**
Respiratory Epithelium, Hyperplasia											1															**1 1.0**
Respiratory Epithelium, Necrosis		2															1									**2 1.5**
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
SPECIAL SENSES SYSTEM																										
Eye	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Choroid, Hyperplasia												2														**1 2.0**
Cornea, Inflammation, Suppurative																										**1 2.0**
Cornea, Inflammation, Acute		2		1																						**4 1.5**
Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
URINARY SYSTEM																										
Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Calculus Micro Observation Only																										**1**
Infarct		1																								**2 1.0**
Nephropathy, Chronic Progressive	4	2	2	4	3	3	4	1	4	1	3	4	2	2	3	3	2	3	1	3	3	3	3	2	2	**49 2.8**
Pelvis, Dilation													1													**1 1.0**
Renal Tubule, Accumulation, Hyaline Droplet																										**1 2.0**
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Urothelium, Infiltration Cellular, Mast Cell																										**1 1.0**

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HARLAN SPRAGUE DAWLEY RATS MALE

2500 ppm males

DAY ON TEST	0729	0721	0729	0729	0729	0642	0731	0721	0732	0687	0732	0732	0730	0730	0729	0729	0653	0729	0730	0563	0731	0731	0731	0731	0732	**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	00073	00074	00075	
ALIMENTARY SYSTEM																										
Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Inflammation, Acute								2																		
Mineral						2		2																		
Polyarteritis Nodosa												3														
Lymphoid Tissue, Hyperplasia																		2								
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Parasite Metazoan																										
Lymphoid Tissue, Hyperplasia																										
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Parasite Metazoan											X							X				X		X		
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Intestine Small, Jejunum	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Basophilic Focus																										
Clear Cell Focus			X	X	X		X		X				X	X	X	X		X	X		X	X	X	X	X	
Degeneration, Cystic																										
Eosinophilic Focus											X													X		
Mixed Cell Focus								X					X													
Necrosis																				2						

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DAY ON TEST	07 29	07 21	07 29	07 29	07 29	06 42	07 31	07 21	07 32	06 87	07 32	07 32	07 30	07 30	07 29	07 29	06 53	07 29	07 30	05 63	07 31	07 31	07 31	07 31	07 32	
HARLAN SPRAGUE DAWLEY RATS MALE																										
2500 ppm males ANIMAL ID	00051	00052	00053	00054	00055	00056	00057	00058	00059	00060	00061	00062	00063	00064	00065	00066	00067	00068	00069	00070	00071	00072	00073	00074	00075	**males (cont...)**
Polyarteritis Nodosa												3														
Bile Duct, Dilation							4																			
Bile Duct, Hyperplasia		1	1	1		2		1				1			1	1	1	1					1	1		
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Inflammation, Chronic Active																										
Polyarteritis Nodosa											2	3										2				
Acinus, Atrophy																										
Acinus, Hyperplasia		2			4					4							3	1				1		4		
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Erosion																										
Inflammation, Granulomatous																										
Inflammation, Chronic Active																										
Epithelium, Hyperplasia																										
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Mineral								3		3											1					
Polyarteritis Nodosa												3														
CARDIOVASCULAR SYSTEM																										
Blood Vessel	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Mineral								3	1	3							1									
Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Cardiomyopathy	1	2	1	1	2	1		2	1	2	1	2	1	1	1		1						1	1	1	
Mineral								1		1																

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

DAY ON TEST	0729	0721	0729	0729	0729	0642	0731	0721	0732	0687	0732	0732	0730	0730	0729	0729	0653	0729	0730	0563	0731	0731	0731	0731	0732	
HARLAN SPRAGUE DAWLEY RATS MALE																										
2500 ppm males ANIMAL ID	00051	00052	00053	00054	00055	00056	00057	00058	00059	00060	00061	00062	00063	00064	00065	00066	00067	00068	00069	00070	00071	00072	00073	00074	00075	**males (cont...)**
Polyarteritis Nodosa											2											2				
Endocardium, Hyperplasia																									2	
ENDOCRINE SYSTEM																										
Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Angiectasis								2																		
Degeneration, Cystic	1								1				1					1								
Hyperplasia, Focal						1			1												1				1	
Hypertrophy, Focal	2			1	2								1			1		1								
Necrosis											2															
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hyperplasia, Focal	1				1		1	4			1	4	4			1	2	1	3					1	1	
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hyperplasia												2										2				
Parathyroid Gland	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hyperplasia						3							4				2									
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Pars Distalis, Hyperplasia	3			1					2	2	2					1		4					1		4	
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
C-cell, Hyperplasia			2						3							1			2			2				
GENERAL BODY SYSTEM																										
NONE																										

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

DAY ON TEST	07 29	07 21	07 29	07 29	07 29	06 42	07 31	07 21	07 32	06 87	07 32	07 32	07 30	07 30	07 29	07 29	06 53	07 29	07 30	05 63	07 31	07 31	07 31	07 32	
HARLAN SPRAGUE DAWLEY RATS MALE																									
2500 ppm males ANIMAL ID	00051	00052	00053	00054	00055	00056	00057	00058	00059	00060	00061	00062	00063	00064	00065	00066	00067	00068	00069	00070	00071	00072	00073	00074	00075	**males (cont...)**
GENITAL SYSTEM																									
Coagulating Gland																									
Inflammation, Suppurative																									
Epididymis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Preputial Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Duct, Hyperplasia										1															
Prostate	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Inflammation, Suppurative																									
Inflammation, Chronic Active												1													
Seminal Vesicle	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Atrophy																									
Inflammation, Chronic Active												2													
Testis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Mineral																									
Polyarteritis Nodosa	2				2	1		1		1	2	3		1			2					2			
Germinal Epithelium, Degeneration				1	1	1		2		3	3	1		3											
Germinal Epithelium, Polyarteritis Nodosa																									
Interstitial Cell, Hyperplasia																									
HEMATOPOIETIC SYSTEM																									
Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hemorrhage								2		4	1						4								
Hypercellularity		2	1			4		2			2	2								3		2			

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DAY ON TEST	072 9	072 1	072 9	072 9	072 9	064 2	073 1	072 1	073 2	068 7	073 2	073 2	073 0	073 0	072 9	072 9	065 3	072 9	073 0	056 3	073 1	073 1	073 1	073 2	
HARLAN SPRAGUE DAWLEY RATS MALE																									
2500 ppm males ANIMAL ID	00051	00052	00053	00054	00055	00056	00057	00058	00059	00060	00061	00062	00063	00064	00065	00066	00067	00068	00069	00070	00071	00072	00073	00074	00075	**males (cont...)**
Necrosis											1														
Lymph Node											+														
Pancreatic, Hemorrhage																									
Pancreatic, Hyperplasia											3														
Renal, Infiltration Cellular, Histiocyte																									
Lymph Node, Mandibular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Hyperplasia, Lymphocyte					3																				
Lymphatic Sinus, Dilation									2										3						
Lymph Node, Mesenteric	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Hyperplasia, Lymphocyte			2				3																		
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Extramedullary Hematopoiesis	2		2	2	2	2	2		2			2	2	2	2	2		2	2	3	2	2	2	2	1
Hemorrhage																									
Pigment	1	2	1	1	1	1	1	1	1	2	2	1	1	2	2	1	1	1	2		1	2	2	2	2
White Pulp, Atrophy		2				4		4		3							1			1					
Thymus	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	M	+	+
Atrophy	1	4	2	2	1			4	2	4	3	2	3	3	2	1		1	2	3	2	3		2	2
INTEGUMENTARY SYSTEM																									
Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Hyperplasia																									
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Cyst Epithelial Inclusion		X																							

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DAY ON TEST	0729	0721	0729	0729	0729	0642	0731	0721	0732	0687	0732	0732	0730	0730	0729	0729	0653	0729	0730	0563	0731	0731	0731	0731	0732	
HARLAN SPRAGUE DAWLEY RATS MALE																										
2500 ppm males ANIMAL ID	00051	00052	00053	00054	00055	00056	00057	00058	00059	00060	00061	00062	00063	00064	00065	00066	00067	00068	00069	00070	00071	00072	00073	00074	00075	**males (cont...)**
Inflammation, Suppurative																										
MUSCULOSKELETAL SYSTEM																										
Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
NERVOUS SYSTEM																										
Brain	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Gliosis							3		3																	
Hemorrhage																										
Necrosis																										
Thrombus											X															
Nerve Trigeminal								+																		
Peripheral Nerve								+																		
Axon, Sciatic, Degeneration								2																		
Axon, Tibial, Degeneration								1																		
Spinal Cord								+																		
Hemorrhage																										
RESPIRATORY SYSTEM																										
Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Infiltration Cellular, Histiocyte	2	1			2	3	2	2	2	2	1		3			2		1	1	1	1	1		1	1	
Inflammation, Granulomatous, Focal							1		1			1	1			1									1	
Inflammation, Acute		2				2																				
Mineral								1																		

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DAY ON TEST	072 9	072 1	072 9	072 9	072 9	064 2	073 1	072 1	073 2	068 7	073 2	073 2	073 0	073 0	072 9	072 9	065 3	072 9	073 0	056 3	073 1	073 1	073 1	073 1	073 2	
HARLAN SPRAGUE DAWLEY RATS MALE																										
2500 ppm males ANIMAL ID	00051	00052	00053	00054	00055	00056	00057	00058	00059	00060	00061	00062	00063	00064	00065	00066	00067	00068	00069	00070	00071	00072	00073	00074	00075	**males (cont...)**
Alveolar Epithelium, Hyperplasia			2																	2		1				
Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Foreign Body		X																	X							
Inflammation, Suppurative		4																	3							
Inflammation, Acute	1			1						1					1						1					
Polyarteritis Nodosa					2																					
Epithelium, Accumulation, Hyaline Droplet	1		2	2	3		1	3	2	2	1	2	2	4	3	4		2	3	3	3	3	1		1	
Olfactory Epithelium, Metaplasia, Respiratory																			1							
Respiratory Epithelium, Hyperplasia																					2					
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
SPECIAL SENSES SYSTEM																										
Eye	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Cornea, Inflammation, Acute																										
Retina, Degeneration											3															
Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Polyarteritis Nodosa												3														
URINARY SYSTEM																										
Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Infarct																		1		1						
Nephropathy, Chronic Progressive	3	4	2	2	4	4	2	4	3	4	4	4	3	3	1	2	4	1	3	1	1	3	1	2	3	
Papilla, Necrosis																										
Pelvis, Inflammation, Chronic Active												3														
Renal Tubule, Accumulation, Hyaline Droplet								1																		

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DAY ON TEST	0729	0721	0729	0729	0729	0642	0731	0721	0732	0687	0732	0732	0730	0730	0729	0729	0653	0729	0730	0563	0731	0731	0731	0731	0732	
HARLAN SPRAGUE DAWLEY RATS MALE																										
2500 ppm males																										
ANIMAL ID	00051	00052	00053	00054	00055	00056	00057	00058	00059	00060	00061	00062	00063	00064	00065	00066	00067	00068	00069	00070	00071	00072	00073	00074	00075	**males (cont...)**
Renal Tubule, Cyst																										
Renal Tubule, Hyperplasia															3											
Renal Tubule, Hyperplasia, Oncocytic																								2		
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Inflammation, Chronic Active																										
Polyarteritis Nodosa												3														
Urothelium, Hyperplasia																										

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DAY ON TEST	0588	0637	0554	0729	0729	0729	0729	0725	0731	0729	0571	0729	0729	0518	0400	0730	0730	0414	0730	0629	0732	0732	0732	0730	0616	
HARLAN SPRAGUE DAWLEY RATS MALE																										
2500 ppm males ANIMAL ID	00076	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	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Inflammation, Acute																										**1 2.0**
Mineral																										**2 2.0**
Polyarteritis Nodosa										2																**2 2.5**
Lymphoid Tissue, Hyperplasia																										**1 2.0**
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Parasite Metazoan										X																**1**
Lymphoid Tissue, Hyperplasia															3											**1 3.0**
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Parasite Metazoan									X																	**5**
Intestine Small, Duodenum	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**49**
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**49**
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Basophilic Focus	X																									**1**
Clear Cell Focus				X	X	X	X		X			X	X			X	X	X	X		X	X	X	X		**31**
Degeneration, Cystic											1															**1 1.0**
Eosinophilic Focus																X			X			X				**5**
Mixed Cell Focus																										**2**
Necrosis	2																	1		2						**4 1.8**

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HARLAN SPRAGUE DAWLEY RATS MALE

2500 ppm males

DAY ON TEST	0588	0637	0554	0729	0729	0729	0729	0725	0731	0729	0571	0729	0729	0518	0400	0730	0730	0414	0730	0629	0732	0732	0732	0730	0616	
ANIMAL ID	00076	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**
Polyarteritis Nodosa																										**1 3.0**
Bile Duct, Dilation																										**1 4.0**
Bile Duct, Hyperplasia				1	1	1	1			1		1			1		1	1			1		1			**23 1.0**
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Inflammation, Chronic Active				2																						**1 2.0**
Polyarteritis Nodosa																					2					**4 2.3**
Acinus, Atrophy												1				2										**2 1.5**
Acinus, Hyperplasia	3			4			4			2											4					**12 3.0**
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Erosion																				1						**1 1.0**
Inflammation, Granulomatous															2											**1 2.0**
Inflammation, Chronic Active							2	1												1						**3 1.3**
Epithelium, Hyperplasia							2	2																		**2 2.0**
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Mineral			3																					1		**5 2.2**
Polyarteritis Nodosa																										**1 3.0**

CARDIOVASCULAR SYSTEM

Blood Vessel	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Mineral			2				1											1	1							**8 1.6**
Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Cardiomyopathy		1	2	1		1		1	1	1						1	1				1		1	1		**30 1.2**
Mineral			1																							**3 1.0**

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DAY ON TEST / HARLAN SPRAGUE DAWLEY RATS MALE / 2500 ppm males / ANIMAL ID	0588 0076	0637 0077	0554 0078	0729 0079	0729 0080	0729 0081	0729 0082	0725 0083	0731 0084	0729 0085	0571 0086	0729 0087	0729 0088	0518 0089	0400 0090	0730 0091	0730 0092	0414 0093	0730 0094	0629 0095	0732 0096	0732 0097	0732 0098	0730 0099	0616 0100	* TOTALS	
Polyarteritis Nodosa																										**2**	**2.0**
Endocardium, Hyperplasia																										**1**	**2.0**
ENDOCRINE SYSTEM																											
Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Angiectasis																										**1**	**2.0**
Degeneration, Cystic										1									1						1	**7**	**1.0**
Hyperplasia, Focal	2			1		1				1		4					1				2	2				**12**	**1.5**
Hypertrophy, Focal				2		1				1								1	1				1	1	1	**14**	**1.2**
Necrosis																										**1**	**2.0**
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Hyperplasia, Focal			1	2	1	1	1	1	2				1							1	2			1	1	**25**	**1.6**
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Hyperplasia				2	1																	2				**5**	**1.8**
Parathyroid Gland	+	M	+	+	+	+	+	+	+	+	M	+	+	M	+	+	+	+	+	+	+	+	+	+	+	**46**	
Hyperplasia																							3			**4**	**3.0**
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Pars Distalis, Hyperplasia					1	4			1						1	4	1			1	1					**17**	**2.0**
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
C-cell, Hyperplasia							1																			**6**	**1.8**
GENERAL BODY SYSTEM																											
NONE																											

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
+ .. Tissue examined microscopically
X .. Lesion present
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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

2500 ppm males

DAY ON TEST	0588	0637	0554	0729	0729	0729	0729	0725	0731	0729	0571	0729	0729	0518	0400	0730	0730	0414	0730	0629	0732	0732	0732	0730	0616	
ANIMAL ID	00076	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**
GENITAL SYSTEM																										
Coagulating Gland																									+	**1**
Inflammation, Suppurative																									3	**1 3.0**
Epididymis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Preputial Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Duct, Hyperplasia																										**1 1.0**
Prostate	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Inflammation, Suppurative																									4	**1 4.0**
Inflammation, Chronic Active		1																	1							**3 1.0**
Seminal Vesicle	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Atrophy								3																		**1 3.0**
Inflammation, Chronic Active																										**1 2.0**
Testis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Mineral																					1					**1 1.0**
Polyarteritis Nodosa				1						2											2					**13 1.7**
Germinal Epithelium, Degeneration								1		3						4	1		2		4			3		**15 2.2**
Germinal Epithelium, Polyarteritis Nodosa			1																							**1 1.0**
Interstitial Cell, Hyperplasia									1																	**1 1.0**
HEMATOPOIETIC SYSTEM																										
Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Hemorrhage			4							2																**6 2.8**
Hypercellularity	3						1	2										4				1		1	2	**15 2.1**

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

HARLAN SPRAGUE DAWLEY RATS MALE

2500 ppm males

DAY ON TEST	0588	0637	0554	0729	0729	0729	0729	0725	0731	0729	0571	0729	0729	0518	0400	0730	0730	0730	0414	0730	0629	0732	0732	0732	0730	0616	
ANIMAL ID	00076	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**
Necrosis																											**1 1.0**
Lymph Node																				+	+				+	**4**	
Pancreatic, Hemorrhage																									4		**1 4.0**
Pancreatic, Hyperplasia																											**1 3.0**
Renal, Infiltration Cellular, Histiocyte																					2						**1 2.0**
Lymph Node, Mandibular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Hyperplasia, Lymphocyte																											**1 3.0**
Lymphatic Sinus, Dilation																											**2 2.5**
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**49**	
Hyperplasia, Lymphocyte																											**2 2.5**
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Extramedullary Hematopoiesis	3	2		1	2	2	2	2	2			2	2			2	2	4	2		2	2	2	2			**38 2.1**
Hemorrhage																				4							**1 4.0**
Pigment		1	2	2	2	1	2	2	1	2	2	1	1	2	1	2	1		2		2	2	2	1			**45 1.5**
White Pulp, Atrophy	2		4								2							1									**10 2.4**
Thymus	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	**45**
Atrophy	3	2	4	2	4	3	2	1		3	2	3	1	3		2	2	2	3	4	2	2	2	2			**43 2.4**
INTEGUMENTARY SYSTEM																											
Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Hyperplasia																		1		2							**2 1.5**
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Cyst Epithelial Inclusion									X												X						**3**

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

DAY ON TEST / HARLAN SPRAGUE DAWLEY RATS MALE / 2500 ppm males / ANIMAL ID	0588 0076	0637 0077	0554 0078	0729 0079	0729 0080	0729 0081	0729 0082	0725 0083	0731 0084	0729 0085	0571 0086	0729 0087	0729 0088	0518 0089	0400 0090	0730 0091	0730 0092	0414 0093	0730 0094	0629 0095	0732 0096	0732 0097	0732 0098	0730 0099	0616 0100	* TOTALS	
Inflammation, Suppurative								4																		**1**	**4.0**
MUSCULOSKELETAL SYSTEM																											
Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
NERVOUS SYSTEM																											
Brain	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Gliosis																										**2**	**3.0**
Hemorrhage																				2					2	**2**	**2.0**
Necrosis											4															**1**	**4.0**
Thrombus																										**1**	
Nerve Trigeminal																				+						**2**	
Peripheral Nerve																				+						**2**	
Axon, Sciatic, Degeneration																										**1**	**2.0**
Axon, Tibial, Degeneration																										**1**	**1.0**
Spinal Cord																				+						**2**	
Hemorrhage																				3						**1**	**3.0**
RESPIRATORY SYSTEM																											
Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Infiltration Cellular, Histiocyte	3	2			2	1	1		2	2	2	3	3	1	1		2		2		2	1	1	2		**36**	**1.7**
Inflammation, Granulomatous, Focal				1			1					1							1		1	1	1	1		**14**	**1.0**
Inflammation, Acute										1																**3**	**1.7**
Mineral			2																							**2**	**1.5**

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HARLAN SPRAGUE DAWLEY RATS MALE 2500 ppm males	DAY ON TEST	0588	0637	0554	0729	0729	0729	0729	0725	0731	0729	0571	0729	0729	0518	0400	0730	0730	0730	0414	0730	0629	0732	0732	0732	0730	0616	* TOTALS	
	ANIMAL ID	00076	00077	00078	00079	00080	00081	00082	00083	00084	00085	00086	00087	00088	00089	00090	00091	00092	00093	00094	00095	00096	00097	00098	00099	00100			
Alveolar Epithelium, Hyperplasia						1								1			2											**6**	**1.5**
Nose		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Foreign Body																												**2**	
Inflammation, Suppurative																												**2**	**3.5**
Inflammation, Acute		1																										**6**	**1.0**
Polyarteritis Nodosa																												**1**	**2.0**
Epithelium, Accumulation, Hyaline Droplet			1		1	2	4		4	4	3		4	3	3	4	4	4	1	2	1	4	2	2	2	2		**42**	**2.5**
Olfactory Epithelium, Metaplasia, Respiratory																												**1**	**1.0**
Respiratory Epithelium, Hyperplasia																												**1**	**2.0**
Trachea		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
SPECIAL SENSES SYSTEM																													
Eye		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Cornea, Inflammation, Acute								1																				**1**	**1.0**
Retina, Degeneration															2													**2**	**2.5**
Harderian Gland		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Polyarteritis Nodosa																												**1**	**3.0**
URINARY SYSTEM																													
Kidney		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Infarct																						1	1					**4**	**1.0**
Nephropathy, Chronic Progressive		3	2	4	3	1	3	3	4	2	4	1	1	1	3	3	1	2	1	2	3	3	3	3	2	2		**50**	**2.6**
Papilla, Necrosis																										1		**1**	**1.0**
Pelvis, Inflammation, Chronic Active																												**1**	**3.0**
Renal Tubule, Accumulation, Hyaline Droplet																					1							**2**	**1.0**

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DAY ON TEST	0588	0637	0554	0729	0729	0729	0729	0725	0731	0729	0571	0729	0729	0518	0400	0730	0730	0414	0730	0629	0732	0732	0732	0730	0616	
HARLAN SPRAGUE DAWLEY RATS MALE																										
2500 ppm males																										
ANIMAL ID	00076	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**
Renal Tubule, Cyst																						X				**1**
Renal Tubule, Hyperplasia																										**1 3.0**
Renal Tubule, Hyperplasia, Oncocytic																										**1 2.0**
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Inflammation, Chronic Active																									3	**1 3.0**
Polyarteritis Nodosa																										**1 3.0**
Urothelium, Hyperplasia																									2	**1 2.0**

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DAY ON TEST	0729	0657	0732	0566	0732	0732	0696	0613	0731	0731	0270	0565	0732	0732	0732	0732	0695	0730	0729	0729	0571	0731	0731	0731	0729	
HARLAN SPRAGUE DAWLEY RATS MALE																										
5000 ppm males ANIMAL ID	00101	00102	00103	00104	00105	00106	00107	00108	00109	00110	00111	00112	00113	00114	00115	00116	00117	00118	00119	00120	00121	00122	00123	00124	00125	**males (cont...)**
ALIMENTARY SYSTEM																										
Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Erosion							3																			
Inflammation, Acute							1																			
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Diverticulum																										
Parasite Metazoan															X											
Lymphoid Tissue, Hyperplasia										3																
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Parasite Metazoan	X													X										X		
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	X		X	X	X		X		X	X	
Eosinophilic Focus		X																					X			
Fatty Change							1																			
Hepatodiaphragmatic Nodule							X																			
Mixed Cell Focus																									X	
Necrosis				3							2	3														

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DAY ON TEST	0729	0657	0732	0566	0732	0732	0696	0613	0731	0731	0270	0565	0732	0732	0732	0732	0695	0730	0729	0729	0571	0731	0731	0731	0729	
HARLAN SPRAGUE DAWLEY RATS MALE																										
5000 ppm males ANIMAL ID	00101	00102	00103	00104	00105	00106	00107	00108	00109	00110	00111	00112	00113	00114	00115	00116	00117	00118	00119	00120	00121	00122	00123	00124	00125	**males (cont...)**
Bile Duct, Cyst							X								X											
Bile Duct, Dilation												2														
Bile Duct, Hyperplasia		1				1	1		1				1	1				1		1			1		1	
Hepatocyte, Cytoplasmic Alteration																										
Oval Cell, Hyperplasia		2																								
Mesentery					+			+																		
Polyarteritis Nodosa					3																					
Fat, Necrosis																										
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Cyst																										
Polyarteritis Nodosa					3																					
Acinus, Atrophy		2																								
Acinus, Hyperplasia						4						1				4				2					4	
Acinus, Inflammation, Chronic Active																										
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Inflammation, Suppurative																										
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Dysplasia																										
Inflammation, Acute	2																				1					
Inflammation, Chronic Active																	1									
Ulcer																										
Epithelium, Hyperplasia	2															1	1									
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Inflammation, Acute										1																
Mineral							2																			

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DAY ON TEST	0729	0657	0732	0566	0732	0732	0696	0613	0731	0731	0270	0565	0732	0732	0732	0732	0695	0730	0729	0729	0571	0731	0731	0731	0729	
HARLAN SPRAGUE DAWLEY RATS MALE																										
5000 ppm males ANIMAL ID	00101	00102	00103	00104	00105	00106	00107	00108	00109	00110	00111	00112	00113	00114	00115	00116	00117	00118	00119	00120	00121	00122	00123	00124	00125	**males (cont...)**
CARDIOVASCULAR SYSTEM																										
Blood Vessel	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Aneurysm					2																					
Inflammation, Chronic Active																										
Mineral							2								1									1		
Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Cardiomyopathy	2		1	2	1	1	4	1	1	3		1	2						1	3			1		1	
Mineral												1														
Polyarteritis Nodosa					3																					
ENDOCRINE SYSTEM																										
Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Atrophy				3																						
Degeneration, Cystic														1												
Hyperplasia, Focal				2				3		2						1	2							2		
Hypertrophy, Focal									1	2		2	1	2		1			1							
Necrosis																					2					
Thrombus																										
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hyperplasia, Focal	1						1			4		2	1						2			2		1	1	
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hyperplasia																						2			1	
Parathyroid Gland	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	

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HARLAN SPRAGUE DAWLEY RATS MALE 5000 ppm males	DAY ON TEST	0729	0657	0732	0566	0732	0732	0696	0613	0731	0731	0270	0565	0732	0732	0732	0732	0695	0730	0729	0729	0571	0731	0731	0731	0729	males (cont...)
	ANIMAL ID	001101	001102	001103	001104	001105	001106	001107	001108	001109	001110	001111	001112	001113	001114	001115	001116	001117	001118	001119	001120	001121	001122	001123	001124	001125	
Hyperplasia																					2						
Pituitary Gland		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Pars Distalis, Hyperplasia		1		1		1	2			3	3		1		2					1	2			1			
Thyroid Gland		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Polyarteritis Nodosa						3																					
C-cell, Hyperplasia			2													2							2				
GENERAL BODY SYSTEM																											
NONE																											
GENITAL SYSTEM																											
Epididymis		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Polyarteritis Nodosa						3																					
Preputial Gland		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Prostate		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Inflammation, Suppurative																		1									
Inflammation, Chronic Active			1																	1	2						
Polyarteritis Nodosa						3																					
Epithelium, Hyperplasia				1						2	1													2			
Seminal Vesicle		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Inflammation, Chronic Active			1																								
Testis		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Mineral																											

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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

DAY ON TEST	0729	0657	0732	0566	0732	0732	0696	0613	0731	0731	0270	0565	0732	0732	0732	0732	0695	0730	0729	0729	0571	0731	0731	0731	0729	
HARLAN SPRAGUE DAWLEY RATS MALE																										
5000 ppm males ANIMAL ID	001001	001002	001003	001004	001005	001006	001007	001008	001009	001010	001011	001012	001013	001014	001015	001016	001017	001018	001019	001020	001021	001022	001023	001024	001025	**males (cont...)**
Polyarteritis Nodosa	1						1			1			2													
Germinal Epithelium, Degeneration		3		3								1	1		1					1			1			
HEMATOPOIETIC SYSTEM																										
Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hemorrhage											1															
Hypercellularity		4		2	3		2				1	2	2									1				
Lymph Node																										
Mediastinal, Infiltration Cellular, Histiocyte																										
Mediastinal, Pigment																										
Pancreatic, Hemorrhage																										
Pancreatic, Infiltration Cellular, Histiocyte																										
Lymph Node, Mandibular	+	I	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hyperplasia, Lymphocyte																										
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Extramedullary Hematopoiesis	1	2	2	2	2	2		3	2	1		1	3	2	2	2	1	2	2	2		2	2	2	2	
Hemorrhage																										
Pigment	1		1	1		1	2	1	1	1	2	2	1	1	2	2	2	1	1	1	2	1	1	1	1	
White Pulp, Atrophy		4		4			2				3	3					1				4		1			
Thymus	+	M	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Atrophy	3		2		2	2		3	2	2	2	3	2	2	3	2	2	3	2	2	3	2	2	2	2	
INTEGUMENTARY SYSTEM																										

DAY ON TEST	0729	0657	0732	0566	0732	0732	0696	0613	0731	0731	0270	0565	0732	0732	0732	0732	0695	0730	0729	0729	0571	0731	0731	0731	0729	
HARLAN SPRAGUE DAWLEY RATS MALE																										
5000 ppm males ANIMAL ID	001001	001002	001003	001004	001005	001006	001007	001008	001009	001010	001011	001012	001013	001014	001015	001016	001017	001018	001019	001020	001021	001022	001023	001024	001025	**males (cont...)**
Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Cyst Epithelial Inclusion																			X							
Inflammation, Chronic Active																										
Ulcer																										
MUSCULOSKELETAL SYSTEM																										
Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Skeletal Muscle								+																		
Degeneration																										
NERVOUS SYSTEM																										
Brain	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hemorrhage																										
Infiltration Cellular, Histiocyte																										
Necrosis											4	4														
Nerve Trigeminal																										
Peripheral Nerve	+																									
Axon, Sciatic, Degeneration																										
Axon, Tibial, Degeneration																										
Ganglion, Vacuolation, Cytoplasmic																										
Trigeminal, Degeneration	1																									
Spinal Cord																										

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DAY ON TEST	0729	0657	0732	0566	0732	0732	0696	0613	0731	0731	0270	0565	0732	0732	0732	0732	0695	0730	0729	0729	0571	0731	0731	0731	0729	
HARLAN SPRAGUE DAWLEY RATS MALE																										
5000 ppm males ANIMAL ID	00101	00102	00103	00104	00105	00106	00107	00108	00109	00110	00111	00112	00113	00114	00115	00116	00117	00118	00119	00120	00121	00122	00123	00124	00125	**males (cont...)**
RESPIRATORY SYSTEM																										
Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Infiltration Cellular, Histiocyte				2	1	2		1	2	1	1	1	1	2		2		2	1		1	1		1	1	
Inflammation, Granulomatous, Focal		1				1		1										1	1			1			1	
Inflammation, Acute																										
Inflammation, Chronic Active																										
Alveolar Epithelium, Hyperplasia										2						2										
Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Foreign Body											X							X								
Fungus													X													
Inflammation, Suppurative											1		3													
Inflammation, Acute							1	1																		
Inflammation, Chronic Active					1																					
Epithelium, Accumulation, Hyaline Droplet	1	2	2		3	2		3	2	3	1	2	1	2	3	1	4	1	3	2		3	2	1	3	
Olfactory Epithelium, Metaplasia, Respiratory													1													
Respiratory Epithelium, Hyperplasia												1														
Respiratory Epithelium, Metaplasia, Squamous													1													
Squamous Epithelium, Metaplasia, Respiratory								1																		
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
SPECIAL SENSES SYSTEM																										
Eye	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Cornea, Inflammation, Acute			1																							
Lens, Cataract																							2			
Retina, Degeneration																										

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DAY ON TEST	729	657	732	566	732	732	696	613	731	731	270	565	732	732	732	732	695	730	729	729	571	731	731	731	729	
HARLAN SPRAGUE DAWLEY RATS MALE																										
5000 ppm males 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...)**
Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
URINARY SYSTEM																										
Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hemorrhage													4													
Infarct			1														1									
Nephropathy, Chronic Progressive	2	1	2	3	3	2	4	3	2	3	1	2	3	2	2	3	2	2	2	4	1	3	2	3	3	
Renal Tubule, Accumulation, Hyaline Droplet																										
Renal Tubule, Cyst																										
Renal Tubule, Hyperplasia																1										
Renal Tubule, Hyperplasia, Atypical																						1				
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	

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DAY ON TEST	072	073	073	067	071	061	069	073	073	073	073	072	072	073	067	073	073	071	072	072	073	072	072	072	072		
HARLAN SPRAGUE DAWLEY RATS MALE	9	0	0	2	3	5	9	0	0	2	2	9	9	1	4	2	2	4	9	1	1	9	1	9	9		
5000 ppm males ANIMAL ID	001 26	001 27	001 28	001 29	001 30	001 31	001 32	001 33	001 34	001 35	001 36	001 37	001 38	001 39	001 40	001 41	001 42	001 43	001 44	001 45	001 46	001 47	001 48	001 49	001 50	*** TOTALS**	

ALIMENTARY SYSTEM

Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Erosion																										**1**	**3.0**
Inflammation, Acute																										**1**	**1.0**
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Diverticulum																									X	**1**	
Parasite Metazoan																										**1**	
Lymphoid Tissue, Hyperplasia																										**1**	**3.0**
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Parasite Metazoan	X																				X				X	**6**	
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Intestine Small, Jejunum	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**49**	
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Basophilic Focus												X							X							**2**	
Clear Cell Focus	X	X						X	X	X	X	X	X	X		X	X		X		X	X		X	X	**33**	
Eosinophilic Focus																X										**3**	
Fatty Change																										**1**	**1.0**
Hepatodiaphragmatic Nodule																										**1**	
Mixed Cell Focus											X			X									X			**4**	
Necrosis					3																	1				**5**	**2.4**

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HARLAN SPRAGUE DAWLEY RATS MALE

5000 ppm males

DAY ON TEST	0729	0730	0730	0672	0713	0615	0699	0730	0730	0732	0732	0729	0729	0731	0674	0732	0732	0714	0729	0721	0731	0729	0721	0729	0729	
ANIMAL ID	00126	00127	00128	00129	00130	00131	00132	00133	00134	00135	00136	00137	00138	00139	00140	00141	00142	00143	00144	00145	00146	00147	00148	00149	00150	*** TOTALS**
Bile Duct, Cyst												X														**3**
Bile Duct, Dilation																										**1 2.0**
Bile Duct, Hyperplasia		1							1				1		1		1						1		1	**17 1.0**
Hepatocyte, Cytoplasmic Alteration															1											**1 1.0**
Oval Cell, Hyperplasia																										**1 2.0**
Mesentery											+															**3**
Polyarteritis Nodosa																										**1 3.0**
Fat, Necrosis											1															**1 1.0**
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Cyst																					X					**1**
Polyarteritis Nodosa																										**1 3.0**
Acinus, Atrophy								1													2					**3 1.7**
Acinus, Hyperplasia											3					4								4		**8 3.3**
Acinus, Inflammation, Chronic Active																4										**1 4.0**
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Inflammation, Suppurative		4																								**1 4.0**
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Dysplasia		3																								**1 3.0**
Inflammation, Acute																										**2 1.5**
Inflammation, Chronic Active																						2	2			**3 1.7**
Ulcer																							2			**1 2.0**
Epithelium, Hyperplasia																						4	2			**5 2.0**
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Inflammation, Acute																										**1 1.0**
Mineral	1			2																						**3 1.7**

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DAY ON TEST	072	073	073	067	071	061	069	073	073	073	073	072	072	073	067	073	073	071	072	072	073	072	072	072	072	
HARLAN SPRAGUE DAWLEY RATS MALE	9	0	0	2	3	5	9	0	4	5	2	9	9	1	4	2	2	4	9	1	1	9	1	9	9	
5000 ppm males	001	001	001	001	001	001	001	001	001	001	001	001	001	001	001	001	001	001	001	001	001	001	001	001	001	
ANIMAL ID	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	*** TOTALS**
CARDIOVASCULAR SYSTEM																										
Blood Vessel	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Aneurysm																										**1 2.0**
Inflammation, Chronic Active		1																						1		**2 1.0**
Mineral		1																					2			**5 1.4**
Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Cardiomyopathy		1		1	2		2		2	1			1	1		1			1				3		1	**27 1.6**
Mineral																							2			**2 1.5**
Polyarteritis Nodosa																										**1 3.0**
ENDOCRINE SYSTEM																										
Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Atrophy																										**1 3.0**
Degeneration, Cystic	1										1	1														**4 1.0**
Hyperplasia, Focal	1		2							1			1	1												**11 1.6**
Hypertrophy, Focal	1	1								1	1	1		1	1	1	1					1		1	1	**19 1.2**
Necrosis																										**1 2.0**
Thrombus																							X			**1**
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Hyperplasia, Focal	1		1		1						1	1		1					4				1	1	1	**19 1.5**
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Hyperplasia																	1									**3 1.3**
Parathyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	M	+	+	+	+	+	**46**

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2) Mild 4) Marked

DAY ON TEST	0729	0730	0730	0672	0713	0615	0699	0730	0730	0732	0732	0729	0729	0731	0674	0732	0732	0714	0729	0721	0731	0729	0721	0729	0729	
HARLAN SPRAGUE DAWLEY RATS MALE																										
5000 ppm males ANIMAL ID	00126	00127	00128	00129	00130	00131	00132	00133	00134	00135	00136	00137	00138	00139	00140	00141	00142	00143	00144	00145	00146	00147	00148	00149	00150	*** TOTALS**
Hyperplasia													2													**2 2.0**
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Pars Distalis, Hyperplasia		2		1	2			1	2			2		3			1				4	1		4		**22 1.9**
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Polyarteritis Nodosa																										**1 3.0**
C-cell, Hyperplasia			2							1																**5 1.8**
GENERAL BODY SYSTEM																										
NONE																										
GENITAL SYSTEM																										
Epididymis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Polyarteritis Nodosa																										**1 3.0**
Preputial Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Prostate	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Inflammation, Suppurative																										**1 1.0**
Inflammation, Chronic Active		1	1																							**5 1.2**
Polyarteritis Nodosa																										**1 3.0**
Epithelium, Hyperplasia																1										**5 1.4**
Seminal Vesicle	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Inflammation, Chronic Active																										**1 1.0**
Testis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Mineral		1			2																					**2 1.5**

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DAY ON TEST / HARLAN SPRAGUE DAWLEY RATS MALE / 5000 ppm males / ANIMAL ID	0729 0012 6	0730 0012 7	0730 0012 8	0672 0012 9	0713 0013 0	0615 0013 1	0699 0013 2	0730 0013 3	0730 0013 4	0732 0013 5	0732 0013 6	0729 0013 7	0729 0013 8	0731 0013 9	0674 0014 0	0732 0014 1	0732 0014 2	0714 0014 3	0729 0014 4	0721 0014 5	0731 0014 6	0729 0014 7	0721 0014 8	0729 0014 9	0729 0015 0	* TOTALS	
Polyarteritis Nodosa			1	2							1		2										1			**9**	**1.3**
Germinal Epithelium, Degeneration		3			4	4					1	2	1										1			**14**	**1.9**
HEMATOPOIETIC SYSTEM																											
Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Hemorrhage				3																						**2**	**2.0**
Hypercellularity		2			4		3							2	3	2				2						**15**	**2.3**
Lymph Node							+								+											**2**	
Mediastinal, Infiltration Cellular, Histiocyte															3											**1**	**3.0**
Mediastinal, Pigment															2											**1**	**2.0**
Pancreatic, Hemorrhage															3											**1**	**3.0**
Pancreatic, Infiltration Cellular, Histiocyte															2											**1**	**2.0**
Lymph Node, Mandibular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**49**	
Lymph Node, Mesenteric	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**49**	
Hyperplasia, Lymphocyte					3																					**1**	**3.0**
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Extramedullary Hematopoiesis	2	2	2		3				2	2	2	2	2	2	4	2	2		2	2	2	2		2	2	**41**	**2.0**
Hemorrhage															4											**1**	**4.0**
Pigment	1	1	1	1		1			2	1	1	1	1	1			1	1	1		1	1	1	2	2	**42**	**1.2**
White Pulp, Atrophy				4	2	3												2					2			**13**	**2.7**
Thymus	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**47**	
Atrophy	2	3	4	4	2	4	2		3	2	2	2	2	2	4	2	2	2	2		2	2	4	1	2	**45**	**2.4**
INTEGUMENTARY SYSTEM																											

DAY ON TEST	0729	0730	0730	0672	0713	0615	0699	0730	0730	0732	0732	0729	0729	0731	0674	0732	0732	0714	0729	0721	0731	0729	0721	0729	0729	
HARLAN SPRAGUE DAWLEY RATS MALE																										
5000 ppm males																										
ANIMAL ID	00126	00127	00128	00129	00130	00131	00132	00133	00134	00135	00136	00137	00138	00139	00140	00141	00142	00143	00144	00145	00146	00147	00148	00149	00150	*** TOTALS**
Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Cyst Epithelial Inclusion																										**1**
Inflammation, Chronic Active														4												**1 4.0**
Ulcer														3												**1 3.0**
MUSCULOSKELETAL SYSTEM																										
Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Skeletal Muscle																				+			+			**3**
Degeneration																							1			**1 1.0**
NERVOUS SYSTEM																										
Brain	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Hemorrhage							3																			**1 3.0**
Infiltration Cellular, Histiocyte																1										**1 1.0**
Necrosis																				1						**3 3.0**
Nerve Trigeminal																							+			**1**
Peripheral Nerve			+																	+			+			**4**
Axon, Sciatic, Degeneration																				1			2			**2 1.5**
Axon, Tibial, Degeneration																				1			2			**2 1.5**
Ganglion, Vacuolation, Cytoplasmic			1																							**1 1.0**
Trigeminal, Degeneration																										**1 1.0**
Spinal Cord																				+			+			**2**

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

DAY ON TEST	0729	0730	0730	0672	0713	0615	0699	0730	0730	0732	0732	0729	0729	0731	0674	0732	0732	0714	0729	0721	0731	0729	0721	0729	0729	
HARLAN SPRAGUE DAWLEY RATS MALE																										
5000 ppm males ANIMAL ID	00126	00127	00128	00129	00130	00131	00132	00133	00134	00135	00136	00137	00138	00139	00140	00141	00142	00143	00144	00145	00146	00147	00148	00149	00150	*** TOTALS**
RESPIRATORY SYSTEM																										
Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Infiltration Cellular, Histiocyte	1		1	1		2			2		1	1		2		2	1	1	1			1	2	1		**32 1.3**
Inflammation, Granulomatous, Focal																1		1	1					1		**11 1.0**
Inflammation, Acute												1														**1 1.0**
Inflammation, Chronic Active					1																					**1 1.0**
Alveolar Epithelium, Hyperplasia																1										**3 1.7**
Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Foreign Body																										**2**
Fungus																										**1**
Inflammation, Suppurative																										**2 2.0**
Inflammation, Acute			1																	1						**4 1.0**
Inflammation, Chronic Active																										**1 1.0**
Epithelium, Accumulation, Hyaline Droplet	2	1	1		2	2	2	1	1	3	2		2	3	2	1	2	2	1	1	1	3	3	2	2	**45 2.0**
Olfactory Epithelium, Metaplasia, Respiratory																										**1 1.0**
Respiratory Epithelium, Hyperplasia																										**1 1.0**
Respiratory Epithelium, Metaplasia, Squamous			1																							**2 1.0**
Squamous Epithelium, Metaplasia, Respiratory																										**1 1.0**
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
SPECIAL SENSES SYSTEM																										
Eye	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Cornea, Inflammation, Acute				1																			1			**3 1.0**
Lens, Cataract																										**1 2.0**
Retina, Degeneration			1																							**1 1.0**

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DAY ON TEST	0729	0730	0730	0672	0713	0615	0699	0730	0730	0732	0732	0729	0729	0731	0674	0732	0732	0714	0729	0721	0731	0729	0721	0729	0729	
HARLAN SPRAGUE DAWLEY RATS MALE																										
5000 ppm males																										
ANIMAL ID	00126	00127	00128	00129	00130	00131	00132	00133	00134	00135	00136	00137	00138	00139	00140	00141	00142	00143	00144	00145	00146	00147	00148	00149	00150	*** TOTALS**
Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
URINARY SYSTEM																										
Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Hemorrhage																										**1 4.0**
Infarct					1										1											**4 1.0**
Nephropathy, Chronic Progressive	2	2	3	4	3	2	3	3		2	3	2	4	2	2	1	1	3	3	3	1	1	4	3	3	**49 2.4**
Renal Tubule, Accumulation, Hyaline Droplet					2										2											**2 2.0**
Renal Tubule, Cyst																								X		**1**
Renal Tubule, Hyperplasia																									1	**2 1.0**
Renal Tubule, Hyperplasia, Atypical																										**1 1.0**
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**

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DAY ON TEST	0732	0732	0730	0730	0732	0732	0710	0731	0636	0732	0731	0731	0682	0171	0729	0246	0730	0730	0732	0732	0729	0725	0732	0691	0597	
HARLAN SPRAGUE DAWLEY RATS MALE																										
10000 ppm males 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...)**
ALIMENTARY SYSTEM																										
Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Intestine Large, Cecum	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Polyarteritis Nodosa											2															
Intestine Large, Colon	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Parasite Metazoan								X																		
Lymphoid Tissue, Hyperplasia																	2									
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Parasite Metazoan		X													X		X				X					
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Intestine Small, Ileum	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Basophilic Focus				X		X				X												X				
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								
Fatty Change																										
Hepatodiaphragmatic Nodule																X										
Inflammation, Focal																										
Mixed Cell Focus						X																				
Pigment																		1								

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DAY ON TEST	0732	0732	0730	0730	0732	0732	0710	0731	0636	0732	0731	0731	0682	0171	0729	0246	0730	0730	0732	0732	0729	0725	0732	0691	0597	
HARLAN SPRAGUE DAWLEY RATS MALE																										
10000 ppm males 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...)**
Bile Duct, Cyst			X		X	X					X															
Bile Duct, Hyperplasia	1			1	1	1	1								1		1				1			1		
Hepatocyte, Cytoplasmic Alteration																				3						
Hepatocyte, Pigment																				1						
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Acinus, Atrophy					1						1															
Acinus, Hyperplasia					3													2			4		3			
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Inflammation, Chronic Active																			3							
Ulcer																										
Epithelium, Hyperplasia																			2							
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Inflammation, Chronic Active																			1							
Mineral																										
CARDIOVASCULAR SYSTEM																										
Blood Vessel	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Inflammation, Chronic Active																			2				1			
Mineral																							1			
Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Cardiomyopathy	1				1		1		2	1	1	1	1				1	1		1		2	1	3		
Inflammation, Chronic Active																					1					
Polyarteritis Nodosa																										

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DAY ON TEST	073	073	073	073	073	073	071	073	063	073	073	073	068	011	072	024	073	073	073	072	072	073	069	059	
HARLAN SPRAGUE DAWLEY RATS MALE	2	2	0	0	2	2	0	1	6	2	1	1	2	1	9	6	0	0	2	9	5	2	1	7	
10000 ppm males ANIMAL ID	001	001	001	001	001	001	001	001	001	001	001	001	001	001	001	001	001	001	001	001	001	001	001	001	**males (cont...)**
	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	
Atrium, Thrombus																									
Valve, Fibrosis																									
ENDOCRINE SYSTEM																									
Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Degeneration, Cystic																			1					1	
Hyperplasia, Focal										1							1				1			1	
Hypertrophy, Focal		1	1	1				1							1									1	
Metaplasia, Osseous																									
Thrombus					X																				
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Hyperplasia, Focal				1	1	4						2					1		1		1	3			
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Hyperplasia																									
Parathyroid Gland	M	+	+	+	+	+	+	+	+	+	+	+	+	M	+	M	+	M	+	+	+	+	+	+	+
Hyperplasia			1	1																1			1		
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Pars Distalis, Hyperplasia	2			3	2	2		2			1		2					1	1		1		2		1
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
C-cell, Hyperplasia	1				3													2				1		2	
Follicle, Hyperplasia															2										
GENERAL BODY SYSTEM																									

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HARLAN SPRAGUE DAWLEY RATS MALE																										
10000 ppm males 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...)**
NONE																										
GENITAL SYSTEM																										
Epididymis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Polyarteritis Nodosa																										
Preputial Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Prostate	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Inflammation, Chronic Active										1							1			1	1	2				
Polyarteritis Nodosa																										
Seminal Vesicle	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Inflammation, Chronic Active																						2				
Polyarteritis Nodosa																										
Testis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Mineral																										
Polyarteritis Nodosa											2									2		1				
Germinal Epithelium, Degeneration						1			3						3				2	3						
Interstitial Cell, Hyperplasia																	2								2	
HEMATOPOIETIC SYSTEM																										
Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hemorrhage								2	2										1	2						
Hypercellularity						1							3	3							2					
Necrosis																4										

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HARLAN SPRAGUE DAWLEY RATS MALE																										
10000 ppm males 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...)**
Lymph Node																+										
Lymph Node, Mandibular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Atrophy									3																	
Hyperplasia, Plasma Cell																										
Inflammation, Suppurative																										
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Extramedullary Hematopoiesis	2	2	2	2	2	2		2		1	2	2	2		2	2	2	2		2	2	3	2	2	2	
Pigment	1	1	1	1	1		2	1	2	1	1	2			2		1	2	2	2	2		1	1	2	
White Pulp, Atrophy							3		4					3	1											
Thymus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Atrophy	3	2	1	2	2		2	2	4	1	2	2	2	4		2	2	2	3	4	2	3 1	4	3		
Polyarteritis Nodosa																										
INTEGUMENTARY SYSTEM																										
Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hyperplasia																										
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Cyst Epithelial Inclusion				X																						
MUSCULOSKELETAL SYSTEM																										
Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	

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DAY ON TEST	073 2	073 2	073 0	073 0	073 2	073 2	071 0	073 1	063 6	073 2	073 1	073 1	068 2	011 1	072 9	024 6	073 0	073 0	073 2	073 2	072 9	072 5	073 2	069 1	059 7	
HARLAN SPRAGUE DAWLEY RATS MALE																										
10000 ppm males 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	**males (cont...)**
Skeletal Muscle																						+				
NERVOUS SYSTEM																										
Brain	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Gliosis																										
Necrosis							3																			
Nerve Trigeminal																+										
Peripheral Nerve																+										
Spinal Cord																+										
RESPIRATORY SYSTEM																										
Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hemorrhage						2																				
Infiltration Cellular, Histiocyte	1	2		2			2	2	4		1	3	1	1	2	1	2			1	2	1	2	3	3	
Inflammation, Granulomatous, Focal	1	1	1	1				1					1				1	1				1		1		
Inflammation, Chronic Active																										
Alveolar Epithelium, Hyperplasia																							2			
Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Inflammation, Acute								1				1								1						
Epithelium, Accumulation, Hyaline Droplet	3	2	3	2	2	2	2	3		3	1	2	1		3	1	1	1	1		2			1	2	
Respiratory Epithelium, Hyperplasia																				1						
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	

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

DAY ON TEST / HARLAN SPRAGUE DAWLEY RATS MALE / 10000 ppm males / ANIMAL ID	0732 00151	0732 00152	0730 00153	0730 00154	0732 00155	0732 00156	0710 00157	0731 00158	0636 00159	0732 00160	0731 00161	0731 00162	0682 00163	0171 00164	0729 00165	0246 00166	0730 00167	0730 00168	0732 00169	0732 00170	0729 00171	0725 00172	0732 00173	0691 00174	0597 00175	males (cont...)
SPECIAL SENSES SYSTEM																										
Eye	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Retina, Degeneration																							1			
Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hyperplasia																					1					
URINARY SYSTEM																										
Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Infarct							1										1									
Nephropathy, Chronic Progressive	2	2	2	3	1	3	1	1	4	3	3	2	1		1	1	3	2	4	4	3	4	3	3	2	
Polyarteritis Nodosa																										
Pelvis, Dilation																						3				
Pelvis, Inflammation, Suppurative																						4				
Renal Tubule, Cyst																										
Ureter																						+				
Degeneration																						4				
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Inflammation, Chronic Active																						2				

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DAY ON TEST	0729	0614	0730	0731	0731	0485	0729	0729	0729	0713	0729	0730	0730	0556	0732	0729	0277	0729	0729	0729	0729	0731	0731	0729	0729	
HARLAN SPRAGUE DAWLEY RATS MALE																										
10000 ppm males ANIMAL ID	00176	00177	00178	00179	00180	00181	00182	00183	00184	00185	00186	00187	00188	00189	00190	00191	00192	00193	00194	00195	00196	00197	00198	00199	00200	*** TOTALS**
ALIMENTARY SYSTEM																										
Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**48**
Polyarteritis Nodosa																										**1 2.0**
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**48**
Parasite Metazoan					X																					**2**
Lymphoid Tissue, Hyperplasia																										**1 2.0**
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Parasite Metazoan																X		X							X	**7**
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**49**
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**48**
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**48**
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Basophilic Focus			X						X				X					X	X							**9**
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								X				X			X										X	**5**
Fatty Change		1																								**1 1.0**
Hepatodiaphragmatic Nodule															X											**2**
Inflammation, Focal												1														**1 1.0**
Mixed Cell Focus																										**1**
Pigment																										**1 1.0**

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HARLAN SPRAGUE DAWLEY RATS MALE 10000 ppm males	DAY ON TEST	0729	0614	0730	0731	0731	0485	0729	0729	0729	0713	0729	0730	0730	0556	0732	0729	0277	0729	0729	0729	0731	0731	0729	0729	* TOTALS	
	ANIMAL ID	00176	00177	00178	00179	00180	00181	00182	00183	00184	00185	00186	00187	00188	00189	00190	00191	00192	00193	00194	00195	00196	00197	00198	00199	00200	
Bile Duct, Cyst																X										X	6	
Bile Duct, Hyperplasia		1		1		1				1			1	1	1	1							1		1		19	1.0
Hepatocyte, Cytoplasmic Alteration																											1	3.0
Hepatocyte, Pigment													1														2	1.0
Pancreas		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Acinus, Atrophy						1																					3	1.0
Acinus, Hyperplasia				3				2		4			3			1				2		2					11	2.6
Salivary Glands		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Stomach, Forestomach		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Inflammation, Chronic Active			2																								2	2.5
Ulcer			2																								1	2.0
Epithelium, Hyperplasia			3																								2	2.5
Stomach, Glandular		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Inflammation, Chronic Active																											1	1.0
Mineral						2										1											2	1.5
CARDIOVASCULAR SYSTEM																												
Blood Vessel		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Inflammation, Chronic Active																											2	1.5
Mineral											1																2	1.0
Heart		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Cardiomyopathy			1	1	1		1			1	2			2	1						1	1	2			1	26	1.3
Inflammation, Chronic Active																											1	1.0
Polyarteritis Nodosa																2				3							2	2.5

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DAY ON TEST	0729	0614	0730	0731	0731	0485	0729	0729	0729	0713	0729	0730	0730	0556	0732	0729	0277	0729	0729	0729	0729	0731	0731	0729	0729		
HARLAN SPRAGUE DAWLEY RATS MALE																											
10000 ppm males 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**	
Atrium, Thrombus													X													**1**	
Valve, Fibrosis																					1					**1**	**1.0**
ENDOCRINE SYSTEM																											
Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Degeneration, Cystic								1	1													1				**5**	**1.0**
Hyperplasia, Focal	1																	2	1		2					**8**	**1.3**
Hypertrophy, Focal			1		1							1						1		1						**11**	**1.0**
Metaplasia, Osseous			2																							**1**	**2.0**
Thrombus																										**1**	
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Hyperplasia, Focal		1	2					1											1	1					1	**14**	**1.5**
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Hyperplasia						2							2		2											**3**	**2.0**
Parathyroid Gland	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	**44**	
Hyperplasia																			3							**5**	**1.4**
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Pars Distalis, Hyperplasia				2						4								3		3		2			2	**18**	**2.0**
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
C-cell, Hyperplasia				4		3												3	3							**9**	**2.4**
Follicle, Hyperplasia																										**1**	**2.0**
GENERAL BODY SYSTEM																											

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DAY ON TEST	0729	0614	0730	0731	0731	0485	0729	0729	0729	0713	0729	0730	0730	0556	0732	0729	0277	0729	0729	0729	0729	0731	0731	0729	0729	
HARLAN SPRAGUE DAWLEY RATS MALE																										
10000 ppm males ANIMAL ID	00176	00177	00178	00179	00180	00181	00182	00183	00184	00185	00186	00187	00188	00189	00190	00191	00192	00193	00194	00195	00196	00197	00198	00199	00200	*** TOTALS**
NONE																										
GENITAL SYSTEM																										
Epididymis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Polyarteritis Nodosa											1															**1 1.0**
Preputial Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Prostate	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Inflammation, Chronic Active			1			1						1														**8 1.1**
Polyarteritis Nodosa																1										**1 1.0**
Seminal Vesicle	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Inflammation, Chronic Active																										**1 2.0**
Polyarteritis Nodosa							1																			**1 1.0**
Testis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Mineral																									1	**1 1.0**
Polyarteritis Nodosa										1			2		2	1			3			1				**9 1.7**
Germinal Epithelium, Degeneration				3		1			1	4		1						1	1						2	**13 2.0**
Interstitial Cell, Hyperplasia																										**2 2.0**
HEMATOPOIETIC SYSTEM																										
Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Hemorrhage								1		4																**6 2.0**
Hypercellularity				1				2	1		1	2					1		2			2				**12 1.8**
Necrosis																										**1 4.0**

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DAY ON TEST	072	061	073	073	073	048	072	072	072	071	072	073	073	055	073	072	027	072	072	072	072	073	073	072	072	
HARLAN SPRAGUE DAWLEY RATS MALE	9	4	0	1	1	5	9	9	9	3	9	0	0	6	2	9	7	9	9	9	9	1	1	9	9	
10000 ppm males	001	001	001	001	001	001	001	001	001	001	001	001	001	001	001	001	001	001	001	001	001	001	001	001	001	
ANIMAL ID	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	00	*** TOTALS**
Lymph Node																										**1**
Lymph Node, Mandibular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Atrophy																										**1 3.0**
Hyperplasia, Plasma Cell												3														**1 3.0**
Inflammation, Suppurative												2														**1 2.0**
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**49**
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Extramedullary Hematopoiesis	2		2	2	2	2	2	2	2		2	2	2	1	2	2		2	2	2	2	2	2	2	2	**43 2.0**
Pigment	2	2	2	1	2	1	1	2	1	2	1	2	1	2	2	1	1		1	2	1	1	1	1	2	**44 1.5**
White Pulp, Atrophy						1		2		4				2			3									**9 2.6**
Thymus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Atrophy	2	2	2	4	2	2	2	3	3	3	1	3	2	2	2	2	2	1	3	2	2	2	2	2	2	**47 2.3**
Polyarteritis Nodosa																			3							**2 2.0**
INTEGUMENTARY SYSTEM																										
Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Hyperplasia			1						1				1													**3 1.0**
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Cyst Epithelial Inclusion																										**1**
MUSCULOSKELETAL SYSTEM																										
Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**

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DAY ON TEST / HARLAN SPRAGUE DAWLEY RATS MALE / 10000 ppm males / ANIMAL ID	0729 0014 0176	0729 0014 0177	0730 0014 0178	0731 0014 0179	0731 0014 0180	0485 0014 0181	0729 0014 0182	0729 0014 0183	0729 0014 0184	0713 0014 0185	0729 0014 0186	0730 0014 0187	0730 0014 0188	0556 0014 0189	0732 0014 0190	0729 0014 0191	0277 0014 0192	0729 0014 0193	0729 0014 0194	0729 0014 0195	0729 0014 0196	0731 0014 0197	0731 0014 0198	0729 0014 0199	0729 0020 0200	* TOTALS	
Skeletal Muscle																										**1**	
NERVOUS SYSTEM																											
Brain	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Gliosis											3															**1**	**3.0**
Necrosis																										**1**	**3.0**
Nerve Trigeminal																										**1**	
Peripheral Nerve																										**1**	
Spinal Cord																										**1**	
RESPIRATORY SYSTEM																											
Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Hemorrhage																										**1**	**2.0**
Infiltration Cellular, Histiocyte	2		2	2	2	1	1	2	2			2		1	2			1		1	2	2	1	1	2	**37**	**1.8**
Inflammation, Granulomatous, Focal	1		1					1	1			1			1	1				1				1		**19**	**1.0**
Inflammation, Chronic Active										1			4													**2**	**2.5**
Alveolar Epithelium, Hyperplasia																										**1**	**2.0**
Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Inflammation, Acute													1									1				**5**	**1.0**
Epithelium, Accumulation, Hyaline Droplet		1	2	3	1	2	2	3	4		3	3	1	2	3	4	2	2	1	3	1	4	4	2	2	**43**	**2.2**
Respiratory Epithelium, Hyperplasia																										**1**	**1.0**
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	

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DAY ON TEST	0729	0614	0730	0731	0731	0485	0729	0729	0729	0713	0729	0730	0730	0556	0732	0729	0277	0729	0729	0729	0729	0731	0731	0729	0729	
HARLAN SPRAGUE DAWLEY RATS MALE																										
10000 ppm males ANIMAL ID	00176	00177	00178	00179	00180	00181	00182	00183	00184	00185	00186	00187	00188	00189	00190	00191	00192	00193	00194	00195	00196	00197	00198	00199	00200	*** TOTALS**
SPECIAL SENSES SYSTEM																										
Eye	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Retina, Degeneration																										**1 1.0**
Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Hyperplasia																										**1 1.0**
URINARY SYSTEM																										
Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Infarct																										**2 1.0**
Nephropathy, Chronic Progressive	2	2	2	1	2	1	3	2	3	4	3	3	3		4	2	1	2	4	1	3	2	2	3	1	**48 2.4**
Polyarteritis Nodosa																			3							**1 3.0**
Pelvis, Dilation																										**1 3.0**
Pelvis, Inflammation, Suppurative																										**1 4.0**
Renal Tubule, Cyst																			X							**1**
Ureter																										**1**
Degeneration																										**1 4.0**
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Inflammation, Chronic Active																										**1 2.0**

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

DAY ON TEST	0597	0686	0501	0732	0732	0732	0732	0732	0729	0729	0731	0731	0731	0657	0729	0729	0732	0732	0730	0730	0648	0676	0639	0699	0647	
HARLAN SPRAGUE DAWLEY RATS MALE																										
20000 ppm males 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...)**
ALIMENTARY SYSTEM																										
Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Infiltration Cellular, Lymphocyte																										
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Parasite Metazoan																				X						
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Parasite Metazoan				X									X													
Polyarteritis Nodosa			3																							
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Polyarteritis Nodosa			3																							
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	
Angiectasis																		2								
Basophilic Focus	X					X											X	X						X		
Clear Cell Focus	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X		X				
Degeneration, Cystic					1																					
Eosinophilic Focus							X		X	X	X						X			X						
Hepatodiaphragmatic Nodule																										
Inclusion Body Intracytoplasmic										1																
Mixed Cell Focus						X				X		X					X	X		X						

* .. 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	0597	0686	0501	0732	0732	0732	0732	0732	0729	0729	0731	0731	0731	0657	0729	0729	0732	0732	0730	0730	0648	0676	0639	0699	0647	
HARLAN SPRAGUE DAWLEY RATS MALE																										
20000 ppm males 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...)**
Necrosis																						2				
Pigment					2				1	1					1		2	1		1	2	1	1			
Regeneration										2																
Thrombus										X																
Bile Duct, Cyst				X															X							
Bile Duct, Dilation																										
Bile Duct, Hyperplasia		1		1	1	1	1			1	1	1	1		1	1		1	1		1	1	1	1		
Hepatocyte, Cytoplasmic Alteration					1					4																
Mesentery																									+	
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Acinus, Cytoplasmic Alteration																										
Acinus, Hyperplasia	2				3			2			2		3			3	4					1				
Duct, Degeneration											2															
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Inflammation, Suppurative						4																				
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Inflammation, Chronic Active																					2		3			
Necrosis																					1					
Ulcer																							2			
Epithelium, Hyperplasia																					1		2			
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Inflammation, Chronic Active																							1			
Mineral				1		1																				

CARDIOVASCULAR SYSTEM

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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

DAY ON TEST / HARLAN SPRAGUE DAWLEY RATS MALE / 20000 ppm males / ANIMAL ID	0597 0020 01	0686 0020 02	0501 0020 03	0732 0020 04	0732 0020 05	0732 0020 06	0732 0020 07	0732 0020 08	0729 0020 09	0729 0021 0	0731 0021 1	0731 0021 2	0731 0021 3	0657 0021 4	0729 0021 5	0729 0021 6	0732 0021 7	0732 0021 8	0730 0021 9	0730 0022 0	0648 0022 1	0676 0022 2	0639 0022 3	0699 0022 4	0647 0022 5	males (cont...)
Blood Vessel	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Mineral						1		1																		
Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Cardiomyopathy		1	1	1	1		1		1			1	1						1	1		2	1	1		
Endocardium, Hyperplasia				2																						
Pericardium, Hyperplasia										3																
Valve, Fibrosis																								2		
Ventricle, Dilation								2																		
ENDOCRINE SYSTEM																										
Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Degeneration, Cystic																										
Hyperplasia, Focal									1						1				1							
Hypertrophy, Focal					1					1										1			1			
Necrosis																										
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hyperplasia, Focal						2		2					1													
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hyperplasia					1																					
Parathyroid Gland	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hyperplasia																										
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Pars Distalis, Hyperplasia	3				4	3	1	1															1			

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

HARLAN SPRAGUE DAWLEY RATS MALE 20000 ppm males	DAY ON TEST	0597	0686	0501	0732	0732	0732	0732	0732	0729	0729	0731	0731	0731	0657	0729	0729	0732	0732	0730	0730	0648	0676	0639	0699	0647	males (cont...)
	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	
Thyroid Gland		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
C-cell, Hyperplasia							1							2		4		4	3	1							
GENERAL BODY SYSTEM																											
NONE																											
GENITAL SYSTEM																											
Epididymis		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Polyarteritis Nodosa				3																							
Epithelium, Degeneration																											
Preputial Gland		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Inflammation, Suppurative																											
Prostate		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Inflammation, Suppurative																											
Inflammation, Chronic Active											1											1				2	
Polyarteritis Nodosa				3																							
Epithelium, Hyperplasia										1																	
Seminal Vesicle		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Testis		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Mineral																											
Polyarteritis Nodosa				3												2											
Germinal Epithelium, Degeneration															1		1		3						1		
Interstitial Cell, Hyperplasia					2																2						

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DAY ON TEST	0597	0686	0501	0732	0732	0732	0732	0732	0729	0729	0731	0731	0731	0657	0729	0729	0732	0732	0730	0730	0648	0676	0639	0699	0647	
HARLAN SPRAGUE DAWLEY RATS MALE																										
20000 ppm males 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...)**
HEMATOPOIETIC SYSTEM																										
Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hemorrhage																										
Hypercellularity	2					2		1		3			2	3											3	
Necrosis																										
Lymph Node										+															+	
Lymph Node, Mandibular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Extramedullary Hematopoiesis	2	2	2	2	2	2	2	2	2	2	2	2	3		1	2	2	2	2	2			2	2	2	
Hemorrhage	2													4												
Pigment	1	2	1	1	2	1	1	1	1		1	1	1		1	1	2	1	1	1	3	1	2	2		
White Pulp, Atrophy																					3				4	
Thymus	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Atrophy	2		2	3	3	2	2	2	2	2	2	2	3	3	2	2	2	2	1	2	3	2	3	2		
Hyperplasia, Lymphocyte																								1		
Polyarteritis Nodosa			3																							
INTEGUMENTARY SYSTEM																										
Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	
Hyperplasia												1														
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	

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

HARLAN SPRAGUE DAWLEY RATS MALE 20000 ppm males	DAY ON TEST	0597	0686	0501	0732	0732	0732	0732	0732	0729	0729	0731	0731	0731	0657	0729	0729	0732	0732	0730	0730	0648	0676	0639	0699	0647	
	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...)**
Cyst Epithelial Inclusion								X																			
Epithelium, Hyperplasia											2																
MUSCULOSKELETAL SYSTEM																											
Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Increased Bone															X												
Skeletal Muscle								+		+				+													
Hemorrhage														2													
Inflammation, Chronic Active								3																			
NERVOUS SYSTEM																											
Brain	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Gliosis		2																									
Hemorrhage														4													
Necrosis															2								3				
Nerve Trigeminal																											
Peripheral Nerve				+												+											
Ganglion, Infiltration Cellular, Histiocyte																1											
Ganglion, Vacuolation, Cytoplasmic				1																							
Spinal Cord																											
RESPIRATORY SYSTEM																											
Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Infiltration Cellular, Histiocyte	2	2	1	2	3	2	1		2	2			1	2	1	1	3	3	2	2	2	1	2	3	2		

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

DAY ON TEST	0597	0686	0501	0732	0732	0732	0732	0732	0729	0729	0731	0731	0731	0657	0729	0729	0732	0732	0730	0730	0648	0676	0639	0699	0647	
HARLAN SPRAGUE DAWLEY RATS MALE																										
20000 ppm males ANIMAL ID	0002001	0002002	0002003	0002004	0002005	0002006	0002007	0002008	0002009	0002010	0002011	0002012	0002013	0002014	0002015	0002016	0002017	0002018	0002019	0002020	0002021	0002022	0002023	0002024	0002025	**males (cont...)**
Inflammation, Granulomatous, Focal		1	1		1	1	1	1	1	1				1	1	1	1	1								
Alveolar Epithelium, Hyperplasia										3						2										
Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Foreign Body																										
Inflammation, Suppurative																					3					
Inflammation, Acute			1		1					1																
Inflammation, Chronic Active		2																								
Epithelium, Accumulation, Hyaline Droplet	1		1	2	2	3	3	2	1	2	2	2	2	3	3	1	2	4	1	1		2	2			
Olfactory Epithelium, Necrosis																						1				
Respiratory Epithelium, Hyperplasia	1									1																
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
SPECIAL SENSES SYSTEM																										
Eye	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Retina, Degeneration				1																						
Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Atrophy																										
Polyarteritis Nodosa			3																							
URINARY SYSTEM																										
Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Infarct																										
Nephropathy, Chronic Progressive	1	2	3	1	1	2	1	2	1	2	1	2	1	2	4	1	2	2	2	2	1	1	1	3	2	
Renal Tubule, Accumulation, Hyaline Droplet																										
Renal Tubule, Cyst															X											

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HARLAN SPRAGUE DAWLEY RATS MALE
20000 ppm males

DAY ON TEST	0597	0686	0501	0732	0732	0732	0732	0732	0729	0729	0731	0731	0731	0657	0729	0729	0732	0732	0730	0730	0648	0676	0639	0699	0647	**males (cont...)**
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	
Renal Tubule, Hyperplasia												1			1											
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Inflammation, Chronic Active																										

DAY ON TEST	072	072	069	073	068	071	066	071	073	073	073	070	073	041	072	073	073	069	063	073	073	072	057	072	072	
HARLAN SPRAGUE DAWLEY RATS MALE	9	9	4	1	2	0	9	0	0	0	0	0	0	4	9	2	2	0	5	1	1	9	4	9	9	
20000 ppm males ANIMAL ID	00226	00227	00228	00229	00230	00231	00232	00233	00234	00235	00236	00237	00238	00239	00240	00241	00242	00243	00244	00245	00246	00247	00248	00249	00250	*** TOTALS**
ALIMENTARY SYSTEM																										
Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Intestine Large, Cecum	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**49**
Infiltration Cellular, Lymphocyte								2																		**1 2.0**
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Parasite Metazoan																										**1**
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Parasite Metazoan																										**2**
Polyarteritis Nodosa																										**1 3.0**
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Polyarteritis Nodosa																										**1 3.0**
Intestine Small, Ileum	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**49**
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**49**
Angiectasis																										**1 2.0**
Basophilic Focus	X	X			X								X								X					**11**
Clear Cell Focus	X	X		X		X			X	X	X		X		X	X	X			X	X			X	X	**35**
Degeneration, Cystic																1										**2 1.0**
Eosinophilic Focus			X	X				X	X	X			X			X										**13**
Hepatodiaphragmatic Nodule					X																					**1**
Inclusion Body Intracytoplasmic																										**1 1.0**
Mixed Cell Focus									X												X					**8**

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

DAY ON TEST	0729	0729	0694	0731	0682	0710	0669	0710	0730	0730	0730	0700	0730	0414	0729	0732	0732	0690	0635	0731	0731	0729	0574	0729	0729	
HARLAN SPRAGUE DAWLEY RATS MALE																										
20000 ppm males ANIMAL ID	00226	00227	00228	00229	00230	00231	00232	00233	00234	00235	00236	00237	00238	00239	00240	00241	00242	00243	00244	00245	00246	00247	00248	00249	00250	*** TOTALS**
Necrosis																										**1 2.0**
Pigment	1				1			1						1	1	1			1	1	1	1	1	1		**22 1.1**
Regeneration																										**1 2.0**
Thrombus																										**1**
Bile Duct, Cyst								X			X					X			X							**6**
Bile Duct, Dilation									4																	**1 4.0**
Bile Duct, Hyperplasia	1	1		1	1	2	1			1	1		1			1				1	1					**29 1.0**
Hepatocyte, Cytoplasmic Alteration																										**2 2.5**
Mesentery																										**1**
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Acinus, Cytoplasmic Alteration		3																								**1 3.0**
Acinus, Hyperplasia	3					4										2	2									**12 2.6**
Duct, Degeneration																										**1 2.0**
Salivary Glands	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**49**
Inflammation, Suppurative																										**1 4.0**
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Inflammation, Chronic Active																										**2 2.5**
Necrosis																										**1 1.0**
Ulcer																										**1 2.0**
Epithelium, Hyperplasia																										**2 1.5**
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Inflammation, Chronic Active																										**1 1.0**
Mineral																1	1			1						**5 1.0**

CARDIOVASCULAR 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

DAY ON TEST	0729	0729	0694	0731	0682	0710	0669	0710	0730	0730	0730	0700	0730	0414	0729	0732	0732	0690	0635	0731	0731	0729	0574	0729	0729	
HARLAN SPRAGUE DAWLEY RATS MALE																										
20000 ppm males																										
ANIMAL ID	00226	00227	00228	00229	00230	00231	00232	00233	00234	00235	00236	00237	00238	00239	00240	00241	00242	00243	00244	00245	00246	00247	00248	00249	00250	*** TOTALS**
Blood Vessel	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Mineral																										**2 1.0**
Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Cardiomyopathy	1	1	2	1			1							1	1		1	1	1		1	1		1	1	**27 1.1**
Endocardium, Hyperplasia				1																						**2 1.5**
Pericardium, Hyperplasia																										**1 3.0**
Valve, Fibrosis																										**1 2.0**
Ventricle, Dilation																										**1 2.0**
ENDOCRINE SYSTEM																										
Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Degeneration, Cystic															1				1			1				**3 1.0**
Hyperplasia, Focal		1									2									1				1	2	**8 1.3**
Hypertrophy, Focal	1			1	1	1					2	1			1				1			1				**13 1.1**
Necrosis					1																					**1 1.0**
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Hyperplasia, Focal	2									1	1							2								**7 1.6**
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Hyperplasia									2																	**2 1.5**
Parathyroid Gland	+	+	+	+	M	+	+	+	+	+	M	+	+	+	+	+	M	M	+	+	+	+	+	+	+	**45**
Hyperplasia										1																**1 1.0**
Pituitary Gland	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**49**
Pars Distalis, Hyperplasia				1					1	2						1	4		2							**12 2.0**

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

DAY ON TEST	072	072	069	073	068	071	066	071	073	073	073	070	073	041	072	073	073	069	063	073	073	072	057	072	072	
HARLAN SPRAGUE DAWLEY RATS MALE	9	9	4	1	2	0	9	0	0	0	0	0	0	4	9	2	2	0	5	1	1	9	4	9	9	
20000 ppm males ANIMAL ID	00226	00227	00228	00229	00230	00231	00232	00233	00234	00235	00236	00237	00238	00239	00240	00241	00242	00243	00244	00245	00246	00247	00248	00249	00250	*** TOTALS**
Thyroid Gland	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**49**
C-cell, Hyperplasia	1					2				2	1									4				1		**12 2.2**
GENERAL BODY SYSTEM																										
NONE																										
GENITAL SYSTEM																										
Epididymis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Polyarteritis Nodosa																										**1 3.0**
Epithelium, Degeneration						2																				**1 2.0**
Preputial Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Inflammation, Suppurative																				4						**1 4.0**
Prostate	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Inflammation, Suppurative																			2							**1 2.0**
Inflammation, Chronic Active													1	1												**5 1.2**
Polyarteritis Nodosa																										**1 3.0**
Epithelium, Hyperplasia			1										1													**3 1.0**
Seminal Vesicle	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Testis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Mineral								2																		**1 2.0**
Polyarteritis Nodosa													1													**3 2.0**
Germinal Epithelium, Degeneration						2		3							2				3							**8 2.0**
Interstitial Cell, Hyperplasia																					1					**3 1.7**

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DAY ON TEST	072	072	069	073	068	071	066	071	073	073	073	070	073	041	072	073	073	069	063	073	073	072	057	072	072	
HARLAN SPRAGUE DAWLEY RATS MALE	9	9	4	1	2	0	9	0	0	0	0	0	0	4	9	2	2	0	5	1	1	9	4	9	9	
20000 ppm males ANIMAL ID	00226	00227	00228	00229	00230	00231	00232	00233	00234	00235	00236	00237	00238	00239	00240	00241	00242	00243	00244	00245	00246	00247	00248	00249	00250	*** TOTALS**
HEMATOPOIETIC SYSTEM																										
Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Hemorrhage																							3			**1 3.0**
Hypercellularity			3		3			4			2		1					3	2	2		1				**16 2.3**
Necrosis														3												**1 3.0**
Lymph Node						+																		+		**4**
Lymph Node, Mandibular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Spleen	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**49**
Extramedullary Hematopoiesis	2	2	3	2	3		1	3	2	2		2	2	3	2	2	2		2	2	2	1		3	2	**43 2.1**
Hemorrhage																										**2 3.0**
Pigment	1	1		1	1		2	2	2	1		2		1	1	1	1		1	1	1	1	2	2	1	**42 1.3**
White Pulp, Atrophy					1		3					2							2				4	1		**8 2.5**
Thymus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	**48**
Atrophy	2	2	2	2	3		3	3			1		1	2		3	3	2	3	2	1	2	4	2	1	**43 2.2**
Hyperplasia, Lymphocyte																										**1 1.0**
Polyarteritis Nodosa																										**1 3.0**
INTEGUMENTARY SYSTEM																										
Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**49**
Hyperplasia																										**1 1.0**
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**

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DAY ON TEST	072	072	069	073	068	071	066	071	073	073	073	070	073	041	072	073	073	069	063	073	073	072	057	072	072		
HARLAN SPRAGUE DAWLEY RATS MALE	9	9	4	1	2	0	9	0	0	0	0	0	0	4	9	2	2	0	5	1	1	9	4	9	9		
20000 ppm males ANIMAL ID	00226	00227	00228	00229	00230	00231	00232	00233	00234	00235	00236	00237	00238	00239	00240	00241	00242	00243	00244	00245	00246	00247	00248	00249	00250	*** TOTALS**	
Cyst Epithelial Inclusion																										**1**	
Epithelium, Hyperplasia																										**1**	**2.0**
MUSCULOSKELETAL SYSTEM																											
Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Increased Bone														X												**2**	
Skeletal Muscle																	+									**4**	
Hemorrhage																										**1**	**2.0**
Inflammation, Chronic Active																										**1**	**3.0**
NERVOUS SYSTEM																											
Brain	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Gliosis													1													**2**	**1.5**
Hemorrhage																		2								**2**	**3.0**
Necrosis							3																			**3**	**2.7**
Nerve Trigeminal														+												**1**	
Peripheral Nerve						+								+												**4**	
Ganglion, Infiltration Cellular, Histiocyte																										**1**	**1.0**
Ganglion, Vacuolation, Cytoplasmic																										**1**	**1.0**
Spinal Cord														+												**1**	
RESPIRATORY SYSTEM																											
Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Infiltration Cellular, Histiocyte		1	2	1	1	2		2	2			2		2	2	2	2		2	1	2	1		2	3	**40**	**1.9**

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2) Mild 4) Marked

DAY ON TEST / HARLAN SPRAGUE DAWLEY RATS MALE / 20000 ppm males / ANIMAL ID	072 29 / 002 26	072 29 / 002 27	069 4 / 002 28	073 1 / 002 29	068 2 / 002 30	071 0 / 002 31	066 9 / 002 32	071 0 / 002 33	073 0 / 002 34	073 0 / 002 35	073 0 / 002 36	070 0 / 002 37	073 0 / 002 38	041 4 / 002 39	072 9 / 002 40	073 2 / 002 41	073 2 / 002 42	069 0 / 002 43	063 5 / 002 44	073 1 / 002 45	073 1 / 002 46	072 9 / 002 47	057 4 / 002 48	072 9 / 002 49	072 9 / 002 50	* TOTALS	
Inflammation, Granulomatous, Focal	1			1	1			1	1	1	1			1			1		1						1	**24**	**1.0**
Alveolar Epithelium, Hyperplasia																										**2**	**2.5**
Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Foreign Body																			X							**1**	
Inflammation, Suppurative												2														**2**	**2.5**
Inflammation, Acute																										**3**	**1.0**
Inflammation, Chronic Active																										**1**	**2.0**
Epithelium, Accumulation, Hyaline Droplet	2	3		3	1	1	3	3	4	3	3	1	1	2	2	3	2	2	3	2	2	2	3	3	2	**45**	**2.2**
Olfactory Epithelium, Necrosis																										**1**	**1.0**
Respiratory Epithelium, Hyperplasia																	1									**3**	**1.0**
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
SPECIAL SENSES SYSTEM																											
Eye	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Retina, Degeneration																										**1**	**1.0**
Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Atrophy																						1				**1**	**1.0**
Polyarteritis Nodosa																										**1**	**3.0**
URINARY SYSTEM																											
Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Infarct												1														**1**	**1.0**
Nephropathy, Chronic Progressive	2	2	1	2	1		2	1	2	1	1	2	2		1	1	2	2	1	1	1	3	1	2	1	**48**	**1.6**
Renal Tubule, Accumulation, Hyaline Droplet						4																		3		**2**	**3.5**
Renal Tubule, Cyst																										**1**	

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HARLAN SPRAGUE DAWLEY RATS MALE

20000 ppm males

DAY ON TEST	072 9	072 9	069 4	073 1	068 2	071 0	066 9	071 0	073 0	073 0	073 0	070 0	073 0	041 4	072 9	073 2	073 2	069 0	063 5	073 1	073 1	072 9	057 4	072 9	072 9	
ANIMAL ID	0022 26	0022 27	0022 28	0022 29	0022 30	0022 31	0022 32	0022 33	0022 34	0022 35	0022 36	0022 37	0022 38	0022 39	0024 40	0024 41	0024 42	0024 43	0024 44	0024 45	0024 46	0024 47	0024 48	0024 49	0025 50	*** TOTALS**
Renal Tubule, Hyperplasia																										**2 1.0**
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Inflammation, Chronic Active																			2							**1 2.0**

*** END OF MALE DATA ***

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DAY ON TEST	0593	0568	0616	0736	0669	0577	0614	0732	0473	0661	0596	0329	0725	0551	0735	0735	0241	0732	0695	0732	0345	0736	0736	0596	0731	
HARLAN SPRAGUE DAWLEY RATS FEMALE **0 ppm females** 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...)**
ALIMENTARY SYSTEM																										
Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Intestine Large, Cecum	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Intestine Large, Colon	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Parasite Metazoan																										
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Parasite Metazoan								X														X			X	
Intestine Small, Duodenum	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Intestine Small, Ileum	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Intestine Small, Jejunum	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Angiectasis																										
Basophilic Focus	X		X																							
Clear Cell Focus				X				X					X			X				X			X		X	
Degeneration, Cystic				1																						
Eosinophilic Focus																							X			
Inflammation, Focal																										
Mixed Cell Focus																X										
Necrosis						1	2		2								3									
Bile Duct, Cyst																			X							
Bile Duct, Hyperplasia				1						1												1				
Hepatocyte, Cytoplasmic Alteration			1																							

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DAY ON TEST	0593	0568	0616	0736	0669	0577	0614	0732	0473	0661	0596	0329	0725	0551	0735	0735	0241	0732	0695	0732	0345	0736	0736	0596	0731	
HARLAN SPRAGUE DAWLEY RATS FEMALE																										
0 ppm females ANIMAL ID	0025 51	0025 52	0025 53	0025 54	0025 55	0025 56	0025 57	0025 58	0025 59	0026 60	0026 61	0026 62	0026 63	0026 64	0026 65	0026 66	0026 67	0026 68	0026 69	0027 70	0027 71	0027 72	0027 73	0027 74	0027 75	**females (cont...)**
Hepatocyte, Hypertrophy			2																							
Mesentery																								+		
Hemorrhage																								4		
Necrosis																										
Pancreas	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Acinus, Atrophy				3																						
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Inflammation, Chronic Active																										
Epithelium, Hyperplasia																										
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Mineral					2								2													
CARDIOVASCULAR SYSTEM																										
Blood Vessel	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Inflammation, Chronic Active	1																									
Mineral																										
Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Cardiomyopathy										1							1									
ENDOCRINE SYSTEM																										
Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Angiectasis																				2						

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DAY ON TEST	0593	0568	0616	0736	0669	0577	0614	0732	0473	0661	0596	0329	0725	0551	0735	0735	0241	0732	0695	0732	0345	0736	0736	0596	0731	
HARLAN SPRAGUE DAWLEY RATS FEMALE																										
0 ppm females 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...)**
Degeneration, Cystic										1																
Fibrosis																							2			
Hyperplasia, Focal																										
Hypertrophy, Focal											2								1							
Necrosis					1																					
Thrombus																				X						
Vacuolization Cytoplasmic																										
Bilateral, Hypertrophy, Focal								2		1								1								
Bilateral, Necrosis	4																									
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hyperplasia, Focal				1												1			1			1				
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hyperplasia											1									1						
Parathyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	M	M	+	+	+	+	+	+	+	+	+	+	
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Angiectasis																										
Pars Distalis, Hyperplasia	1		4					4			1		4									2				
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
C-cell, Hyperplasia										1												1				

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

HARLAN SPRAGUE DAWLEY RATS FEMALE

0 ppm females

DAY ON TEST	0593	0568	0616	0736	0669	0577	0614	0732	0473	0661	0596	0329	0725	0551	0735	0735	0241	0732	0695	0732	0345	0736	0736	0596	0731	
ANIMAL ID	002511	002522	002533	002544	002555	002566	002577	002588	002599	002600	002611	002622	002633	002644	002655	002666	002677	002688	002699	002700	002711	002722	002733	002744	002755	**females (cont...)**
Clitoral Gland	+	M	M	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Inflammation, Chronic Active																										
Ovary	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Atrophy	3	3	2	3	2	2				2	2	2	3	2	3			2	2		3	2		3	2	
Fibrosis	3																									
Pigment																										
Bursa, Cyst																										
Follicle, Cyst	X			X				X		X	X		X							X						
Granulosa Cell, Hyperplasia																						2				
Paraovarian Tissue, Cyst			X																							
Oviduct																										
Inflammation, Chronic Active																										
Uterus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Angiectasis																										
Dilation														4												
Hyperplasia, Atypical												2										1				
Inflammation, Suppurative				2										4											3	
Squamous Metaplasia	1	1		3	2	1						1						1	2			1			3	
Cervix, Hyperplasia, Atypical																										
Endometrium, Hyperplasia, Cystic			1							1		1	1		1			2	1			3			2	
Myometrium, Cyst																										
Vagina	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Inflammation, Suppurative	2				2																					

HEMATOPOIETIC 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

DAY ON TEST	0593	0568	0616	0736	0669	0577	0614	0732	0473	0661	0596	0329	0725	0551	0735	0735	0241	0732	0695	0732	0345	0736	0736	0596	0731	
HARLAN SPRAGUE DAWLEY RATS FEMALE																										
0 ppm females 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...)**
Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hypercellularity	3	4	4	1	4	4	3		3		4	3	4	4		2	3	2	2		4	3				
Lymph Node	+		+				+																	+		
Axillary, Hyperplasia, Plasma Cell																										
Lumbar, Hyperplasia, Plasma Cell			2				2																			
Lumbar, Infiltration Cellular, Histiocyte	2																									
Lumbar, Pigment	3																									
Lymph Node, Mandibular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Atrophy						3																				
Lymph Node, Mesenteric	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Spleen	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Extramedullary Hematopoiesis	4		3	2		3	3	2	3	1	3	2	3	3	3	2	2	2	1	2	3	2	2		2	
Hemorrhage					2																					
Pigment				1				1	1	2	1	1		1	2	1	1	1	2	2	1	1	2		2	
White Pulp, Atrophy						2			2			2		3			1									
Thymus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Atrophy	2	2	4		4	2	2	3	3	2	3	1		2	2	2	1	1		3	2	1	2		2	
Hyperplasia, Epithelial																				3						
INTEGUMENTARY SYSTEM																										
Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Galactocele		3																								
Hyperplasia								4								2				2			3			

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2) Mild 4) Marked

DAY ON TEST	0593	0568	0616	0736	0669	0577	0614	0732	0473	0661	0596	0329	0725	0551	0735	0735	0241	0732	0695	0732	0345	0736	0736	0596	0731	
HARLAN SPRAGUE DAWLEY RATS FEMALE																										
0 ppm females 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...)**
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
MUSCULOSKELETAL SYSTEM																										
Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Skeletal Muscle																										
NERVOUS SYSTEM																										
Brain	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hemorrhage					2																					
Necrosis																	4									
RESPIRATORY SYSTEM																										
Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Cyst, Squamous															X											
Infiltration Cellular, Histiocyte	3	3	1	4	2	3	2	1	1	2	1	1	1	2	2	2		3	2	1		3	2	1	1	
Inflammation, Granulomatous, Focal			1	1																1						
Nose	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Inflammation, Acute		1																								
Epithelium, Accumulation, Hyaline Droplet	3	2	2		3	1	4	2	3	4	3	3	4	2		3	2	3	4	4	4	3	3	4	3	
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
SPECIAL SENSES SYSTEM																										
Eye	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	

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DAY ON TEST	0593	0568	0616	0736	0669	0577	0614	0732	0473	0661	0596	0329	0725	0551	0735	0735	0241	0732	0695	0732	0345	0736	0736	0596	0731	
HARLAN SPRAGUE DAWLEY RATS FEMALE																										
0 ppm females 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...)**
Retina, Degeneration																										
Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
URINARY SYSTEM																										
Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Developmental Malformation								X																		
Ectopic Tissue, Adrenal Cortex								X																		
Infarct								1	1																	
Inflammation, Suppurative				2				2																		
Nephropathy, Chronic Progressive	1	1	1	2	1	1	1	1		1	1	1	1			1	1	1	1	1	1	1	1	1	1	
Renal Tubule, Accumulation, Hyaline Droplet	2																									
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	

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DAY ON TEST	07 31	07 31	07 31	06 73	07 32	05 75	06 30	07 32	07 32	07 09	03 68	07 32	07 32	05 26	06 03	07 36	07 36	05 64	02 89	07 35	05 03	07 35	04 53	07 32	06 34	
HARLAN SPRAGUE DAWLEY RATS FEMALE																										
0 ppm females																										
ANIMAL ID	00 27 6	00 27 7	00 27 8	00 27 9	00 28 0	00 28 1	00 28 2	00 28 3	00 28 4	00 28 5	00 28 6	00 28 7	00 28 8	00 28 9	00 29 0	00 29 1	00 29 2	00 29 3	00 29 4	00 29 5	00 29 6	00 29 7	00 29 8	00 29 9	00 30 0	*** TOTALS**	
ALIMENTARY SYSTEM																											
Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**49**	
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**49**	
Parasite Metazoan																	X			X						**2**	
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Parasite Metazoan			X																							**4**	
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**49**	
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**49**	
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**49**	
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Angiectasis								1																		**1**	**1.0**
Basophilic Focus						X				X										X						**5**	
Clear Cell Focus			X									X	X			X										**11**	
Degeneration, Cystic																										**1**	**1.0**
Eosinophilic Focus								X		X						X				X						**5**	
Inflammation, Focal								1																		**1**	**1.0**
Mixed Cell Focus										X																**2**	
Necrosis															2						2					**6**	**2.0**
Bile Duct, Cyst																										**1**	
Bile Duct, Hyperplasia	1			1									1							1						**7**	**1.0**
Hepatocyte, Cytoplasmic Alteration										1																**2**	**1.0**

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DAY ON TEST	0731	0731	0731	0673	0732	0575	0630	0732	0732	0709	0368	0732	0732	0526	0603	0736	0736	0564	0289	0735	0503	0735	0453	0732	0634	
HARLAN SPRAGUE DAWLEY RATS FEMALE																										
0 ppm females 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**
Hepatocyte, Hypertrophy																										**1 2.0**
Mesentery						+				+																**3**
Hemorrhage																										**1 4.0**
Necrosis										1																**1 1.0**
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**49**
Acinus, Atrophy																									1	**2 2.0**
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Inflammation, Chronic Active						1																				**1 1.0**
Epithelium, Hyperplasia						1																				**1 1.0**
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Mineral																										**2 2.0**
CARDIOVASCULAR SYSTEM																										
Blood Vessel	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Inflammation, Chronic Active																										**1 1.0**
Mineral												1														**1 1.0**
Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Cardiomyopathy			1	1				2				1					1									**7 1.1**
ENDOCRINE SYSTEM																										
Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Angiectasis				2						2							3								1	**5 2.0**

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DAY ON TEST / HARLAN SPRAGUE DAWLEY RATS FEMALE / 0 ppm females / ANIMAL ID	0731 0027 6	0731 0027 7	0731 0027 8	0673 0027 9	0732 0028 0	0575 0028 1	0630 0028 2	0732 0028 3	0732 0028 4	0709 0028 5	0368 0028 6	0732 0028 7	0732 0028 8	0526 0028 9	0603 0029 0	0736 0029 1	0736 0029 2	0564 0029 3	0289 0029 4	0735 0029 5	0503 0029 6	0735 0029 7	0453 0029 8	0732 0029 9	0634 0030 0	* TOTALS	
Degeneration, Cystic			1	1											1	1	1							1	1	**8**	**1.0**
Fibrosis																										**1**	**2.0**
Hyperplasia, Focal							1						1													**2**	**1.0**
Hypertrophy, Focal										1		1					1									**5**	**1.2**
Necrosis																										**1**	**1.0**
Thrombus																										**1**	
Vacuolization Cytoplasmic				1																						**1**	**1.0**
Bilateral, Hypertrophy, Focal																										**3**	**1.3**
Bilateral, Necrosis																										**1**	**4.0**
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Hyperplasia, Focal		2	1						1				2												3	**9**	**1.4**
Islets, Pancreatic	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**49**	
Hyperplasia	2																									**3**	**1.3**
Parathyroid Gland	+	M	+	+	M	+	+	+	M	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	**44**	
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Angiectasis										2																**1**	**2.0**
Pars Distalis, Hyperplasia			2	2	1	1	1				2	1	1		1					2		3				**17**	**1.9**
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
C-cell, Hyperplasia		2				2							2				1			3				3	1	**9**	**1.8**

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

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HARLAN SPRAGUE DAWLEY RATS FEMALE

0 ppm females

DAY ON TEST	07311	07311	07311	06733	07320	05755	06300	07320	07320	07099	03688	07320	07320	05266	06003	07366	07366	05564	02889	07355	05003	07355	04533	07320	06344	
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
Clitoral Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	**46**
Inflammation, Chronic Active																	1									**1** **1.0**
Ovary	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Atrophy	2			3			4		2	3	3			2		3	2	2		3		2	2	2		**32** **2.4**
Fibrosis																										**1** **3.0**
Pigment																		3								**1** **3.0**
Bursa, Cyst				X																						**1**
Follicle, Cyst										X					X			X			X			X		**12**
Granulosa Cell, Hyperplasia																				4						**2** **3.0**
Paraovarian Tissue, Cyst					X	X																				**3**
Oviduct																	+									**1**
Inflammation, Chronic Active																	3									**1** **3.0**
Uterus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Angiectasis																					1					**1** **1.0**
Dilation								2									3				4					**4** **3.3**
Hyperplasia, Atypical	3						2									1										**5** **1.8**
Inflammation, Suppurative																	4				4					**5** **3.4**
Squamous Metaplasia		2		1		1	1		1	1				1		1	4	1				1	1	2		**23** **1.5**
Cervix, Hyperplasia, Atypical																								2		**1** **2.0**
Endometrium, Hyperplasia, Cystic	4	2		1			3			3						1				1		2		3		**18** **1.8**
Myometrium, Cyst																		X								**1**
Vagina	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Inflammation, Suppurative																										**2** **2.0**

HEMATOPOIETIC SYSTEM

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HARLAN SPRAGUE DAWLEY RATS FEMALE

0 ppm females

DAY ON TEST	07 31	07 31	07 31	06 73	07 32	05 75	06 30	07 32	07 32	07 09	03 68	07 32	07 32	05 26	06 03	07 36	07 36	05 64	02 89	07 35	05 03	07 35	04 53	07 32	06 34	
ANIMAL ID	00 27 6	00 27 7	00 27 8	00 27 9	00 28 0	00 28 1	00 28 2	00 28 3	00 28 4	00 28 5	00 28 6	00 28 7	00 28 8	00 28 9	00 29 0	00 29 1	00 29 2	00 29 3	00 29 4	00 29 5	00 29 6	00 29 7	00 29 8	00 29 9	00 30 0	* TOTALS	
Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Hypercellularity	3	2		4	4	4	4	3		4	4			4	4	2	3	3	4	2		1	2		4	**37**	**3.2**
Lymph Node						+	+												+						+	**8**	
Axillary, Hyperplasia, Plasma Cell							2												4						2	**3**	**2.7**
Lumbar, Hyperplasia, Plasma Cell																									2	**3**	**2.0**
Lumbar, Infiltration Cellular, Histiocyte																										**1**	**2.0**
Lumbar, Pigment																										**1**	**3.0**
Lymph Node, Mandibular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Atrophy																										**1**	**3.0**
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49	
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49	
Extramedullary Hematopoiesis	2	2	2	3	3		3	3	2	2	3	2	2	2	3	2	2	4	3	2	3	2	3	2	3	**46**	**2.5**
Hemorrhage																										**1**	**2.0**
Pigment	1	1	2		1		1	1	1			1	2	1	1	2	1	1		1		1	1	2		**35**	**1.3**
White Pulp, Atrophy						3					3			4									2			**9**	**2.4**
Thymus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Atrophy	1	2	2	2	2	4	2	2	1	1	2	2	3	3	3	2	3	1	2	2	3	2	1		3	**45**	**2.2**
Hyperplasia, Epithelial																										**1**	**3.0**
INTEGUMENTARY SYSTEM																											
Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Galactocele				3																						**2**	**3.0**
Hyperplasia			2		3			2	4			1	2		2		1							2	2	**14**	**2.3**

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

DAY ON TEST / HARLAN SPRAGUE DAWLEY RATS FEMALE / 0 ppm females / ANIMAL ID	0731 00276	0731 00277	0731 00278	0673 00279	0732 00280	0575 00281	0630 00282	0732 00283	0732 00284	0709 00285	0368 00286	0732 00287	0732 00288	0526 00289	0603 00290	0736 00291	0736 00292	0564 00293	0289 00294	0735 00295	0503 00296	0735 00297	0453 00298	0732 00299	0634 00300	* TOTALS	
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
MUSCULOSKELETAL SYSTEM																											
Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Skeletal Muscle						+																				**1**	
NERVOUS SYSTEM																											
Brain	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Hemorrhage																										**1**	**2.0**
Necrosis																										**1**	**4.0**
RESPIRATORY SYSTEM																											
Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Cyst, Squamous																										**1**	
Infiltration Cellular, Histiocyte	2	2	2	2	3	1	2	2	1	3	2	2	2	2	2	3	2	2		2	2	1		2	2	**46**	**2.0**
Inflammation, Granulomatous, Focal	1				1				1			1														**7**	**1.0**
Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**49**	
Inflammation, Acute																			1							**2**	**1.0**
Epithelium, Accumulation, Hyaline Droplet	3	3	3	2	4	3	3	3	4	4	2	3	3	1	2	3	4	3	1	1	1	1	3	3	4	**48**	**2.8**
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
SPECIAL SENSES SYSTEM																											
Eye	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	

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

DAY ON TEST / HARLAN SPRAGUE DAWLEY RATS FEMALE / 0 ppm females / ANIMAL ID	0731 0027 6	0731 0027 7	0731 0027 8	0673 0027 9	0732 0028 0	0575 0028 1	0630 0028 2	0732 0028 3	0732 0028 4	0709 0028 5	0368 0028 6	0732 0028 7	0732 0028 8	0526 0028 9	0603 0029 0	0736 0029 1	0736 0029 2	0564 0029 3	0289 0029 4	0735 0029 5	0503 0029 6	0735 0029 7	0453 0029 8	0732 0029 9	0634 0030 0	* TOTALS	
Retina, Degeneration																1	2							2		**3**	**1.7**
Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
URINARY SYSTEM																											
Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Developmental Malformation																										**1**	
Ectopic Tissue, Adrenal Cortex																										**1**	
Infarct												1														**3**	**1.0**
Inflammation, Suppurative				1																						**3**	**1.7**
Nephropathy, Chronic Progressive		1	2	2	1	1		1	1	1	1	2			1	2	1	1		1	1	1		2	1	**41**	**1.1**
Renal Tubule, Accumulation, Hyaline Droplet																										**1**	**2.0**
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	

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DAY ON TEST	073 5	073 5	073 5	073 5	064 2	059 6	073 1	073 1	073 2	058 4	073 2	067 3	073 5	070 9	056 8	073 5	054 6	073 5	049 4	073 5	073 2	067 0	063 8	061 1	073 0	
HARLAN SPRAGUE DAWLEY RATS FEMALE **2500 ppm females** ANIMAL ID	0030 01	0030 02	0030 03	0030 04	0030 05	0030 06	0030 07	0030 08	0030 09	0031 0	0031 1	0031 2	0031 3	0031 4	0031 5	0031 6	0031 7	0031 8	0031 9	0032 0	0032 1	0032 2	0032 3	0032 4	0032 5	**females (cont...)**
ALIMENTARY SYSTEM																										
Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Parasite Metazoan																						X				
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Parasite Metazoan							X									X								X		
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Basophilic Focus														X		X						X			X	
Clear Cell Focus	X						X									X		X		X						
Eosinophilic Focus																							X			
Extramedullary Hematopoiesis																	1									
Hepatodiaphragmatic Nodule															X											
Necrosis																						1				
Bile Duct, Cyst											X											X				
Bile Duct, Dilation																										
Bile Duct, Hyperplasia	1			1			1	1			2					1		1		1	1					
Hepatocyte, Hypertrophy																										

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DAY ON TEST	073 5	073 5	073 5	073 5	064 2	059 6	073 1	073 1	073 2	058 4	073 2	067 3	073 5	070 9	056 8	073 5	054 6	073 5	049 4	073 5	073 2	067 0	063 8	061 1	073 0	
HARLAN SPRAGUE DAWLEY RATS FEMALE **2500 ppm females** ANIMAL ID	00301	00302	00303	00304	00305	00306	00307	00308	00309	00310	00311	00312	00313	00314	00315	00316	00317	00318	00319	00320	00321	00322	00323	00324	00325	**females (cont...)**
Mesentery					+																				+	
Inflammation, Chronic Active																										
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Acinus, Atrophy	1	1							1																2	
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Inflammation, Chronic Active																									2	
Ulcer																									2	
Epithelium, Hyperplasia																									2	
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Mineral																										
CARDIOVASCULAR SYSTEM																										
Blood Vessel	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Cardiomyopathy	1	1								1				1					1	1						
ENDOCRINE SYSTEM																										
Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Angiectasis				2										2								3				
Degeneration, Cystic				1							1								1							
Hyperplasia, Focal							1													1					2	
Hypertrophy, Focal				2																1						

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DAY ON TEST	073	073	073	073	064	059	073	073	073	058	073	067	073	070	056	073	054	073	049	073	073	067	063	066	073	
HARLAN SPRAGUE DAWLEY RATS FEMALE **2500 ppm females** ANIMAL ID	0030 1	0030 2	0030 3	0030 4	0030 5	0030 6	0030 7	0030 8	0030 9	0031 0	0031 1	0031 2	0031 3	0031 4	0031 5	0031 6	0031 7	0031 8	0031 9	0032 0	0032 1	0032 2	0032 3	0032 4	0032 5	**females (cont...)**
Thrombus																										
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hyperplasia, Focal		1																						1	2	
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hyperplasia																						2			1	
Metaplasia, Hepatocyte														2												
Parathyroid Gland	M	+	M	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hyperplasia																										
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Pars Distalis, Hyperplasia	4	1		4			1	2		2	3		2												2	
Pars Intermedia, Hyperplasia																										
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
C-cell, Hyperplasia		2	4					4			2			2				3						1		
GENERAL BODY SYSTEM																										
Peritoneum																										
Inflammation, Chronic Active																										
GENITAL SYSTEM																										
Clitoral Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	
Hyperplasia, Squamous									3																	
Ovary	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Atrophy	3	2	2	2	3	3	2			2	2		2		2	2		3		3	2		2	3	3	

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HARLAN SPRAGUE DAWLEY RATS FEMALE																										
2500 ppm females ANIMAL ID	0 0 3 0 1	0 0 3 0 2	0 0 3 0 3	0 0 3 0 4	0 0 3 0 5	0 0 3 0 6	0 0 3 0 7	0 0 3 0 8	0 0 3 0 9	0 0 3 1 0	0 0 3 1 1	0 0 3 1 2	0 0 3 1 3	0 0 3 1 4	0 0 3 1 5	0 0 3 1 6	0 0 3 1 7	0 0 3 1 8	0 0 3 1 9	0 0 3 2 0	0 0 3 2 1	0 0 3 2 2	0 0 3 2 3	0 0 3 2 4	0 0 3 2 5	**females (cont...)**
Inflammation, Chronic																										
Bursa, Cyst																										
Follicle, Cyst	X							X														X			X	
Germinal Epithelium, Cyst							X												X							
Paraovarian Tissue, Cyst																						X				
Uterus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Adenomyosis																										
Angiectasis																										
Dilation																										
Hemorrhage																										
Hyperplasia, Atypical								2			1					1				3						
Inflammation, Suppurative	1							2												1						
Squamous Metaplasia	1	3	1	2			1	2		3	1		1			2		1		1	2		1			
Thrombus			X								X															
Ulcer																										
Endometrium, Hyperplasia, Cystic	2	1	3	3			2	2		3	3					3				1			1	1		
Vagina	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hypertrophy, Stromal									4																	
HEMATOPOIETIC SYSTEM																										
Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hypercellularity		3	4	2	3	4	2			2	3	4		4	2		4				3	3	3		4	
Hypocellularity																										
Lymph Node					+	+					+														+	
Lumbar, Hemorrhage											2															
Lumbar, Hyperplasia, Plasma Cell						3																				

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DAY ON TEST / HARLAN SPRAGUE DAWLEY RATS FEMALE / 2500 ppm females / ANIMAL ID	0735 0001	0735 0002	0735 0003	0735 0004	0642 0005	0596 0006	0731 0007	0731 0008	0732 0009	0584 0010	0732 0011	0673 0012	0735 0013	0709 0014	0568 0015	0735 0016	0546 0017	0735 0018	0494 0019	0735 0020	0732 0021	0670 0022	0638 0023	0661 0024	0730 0025	females (cont...)
Lymph Node, Mandibular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Atrophy														3												
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Extramedullary Hematopoiesis	2	2	3	2	2	4	1	1	2		2	3	2	3		2	3	2		2	2	3	2		1	
Pigment	1	2		1	2			1	2	3	1	1	2		1	1		2	3	2	1	1	1	2	1	
White Pulp, Atrophy										3		3			4		2		3						3	
Thymus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	
Atrophy	2	2	2	2	4	2		4	3	3	3	4	2	4	3	2	3	2	3	2	2	2		1	4	
INTEGUMENTARY SYSTEM																										
Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Galactocele																										
Hyperplasia									1			1				1			1			1				
Hyperplasia, Adenomatous																										
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
MUSCULOSKELETAL SYSTEM																										
Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Skeletal Muscle					+																					
NERVOUS SYSTEM																										

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DAY ON TEST	073 5	073 5	073 5	073 5	064 2	059 6	073 1	073 1	073 2	058 4	073 2	067 3	073 5	070 9	056 8	073 5	054 6	073 5	049 4	073 5	073 2	067 0	063 8	061 1	073 0	
HARLAN SPRAGUE DAWLEY RATS FEMALE																										
2500 ppm females ANIMAL ID	0 0 3 0 1	0 0 3 0 2	0 0 3 0 3	0 0 3 0 4	0 0 3 0 5	0 0 3 0 6	0 0 3 0 7	0 0 3 0 8	0 0 3 0 9	0 0 3 1 0	0 0 3 1 1	0 0 3 1 2	0 0 3 1 3	0 0 3 1 4	0 0 3 1 5	0 0 3 1 6	0 0 3 1 7	0 0 3 1 8	0 0 3 1 9	0 0 3 2 0	0 0 3 2 1	0 0 3 2 2	0 0 3 2 3	0 0 3 2 4	0 0 3 2 5	**females (cont...)**
Brain	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hemorrhage																										
Necrosis										3									3							
RESPIRATORY SYSTEM																										
Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Infiltration Cellular, Histiocyte	2	3	3	4	2	3	4	2	4	3	2	2	2	2	2	1	3	2	3	2	3	2	4	3	2	
Inflammation, Granulomatous, Focal				1																			1			
Inflammation, Acute					1																					
Alveolus, Epithelium, Hyperplasia																										
Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Inflammation, Suppurative					4																					
Inflammation, Acute																										
Inflammation, Chronic Active																										
Epithelium, Accumulation, Hyaline Droplet	4	3	3	2	4	2	3	2	3	4	4	3	3	2	2	3	2	3	2	3	4	4	3	3	2	
Olfactory Epithelium, Metaplasia, Respiratory					2																					
Sinus, Metaplasia, Squamous																				3						
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
SPECIAL SENSES SYSTEM																										
Eye	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Atrophy								2																		
Lens, Cataract																										
Retina, Degeneration																									2	
Retina, Detachment								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

DAY ON TEST / HARLAN SPRAGUE DAWLEY RATS FEMALE / 2500 ppm females / ANIMAL ID	0735	0735	0735	0735	0642	0596	0731	0731	0732	0584	0732	0673	0735	0709	0568	0735	0546	0735	0494	0735	0732	0670	0638	0661	0730	females (cont...)
	0030 1	0030 2	0030 3	0030 4	0030 5	0030 6	0030 7	0030 8	0030 9	0031 0	0031 1	0031 2	0031 3	0031 4	0031 5	0031 6	0031 7	0031 8	0031 9	0032 0	0032 1	0032 2	0032 3	0032 4	0032 5	
Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
URINARY SYSTEM																										
Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Infarct																										
Inflammation, Chronic Active																										
Nephropathy, Chronic Progressive	1	1	1	1	1			1	1	1	1		1	1				1		2	1		1		1	
Pelvis, Dilation												1														
Pelvis, Inflammation, Chronic Active										1															4	
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Inflammation, Suppurative										3																
Inflammation, Chronic Active																										
Urothelium, Hyperplasia																										

DAY ON TEST	073	073	065	073	052	073	073	073	073	073	073	037	073	028	073	073	073	073	059	073	073	073	068	073	073	048	
HARLAN SPRAGUE DAWLEY RATS FEMALE	5	5	0	6	9	6	6	2	2	2	5	1	9	1	1	6	6	6	6	2	2	3	2	2	4	
2500 ppm females	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	
ANIMAL ID	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	*** TOTALS**	

ALIMENTARY SYSTEM

Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**49**	
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Parasite Metazoan																										**1**	
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Parasite Metazoan				X		X								X						X						**7**	
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**49**	
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**49**	
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**49**	
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Basophilic Focus				X				X															X			**7**	
Clear Cell Focus	X	X							X						X	X	X		X				X	X		**14**	
Eosinophilic Focus							X																			**2**	
Extramedullary Hematopoiesis																										**1**	**1.0**
Hepatodiaphragmatic Nodule								X																		**2**	
Necrosis													2													**2**	**1.5**
Bile Duct, Cyst	X			X															X	X						**6**	
Bile Duct, Dilation																	4									**1**	**4.0**
Bile Duct, Hyperplasia		1	1			1	1	1		1		1				1	1		1		1		1			**21**	**1.0**
Hepatocyte, Hypertrophy												1														**1**	**1.0**

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

HARLAN SPRAGUE DAWLEY RATS FEMALE

2500 ppm females

DAY ON TEST	07 35	07 35	06 50	07 36	05 29	07 36	07 36	07 32	07 32	07 32	07 37	07 31	02 89	07 31	07 31	07 36	07 36	07 36	05 96	07 36	07 32	07 32	06 83	07 32	07 32	04 84	
ANIMAL ID	00 32 6	00 32 7	00 32 8	00 32 9	00 33 0	00 33 1	00 33 2	00 33 3	00 33 4	00 33 5	00 33 6	00 33 7	00 33 8	00 33 9	00 34 0	00 34 1	00 34 2	00 34 3	00 34 4	00 34 5	00 34 6	00 34 7	00 34 8	00 34 9	00 35 0	* TOTALS	
Mesentery												+														3	
Inflammation, Chronic Active												3														1	3.0
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Acinus, Atrophy																								1		5	1.2
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Inflammation, Chronic Active																										1	2.0
Ulcer																										1	2.0
Epithelium, Hyperplasia																										1	2.0
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Mineral																				2			2	1		3	1.7
CARDIOVASCULAR SYSTEM																											
Blood Vessel	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Cardiomyopathy							1																2			8	1.1
ENDOCRINE SYSTEM																											
Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Angiectasis												3				1								4		6	2.5
Degeneration, Cystic	1			2			1	1											1							8	1.1
Hyperplasia, Focal						1				1					1			1								7	1.1
Hypertrophy, Focal																					1					3	1.3

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1) Minimal 3) Moderate
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DAY ON TEST / HARLAN SPRAGUE DAWLEY RATS FEMALE / 2500 ppm females / ANIMAL ID	0735 00326	0735 00327	0650 00328	0736 00329	0529 00330	0736 00331	0736 00332	0732 00333	0732 00334	0732 00335	0375 00336	0731 00337	0289 00338	0731 00339	0731 00340	0736 00341	0736 00342	0596 00343	0736 00344	0732 00345	0732 00346	0683 00347	0732 00348	0732 00349	0484 00350	* TOTALS	
Thrombus																								X		**1**
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Hyperplasia, Focal			3			1									1	1	1	1		1	2					**11**	**1.4**
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Hyperplasia			1																			1				**4**	**1.3**
Metaplasia, Hepatocyte																										**1**	**2.0**
Parathyroid Gland	+	+	+	+	+	+	+	M	M	+	+	+	M	+	+	M	+	M	+	M	+	M	+	+	M	**39**
Hyperplasia																			1							**1**	**1.0**
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Pars Distalis, Hyperplasia									2		1				3		4				3			4		**15**	**2.5**
Pars Intermedia, Hyperplasia							2																			**1**	**2.0**
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
C-cell, Hyperplasia		3		4			2																	4		**11**	**2.8**
GENERAL BODY SYSTEM																											
Peritoneum												+														**1**	
Inflammation, Chronic Active												2														**1**	**2.0**
GENITAL SYSTEM																											
Clitoral Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**49**	
Hyperplasia, Squamous																										**1**	**3.0**
Ovary	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Atrophy	2	2	2	2	2	3	2	2	2			3	3	2	2			2	2	3	2	3		2	3	**38**	**2.3**

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DAY ON TEST / HARLAN SPRAGUE DAWLEY RATS FEMALE / 2500 ppm females / ANIMAL ID	0735 0326	0735 0327	0650 0328	0736 0329	0529 0330	0736 0331	0736 0332	0732 0333	0732 0334	0732 0335	0375 0336	0731 0337	0289 0338	0731 0339	0731 0340	0736 0341	0736 0342	0596 0343	0736 0344	0732 0345	0732 0346	0683 0347	0732 0348	0732 0349	0484 0350	* TOTALS	
Inflammation, Chronic																				2						**1**	**2.0**
Bursa, Cyst																				X						**1**	
Follicle, Cyst			X			X												X					X			**8**	
Germinal Epithelium, Cyst																										**2**	
Paraovarian Tissue, Cyst																								X		**2**	
Uterus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Adenomyosis	1																									**1**	**1.0**
Angiectasis	1																									**1**	**1.0**
Dilation			3									4								3					4	**4**	**3.5**
Hemorrhage			1																1						2	**3**	**1.3**
Hyperplasia, Atypical	1					2	1	1	2											1						**10**	**1.5**
Inflammation, Suppurative												2								2						**5**	**1.6**
Squamous Metaplasia	1	2	1	1	1	2	2	2	2			4		2	1			1	1	1	1	1		1		**32**	**1.5**
Thrombus																										**2**	
Ulcer												3														**1**	**3.0**
Endometrium, Hyperplasia, Cystic	2	1		1	2	2	3	2	2						2			2	1	1	1	1		2		**27**	**1.9**
Vagina	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**49**	
Hypertrophy, Stromal																										**1**	**4.0**
HEMATOPOIETIC SYSTEM																											
Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Hypercellularity	1	2	4	2	4		1				4	4	4	2			1	2	3	2	2				3	**32**	**2.8**
Hypocellularity						2																				**1**	**2.0**
Lymph Node																										**4**	
Lumbar, Hemorrhage																										**1**	**2.0**
Lumbar, Hyperplasia, Plasma Cell																										**1**	**3.0**

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DAY ON TEST / HARLAN SPRAGUE DAWLEY RATS FEMALE / 2500 ppm females / ANIMAL ID	0735 00326	0735 00327	0650 00328	0736 00329	0529 00330	0736 00331	0736 00332	0732 00333	0732 00334	0732 00335	0375 00336	0731 00337	0289 00338	0731 00339	0731 00340	0736 00341	0736 00342	0596 00343	0736 00344	0732 00345	0732 00346	0683 00347	0732 00348	0732 00349	0484 00350	* TOTALS	
Lymph Node, Mandibular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Atrophy																									**1**	**3.0**
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**49**	
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Extramedullary Hematopoiesis	2	1	3	1	3	2	2	1	2	2	3	3	4	2	2	2	2	1	2		2	1	2	2		**44**	**2.1**
Pigment	1	1		2		2	2	1	1	2				1	2	2	2	2	1		2	1	2	1	2	**39**	**1.6**
White Pulp, Atrophy																									3	**7**	**3.0**
Thymus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	**48**	
Atrophy	2	2	4	1		2	1	1	2	2		4	2	2	3		2	1	2	1	2	2	2	1	1	**45**	**2.3**
INTEGUMENTARY SYSTEM																											
Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Galactocele																						3			**1**	**3.0**
Hyperplasia										2						2	2				3		1		**10**	**1.5**
Hyperplasia, Adenomatous																				4					**1**	**4.0**
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
MUSCULOSKELETAL SYSTEM																											
Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Skeletal Muscle																									**1**	
NERVOUS SYSTEM																											

DAY ON TEST / HARLAN SPRAGUE DAWLEY RATS FEMALE / 2500 ppm females / ANIMAL ID	0735 00326	0735 00327	0650 00328	0736 00329	0529 00330	0736 00331	0736 00332	0732 00333	0732 00334	0732 00335	0375 00336	0731 00337	0289 00338	0731 00339	0731 00340	0736 00341	0736 00342	0596 00343	0736 00344	0732 00345	0732 00346	0683 00347	0732 00348	0732 00349	0484 00350	* TOTALS	
Brain	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Hemorrhage																						2				**1**	**2.0**
Necrosis																										**2**	**3.0**
RESPIRATORY SYSTEM																											
Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Infiltration Cellular, Histiocyte	2	3	2	1	1	3	2	2	2	2	2	3	2	2	3	4	2	2	3	2	2	2	3	2	1	**50**	**2.4**
Inflammation, Granulomatous, Focal																				2						**3**	**1.3**
Inflammation, Acute																										**1**	**1.0**
Alveolus, Epithelium, Hyperplasia	1											3														**2**	**2.0**
Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Inflammation, Suppurative																										**1**	**4.0**
Inflammation, Acute																								1		**1**	**1.0**
Inflammation, Chronic Active																		1								**1**	**1.0**
Epithelium, Accumulation, Hyaline Droplet	4	2	3	3	2	4	2	4	3	4	3	4	2	3	4	3	4	3	3	4	4	4	3	3	2	**50**	**3.1**
Olfactory Epithelium, Metaplasia, Respiratory																										**1**	**2.0**
Sinus, Metaplasia, Squamous																										**1**	**3.0**
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
SPECIAL SENSES SYSTEM																											
Eye	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Atrophy																										**1**	**2.0**
Lens, Cataract												1														**1**	**1.0**
Retina, Degeneration																										**1**	**2.0**
Retina, Detachment																										**1**	**4.0**

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2) Mild 4) Marked

DAY ON TEST / HARLAN SPRAGUE DAWLEY RATS FEMALE / 2500 ppm females / ANIMAL ID	0735 0326	0735 0327	0650 0328	0736 0329	0529 0330	0736 0331	0736 0332	0732 0333	0732 0334	0732 0335	0375 0336	0731 0337	0289 0338	0731 0339	0731 0340	0736 0341	0736 0342	0596 0343	0736 0344	0732 0345	0732 0346	0683 0347	0732 0348	0732 0349	0484 0350	* TOTALS	
Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
URINARY SYSTEM																										
Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Infarct																					1				**1**	**1.0**
Inflammation, Chronic Active																		2							**1**	**2.0**
Nephropathy, Chronic Progressive	1	1		1	1	1	1	1	1			1	1		1	1	1	1	1	1	3	1	1	1	1	**37**	**1.1**
Pelvis, Dilation																									**1**	**1.0**
Pelvis, Inflammation, Chronic Active																									**2**	**2.5**
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Inflammation, Suppurative																									**1**	**3.0**
Inflammation, Chronic Active					2							1													**2**	**1.5**
Urothelium, Hyperplasia					2																				**1**	**2.0**

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HARLAN SPRAGUE DAWLEY RATS FEMALE

5000 ppm females

DAY ON TEST	0596	0735	0735	0735	0736	0736	0736	0736	0715	0495	0732	0732	0735	0735	0232	0596	0616	0529	0732	0732	0669	0393	0732	0732	0673	
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...)**

ALIMENTARY SYSTEM

Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Erosion																	2									
Inflammation, Chronic Active																	1									
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Parasite Metazoan			X																							
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Angiectasis											1													2		
Basophilic Focus		X										X	X		X									X		
Clear Cell Focus														X					X	X						
Degeneration, Cystic																								1		
Eosinophilic Focus			X	X			X				X		X	X					X							
Hepatodiaphragmatic Nodule																										
Mixed Cell Focus							X																			
Necrosis										1												1				
Bile Duct, Cyst	X			X			X				X	X		X												
Bile Duct, Hyperplasia		1	1		1	1	1		1				1	1					1	1				2		

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

DAY ON TEST	0596	0735	0735	0735	0736	0736	0736	0736	0715	0495	0732	0732	0735	0735	0232	0596	0616	0529	0732	0732	0669	0393	0732	0732	0673	
HARLAN SPRAGUE DAWLEY RATS FEMALE																										
5000 ppm females																										
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...)**
Hepatocyte, Regeneration																								2		
Mesentery																										
Fat, Necrosis																										
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Inflammation, Chronic Active																										
Acinus, Atrophy											2															
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Inflammation, Chronic Active																										
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Inflammation, Chronic Active																2										
Epithelium, Hyperplasia																2										
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Mineral																				2						
CARDIOVASCULAR SYSTEM																										
Blood Vessel	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Aneurysm								4																		
Inflammation, Chronic Active						2		4																		
Thrombus								X																		
Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Cardiomyopathy							1					1		1												
ENDOCRINE SYSTEM																										

HARLAN SPRAGUE DAWLEY RATS FEMALE

5000 ppm females

DAY ON TEST	0596	0735	0735	0735	0736	0736	0736	0736	0715	0495	0732	0732	0735	0735	0232	0596	0616	0529	0732	0732	0669	0393	0732	0732	0673	
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...)**
Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Degeneration, Cystic													2													
Hemorrhage													4													
Hyperplasia, Focal									1					2												
Hypertrophy, Focal								2											1	1						
Necrosis																										
Thrombus						X																				
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hyperplasia, Focal		2						1			1									1						
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hyperplasia												1														
Parathyroid Gland	+	+	+	M	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	
Hyperplasia																1										
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Cyst																										
Pars Distalis, Hyperplasia			2						1		4			3			3	2			3		1			
Rathke's Cleft, Hyperplasia																2										
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
C-cell, Hyperplasia	2			2								4	4						2							

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

DAY ON TEST	0596	0735	0735	0735	0736	0736	0736	0736	0715	0495	0732	0732	0735	0735	0232	0596	0616	0529	0732	0732	0669	0393	0732	0732	0673	
HARLAN SPRAGUE DAWLEY RATS FEMALE																										
5000 ppm females 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...)**
Clitoral Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Ovary	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Atrophy	3	2	3	3	2		2		3	3	3	2		2		3					3		3	2		
Bursa, Cyst								X		X		X														
Follicle, Cyst			X		X									X												
Granulosa Cell, Hyperplasia																								3		
Paraovarian Tissue, Cyst																										
Uterus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Adenomyosis											1															
Dilation												4														
Hyperplasia, Atypical																							1			
Inflammation, Suppurative	2								3			3														
Inflammation, Chronic Active																										
Squamous Metaplasia	3		1			1	1		2	1		4		1		1					1		3	1		
Thrombus												X														
Endometrium, Hyperplasia, Cystic		2	2	1	1		3				2			2		1					1		2			
Lymphatic, Angiectasis											3															
Vagina	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+	+	
Inflammation, Suppurative																						2				
HEMATOPOIETIC SYSTEM																										
Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hemorrhage																									3	
Hypercellularity	4	1	3				2	3	4	3		4	3	2	4	4	3	4	3		3	4	2	2	1	
Lymph Node								+			+				+											

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

DAY ON TEST	0596	0735	0735	0735	0736	0736	0736	0736	0715	0495	0732	0732	0735	0735	0232	0596	0616	0529	0732	0732	0669	0393	0732	0732	0673	
HARLAN SPRAGUE DAWLEY RATS FEMALE **5000 ppm females** 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...)**
Mediastinal, Hyperplasia, Plasma Cell															2											
Mediastinal, Infiltration Cellular, Histiocyte								2																		
Lymph Node, Mandibular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Extramedullary Hematopoiesis	3	2	2	2	2	2	2	3	3	3		2	2	2	3	3	3	3	2	2	2	3	2	2	3	
Inflammation, Chronic Active								3																		
Pigment		1		1	1	1	2				1		1	2		1	1		1	2	2		1	1	1	
White Pulp, Atrophy										3							2				4	2			2	
Thymus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Atrophy	4		2	1	2	2	2	2	2	2	2	1	2	1	1	3	4	1	2	2	2	2	2	1	3	
INTEGUMENTARY SYSTEM																										
Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hyperplasia						2		2					4	1			2		2	2						
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
MUSCULOSKELETAL SYSTEM																										
Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Joint, Degeneration																										
NERVOUS SYSTEM																										
Brain	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	

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2) Mild 4) Marked

DAY ON TEST / HARLAN SPRAGUE DAWLEY RATS FEMALE / 5000 ppm females / ANIMAL ID	0596 0351	0735 0352	0735 0353	0735 0354	0736 0355	0736 0356	0736 0357	0736 0358	0715 0359	0495 0360	0732 0361	0732 0362	0735 0363	0735 0364	0232 0365	0596 0366	0616 0367	0529 0368	0732 0369	0732 0370	0669 0371	0393 0372	0732 0373	0732 0374	0673 0375	females (cont...)
Cranial Nerve, Gliosis																	2								
RESPIRATORY SYSTEM																									
Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Infiltration Cellular, Histiocyte	1	2	3	3	2	2	2	2	3	2	4	2	2	3	1	4	2	2	2	2	2		2		2
Inflammation, Granulomatous, Focal						1			1																
Squamous Metaplasia																									2
Alveolus, Epithelium, Hyperplasia																									
Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Inflammation, Acute													1					1							
Epithelium, Accumulation, Hyaline Droplet	3	2	4	4	2	3	4	3	3	3	4	3	2	1		2	2	2	2	3	2	3	4	2	2
Glands, Hyperplasia																	1								
Olfactory Epithelium, Metaplasia, Respiratory	2																								
Respiratory Epithelium, Metaplasia, Squamous																									
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
SPECIAL SENSES SYSTEM																									
Eye	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Inflammation, Chronic Active																		2							
Retina, Degeneration																								1	
Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
URINARY SYSTEM																									
Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Nephropathy, Chronic Progressive	1	1		1	1	1	2	1	1		1	1	1	1			1	1					1	1	

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DAY ON TEST	0596	0735	0735	0735	0736	0736	0736	0736	0715	0495	0732	0732	0735	0735	0232	0596	0616	0529	0732	0732	0669	0393	0732	0732	0673	
HARLAN SPRAGUE DAWLEY RATS FEMALE																										
5000 ppm females 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...)**
Pelvis, Dilation																										
Pelvis, Inflammation, Chronic Active																										
Renal Tubule, Hyperplasia																								1		
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	

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DAY ON TEST	059	073	073	073	073	073	073	070	073	073	073	072	073	056	073	073	054	073	073	065	073	073	052	073	073		
HARLAN SPRAGUE DAWLEY RATS FEMALE	2	2	2	1	1	1	1	4	2	2	2	9	2	4	2	5	5	5	5	7	5	5	9	1	1		
5000 ppm females ANIMAL ID	00376	00377	00378	00379	00380	00381	00382	00383	00384	00385	00386	00387	00388	00389	00390	00391	00392	00393	00394	00395	00396	00397	00398	00399	00400	*** TOTALS**	
ALIMENTARY SYSTEM																											
Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Intestine Large, Cecum	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**49**	
Intestine Large, Colon	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**49**	
Erosion																										**1**	**2.0**
Inflammation, Chronic Active																										**1**	**1.0**
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Parasite Metazoan			X		X	X	X		X				X						X							**8**	
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Intestine Small, Ileum	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**49**	
Intestine Small, Jejunum	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**49**	
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Angiectasis																										**2**	**1.5**
Basophilic Focus												X	X	X		X										**9**	
Clear Cell Focus			X				X		X					X		X						X		X		**10**	
Degeneration, Cystic																										**1**	**1.0**
Eosinophilic Focus														X				X			X	X		X	X	**13**	
Hepatodiaphragmatic Nodule															X											**1**	
Mixed Cell Focus																										**1**	
Necrosis																	2									**3**	**1.3**
Bile Duct, Cyst		X		X			X			X	X													X		**12**	
Bile Duct, Hyperplasia		1	1	1			1	1	1		1	1			1	1		1		1	1					**24**	**1.0**

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DAY ON TEST / HARLAN SPRAGUE DAWLEY RATS FEMALE / 5000 ppm females / ANIMAL ID	0596 0376	0732 0377	0732 0378	0731 0379	0731 0380	0731 0381	0731 0382	0704 0383	0732 0384	0732 0385	0732 0386	0729 0387	0732 0388	0564 0389	0732 0390	0735 0391	0545 0392	0735 0393	0735 0394	0657 0395	0735 0396	0735 0397	0529 0398	0731 0399	0731 0400	* TOTALS	
Hepatocyte, Regeneration																											**1 2.0**
Mesentery											+															**1**	
Fat, Necrosis											2																**1 2.0**
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Inflammation, Chronic Active			1																			1					**2 1.0**
Acinus, Atrophy								1													1						**3 1.3**
Salivary Glands	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**49**	
Inflammation, Chronic Active							1																				**1 1.0**
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Inflammation, Chronic Active																											**1 2.0**
Epithelium, Hyperplasia																											**1 2.0**
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Mineral																											**1 2.0**
CARDIOVASCULAR SYSTEM																											
Blood Vessel	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Aneurysm																											**1 4.0**
Inflammation, Chronic Active																											**2 3.0**
Thrombus																											**1**
Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Cardiomyopathy						1																					**4 1.0**
ENDOCRINE SYSTEM																											

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HARLAN SPRAGUE DAWLEY RATS FEMALE

5000 ppm females

DAY ON TEST	059	073	073	073	073	073	073	070	073	073	073	072	073	056	073	073	054	073	073	065	073	073	052	073	073		
	6	2	2	1	1	1	1	4	2	2	2	9	2	4	2	5	5	5	5	7	5	5	9	1	1		
ANIMAL ID	00376	00377	00378	00379	00380	00381	00382	00383	00384	00385	00386	00387	00388	00389	00390	00391	00392	00393	00394	00395	00396	00397	00398	00399	00400	* TOTALS	
Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Degeneration, Cystic						1					1							1								4	1.3
Hemorrhage																										1	4.0
Hyperplasia, Focal																										2	1.5
Hypertrophy, Focal								2	1																1	6	1.3
Necrosis													3													1	3.0
Thrombus																										1	
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Hyperplasia, Focal	1													1				1							1	8	1.1
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Hyperplasia					1																					2	1.0
Parathyroid Gland	+	M	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	M	+	+	+	+	+	+	45	
Hyperplasia																										1	1.0
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Cyst							X																			1	
Pars Distalis, Hyperplasia		1	2	2	2					2				3	1						4		1		3	18	2.2
Rathke's Cleft, Hyperplasia																										1	2.0
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
C-cell, Hyperplasia	1			1		1	1												1					2		11	1.9

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

DAY ON TEST / HARLAN SPRAGUE DAWLEY RATS FEMALE / 5000 ppm females / ANIMAL ID	0596 0037 76	0732 0037 77	0732 0037 78	0731 0037 79	0731 0038 80	0731 0038 81	0731 0038 82	0704 0038 83	0732 0038 84	0732 0038 85	0732 0038 86	0729 0038 87	0732 0038 88	0564 0038 89	0732 0039 00	0735 0039 01	0545 0039 02	0735 0039 03	0735 0039 04	0657 0039 05	0735 0039 06	0735 0039 07	0529 0039 08	0731 0039 09	0731 0040 00	* TOTALS	
Clitoral Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Ovary	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Atrophy	2	2			2	3	3	2	2	2		2	2		2	2	3	2	2	2					2	**32**	**2.4**
Bursa, Cyst			X																							**4**	
Follicle, Cyst					X				X					X								X				**7**	
Granulosa Cell, Hyperplasia								1																		**2**	**2.0**
Paraovarian Tissue, Cyst		X					X				X															**3**	
Uterus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Adenomyosis										1																**2**	**1.0**
Dilation								4					4													**3**	**4.0**
Hyperplasia, Atypical							3				4			1		1		2								**6**	**2.0**
Inflammation, Suppurative					3	3				4														1		**7**	**2.7**
Inflammation, Chronic Active													4													**1**	**4.0**
Squamous Metaplasia	1	1		3	3	4		1		3	1		4		4	1	3		2					2		**26**	**2.0**
Thrombus																										**1**	
Endometrium, Hyperplasia, Cystic		1		2	1		3			2	1					1	1	4	3	2				1	3	**23**	**1.8**
Lymphatic, Angiectasis																										**1**	**3.0**
Vagina	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+	+	+	**48**	
Inflammation, Suppurative																										**1**	**2.0**
HEMATOPOIETIC SYSTEM																											
Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Hemorrhage																										**1**	**3.0**
Hypercellularity	3			1		2	2	3	1	2		3	4	3	2		3	3	3	3	1	4	4		4	**39**	**2.8**
Lymph Node																										**3**	

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+ .. Tissue examined microscopically
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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 / HARLAN SPRAGUE DAWLEY RATS FEMALE / 5000 ppm females / ANIMAL ID	0596 0376	0732 0377	0732 0378	0731 0379	0731 0380	0731 0381	0731 0382	0704 0383	0732 0384	0732 0385	0732 0386	0729 0387	0732 0388	0564 0389	0732 0390	0735 0391	0545 0392	0735 0393	0735 0394	0657 0395	0735 0396	0735 0397	0529 0398	0731 0399	0731 0400	* TOTALS	
Mediastinal, Hyperplasia, Plasma Cell																										**1**	**2.0**
Mediastinal, Infiltration Cellular, Histiocyte																										**1**	**2.0**
Lymph Node, Mandibular	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**49**	
Lymph Node, Mesenteric	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**49**	
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Extramedullary Hematopoiesis	3	2	2	2	2	2	2	2	2	2	2	2	3	3	2	2	3	2		3	2	3	3	2	3	**48**	**2.4**
Inflammation, Chronic Active																										**1**	**3.0**
Pigment	1	2	2	2	1	1	2		2	1	1	1		1	2	1		2		2	1			2	1	**35**	**1.4**
White Pulp, Atrophy								2				2					1									**8**	**2.3**
Thymus	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**49**	
Atrophy	2	1	4	1	2	1	1		1	2	2		3	3	2	2	3	2	2	1	3	3		1	1	**46**	**2.0**
INTEGUMENTARY SYSTEM																											
Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Hyperplasia			3						2										1		2	2				**12**	**2.1**
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
MUSCULOSKELETAL SYSTEM																											
Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Joint, Degeneration											1			1												**2**	**1.0**
NERVOUS SYSTEM																											
Brain	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	

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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 FEMALE 5000 ppm females	DAY ON TEST	0596	0732	0732	0731	0731	0731	0731	0704	0732	0732	0732	0729	0732	0564	0732	0735	0545	0735	0735	0657	0735	0735	0529	0731	0731	* TOTALS	
	ANIMAL ID	00376	00377	00378	00379	00380	00381	00382	00383	00384	00385	00386	00387	00388	00389	00390	00391	00392	00393	00394	00395	00396	00397	00398	00399	00400		
Cranial Nerve, Gliosis																											**1**	**2.0**
RESPIRATORY SYSTEM																												
Lung		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Infiltration Cellular, Histiocyte		1	2	3	2	2	2	1	1	3	2	3	3	2	2	2	2	3		2	1	2	3	2	2	2	**47**	**2.2**
Inflammation, Granulomatous, Focal			1								1						1					1					**6**	**1.0**
Squamous Metaplasia																											**1**	**2.0**
Alveolus, Epithelium, Hyperplasia																	1										**1**	**1.0**
Nose		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Inflammation, Acute											1				1			1				1					**6**	**1.0**
Epithelium, Accumulation, Hyaline Droplet		3	2	3	3	3	3	3	2	3	4	3	2	3	2	3	2	3	3	4	2	2	1	4	4	3	**49**	**2.8**
Glands, Hyperplasia																											**1**	**1.0**
Olfactory Epithelium, Metaplasia, Respiratory																											**1**	**2.0**
Respiratory Epithelium, Metaplasia, Squamous											1																**1**	**1.0**
Trachea		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
SPECIAL SENSES SYSTEM																												
Eye		+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**49**	
Inflammation, Chronic Active																											**1**	**2.0**
Retina, Degeneration																										2	**2**	**1.5**
Harderian Gland		+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**49**	
URINARY SYSTEM																												
Kidney		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Nephropathy, Chronic Progressive			1			1	2	1		1	1	1		1		1	1	1	1			1	1	1	1	1	**33**	**1.1**

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M .. Missing tissue
1-4 .. Lesion qualified as:
X .. Lesion present
A .. Autolysis precludes evaluation
1) Minimal 3) Moderate
I .. Insufficient tissue
BLANK .. Not examined microscopically
2) Mild 4) Marked

HARLAN SPRAGUE DAWLEY RATS FEMALE

5000 ppm females

DAY ON TEST	059	073	073	073	073	073	073	070	073	073	073	072	073	056	073	073	054	073	073	065	073	073	052	073	073	
ANIMAL ID	0037	0037	0037	0037	0038	0038	0038	0038	0038	0038	0038	0038	0038	0038	0039	0039	0039	0039	0039	0039	0039	0039	0039	0039	0040	*** TOTALS**
Pelvis, Dilation								4																		**1 4.0**
Pelvis, Inflammation, Chronic Active								2																		**1 2.0**
Renal Tubule, Hyperplasia																										**1 1.0**
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**

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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

DAY ON TEST	0732	0273	0732	0732	0732	0732	0732	0732	0735	0724	0735	0632	0669	0484	0731	0689	0735	0735	0735	0683	0735	0735	0735	0735	0508	
HARLAN SPRAGUE DAWLEY RATS FEMALE																										
10000 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...)**
ALIMENTARY SYSTEM																										
Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Dilation										4																
Intestine Large, Cecum	+	M	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Parasite Metazoan															X											
Lymphoid Tissue, Hyperplasia																										
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Parasite Metazoan																						X				
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Intestine Small, Ileum	+	M	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Basophilic Focus								X							X						X			X		
Clear Cell Focus						X	X											X			X	X				
Eosinophilic Focus			X		X	X		X		X		X						X				X		X		
Extramedullary Hematopoiesis														1												
Mixed Cell Focus																										
Necrosis													2	3						2						
Pigment	1		1									2														
Thrombus													X													
Bile Duct, Cyst			X			X		X			X				X							X		X		

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

DAY ON TEST	0732	0273	0732	0732	0732	0732	0732	0732	0735	0724	0735	0632	0669	0484	0731	0689	0735	0735	0735	0683	0735	0735	0735	0735	0508	
HARLAN SPRAGUE DAWLEY RATS FEMALE																										
10000 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...)**
Bile Duct, Dilation																										
Bile Duct, Hyperplasia		1	1	1	1	1					1	1	2			1	1	1	1		1	1	1		1	
Hepatocyte, Cytoplasmic Alteration																2										
Hepatocyte, Hypertrophy																										
Oval Cell, Hyperplasia													2													
Mesentery													+													
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Acinus, Atrophy																										
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Necrosis																										
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Foreign Body																										
Inflammation, Chronic Active										2									1							
Ulcer										1																
Epithelium, Hyperplasia										2																
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
CARDIOVASCULAR SYSTEM																										
Blood Vessel	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Inflammation, Chronic Active									1																	
Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Cardiomyopathy							1		1	2							1		2			1				

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HARLAN SPRAGUE DAWLEY RATS FEMALE

10000 ppm female

DAY ON TEST	0732	0273	0732	0732	0732	0732	0732	0732	0735	0724	0735	0632	0669	0484	0731	0689	0735	0735	0735	0683	0735	0735	0735	0735	0508	
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...)**

ENDOCRINE SYSTEM

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Angiectasis																										
Degeneration, Cystic					1										1		1									
Hyperplasia, Focal						2									1											
Hypertrophy, Focal	1				1																					
Inflammation, Chronic																										
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hyperplasia, Focal															1						1			1		
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hyperplasia																										
Parathyroid Gland	+	+	+	+	+	+	+	+	M	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	
Hyperplasia					1																					
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Pars Distalis, Hyperplasia			4			1		1														4		3		
Pars Distalis, Hyperplasia, Atypical																										
Pars Distalis, Necrosis														2												
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
C-cell, Hyperplasia														1		2										

GENERAL BODY SYSTEM

NONE

DAY ON TEST	0732	0273	0732	0732	0732	0732	0732	0732	0735	0724	0735	0632	0669	0484	0731	0689	0735	0735	0735	0683	0735	0735	0735	0735	0508	
HARLAN SPRAGUE DAWLEY RATS FEMALE																										
10000 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...)**
GENITAL SYSTEM																										
Clitoral Gland	+	+	+	+	+	+	+	M	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Ovary	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Atrophy	3	1	2	2	2	2		2	2		2	3	3	2		3	2	2	3			3	3	2	2	
Dilation																										
Follicle, Cyst								X	X						X				X		X		X			
Interstitial Cell, Hyperplasia																										
Oviduct																										
Uterus	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Dilation		3												3											4	
Hemorrhage												3		4											4	
Hyperplasia, Atypical		3	1					1			1													4		
Inflammation, Suppurative			3								2	4	3		3							4				
Inflammation, Chronic Active		2																								
Metaplasia, Cartilagenous																										
Squamous Metaplasia			2	2	2	1		2			3	3		2				3	1			4		3	4	
Ulcer																						2			1	
Endometrium, Hyperplasia, Cystic		3	1	1	1	1		1	4		2				2		4		1			2	2	1		
Vagina	+	+	+	+	+	+		+	+	M	+	+	+	+	+	+	+	+	+	+	+		+	+	+	
HEMATOPOIETIC SYSTEM																										
Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hemorrhage										2																

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+ .. Tissue examined microscopically
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DAY ON TEST	0732	0273	0732	0732	0732	0732	0732	0732	0735	0724	0735	0632	0669	0484	0731	0689	0735	0735	0735	0683	0735	0735	0735	0735	0508	
HARLAN SPRAGUE DAWLEY RATS FEMALE																										
10000 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...)**
Hypercellularity		2	3	2		2	2	4	3		1	4	4	3	2	3	2			4		2	2	4	4	
Lymph Node	+															+										
Lumbar, Hyperplasia, Plasma Cell																										
Lymph Node, Mandibular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hyperplasia, Plasma Cell																							2			
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hemorrhage																										
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Extramedullary Hematopoiesis		2	2	2	2	2	2	3	2	2	2	3		3	2		2	2	2	3	2	2	2	3	3	
Hemorrhage																										
Pigment		2	2	1	2	1	1	1		1	2				2		1	2	1		2	1	2			
White Pulp, Atrophy		3								4		3	3	2												
Thymus	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	
Atrophy			3	2			2	1	1		2	4	4	3	4		1		4	2	2	2	2	3	3	
Ectopic Tissue, Parathyroid Gland																			2							
INTEGUMENTARY SYSTEM																										
Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hyperplasia					1										2			1			3					
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
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

DAY ON TEST / HARLAN SPRAGUE DAWLEY RATS FEMALE / 10000 ppm female / ANIMAL ID	0732 0401	0273 0402	0732 0403	0732 0404	0732 0405	0732 0406	0732 0407	0732 0408	0735 0409	0724 0410	0735 0411	0632 0412	0669 0413	0484 0414	0731 0415	0689 0416	0735 0417	0735 0418	0735 0419	0683 0420	0735 0421	0735 0422	0735 0423	0735 0424	0508 0425	females (cont...)
Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Skeletal Muscle													+													
NERVOUS SYSTEM																										
Brain	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Gliosis																			2							
Hemorrhage	2																									
Necrosis																			3							
Peripheral Nerve	+																									
RESPIRATORY SYSTEM																										
Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Cyst, Squamous, Multiple																										
Cyst, Squamous																										
Infiltration Cellular, Histiocyte	2	2	3		4	2	3	3	3	3	3	2	4	2	3	3	3	3	3	3	2	3	2	2	3	
Inflammation, Granulomatous, Focal						1																			1	
Inflammation, Chronic Active																										
Alveolus, Epithelium, Hyperplasia																										
Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Inflammation, Acute					1	1	2		1																	
Epithelium, Accumulation, Hyaline Droplet	4	2	3	4	3	2	4	1	2	1	2	3	1	2	3	4	1	2	4		4	4	4	4	4	
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
SPECIAL SENSES SYSTEM																										

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DAY ON TEST / HARLAN SPRAGUE DAWLEY RATS FEMALE / 10000 ppm female / ANIMAL ID	0732 0401	0273 0402	0732 0403	0732 0404	0732 0405	0732 0406	0732 0407	0732 0408	0735 0409	0724 0410	0735 0411	0632 0412	0669 0413	0484 0414	0731 0415	0689 0416	0735 0417	0735 0418	0735 0419	0683 0420	0735 0421	0735 0422	0735 0423	0735 0424	0508 0425	females (cont...)
Eye	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Retina, Degeneration																										
Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
URINARY SYSTEM																										
Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Nephropathy, Chronic Progressive		1	1	1		1	1	1	3	1	1				1	1	1	1	2	1	1	1	1			
Renal Tubule, Accumulation, Hyaline Droplet																										
Renal Tubule, Hyperplasia																										
Renal Tubule, Hyperplasia, Atypical							1																			
Urinary Bladder	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	

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DAY ON TEST	073 1	073 1	073 1	073 2	073 2	073 2	071 0	073 0	073 6	066 5	073 6	063 4	073 1	073 1	022 5	072 5	073 2	055 5	073 2	073 5	073 5	073 5	073 6	073 6	040 6	
HARLAN SPRAGUE DAWLEY RATS FEMALE																										
10000 ppm female																										
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**
ALIMENTARY SYSTEM																										
Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Dilation																										**1 4.0**
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**48**
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**49**
Parasite Metazoan					X																					**2**
Lymphoid Tissue, Hyperplasia																	3									**1 3.0**
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**49**
Parasite Metazoan		X				X		X					X			X										**6**
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**49**
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**48**
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**49**
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Basophilic Focus											X								X	X	X					**8**
Clear Cell Focus		X				X			X															X		**9**
Eosinophilic Focus		X	X			X				X	X			X					X			X		X		**18**
Extramedullary Hematopoiesis																										**1 1.0**
Mixed Cell Focus											X															**1**
Necrosis								3										3								**5 2.6**
Pigment																										**3 1.3**
Thrombus																										**1**
Bile Duct, Cyst	X					X	X			X	X		X	X			X		X		X	X		X		**19**

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DAY ON TEST / HARLAN SPRAGUE DAWLEY RATS FEMALE / 10000 ppm female / ANIMAL ID	0731 0426	0731 0427	0731 0428	0732 0429	0732 0430	0732 0431	0710 0432	0730 0433	0736 0434	0665 0435	0736 0436	0634 0437	0731 0438	0731 0439	0225 0440	0725 0441	0732 0442	0555 0443	0732 0444	0735 0445	0735 0446	0735 0447	0736 0448	0736 0449	0406 0450	* TOTALS	
Bile Duct, Dilation																								3		**1 3.0**
Bile Duct, Hyperplasia	1		1	1		1	2	1	1		1		1						1	1	1			3		**29 1.1**
Hepatocyte, Cytoplasmic Alteration										1				1												**3 1.3**
Hepatocyte, Hypertrophy										2				1												**2 1.5**
Oval Cell, Hyperplasia																										**1 2.0**
Mesentery																									**1**	
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Acinus, Atrophy					1																					**1 1.0**
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Necrosis																		2								**1 2.0**
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Foreign Body																								X		**1**
Inflammation, Chronic Active																								1		**3 1.3**
Ulcer																										**1 1.0**
Epithelium, Hyperplasia												1												2		**3 1.7**
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
CARDIOVASCULAR SYSTEM																										
Blood Vessel	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Inflammation, Chronic Active																										**1 1.0**
Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Cardiomyopathy						1																				**7 1.3**

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HARLAN SPRAGUE DAWLEY RATS FEMALE

10000 ppm female

DAY ON TEST	073 1	073 1	073 1	073 2	073 2	073 2	071 0	073 0	073 6	066 5	073 6	063 4	073 1	073 1	022 5	072 5	073 2	055 5	073 2	073 5	073 5	073 5	073 6	073 6	040 6	
ANIMAL ID	004 26	004 27	004 28	004 29	004 30	004 31	004 32	004 33	004 34	004 35	004 36	004 37	004 38	004 39	004 40	004 41	004 42	004 43	004 44	004 45	004 46	004 47	004 48	004 49	004 50	*** TOTALS**
ENDOCRINE SYSTEM																										
Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Angiectasis											3															**1 3.0**
Degeneration, Cystic	1	1	1	1		1	1	1																		**10 1.0**
Hyperplasia, Focal																							1			**3 1.3**
Hypertrophy, Focal				1																						**3 1.0**
Inflammation, Chronic					1																					**1 1.0**
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Hyperplasia, Focal				1		2										2										**6 1.3**
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Hyperplasia																				2						**1 2.0**
Parathyroid Gland	+	+	+	+	+	M	+	M	+	+	+	+	+	M	+	+	+	M	+	+	+	+	+	+	+	**44**
Hyperplasia																										**1 1.0**
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Pars Distalis, Hyperplasia	2		3	4			1		1	3	1	1				4							2	4		**16 2.4**
Pars Distalis, Hyperplasia, Atypical					3																					**1 3.0**
Pars Distalis, Necrosis																		2								**2 2.0**
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
C-cell, Hyperplasia						1																				**3 1.3**
GENERAL BODY SYSTEM																										
NONE																										

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DAY ON TEST	07311	07311	07311	07322	07322	07322	07110	07300	07336	06665	07336	06344	07311	07311	02225	07225	07322	05555	07322	07355	07355	07355	07366	07366	04006	
HARLAN SPRAGUE DAWLEY RATS FEMALE																										
10000 ppm female ANIMAL ID	00426	00427	00428	00429	00430	00431	00432	00433	00434	00435	00436	00437	00438	00439	00440	00441	00442	00443	00444	00445	00446	00447	00448	00449	00450	*** TOTALS**
GENITAL SYSTEM																										
Clitoral Gland	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**47**
Ovary	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**49**
Atrophy	2		2	2	2	3	2			3	2	3	2	2		3		3	2	3	2	2	2	2	2	**40 2.3**
Dilation						3																				**1 3.0**
Follicle, Cyst		X						X			X			X		X	X						X	X		**14**
Interstitial Cell, Hyperplasia							2																			**1 2.0**
Oviduct																							+			**1**
Uterus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**49**
Dilation							4											4		4						**6 3.7**
Hemorrhage																										**3 3.7**
Hyperplasia, Atypical	2			1	4								2	2					1					2	1	**13 1.9**
Inflammation, Suppurative					3						2					4		3						2		**11 3.0**
Inflammation, Chronic Active																										**1 2.0**
Metaplasia, Cartilagenous																							1			**1 1.0**
Squamous Metaplasia	2		2	1	1					4	3	3	1	1		4				4	4		3			**26 2.5**
Ulcer																										**2 1.5**
Endometrium, Hyperplasia, Cystic	2		3	1	3	3					2		1	2					2			2	1	3	2	**27 2.0**
Vagina	+	+	+	+	+	+	+		+	+	+	+	+	+	+	+	+		+		+	+	+	+	+	**44**
HEMATOPOIETIC SYSTEM																										
Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Hemorrhage																										**1 2.0**

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HARLAN SPRAGUE DAWLEY RATS FEMALE 10000 ppm female	DAY ON TEST	073 1	073 1	073 1	073 2	073 2	073 2	071 0	073 0	073 6	066 5	073 6	063 4	073 1	073 1	022 5	072 5	073 2	055 5	073 2	073 5	073 5	073 5	073 6	073 6	040 6		
	ANIMAL ID	004 26	004 27	004 28	004 29	004 30	004 31	004 32	004 33	004 34	004 35	004 36	004 37	004 38	004 39	004 40	004 41	004 42	004 43	004 44	004 45	004 46	004 47	004 48	004 49	004 50	* TOTALS	
Hypercellularity		3		2	2	2	3	3	2	2	4	2	4		1	4	4	4	4	4	4	4	2	2	2	4	**42**	**2.9**
Lymph Node		+																+		+							**5**	
Lumbar, Hyperplasia, Plasma Cell															3					3							**1**	**3.0**
Lymph Node, Mandibular		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Hyperplasia, Plasma Cell																											**1**	**2.0**
Lymph Node, Mesenteric		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Hemorrhage																						2					**1**	**2.0**
Spleen		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Extramedullary Hematopoiesis		2	2	2	2	2	1	3	3	2	3	2		2	2	4	3		3	3	2	2	3	2	2	3	**45**	**2.3**
Hemorrhage													4														**1**	**4.0**
Pigment		1	1	2	2	2	1	1	2	2		1		1	2						1	1		2	2	1	**33**	**1.5**
White Pulp, Atrophy								2											3								**7**	**2.9**
Thymus		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**48**	
Atrophy		2	2	2	2	2	1	2	4	2	2			2	2	1			3	2	2	3	2	4		2	**38**	**2.3**
Ectopic Tissue, Parathyroid Gland																											**1**	**2.0**
INTEGUMENTARY SYSTEM																												
Mammary Gland		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Hyperplasia									3	3					1			3					1				**9**	**2.0**
Skin		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
MUSCULOSKELETAL SYSTEM																												

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DAY ON TEST / HARLAN SPRAGUE DAWLEY RATS FEMALE / 10000 ppm female / ANIMAL ID	0731 0426	0731 0427	0731 0428	0732 0429	0732 0430	0732 0431	0710 0432	0730 0433	0736 0434	0665 0435	0736 0436	0634 0437	0731 0438	0731 0439	0225 0440	0725 0441	0732 0442	0555 0443	0732 0444	0735 0445	0735 0446	0735 0447	0736 0448	0736 0449	0406 0450	* TOTALS	
Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Skeletal Muscle																										**1**	
NERVOUS SYSTEM																											
Brain	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Gliosis																										**1**	**2.0**
Hemorrhage												2					1									**3**	**1.7**
Necrosis																										**1**	**3.0**
Peripheral Nerve																										**1**	
RESPIRATORY SYSTEM																											
Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Cyst, Squamous, Multiple								X																		**1**	
Cyst, Squamous																							X			**1**	
Infiltration Cellular, Histiocyte	4	2	3	2	2	3	2	2	3	2	3	2	2	2		3	2	2	2	4	4	3	3	3	3	**48**	**2.7**
Inflammation, Granulomatous, Focal	1							2											1					2		**6**	**1.3**
Inflammation, Chronic Active																				2						**1**	**2.0**
Alveolus, Epithelium, Hyperplasia																				2						**1**	**2.0**
Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Inflammation, Acute																										**4**	**1.3**
Epithelium, Accumulation, Hyaline Droplet	3	4	4	3	4	3	4	3	3	3	2		4	1	1	4	4	4	3	3	4	4	4		2	**47**	**3.0**
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
SPECIAL SENSES SYSTEM																											

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DAY ON TEST	073 1	073 1	073 1	073 2	073 2	073 2	071 0	073 0	073 6	066 5	073 6	063 4	073 1	073 1	022 5	072 5	073 2	055 5	073 2	073 5	073 5	073 5	073 6	073 6	040 6	
HARLAN SPRAGUE DAWLEY RATS FEMALE																										
10000 ppm female																										
ANIMAL ID	004 26	004 27	004 28	004 29	004 30	004 31	004 32	004 33	004 34	004 35	004 36	004 37	004 38	004 39	004 40	004 41	004 42	004 43	004 44	004 45	004 46	004 47	004 48	004 49	004 50	*** TOTALS**
Eye	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Retina, Degeneration				2												2										**2 2.0**
Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
URINARY SYSTEM																										
Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Nephropathy, Chronic Progressive	1	1	1	1	1	1	1						1	1		1			1	1	1	1	1	1		**34 1.1**
Renal Tubule, Accumulation, Hyaline Droplet															1											**1 1.0**
Renal Tubule, Hyperplasia										1																**1 1.0**
Renal Tubule, Hyperplasia, Atypical			1																							**2 1.0**
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**49**

* .. 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

20000 ppm female

DAY ON TEST	0658	0736	0736	0736	0600	0732	0732	0580	0732	0602	0673	0732	0616	0731	0731	0731	0584	0732	0732	0402	0735	0735	0620	0574	0732	
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...)**
ALIMENTARY SYSTEM																										
Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Inflammation, Suppurative																										
Necrosis																										
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Mineral																										
Parasite Metazoan																										
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Basophilic Focus		X			X		X					X										X				
Clear Cell Focus				X			X		X			X				X						X				
Eosinophilic Focus		X					X		X					X	X	X		X			X	X			X	
Hepatodiaphragmatic Nodule									X																	
Mixed Cell Focus				X														X	X							
Necrosis	2										3															
Pigment								1			1					1		1	1			1		1	1	
Bile Duct, Cyst	X	X	X	X			X									X		X							X	
Bile Duct, Hyperplasia			1						1					1		1		1							1	

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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 / HARLAN SPRAGUE DAWLEY RATS FEMALE / 20000 ppm female / ANIMAL ID	0658 0451	0736 0452	0736 0453	0736 0454	0600 0455	0732 0456	0732 0457	0580 0458	0732 0459	0602 0460	0673 0461	0732 0462	0616 0463	0731 0464	0731 0465	0731 0466	0584 0467	0732 0468	0732 0469	0402 0470	0735 0471	0735 0472	0620 0473	0574 0474	0732 0475	females (cont...)
Hepatocyte, Cytoplasmic Alteration																		1			1					
Hepatocyte, Hypertrophy																										
Hepatocyte, Regeneration	1																									
Mesentery										+	+												+			
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Hyperplasia																										
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Inflammation, Chronic Active																							2			
Epithelium, Hyperplasia																							2			
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Inflammation, Chronic Active																							1			
Mineral																										
CARDIOVASCULAR SYSTEM																										
Blood Vessel	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Cardiomyopathy						1																				1
Mineral			1																							
ENDOCRINE SYSTEM																										
Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Angiectasis	2											2														

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DAY ON TEST / HARLAN SPRAGUE DAWLEY RATS FEMALE / 20000 ppm female / ANIMAL ID	0658 0451	0736 0452	0736 0453	0736 0454	0600 0455	0732 0456	0732 0457	0580 0458	0732 0459	0602 0460	0673 0461	0732 0462	0616 0463	0731 0464	0731 0465	0731 0466	0584 0467	0732 0468	0732 0469	0402 0470	0735 0471	0735 0472	0620 0473	0574 0474	0732 0475	females (cont...)
Degeneration, Cystic																					1					
Hyperplasia, Focal						1																			1	
Hypertrophy, Focal						1	1	1	1							2	2	1								
Necrosis										4																
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hyperplasia, Focal												4														
Necrosis										4																
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hyperplasia																										
Metaplasia, Hepatocyte																										
Parathyroid Gland	M	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Pars Distalis, Hyperplasia	2		2		1	1								4		2					4		2	1	3	
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
C-cell, Hyperplasia					4	2		4															2		4	
GENERAL BODY SYSTEM																										
NONE																										
GENITAL SYSTEM																										
Clitoral Gland	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Ovary	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Atrophy		3	2		3						4	2	3	2	2	2		2	3		2		2	3	3	

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DAY ON TEST	0658	0736	0736	0736	0600	0732	0732	0580	0732	0602	0673	0732	0616	0731	0731	0731	0584	0732	0732	0402	0735	0735	0620	0574	0732	
HARLAN SPRAGUE DAWLEY RATS FEMALE																										
20000 ppm female																										
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...)**
Follicle, Cyst			X			X			X			X	X		X											
Germinal Epithelium, Hyperplasia																										
Granulosa Cell, Hyperplasia														2												
Paraovarian Tissue, Cyst														X												
Uterus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Cyst, Squamous						X																				
Dilation																										
Hyperplasia, Atypical						1						1				2	2	3			3				2	
Inflammation, Suppurative		2	2												2	2										
Inflammation, Chronic Active																										
Squamous Metaplasia		1			1					1		1	1		3	1		2	2		2				2	
Cervix, Cyst, Squamous																										
Cervix, Hyperplasia, Squamous																										
Cervix, Inflammation, Suppurative							2																			
Cervix, Necrosis							2																			
Endometrium, Hyperplasia, Cystic			2		2							2				2	2	2			3				2	
Vagina	+	+	+	+		+	+	+	+	+	+		+	+	+	+	+	+	+	+	+	+	+	+	+	
HEMATOPOIETIC SYSTEM																										
Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hypercellularity	4	2		2	4	2	3	4		4	4	3	4		3	2	3	2	2	2	2	1	4	3	1	
Necrosis																										
Lymph Node	+							+		+	+												+			
Axillary, Hyperplasia, Plasma Cell	2							2																		
Lymph Node, Mandibular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	

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HARLAN SPRAGUE DAWLEY RATS FEMALE																										
20000 ppm female 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...)**
Atrophy																							2	3		
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Extramedullary Hematopoiesis	3	2	1	2	3	2	1	3	1	3	2	3	3	2	2	2	4	1	2		2	2	3	1	2	
Infarct		1																								
Pigment		1	1	1		1			1	1		1		2		2		1	2	2	2	1	1	2	1	
White Pulp, Atrophy										2	3									2				4		
Thymus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	
Atrophy	2	2	1	3		3	2	3	4	4	4	1	2	2	2	1		3	2	2	2	2	4	4	1	
Ectopic Thyroid					2																					
Ectopic Tissue, Parathyroid Gland					1				2																	
INTEGUMENTARY SYSTEM																										
Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hyperplasia				2		1	3		4					2								1				
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
MUSCULOSKELETAL SYSTEM																										
Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Skeletal Muscle																								+		
NERVOUS SYSTEM																										

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DAY ON TEST / HARLAN SPRAGUE DAWLEY RATS FEMALE / 20000 ppm female / ANIMAL ID	0658 00451	0736 00452	0736 00453	0736 00454	0600 00455	0732 00456	0732 00457	0580 00458	0732 00459	0602 00460	0673 00461	0732 00462	0616 00463	0731 00464	0731 00465	0731 00466	0584 00467	0732 00468	0732 00469	0402 00470	0735 00471	0735 00472	0620 00473	0574 00474	0732 00475	females (cont...)
Brain	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
RESPIRATORY SYSTEM																										
Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Infiltration Cellular, Histiocyte	1	4	4	4	2	2	4	2	3	2	2	4	4	2	2	2	4	2	3	3	4	3	3	3	2	
Inflammation, Granulomatous, Focal																					1					
Inflammation, Acute																	3									
Alveolus, Epithelium, Hyperplasia																										
Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Inflammation, Acute	1																									
Epithelium, Accumulation, Hyaline Droplet	3	3	4	3	3	2	2	3	2	2	2	4	3	2	3	3	3	4	4	2	2	4	3	2	4	
Olfactory Epithelium, Metaplasia, Squamous																										
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
SPECIAL SENSES SYSTEM																										
Eye	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Retina, Degeneration																										
Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
URINARY SYSTEM																										
Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Infarct										2																
Inflammation, Suppurative			2																		1				1	
Nephropathy, Chronic Progressive	1	1		1	1	1	1			1		1		1		1		1	1	1	1	1			1	

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DAY ON TEST	0658	0736	0736	0736	0600	0732	0732	0580	0732	0602	0673	0732	0616	0731	0731	0731	0584	0732	0732	0402	0735	0735	0620	0574	0732	
HARLAN SPRAGUE DAWLEY RATS FEMALE																										
20000 ppm female 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...)**
Pigment																						1				
Pelvis, Inflammation, Chronic Active		2																								
Renal Tubule, Hyperplasia																										
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Urothelium, Hyperplasia																										

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

DAY ON TEST / HARLAN SPRAGUE DAWLEY RATS FEMALE / 20000 ppm female / ANIMAL ID	0732 0476	0732 0477	0732 0478	0618 0479	0735 0480	0622 0481	0735 0482	0377 0483	0735 0484	0596 0485	0735 0486	0731 0487	0731 0488	0731 0489	0350 0490	0736 0491	0736 0492	0736 0493	0736 0494	0735 0495	0735 0496	0735 0497	0596 0498	0670 0499	0735 0500	* TOTALS	
ALIMENTARY SYSTEM																											
Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Inflammation, Suppurative				4																						**1**	**4.0**
Necrosis				3																						**1**	**3.0**
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	**49**	
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Mineral								1																		**1**	**1.0**
Parasite Metazoan			X														X				X					**3**	
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Basophilic Focus			X										X	X		X									X	**10**	
Clear Cell Focus					X		X				X	X		X				X		X						**13**	
Eosinophilic Focus	X	X	X		X		X		X		X	X	X			X	X		X		X	X		X		**25**	
Hepatodiaphragmatic Nodule																										**1**	
Mixed Cell Focus		X										X		X			X									**7**	
Necrosis																								3		**3**	**2.7**
Pigment	1	1			1	1	1		1			1	1	1		2	1	1	1			1		1		**23**	**1.0**
Bile Duct, Cyst	X	X	X		X		X		X			X		X		X	X			X	X			X		**21**	
Bile Duct, Hyperplasia		1					1		1					1					1							**11**	**1.0**

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DAY ON TEST / HARLAN SPRAGUE DAWLEY RATS FEMALE / 20000 ppm female / ANIMAL ID	0732 0476	0732 0477	0732 0478	0618 0479	0735 0480	0622 0481	0735 0482	0377 0483	0735 0484	0596 0485	0735 0486	0731 0487	0731 0488	0731 0489	0350 0490	0736 0491	0736 0492	0736 0493	0736 0494	0735 0495	0735 0496	0735 0497	0596 0498	0670 0499	0735 0500	* TOTALS	
Hepatocyte, Cytoplasmic Alteration	1								1																	**4**	**1.0**
Hepatocyte, Hypertrophy																								2		**1**	**2.0**
Hepatocyte, Regeneration																										**1**	**1.0**
Mesentery				+																						**4**	
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	**49**	
Hyperplasia																								2		**1**	**2.0**
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Inflammation, Chronic Active																										**1**	**2.0**
Epithelium, Hyperplasia																										**1**	**2.0**
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Inflammation, Chronic Active																										**1**	**1.0**
Mineral									1																2	**2**	**1.5**
CARDIOVASCULAR SYSTEM																											
Blood Vessel	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Cardiomyopathy								1		1						1						1				**6**	**1.0**
Mineral																										**1**	**1.0**
ENDOCRINE SYSTEM																											
Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Angiectasis																										**2**	**2.0**

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Degeneration, Cystic						1			1	1	1															**5**	**1.0**
Hyperplasia, Focal																										**2**	**1.0**
Hypertrophy, Focal																				1		1				**9**	**1.2**
Necrosis																										**1**	**4.0**
Adrenal Medulla	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**48**	
Hyperplasia, Focal																										**1**	**4.0**
Necrosis																										**1**	**4.0**
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Hyperplasia									1																	**1**	**1.0**
Metaplasia, Hepatocyte			1																							**1**	**1.0**
Parathyroid Gland	+	+	+	+	+	+	+	M	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	**46**	
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	**49**	
Pars Distalis, Hyperplasia	4		2		3				1				3			3			3	1			1		3	**20**	**2.3**
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	**49**	
C-cell, Hyperplasia					4									4		1	3	1								**10**	**2.9**

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

Clitoral Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**49**	
Ovary	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Atrophy	2	3	2				2		2			2	3	2		2	2		2			2		3		**28**	**2.4**

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Follicle, Cyst	X				X								X									X			X	**11**	
Germinal Epithelium, Hyperplasia	1																									**1**	**1.0**
Granulosa Cell, Hyperplasia																										**1**	**2.0**
Paraovarian Tissue, Cyst																			X							**2**	
Uterus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Cyst, Squamous									X																	**2**	
Dilation											4								2					4		**3**	**3.3**
Hyperplasia, Atypical										2																**8**	**2.0**
Inflammation, Suppurative		3												2					4							**7**	**2.4**
Inflammation, Chronic Active																								1		**1**	**1.0**
Squamous Metaplasia	1	1	1				2		2		4	1	2			1	1		2			2		2		**24**	**1.6**
Cervix, Cyst, Squamous														X												**1**	
Cervix, Hyperplasia, Squamous																						3				**1**	**3.0**
Cervix, Inflammation, Suppurative											2								3							**3**	**2.3**
Cervix, Necrosis																										**1**	**2.0**
Endometrium, Hyperplasia, Cystic	3	3	3				2		1			1		2		3	1		4			2				**19**	**2.2**
Vagina	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**48**	
HEMATOPOIETIC SYSTEM																											
Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Hypercellularity	2	1		3			2	2		4	2	3	3	2	2	2	2		3	2			4	3	2	**40**	**2.6**
Necrosis																								2		**1**	**2.0**
Lymph Node				+																				+		**7**	
Axillary, Hyperplasia, Plasma Cell																										**2**	**2.0**
Lymph Node, Mandibular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	**49**	

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Atrophy																										**2**	**2.5**
Lymph Node, Mesenteric	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**49**	
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Extramedullary Hematopoiesis	2	2	2		2	1	2	1	2	3	2	2	2	2		2	2	2	2	2	2	2	3		2	**46**	**2.1**
Infarct																										**1**	**1.0**
Pigment	1	2	2	1	2	2	2	2	1		1	2	1	2	2	1	1	2	1	2	2	1			1	**39**	**1.5**
White Pulp, Atrophy				4		3		4							2											**8**	**3.0**
Thymus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	**48**	
Atrophy	2	2	1		2	1	3	2	3		4	1	3	2	2	2	1	2	2	2	2	2		3	2	**45**	**2.3**
Ectopic Thyroid																										**1**	**2.0**
Ectopic Tissue, Parathyroid Gland																										**2**	**1.5**
INTEGUMENTARY SYSTEM																											
Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Hyperplasia					1						2	1				3	2	2		2	1				4	**15**	**2.1**
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
MUSCULOSKELETAL SYSTEM																											
Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Skeletal Muscle				+																						**2**	
NERVOUS SYSTEM																											

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Brain	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	**49**		
RESPIRATORY SYSTEM																												
Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**		
Infiltration Cellular, Histiocyte	2	3	4	4	2	2	3	1	2	3	2	2	3	3	1	2	3	2	3	3	3	3	3	3	3		**50**	**2.7**
Inflammation, Granulomatous, Focal			1						1												1	1					**5**	**1.0**
Inflammation, Acute																											**1**	**3.0**
Alveolus, Epithelium, Hyperplasia	1																										**1**	**1.0**
Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**		
Inflammation, Acute	1	1							1							1			1								**6**	**1.0**
Epithelium, Accumulation, Hyaline Droplet	3	3	2	3	2	3	3		2	2	3	4	3	3		4	3	3	3	4		4	3		3		**46**	**2.9**
Olfactory Epithelium, Metaplasia, Squamous																				2							**1**	**2.0**
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**		
SPECIAL SENSES SYSTEM																												
Eye	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	**49**		
Retina, Degeneration																					2						**1**	**2.0**
Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**		
URINARY SYSTEM																												
Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**		
Infarct			1											1												**3**	**1.3**
Inflammation, Suppurative	1		2						1									2				1				**8**	**1.4**
Nephropathy, Chronic Progressive	1	1	1		1		1	1	1		1	1	1	1		1	1	1	1		1	1	1	1	1	**36**	**1.0**

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HARLAN SPRAGUE DAWLEY RATS FEMALE																										
20000 ppm female																										
ANIMAL ID	00476	00477	00478	00479	00480	00481	00482	00483	00484	00485	00486	00487	00488	00489	00490	00491	00492	00493	00494	00495	00496	00497	00498	00499	00500	*** TOTALS**
Pigment																										**1 1.0**
Pelvis, Inflammation, Chronic Active																										**1 2.0**
Renal Tubule, Hyperplasia				2																						**1 2.0**
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Urothelium, Hyperplasia											4															**1 4.0**

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