Final 1_Core Only

NTP Study Number:	C20614B		
Lock Date:	01/10/2012		
Cage Range:	ALL		
Date Range:	ALL		
Reasons For Removal:	25021 TSAC	25020 NATD	25019 MSAC
Removal Date Range:	ALL		
Treatment Groups:	Include ALL		
Study Gender:	Male		
TDMSE Version:	3.0.2.3_002		
PWG Approval Date:	07/24/2018		

HARLAN SPRAGUE DAWLEY RATS MALE
0/0 ppm

DAY ON TEST	074 3	074 3	074 7	074 7	071 8	074 5	067 5	074 7	068 9	074 5	062 4	069 7	074 3	071 8	030 4	074 7	074 5	074 5	074 4	058 4	074 6	074 6	074 4	074 4	074 3	
ANIMAL ID	000 01	000 02	000 03	000 04	000 05	000 06	000 07	000 08	000 09	000 10	000 11	000 12	000 13	000 14	000 15	000 16	000 17	000 18	000 19	000 20	000 21	000 22	000 23	000 24	000 25	**males (cont...)**
ALIMENTARY SYSTEM																										
Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Intestine Large, Cecum	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Intestine Large, Colon	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Parasite Metazoan								X								X			X			X				
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Intestine Small, Ileum	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Intestine Small, Jejunum	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Basophilic Focus													X													
Clear Cell Focus		X	X	X		X				X		X	X	X		X	X	X	X		X	X	X	X		
Degeneration, Cystic				1																						
Eosinophilic Focus																	X									
Extramedullary Hematopoiesis						1																				
Hepatodiaphragmatic Nodule																										
Inflammation, Focal	1	1	1			1																		1	1	
Inflammation, Chronic Active													1													
Necrosis				1							2															
Bile Duct, Hyperplasia			1	1		1		1		1		1	1				1	1	1			1	1	2		
Hepatocyte, Single Cell Death							1																			

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

DAY ON TEST / HARLAN SPRAGUE DAWLEY RATS MALE 0/0 ppm / ANIMAL ID	0743 0001	0743 0002	0747 0003	0747 0004	0718 0005	0745 0006	0675 0007	0747 0008	0689 0009	0745 0010	0624 0011	0697 0012	0743 0013	0718 0014	0304 0015	0747 0016	0745 0017	0745 0018	0744 0019	0584 0020	0746 0021	0746 0022	0744 0023	0744 0024	0743 0025	males (cont...)
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Acinus, Atrophy		1								1	1								1						1	
Acinus, Hyperplasia						2				4			4			4	2	2		2	4				2	
Salivary Glands	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Atrophy																										
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Inflammation									2																	
Ulcer																										
Epithelium, Hyperplasia, Squamous									2									3								
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Mineral																										
CARDIOVASCULAR SYSTEM																										
Blood Vessel	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Inflammation	2																								2	
Inflammation, Chronic							2			2																
Mineral																										
Aorta, Mineral	1																									
Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Cardiomyopathy	1			2			1			2		1				2			1	1		2		2	2	
Myocardium, Inflammation														2												
Schwann Cell, Hyperplasia																		1								
ENDOCRINE SYSTEM																										

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ANIMAL ID	000 01	000 02	000 03	000 04	000 05	000 06	000 07	000 08	000 09	000 10	000 11	000 12	000 13	000 14	000 15	000 16	000 17	000 18	000 19	000 20	000 21	000 22	000 23	000 24	000 25	**males (cont...)**
Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Degeneration, Cystic						1																			1	
Hypertrophy	1	1	2					1		1						1					1	2	1		1	
Zona Fasciculata, Hyperplasia																										
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hyperplasia	2		1			1					2						2	1						2	3	
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hyperplasia																			2							
Parathyroid Gland	+	M	M	+	M	+	+	M	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	M	
Hyperplasia										2																
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Pars Distalis, Hyperplasia	4	2		3		3				3			1	2		2	3		2	4	1	1		1	3	
Pars Intermedia, Hypertrophy				3																						
Thyroid Gland	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
C-cell, Hyperplasia	2		2			2							2			4	3									
Follicular Cell, Hypertrophy	1								3		1														1	

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

Epididymis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	

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Preputial Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Inflammation																										
Prostate	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Epithelium, Ventral, Hyperplasia										1	1		1													
Ventral, Inflammation, Chronic Active								1									1									
Seminal Vesicle	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Testes	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Edema																						3				
Bilateral, Germinal Epithelium, Degeneration										2							4									
Germinal Epithelium, Degeneration												1			4			1								
Interstitial Cell, Hyperplasia																										
HEMATOPOIETIC SYSTEM																										
Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hyperplasia				2			3		4																	
Lymph Node		+									+						+									
Deep Cervical, Inflammation, Granulomatous		3																								
Mediastinal, Hyperplasia, Lymphoid																	1									
Lymph Node, Mandibular	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Ectasia	2																									
Hyperplasia, Lymphoid										3							2									
Infiltration Cellular, Plasma Cell																			2							
Lymph Node, Mesenteric	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	

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Hyperplasia, Lymphoid			2																							
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Extramedullary Hematopoiesis	1		1	2		2	3			1		2	1			2		1	2	2	2	1	2	1	2	
Pigment		1			1								1	2	2		1			1					1	
Lymphoid Follicle, Atrophy							3							3												
Thymus	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	
Atrophy	3	2	3	3	3	2	3	2	4	1			3	4	1	2	2	3	3	2	2	2	3	1	2	
INTEGUMENTARY SYSTEM																										
Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Cyst Epithelial Inclusion																										
Foreign Body		X												X												
Inflammation		4												4						3						
Ulcer																				3						
Epidermis, Hyperplasia																				2						
MUSCULOSKELETAL SYSTEM																										
Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hyperostosis																										
Skeletal Muscle						+											+									
NERVOUS SYSTEM																										
Brain	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	

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HARLAN SPRAGUE DAWLEY RATS MALE	3	3	7	7	8	5	5	7	9	5	4	7	3	8	4	7	5	5	4	4	6	6	4	4	3	
0/0 ppm 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...)**
Compression																										
Gliosis, Focal																										
Necrosis									3																	
RESPIRATORY SYSTEM																										
Larynx				+																						
Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Foreign Body	X																									
Infiltration Cellular, Histiocyte	3	2	1	1		3	1		1			4				3	1	3		1			2		1	
Inflammation, Granulomatous, Multifocal	3	1				1												1								
Inflammation, Chronic Active												3		1						1						
Alveolar Epithelium, Hyperplasia																										
Alveolar Epithelium, Hypertrophy																										
Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Olfactory Epithelium, Accumulation, Hyaline Droplet	2	1	2		1	3	1	2	1	1	1		3	2	2	1	2	1	1	1	3	2	2	3	2	
Olfactory Epithelium, Inflammation												1														
Olfactory Epithelium, Respiratory Epithelium, Inflammation														4												
Respiratory Epithelium, Inflammation									1	1														1		
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
SPECIAL SENSES SYSTEM																										
Eye	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Retina, Degeneration											1	1				1										

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HARLAN SPRAGUE DAWLEY RATS MALE																										
0/0 ppm																										
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...)**
Retina, Inflammation											1															
Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hyperplasia																									2	
Lacrimal Gland				+																						
URINARY SYSTEM																										
Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Infarct																			1							
Mineral																										
Nephropathy, Chronic Progressive	2	2	3	2	2	2	4	2	2	4	4	4	3	1	1	3	2	1	2	3	2	4	2	3	3	
Cortex, Cyst																									X	
Papilla, Urothelium, Hyperplasia																										
Urinary Bladder	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	

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HARLAN SPRAGUE DAWLEY RATS MALE	3	7	7	4	4	4	7	3	3	6	6	5	4	6	6	5	2	6	3	7	7	4	5	5	4	4	
0/0 ppm ANIMAL ID	00026	00027	00028	00029	00030	00031	00032	00033	00034	00035	00036	00037	00038	00039	00040	00041	00042	00043	00044	00045	00046	00047	00048	00049	00050	*** TOTALS**	
ALIMENTARY SYSTEM																											
Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**49**	
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**49**	
Parasite Metazoan			X			X								X												**7**	
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**49**	
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**49**	
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Basophilic Focus																										**1**	
Clear Cell Focus	X	X	X		X	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	**3**	
Extramedullary Hematopoiesis																										**1**	**1.0**
Hepatodiaphragmatic Nodule														X												**1**	
Inflammation, Focal									1	1	1	1		1						1		1	1		1	**15**	**1.0**
Inflammation, Chronic Active																										**1**	**1.0**
Necrosis																										**2**	**1.5**
Bile Duct, Hyperplasia	1					1	1		1	1		1	1	2						1			1		1	**24**	**1.1**
Hepatocyte, Single Cell Death																										**1**	**1.0**

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Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Acinus, Atrophy			1			1								1		1	1			1		1			2	**13**	**1.1**
Acinus, Hyperplasia	4					3		2			1					3		4					2	1	3	**18**	**2.7**
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**49**	
Atrophy														2				1								**2**	**1.5**
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Inflammation							1														3					**3**	**2.0**
Ulcer																					4					**1**	**4.0**
Epithelium, Hyperplasia, Squamous		1					2														2					**5**	**2.0**
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Mineral												2														**1**	**2.0**
CARDIOVASCULAR SYSTEM																											
Blood Vessel	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Inflammation					2													1					2			**5**	**1.8**
Inflammation, Chronic	2											2														**4**	**2.0**
Mineral												2														**1**	**2.0**
Aorta, Mineral																										**1**	**1.0**
Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Cardiomyopathy	2	1			1	1				2	1	3		2	1	1		3	1	2	1	1	2	1	1	**29**	**1.5**
Myocardium, Inflammation																										**1**	**2.0**
Schwann Cell, Hyperplasia																										**1**	**1.0**
ENDOCRINE SYSTEM																											

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DAY ON TEST / HARLAN SPRAGUE DAWLEY RATS MALE 0/0 ppm / ANIMAL ID	074 43 00026	074 47 00027	074 47 00028	043 44 00029	074 44 00030	074 44 00031	069 97 00032	074 43 00033	074 43 00034	074 46 00035	074 46 00036	065 55 00037	074 44 00038	074 46 00039	074 46 00040	074 45 00041	030 02 00042	074 46 00043	013 37 00044	074 47 00045	019 94 00046	074 45 00047	074 45 00048	074 44 00049	074 44 00050	* TOTALS	
Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Degeneration, Cystic											1							1		1						**5**	**1.0**
Hypertrophy	2	3			1			1								1				1		1		2		**18**	**1.3**
Zona Fasciculata, Hyperplasia														1				1								**2**	**1.0**
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Hyperplasia							1			2					1					1				3		**13**	**1.7**
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Hyperplasia			2																					1		**3**	**1.7**
Parathyroid Gland	M	+	M	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	41	
Hyperplasia												3														**2**	**2.5**
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Pars Distalis, Hyperplasia		4			1	2	1		3		3				2	2										**23**	**2.3**
Pars Intermedia, Hypertrophy																										**1**	**3.0**
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49	
C-cell, Hyperplasia	3					2		2										1				4				**11**	**2.5**
Follicular Cell, Hypertrophy	1								1						1				3							**8**	**1.5**

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

Epididymis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	

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HARLAN SPRAGUE DAWLEY RATS MALE
0/0 ppm

DAY ON TEST	074 3	074 7	074 7	043 4	074 4	074 4	069 7	074 3	074 3	074 6	074 6	065 5	074 4	074 6	074 6	074 5	030 2	074 6	013 7	074 7	019 4	074 5	074 5	074 4	074 4	
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
Preputial Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Inflammation																	3									1 3.0
Prostate	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Epithelium, Ventral, Hyperplasia																							1	1		5 1.0
Ventral, Inflammation, Chronic Active	1									1																4 1.0
Seminal Vesicle	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Testes	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Edema																		3								2 3.0
Bilateral, Germinal Epithelium, Degeneration											3	3		4									1			6 2.8
Germinal Epithelium, Degeneration	3															1		1		2					1	8 1.8
Interstitial Cell, Hyperplasia														2												1 2.0
HEMATOPOIETIC SYSTEM																										
Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Hyperplasia																	3									4 3.0
Lymph Node																										3
Deep Cervical, Inflammation, Granulomatous																										1 3.0
Mediastinal, Hyperplasia, Lymphoid																										1 1.0
Lymph Node, Mandibular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Ectasia	2																						2			3 2.0
Hyperplasia, Lymphoid																										2 2.5
Infiltration Cellular, Plasma Cell	2																									2 2.0
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49

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DAY ON TEST / HARLAN SPRAGUE DAWLEY RATS MALE 0/0 ppm / ANIMAL ID	074 43 00026	074 47 00027	074 47 00028	043 44 00029	074 44 00030	074 44 00031	069 97 00032	074 43 00033	074 43 00034	074 46 00035	074 46 00036	065 55 00037	074 44 00038	074 46 00039	074 46 00040	074 45 00041	030 02 00042	074 46 00043	013 77 00044	074 47 00045	019 94 00046	074 45 00047	074 45 00048	074 44 00049	074 44 00050	* TOTALS		
Hyperplasia, Lymphoid																										**1**	**2.0**
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**		
Extramedullary Hematopoiesis	1	1	1		1	1		2	2	1	1		2	2	2	2	2	2		1		1	2	2	2		**37**	**1.6**
Pigment	1		1	2		1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1		2	1	1		**30**	**1.2**
Lymphoid Follicle, Atrophy							3																				**3**	**3.0**
Thymus	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**48**		
Atrophy	3	4	3	3	2	2	4	2	3		3	4	2	2	1	2		2		3	2	3	2	3	3		**45**	**2.5**
INTEGUMENTARY SYSTEM																												
Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**		
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**		
Cyst Epithelial Inclusion																		X									**1**	
Foreign Body																											**2**	
Inflammation									4																		**4**	**3.8**
Ulcer																											**1**	**3.0**
Epidermis, Hyperplasia																											**1**	**2.0**
MUSCULOSKELETAL SYSTEM																												
Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**		
Hyperostosis												2															**1**	**2.0**
Skeletal Muscle																										**2**		
NERVOUS SYSTEM																												
Brain	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**		

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DAY ON TEST / HARLAN SPRAGUE DAWLEY RATS MALE 0/0 ppm / ANIMAL ID	074 3 000 26	074 7 000 27	074 7 000 28	043 4 000 29	074 4 000 30	074 4 000 31	069 7 000 32	074 3 000 33	074 3 000 34	074 6 000 35	074 6 000 36	065 5 000 37	074 4 000 38	074 6 000 39	074 6 000 40	074 5 000 41	030 2 000 42	074 6 000 43	013 7 000 44	074 7 000 45	019 4 000 46	074 5 000 47	074 5 000 48	074 4 000 49	074 4 000 50	* TOTALS	
Compression																					1					**1**	**1.0**
Gliosis, Focal								1																		**1**	**1.0**
Necrosis							2																			**2**	**2.5**
RESPIRATORY SYSTEM																											
Larynx																										**1**	
Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Foreign Body																										**1**	
Infiltration Cellular, Histiocyte	1		2				2		1				2		1							1		1	1	**23**	**1.7**
Inflammation, Granulomatous, Multifocal			1			1			1																	**7**	**1.3**
Inflammation, Chronic Active					1										1											**5**	**1.4**
Alveolar Epithelium, Hyperplasia																						4				**1**	**4.0**
Alveolar Epithelium, Hypertrophy												1														**1**	**1.0**
Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Olfactory Epithelium, Accumulation, Hyaline Droplet	1	4	3		2	2			2	2	2		2	2	1	1	1	1				2		1	2	**40**	**1.8**
Olfactory Epithelium, Inflammation																										**1**	**1.0**
Olfactory Epithelium, Respiratory Epithelium, Inflammation																										**1**	**4.0**
Respiratory Epithelium, Inflammation												2														**4**	**1.3**
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
SPECIAL SENSES SYSTEM																											
Eye	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Retina, Degeneration																										**3**	**1.0**

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HARLAN SPRAGUE DAWLEY RATS MALE																										
0/0 ppm 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**
Retina, Inflammation																										**1 1.0**
Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Hyperplasia		1																								**2 1.5**
Lacrimal Gland																										**1**
URINARY SYSTEM																										
Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Infarct																										**1 1.0**
Mineral												2														**1 2.0**
Nephropathy, Chronic Progressive	4	2	1	2	3	1	2	1	2	3	2	4	2	3	4	2		4		3	3	3	4	2	2	**48 2.5**
Cortex, Cyst																										**1**
Papilla, Urothelium, Hyperplasia	1				1																					**2 1.0**
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**49**

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DAY ON TEST / HARLAN SPRAGUE DAWLEY RATS MALE / 300/0 ppm / ANIMAL ID	074 3 00061	074 3 00062	074 5 00063	074 5 00064	074 7 00065	074 7 00066	074 4 00067	074 2 00068	074 5 00069	074 5 00070	074 6 00071	074 6 00072	074 4 00073	058 3 00074	074 6 00075	074 6 00076	074 7 00077	074 7 00078	060 0 00079	036 6 00080	073 9 00081	047 8 00082	056 8 00083	074 6 00084	073 9 00085	**males (cont...)**
ALIMENTARY SYSTEM																										
Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Erosion																										
Inflammation																										
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Parasite Metazoan					X	X									X		X		X							
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Clear Cell Focus	X	X	X	X	X	X	X		X	X	X	X	X		X	X	X	X						X		
Eosinophilic Focus												X												X		
Extramedullary Hematopoiesis														1									1			
Inflammation, Focal	1	1			1													1		1				1		
Necrosis							1																			
Bile Duct, Cyst																										
Bile Duct, Hyperplasia	1	1	1	1			1		1	1		1						1	2		2	1	2	1		
Endothelial Cell, Hypertrophy, Diffuse																							3			
Hepatocyte, Hypertrophy																							4			

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DAY ON TEST / HARLAN SPRAGUE DAWLEY RATS MALE 300/0 ppm / ANIMAL ID	074 3 00061	074 3 00062	074 5 00063	074 5 00064	074 7 00065	074 7 00066	074 4 00067	074 2 00068	074 5 00069	074 5 00070	074 6 00071	074 6 00072	074 4 00073	058 3 00074	074 6 00075	074 6 00076	074 7 00077	074 7 00078	060 0 00079	036 6 00080	073 9 00081	047 8 00082	056 8 00083	074 6 00084	073 9 00085	**males (cont...)**
Hepatocyte, Single Cell Death																										
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hemorrhage																										
Inflammation																										
Inflammation, Chronic Active																										
Acinus, Atrophy			1								2							2					2	2		
Acinus, Hyperplasia		1			1		3	2		4	1	2	1			4		4			2			4		
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Inflammation														2												
Epithelium, Erosion														1												
Epithelium, Hyperplasia, Squamous		2												2												
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
CARDIOVASCULAR SYSTEM																										
Blood Vessel	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Inflammation	2							2								2			1							
Inflammation, Chronic													1		2			1			3					
Mineral																										
Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Cardiomyopathy		1		1	1		1	1		2	1		2	2			2	1	1	1	3					
Mineral																										
Atrium, Fibrosis																							2			
Endocardium, Hyperplasia																			1							

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Myocardium, Hemorrhage																										
ENDOCRINE SYSTEM																										
Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Cyst																		X								
Degeneration, Cystic					1				1	1					1				1		1				1	
Hypertrophy	1	2		1	1		1		1		1		1		1		1	1	1		1				1	
Necrosis								1																		
Zona Fasciculata, Hyperplasia	2								1					1										1		
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hyperplasia	1							1				3				3										
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hyperplasia																			1					1		
Parathyroid Gland	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	M	+	+	+	+	+	
Hyperplasia																			3							
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Pars Distalis, Hyperplasia	4				2	2	4		1	2	1	1			1						2				1	
Rathke's Cleft, Hyperplasia								1																		
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
C-cell, Hyperplasia		3	1				3			1	4	1	2		4											
Follicular Cell, Hypertrophy					2	1							2					3						1		
GENERAL BODY SYSTEM																										

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HARLAN SPRAGUE DAWLEY RATS MALE
300/0 ppm

DAY ON TEST	074 3	074 3	074 5	074 5	074 7	074 7	074 4	074 2	074 5	074 5	074 6	074 6	074 4	058 3	074 6	074 6	074 7	074 7	060 0	036 6	073 9	047 8	056 8	074 6	073 9	
ANIMAL ID	000 61	000 62	000 63	000 64	000 65	000 66	000 67	000 68	000 69	000 70	000 71	000 72	000 73	000 74	000 75	000 76	000 77	000 78	000 79	000 80	000 81	000 82	000 83	000 84	000 85	**males (cont...)**
NONE																										
GENITAL SYSTEM																										
Epididymis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Preputial Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Prostate	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Epithelium, Ventral, Hyperplasia																					1					
Ventral, Inflammation, Chronic Active																	1						2			
Seminal Vesicle	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hyperplasia																										
Inflammation																							1			
Testes	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Bilateral, Germinal Epithelium, Degeneration						1									3						3					
Germinal Epithelium, Degeneration		1	1																							
Interstitial Cell, Hyperplasia	2					2																				
HEMATOPOIETIC SYSTEM																										
Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hyperplasia																			3				4		4	
Lymph Node																							+		+	
Mediastinal, Hemorrhage																							2			
Lymph Node, Mandibular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	

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

DAY ON TEST	074 3	074 3	074 5	074 5	074 7	074 7	074 4	074 2	074 5	074 5	074 6	074 6	074 4	058 3	074 6	074 6	074 7	074 7	060 0	036 6	073 9	047 8	056 8	074 6	073 9	
HARLAN SPRAGUE DAWLEY RATS MALE																										
300/0 ppm ANIMAL ID	00061	00062	00063	00064	00065	00066	00067	00068	00069	00070	00071	00072	00073	00074	00075	00076	00077	00078	00079	00080	00081	00082	00083	00084	00085	**males (cont...)**
Atrophy																	1									
Hemorrhage																										
Hyperplasia, Lymphoid																					3					
Infiltration Cellular, Plasma Cell					2																		2			
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Atrophy																										
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Extramedullary Hematopoiesis	2	2	2	1	2	1	1		2	1	2	1	2	3	2	1	1		2		1	2	4	2		
Pigment	1	1	1	1	1		1			1	1	1	1		1		1			2		1		1		
Lymphoid Follicle, Atrophy														3					1	1						
Lymphoid Follicle, Hyperplasia																					2					
Thymus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Atrophy	4	3	3	2		3	3	4	3	3	4	3	4	4	4	3	3	3	3	3	4	3	3	2		
Hyperplasia, Lymphoid																										
Epithelial Cell, Hyperplasia, Tubular																			2							
INTEGUMENTARY SYSTEM																										
Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hair Follicle, Hyperplasia																										
MUSCULOSKELETAL SYSTEM																										
Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Joint, Arthrosis																4										

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

DAY ON TEST / HARLAN SPRAGUE DAWLEY RATS MALE / 300/0 ppm / ANIMAL ID	074 3 00061	074 3 00062	074 5 00063	074 5 00064	074 7 00065	074 7 00066	074 4 00067	074 2 00068	074 5 00069	074 5 00070	074 6 00071	074 6 00072	074 4 00073	058 3 00074	074 6 00075	074 6 00076	074 7 00077	074 7 00078	060 0 00079	036 6 00080	073 9 00081	047 8 00082	056 8 00083	074 6 00084	073 9 00085	**males (cont...)**
Skeletal Muscle																									+	
NERVOUS SYSTEM																										
Brain	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Necrosis																										
RESPIRATORY SYSTEM																										
Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Foreign Body															X											
Infiltration Cellular, Histiocyte				1		2	4				1				3	3	1	1				3		2	2	
Inflammation, Granulomatous, Multifocal															2											
Inflammation, Acute																										
Inflammation, Chronic Active							1																	2		
Alveolar Epithelium, Hyperplasia																										
Serosa, Fibrosis, Multifocal																										
Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Glands, Olfactory Epithelium, Inflammation																										
Glands, Respiratory Epithelium, Hyperplasia																										
Glands, Respiratory Epithelium, Inflammation																										
Olfactory Epithelium, Accumulation, Hyaline Droplet	3	2	1	4	4	3	4	4	4	2	4	1	2		2	2	1	2		2	1			1	2	
Respiratory Epithelium, Inflammation				1		1																				
Respiratory Epithelium, Metaplasia																										
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
SPECIAL SENSES SYSTEM																										

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DAY ON TEST / HARLAN SPRAGUE DAWLEY RATS MALE 300/0 ppm / ANIMAL ID	074 3 00061	074 3 00062	074 5 00063	074 5 00064	074 7 00065	074 7 00066	074 4 00067	074 2 00068	074 5 00069	074 5 00070	074 6 00071	074 6 00072	074 4 00073	058 3 00074	074 6 00075	074 6 00076	074 7 00077	074 7 00078	060 0 00079	036 6 00080	073 9 00081	047 8 00082	056 8 00083	074 6 00084	073 9 00085	males (cont...)
Eye	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Anterior Chamber, Cornea, Iris, Inflammation																										
Cornea, Inflammation																										
Retina, Degeneration		2									2															
Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hyperplasia																										
URINARY SYSTEM																										
Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Infarct																										
Nephropathy, Chronic Progressive	3	3	2	3	2	1	3	2	3	2	3	3	3	3	4	3	2	2	4		4	2	2	3	3	
Cortex, Cyst												X									X					
Papilla, Urothelium, Hyperplasia																										
Pelvis, Dilation																						2				
Pelvis, Inflammation																										
Renal Tubule, Necrosis																										
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	

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HARLAN SPRAGUE DAWLEY RATS MALE

300/0 ppm

DAY ON TEST / ANIMAL ID	0673 00086	0746 00087	0484 00088	0747 00089	0747 00090	0247 00091	0744 00092	0745 00093	0745 00094	0744 00095	0744 00096	0743 00097	0743 00098	0739 00099	0743 00100	0617 00101	0351 00102	0744 00103	0744 00104	0747 00105	0747 00106	0743 00107	0617 00108	0743 00109	0746 00110	* TOTALS	
ALIMENTARY SYSTEM																											
Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Erosion	1																									**1**	**1.0**
Inflammation	1																									**1**	**1.0**
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Parasite Metazoan				X					X			X														**8**	
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Clear Cell Focus		X	X	X	X		X	X	X	X	X	X	X	X				X	X	X	X	X			X	**35**	
Eosinophilic Focus																										**2**	
Extramedullary Hematopoiesis																										**2**	**1.0**
Inflammation, Focal			1	1			1								1	1							1		1	**13**	**1.0**
Necrosis																										**1**	**1.0**
Bile Duct, Cyst					X																					**1**	
Bile Duct, Hyperplasia	1			2			1		1					1	1			1	1	1		1			1	**25**	**1.2**
Endothelial Cell, Hypertrophy, Diffuse																										**1**	**3.0**
Hepatocyte, Hypertrophy																										**1**	**4.0**

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DAY ON TEST / HARLAN SPRAGUE DAWLEY RATS MALE 300/0 ppm / ANIMAL ID	0673 00086	0746 00087	0484 00088	0747 00089	0747 00090	0247 00091	0744 00092	0745 00093	0745 00094	0744 00095	0744 00096	0743 00097	0743 00098	0739 00099	0743 00100	0617 00101	0351 00102	0744 00103	0744 00104	0747 00105	0747 00106	0743 00107	0617 00108	0743 00109	0746 00110	* TOTALS	
Hepatocyte, Single Cell Death						4																				**1**	**4.0**
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Hemorrhage										4																**1**	**4.0**
Inflammation								1																		**1**	**1.0**
Inflammation, Chronic Active									2																	**1**	**2.0**
Acinus, Atrophy					1													1	1					1		**9**	**1.4**
Acinus, Hyperplasia							2	4	4	4	1	4		2	4	4						1			3	**23**	**2.7**
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Inflammation	1		3																					2		**4**	**2.0**
Epithelium, Erosion	1																									**2**	**1.0**
Epithelium, Hyperplasia, Squamous			3				2														1			2		**6**	**2.0**
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
CARDIOVASCULAR SYSTEM																											
Blood Vessel	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Inflammation	1																									**5**	**1.6**
Inflammation, Chronic								2						2		1							1	1		**9**	**1.6**
Mineral	3																									**1**	**3.0**
Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Cardiomyopathy	3		1	2	2		1	1	1		1	1	2	2	1	2	1	1	1	1		1	2			**33**	**1.4**
Mineral						1																				**1**	**1.0**
Atrium, Fibrosis																										**1**	**2.0**
Endocardium, Hyperplasia																										**1**	**1.0**

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DAY ON TEST / HARLAN SPRAGUE DAWLEY RATS MALE 300/0 ppm / ANIMAL ID	0673 00086	0746 00087	0484 00088	0747 00089	0747 00090	0247 00091	0744 00092	0745 00093	0745 00094	0744 00095	0744 00096	0743 00097	0743 00098	0739 00099	0743 00100	0617 00101	0351 00102	0744 00103	0744 00104	0747 00105	0747 00106	0743 00107	0617 00108	0743 00109	0746 00110	* TOTALS	
Myocardium, Hemorrhage						2																				**1**	**2.0**
ENDOCRINE SYSTEM																											
Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Cyst																										**1**	
Degeneration, Cystic	1												1	1		1			1							**12**	**1.0**
Hypertrophy				1			1	1					1					1		1		1		1	1	**23**	**1.0**
Necrosis																										**1**	**1.0**
Zona Fasciculata, Hyperplasia														1		2										**6**	**1.3**
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Hyperplasia																3								2		**6**	**2.2**
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Hyperplasia																										**2**	**1.0**
Parathyroid Gland	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	**46**	
Hyperplasia	3																						2			**3**	**2.7**
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Pars Distalis, Hyperplasia									1				4	1				1							3	**16**	**1.9**
Rathke's Cleft, Hyperplasia																										**1**	**1.0**
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
C-cell, Hyperplasia							1						4							3			2			**11**	**2.5**
Follicular Cell, Hypertrophy			2						1				2		3			1			2		2			**12**	**1.8**
GENERAL BODY SYSTEM																											

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HARLAN SPRAGUE DAWLEY RATS MALE
300/0 ppm

DAY ON TEST	0673	0746	0484	0747	0747	0247	0744	0745	0745	0744	0744	0743	0743	0739	0743	0617	0351	0744	0744	0747	0747	0743	0617	0743	0746	
ANIMAL ID	00086	00087	00088	00089	00090	00091	00092	00093	00094	00095	00096	00097	00098	00099	00100	00101	00102	00103	00104	00105	00106	00107	00108	00109	00110	*** TOTALS**
NONE																										
GENITAL SYSTEM																										
Epididymis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Preputial Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Prostate	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Epithelium, Ventral, Hyperplasia							1																			**2 1.0**
Ventral, Inflammation, Chronic Active					1				2					1						1						**6 1.3**
Seminal Vesicle	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Hyperplasia																									1	**1 1.0**
Inflammation									2					1												**3 1.3**
Testes	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Bilateral, Germinal Epithelium, Degeneration	4				3					3				1						1			2			**9 2.3**
Germinal Epithelium, Degeneration			3									2														**4 1.8**
Interstitial Cell, Hyperplasia																										**2 2.0**
HEMATOPOIETIC SYSTEM																										
Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Hyperplasia	3															3							2			**6 3.2**
Lymph Node																	+									**3**
Mediastinal, Hemorrhage																										**1 2.0**
Lymph Node, Mandibular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**

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HARLAN SPRAGUE DAWLEY RATS MALE

300/0 ppm

DAY ON TEST	0673	0746	0484	0747	0747	0247	0744	0745	0745	0744	0744	0743	0743	0739	0743	0617	0351	0744	0744	0747	0747	0743	0617	0743	0746	
ANIMAL ID	00086	00087	00088	00089	00090	00091	00092	00093	00094	00095	00096	00097	00098	00099	00100	00101	00102	00103	00104	00105	00106	00107	00108	00109	00110	*** TOTALS**
Atrophy	1												1													**3 1.0**
Hemorrhage																	2									**1 2.0**
Hyperplasia, Lymphoid				1																						**2 2.0**
Infiltration Cellular, Plasma Cell																1										**3 1.7**
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Atrophy																								3		**1 3.0**
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Extramedullary Hematopoiesis		2		1	2	1	1	1	1	2	1	2	1		1	1		1	1	2	1	2			2	**40 1.6**
Pigment	1	1	1	1	1		1		1	1	1	1		1		1		1	1	1	1	1		1	1	**34 1.0**
Lymphoid Follicle, Atrophy	2					3																		1		**6 1.8**
Lymphoid Follicle, Hyperplasia																										**1 2.0**
Thymus	+	+	+	M	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	**48**
Atrophy	4	3	2		2		3	3	3	4	3	3	2	2		3	2	3	1	2	2	2	3	4	2	**45 2.9**
Hyperplasia, Lymphoid								4																		**1 4.0**
Epithelial Cell, Hyperplasia, Tubular										3																**2 2.5**

INTEGUMENTARY SYSTEM

Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Hair Follicle, Hyperplasia							3																			**1 3.0**

MUSCULOSKELETAL SYSTEM

Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Joint, Arthrosis																										**1 4.0**

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HARLAN SPRAGUE DAWLEY RATS MALE
300/0 ppm

DAY ON TEST	0673	0746	0484	0747	0747	0247	0744	0745	0745	0744	0744	0743	0743	0739	0743	0617	0351	0744	0744	0744	0747	0747	0743	0617	0743	0746	
ANIMAL ID	00086	00087	00088	00089	00090	00091	00092	00093	00094	00095	00096	00097	00098	00099	00100	00101	00102	00103	00104	00105	00106	00107	00108	00109	00110	*** TOTALS**	
Skeletal Muscle																										**1**	
NERVOUS SYSTEM																											
Brain	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Necrosis			3			3																				**2**	**3.0**
RESPIRATORY SYSTEM																											
Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Foreign Body																			X							**2**	
Infiltration Cellular, Histiocyte				1						1				1	1			3				2				**17**	**1.9**
Inflammation, Granulomatous, Multifocal												1		2				1	3							**5**	**1.8**
Inflammation, Acute																								3		**1**	**3.0**
Inflammation, Chronic Active																1							2			**4**	**1.5**
Alveolar Epithelium, Hyperplasia													2													**1**	**2.0**
Serosa, Fibrosis, Multifocal											1															**1**	**1.0**
Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Glands, Olfactory Epithelium, Inflammation				1																						**1**	**1.0**
Glands, Respiratory Epithelium, Hyperplasia														1												**1**	**1.0**
Glands, Respiratory Epithelium, Inflammation															1			1								**2**	**1.0**
Olfactory Epithelium, Accumulation, Hyaline Droplet	1	2	3	2	1		2	2	2	2	3	1	2	2	2	1	4	1	2	4	2	4	2	4	3	**45**	**2.3**
Respiratory Epithelium, Inflammation																								3		**3**	**1.7**
Respiratory Epithelium, Metaplasia		1		1																						**2**	**1.0**
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
SPECIAL SENSES SYSTEM																											

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

HARLAN SPRAGUE DAWLEY RATS MALE
300/0 ppm

DAY ON TEST / ANIMAL ID	0673 00086	0746 00087	0484 00088	0747 00089	0747 00090	0247 00091	0744 00092	0745 00093	0745 00094	0744 00095	0744 00096	0743 00097	0743 00098	0739 00099	0743 00100	0617 00101	0351 00102	0744 00103	0744 00104	0747 00105	0747 00106	0743 00107	0617 00108	0743 00109	0746 00110	* TOTALS	
Eye	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Anterior Chamber, Cornea, Iris, Inflammation																								4		1	4.0
Cornea, Inflammation														3												1	3.0
Retina, Degeneration					1		2																			4	1.8
Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Hyperplasia				1																						1	1.0
URINARY SYSTEM																											
Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Infarct					1				2																	2	1.5
Nephropathy, Chronic Progressive	4	2	2	2	3		3	4	3	4	2	2	3	4	1	4	1	3	2	3	3	3	4	4	2	48	2.8
Cortex, Cyst														X												3	
Papilla, Urothelium, Hyperplasia	1															1							1			3	1.0
Pelvis, Dilation																										1	2.0
Pelvis, Inflammation									2																	1	2.0
Renal Tubule, Necrosis						1																				1	1.0
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	

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DAY ON TEST / HARLAN SPRAGUE DAWLEY RATS MALE 0/20 ppm / ANIMAL ID	074 3 001 21	074 3 001 22	074 4 001 23	071 1 001 24	074 6 001 25	074 6 001 26	066 6 001 27	074 5 001 28	069 4 001 29	074 4 003 30	074 4 001 31	074 4 001 32	074 5 001 33	074 5 001 34	074 3 001 35	074 3 001 36	074 3 001 37	074 3 001 38	074 5 001 39	065 5 001 40	074 7 001 41	074 7 001 42	074 5 001 43	074 5 001 44	074 6 001 45	males (cont...)
ALIMENTARY SYSTEM																										
Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Parasite Metazoan				X								X				X		X			X					
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Inflammation																										
Ulcer																										
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Angiectasis														1												
Cholangiofibrosis																										
Clear Cell Focus	X	X		X	X	X		X		X	X		X	X	X	X	X		X		X	X	X	X	X	
Degeneration, Cystic							1	1											1		1	2				
Eosinophilic Focus								X					X				X									
Extramedullary Hematopoiesis												1														
Fatty Change							2																			
Inflammation, Focal	1	1	1							1	1	1			1	1						1		1		
Mixed Cell Focus																					X	X				
Necrosis								2		1	1			1			2		2			1	1			

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DAY ON TEST	074 3	074 3	074 4	071 1	074 6	074 6	066 6	074 5	069 4	074 4	074 4	074 4	074 5	074 5	074 3	074 3	074 3	074 3	074 5	065 5	074 7	074 7	074 5	074 5	074 6	
HARLAN SPRAGUE DAWLEY RATS MALE																										
0/20 ppm ANIMAL ID	001 21	001 22	001 23	001 24	001 25	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	**males (cont...)**
Pigment	1						1				2															
Bile Duct, Hyperplasia		1											1													
Hepatocyte, Cytoplasmic Alteration	2	1						2	1		2	1										2				
Hepatocyte, Hypertrophy	1	1						1	1		1	1										1				
Hepatocyte, Single Cell Death								1																		
Mesentery																										
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Inflammation, Chronic Active														1			3		1							
Acinus, Atrophy													1					1	1			2				
Acinus, Hyperplasia	4	4			4	4		3		2		4		4	2	4	4	2		3		4	4		4	
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Inflammation							1		3																	
Ulcer									1																	
Epithelium, Hyperplasia, Squamous									3																	
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Metaplasia, Atypical		1																								
Glands, Necrosis									1																	
CARDIOVASCULAR SYSTEM																										
Blood Vessel	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Inflammation																										
Inflammation, Chronic					2															2				2		
Mineral																										

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DAY ON TEST	074 3	074 3	074 4	071 1	074 6	074 6	066 6	074 5	069 4	074 4	074 4	074 4	074 5	074 5	074 3	074 3	074 3	074 3	074 3	074 5	065 5	074 7	074 7	074 5	074 5	074 6	
HARLAN SPRAGUE DAWLEY RATS MALE																											
0/20 ppm ANIMAL ID	001 21	001 22	001 23	001 24	001 25	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	**males (cont...)**	
Aorta, Mineral																											
Aorta, Pulmonary Artery, Mineral																											
Pulmonary Artery, Mineral																											
Pulmonary Vein, Mineral																											
Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Cardiomyopathy	1		1		1	1	2		1		1	2	1			1	1		1	3	1	1				2	
Valve, Degeneration																											
ENDOCRINE SYSTEM																											
Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Degeneration, Cystic																				1							
Hypertrophy	2			2				1	1	1				1			1				1		1	1	1		
Zona Fasciculata, Hyperplasia														1	1						2						
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hyperplasia						2														3		2					
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hyperplasia								1		1			1			2	2										
Parathyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	M	+	+	+		
Hyperplasia																				2							
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Pars Distalis, Hyperplasia			1				1			3			1	3			1	1	4			1					
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
C-cell, Hyperplasia							1		1							3											

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DAY ON TEST / HARLAN SPRAGUE DAWLEY RATS MALE 0/20 ppm / ANIMAL ID	074 3 / 001 21	074 3 / 001 22	074 4 / 001 23	071 1 / 001 24	074 6 / 001 25	074 6 / 001 26	066 6 / 001 27	074 5 / 001 28	069 4 / 001 29	074 4 / 001 30	074 4 / 001 31	074 4 / 001 32	074 5 / 001 33	074 5 / 001 34	074 3 / 001 35	074 3 / 001 36	074 3 / 001 37	074 3 / 001 38	074 5 / 001 39	065 5 / 001 40	074 7 / 001 41	074 7 / 001 42	074 5 / 001 43	074 5 / 001 44	074 6 / 001 45	males (cont...)
Follicular Cell, Hypertrophy						1			1	1	1	1											1	1		
GENERAL BODY SYSTEM																										
NONE																										
GENITAL SYSTEM																										
Epididymis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Preputial Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Prostate	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Dorsal, Inflammation, Chronic Active			2																							
Epithelium, Ventral, Hyperplasia																										
Ventral, Inflammation, Chronic Active		1																								
Seminal Vesicle	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Testes	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Edema																										
Bilateral, Germinal Epithelium, Degeneration					1															3						
Germinal Epithelium, Degeneration																										
Interstitial Cell, Hyperplasia																										
HEMATOPOIETIC SYSTEM																										
Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hyperplasia				3										4						3						
Lymph Node								+												+						

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DAY ON TEST / HARLAN SPRAGUE DAWLEY RATS MALE 0/20 ppm / ANIMAL ID	074 3 001 21	074 3 001 22	074 4 001 23	071 1 001 24	074 6 001 25	074 6 001 26	066 6 001 27	074 5 001 28	069 4 001 29	074 4 001 30	074 4 001 31	074 4 001 32	074 5 001 33	074 5 001 34	074 3 001 35	074 3 001 36	074 3 001 37	074 3 001 38	074 5 001 39	065 5 001 40	074 7 001 41	074 7 001 42	074 5 001 43	074 5 001 44	074 6 001 45	males (cont...)
Mediastinal, Infiltration Cellular, Histiocyte																				2						
Pancreatic, Ectasia								3																		
Lymph Node, Mandibular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hyperplasia, Lymphoid													2								1					
Infiltration Cellular, Plasma Cell																				2	1					
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Extramedullary Hematopoiesis	1	2		2	2	1		2	1	2	2	2	2	2	2	1	2	2	1	2	2	1	2	1	2	
Pigment	1	1	1		1	1	1	1	1	1	1	1	1		1	1	1	1	1			1	1	1	1	
Lymphoid Follicle, Atrophy																										
Lymphoid Follicle, Hyperplasia																										
Thymus	+	M	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Atrophy	3		3	2	3			3	4	3	3	3	3	3	3	3	3	2	3	3	2	3	3	3	3	
INTEGUMENTARY SYSTEM																										
Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Epidermis, Hyperplasia																										
MUSCULOSKELETAL SYSTEM																										
Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Osteopetrosis																										

HARLAN SPRAGUE DAWLEY RATS MALE
0/20 ppm

DAY ON TEST	074 3	074 3	074 4	071 1	074 6	074 6	066 6	074 5	069 4	074 4	074 4	074 4	074 5	074 5	074 3	074 3	074 3	074 3	074 5	065 5	074 7	074 7	074 5	074 5	074 6	
ANIMAL ID	001 21	001 22	001 23	001 24	001 25	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	**males (cont...)**
Skeletal Muscle																										
NERVOUS SYSTEM																										
Brain	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
RESPIRATORY SYSTEM																										
Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Infiltration Cellular, Histiocyte		2			3	3				2	3	1	3	3		1		2			1	1	3			
Infiltration Cellular, Lymphocyte																			2							
Inflammation, Granulomatous, Multifocal	1				1			1								1										
Inflammation, Acute																										
Inflammation, Chronic Active																		1		4	1					
Alveolar Epithelium, Hyperplasia																										
Alveolar Epithelium, Hypertrophy																				3						
Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Glands, Respiratory Epithelium, Inflammation																								1		
Olfactory Epithelium, Accumulation, Hyaline Droplet	2	3	4	4	2	1	2	2		4	2	2	2	4	2	2	2	2	3			2	3	1	4	
Respiratory Epithelium, Inflammation																										
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
SPECIAL SENSES SYSTEM																										
Eye	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Phthisis Bulbi																						X				
Cornea, Inflammation																										

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DAY ON TEST / HARLAN SPRAGUE DAWLEY RATS MALE 0/20 ppm / ANIMAL ID	074 3 001 21	074 3 001 22	074 4 001 23	071 1 001 24	074 6 001 25	074 6 001 26	066 6 001 27	074 5 001 28	069 4 001 29	074 4 001 30	074 4 001 31	074 4 001 32	074 5 001 33	074 5 001 34	074 3 001 35	074 3 001 36	074 3 001 37	074 3 001 38	074 5 001 39	065 5 001 40	074 7 001 41	074 7 001 42	074 5 001 43	074 5 001 44	074 6 001 45	males (cont...)
Retina, Degeneration					1													1								
Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
URINARY SYSTEM																										
Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Accumulation, Hyaline Droplet								1																		
Infarct	1															1										
Nephropathy, Chronic Progressive	1	2	1	1	4	2	1	2	2	1	2	1	2	2	1	3	3	3	1	4	2	2		3	2	
Cortex, Cyst																										
Papilla, Urothelium, Hyperplasia																				1						
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	

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DAY ON TEST / HARLAN SPRAGUE DAWLEY RATS MALE 0/20 ppm / ANIMAL ID	0746 0014 46	0680 0014 47	0745 0014 48	0747 0014 49	0747 0015 50	0744 0015 51	0744 0015 52	0746 0015 53	0746 0015 54	0747 0015 55	0747 0015 56	0747 0015 57	0747 0015 58	0746 0015 59	0746 0016 60	0679 0016 61	0746 0016 62	0744 0016 63	0744 0016 64	0666 0016 65	0745 0016 66	0745 0016 67	0116 0016 68	0743 0016 69	0743 0017 70	* TOTALS		
ALIMENTARY SYSTEM																											
Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**		
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**		
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**		
Parasite Metazoan					X								X	X			X							X		**10**		
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**		
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**		
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**		
Inflammation																						4				**1**	**4.0**	
Ulcer																						4				**1**	**4.0**	
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**		
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**		
Angiectasis																										**1**	**1.0**	
Cholangiofibrosis																		3								**1**	**3.0**	
Clear Cell Focus			X	X	X	X	X	X	X	X	X	X		X	X		X	X	X		X			X	X		**37**	
Degeneration, Cystic																										**5**	**1.2**	
Eosinophilic Focus							X									X						X				**6**		
Extramedullary Hematopoiesis			1																							**2**	**1.0**	
Fatty Change																										**1**	**2.0**	
Inflammation, Focal					1	1	1	1			1	1					1				1	1				**19**	**1.0**	
Mixed Cell Focus			X							X																**4**		
Necrosis			1		1	1						1	1	1	1	1								1		**17**	**1.2**	

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DAY ON TEST / HARLAN SPRAGUE DAWLEY RATS MALE 0/20 ppm / ANIMAL ID	0746 00146	0680 00147	0745 00148	0747 00149	0747 00150	0744 00151	0744 00152	0746 00153	0746 00154	0747 00155	0747 00156	0747 00157	0747 00158	0746 00159	0746 00160	0679 00161	0746 00162	0744 00163	0744 00164	0666 00165	0745 00166	0745 00167	0116 00168	0743 00169	0743 00170	* TOTALS	
Pigment								1								2				2			1			**7**	**1.4**
Bile Duct, Hyperplasia																1										**3**	**1.0**
Hepatocyte, Cytoplasmic Alteration									1					2		1	1						2			**12**	**1.5**
Hepatocyte, Hypertrophy									1					1		1	1			3			1			**13**	**1.2**
Hepatocyte, Single Cell Death																										**1**	**1.0**
Mesentery																				+						**1**	
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Inflammation, Chronic Active																						1				**4**	**1.5**
Acinus, Atrophy				1				3	1		1		1									1				**10**	**1.3**
Acinus, Hyperplasia	4		3	4	4	4	4	4	4	4		4	4	4	3		4	4						4		**32**	**3.7**
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Inflammation		1																				2				**4**	**1.8**
Ulcer																										**1**	**1.0**
Epithelium, Hyperplasia, Squamous		2																				2				**3**	**2.3**
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Metaplasia, Atypical																										**1**	**1.0**
Glands, Necrosis																										**1**	**1.0**

CARDIOVASCULAR SYSTEM

Blood Vessel	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Inflammation	1				2																	1				**2**	**1.5**
Inflammation, Chronic																		1				1				**5**	**1.6**
Mineral	1													1												**2**	**1.0**

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DAY ON TEST / HARLAN SPRAGUE DAWLEY RATS MALE 0/20 ppm / ANIMAL ID	0746 0014 6	0680 0014 7	0745 0014 8	0747 0014 9	0747 0015 0	0744 0015 1	0744 0015 2	0746 0015 3	0746 0015 4	0747 0015 5	0747 0015 6	0747 0015 7	0747 0015 8	0746 0015 9	0746 0016 0	0679 0016 1	0746 0016 2	0744 0016 3	0744 0016 4	0666 0016 5	0745 0016 6	0745 0016 7	0116 0016 8	0743 0016 9	0743 0017 0	* TOTALS	
Aorta, Mineral													1													**1**	**1.0**
Aorta, Pulmonary Artery, Mineral																								1		**1**	**1.0**
Pulmonary Artery, Mineral																1						1				**2**	**1.0**
Pulmonary Vein, Mineral										1																**1**	**1.0**
Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Cardiomyopathy	2	3		1	1	2	1				2	1		1	1	1	1				1	2		2	1	**32**	**1.4**
Valve, Degeneration																						2				**1**	**2.0**
ENDOCRINE SYSTEM																											
Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Degeneration, Cystic		1																								**2**	**1.0**
Hypertrophy	1		1			1				1		1	1	1				1	1		1	1		1	1	**24**	**1.1**
Zona Fasciculata, Hyperplasia				1					1																	**5**	**1.2**
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Hyperplasia						3						4														**5**	**2.8**
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Hyperplasia																		2								**6**	**1.5**
Parathyroid Gland	M	+	+	+	M	M	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**44**	
Hyperplasia																										**1**	**2.0**
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Pars Distalis, Hyperplasia			1	1	2		1		1		1			1					2	1					1	**19**	**1.5**
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
C-cell, Hyperplasia		4	1	2					2				3		1			2			3			1		**12**	**2.0**

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HARLAN SPRAGUE DAWLEY RATS MALE
0/20 ppm

DAY ON TEST	0746	0680	0745	0747	0747	0744	0744	0746	0746	0747	0747	0747	0747	0746	0746	0679	0746	0744	0744	0666	0745	0745	0116	0743	0743	
ANIMAL ID	00146	00147	00148	00149	00150	00151	00152	00153	00154	00155	00156	00157	00158	00159	00160	00161	00162	00163	00164	00165	00166	00167	00168	00169	00170	* TOTALS
Follicular Cell, Hypertrophy	2									2										2			3		2	**12 1.5**

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

Epididymis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Preputial Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Prostate	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Dorsal, Inflammation, Chronic Active																										**1 2.0**
Epithelium, Ventral, Hyperplasia				1											1											**2 1.0**
Ventral, Inflammation, Chronic Active		1																	2							**3 1.3**
Seminal Vesicle	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Testes	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Edema										4																**1 4.0**
Bilateral, Germinal Epithelium, Degeneration										3																**3 2.3**
Germinal Epithelium, Degeneration																4		2				1				**3 2.3**
Interstitial Cell, Hyperplasia	1																									**1 1.0**

HEMATOPOIETIC SYSTEM

Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Hyperplasia					2							2				2				4		4	3			**9 3.0**
Lymph Node																				+						**3**

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DAY ON TEST / HARLAN SPRAGUE DAWLEY RATS MALE 0/20 ppm / ANIMAL ID	0746 0014 6	0680 0014 7	0745 0014 8	0747 0014 9	0747 0015 0	0744 0015 1	0744 0015 2	0746 0015 3	0746 0015 4	0747 0015 5	0747 0015 6	0747 0015 7	0747 0015 8	0746 0015 9	0746 0016 0	0679 0016 1	0746 0016 2	0744 0016 3	0744 0016 4	0666 0016 5	0745 0016 6	0745 0016 7	0116 0016 8	0743 0016 9	0743 0017 0	* TOTALS	
Mediastinal, Infiltration Cellular, Histiocyte																										**1**	**2.0**
Pancreatic, Ectasia																										**1**	**3.0**
Lymph Node, Mandibular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Hyperplasia, Lymphoid																										**2**	**1.5**
Infiltration Cellular, Plasma Cell																										**2**	**1.5**
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Extramedullary Hematopoiesis	2		2	2	1	2		1	2	1	1	1	1	1	2	2	2	2	1	2	2	3		1	2	**45**	**1.7**
Pigment	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		1	1			1		1	1	1	**42**	**1.0**
Lymphoid Follicle, Atrophy		3														2										**2**	**2.5**
Lymphoid Follicle, Hyperplasia							1																			**1**	**1.0**
Thymus	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	**46**	
Atrophy	3		3	3	3	3	3	2	3	3	3	3	3	3	3	4	3	3	3	4	3		2	2	3	**45**	**2.9**
INTEGUMENTARY SYSTEM																											
Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**49**	
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Epidermis, Hyperplasia									4																	**1**	**4.0**
MUSCULOSKELETAL SYSTEM																											
Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Osteopetrosis																						2				**1**	**2.0**

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DAY ON TEST / HARLAN SPRAGUE DAWLEY RATS MALE 0/20 ppm / ANIMAL ID	0746 0014 46	0680 0014 47	0745 0014 48	0747 0014 49	0747 0015 50	0744 0015 51	0744 0015 52	0746 0015 53	0746 0015 54	0747 0015 55	0747 0015 56	0747 0015 57	0747 0015 58	0746 0015 59	0746 0016 60	0679 0016 61	0746 0016 62	0744 0016 63	0744 0016 64	0666 0016 65	0745 0016 66	0745 0016 67	0116 0016 68	0743 0016 69	0743 0017 70	* TOTALS		
Skeletal Muscle																				+						**1**		
NERVOUS SYSTEM																												
Brain	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**		
RESPIRATORY SYSTEM																												
Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**		
Infiltration Cellular, Histiocyte			2	1	3		3		1	3	1		1			3	2		2	1	3	4			3		**28**	**2.2**
Infiltration Cellular, Lymphocyte																											**1**	**2.0**
Inflammation, Granulomatous, Multifocal											1																**5**	**1.0**
Inflammation, Acute		2																									**1**	**2.0**
Inflammation, Chronic Active																1											**4**	**1.8**
Alveolar Epithelium, Hyperplasia												2						3									**2**	**2.5**
Alveolar Epithelium, Hypertrophy																											**1**	**3.0**
Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**		
Glands, Respiratory Epithelium, Inflammation		1									1																**3**	**1.0**
Olfactory Epithelium, Accumulation, Hyaline Droplet	1	2	2	1	2	2	2	4	2	2	2	3		3	2		2	2	2	2	2	2		2	2		**44**	**2.3**
Respiratory Epithelium, Inflammation							1															1			1		**3**	**1.0**
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**		
SPECIAL SENSES SYSTEM																												
Eye	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**		
Phthisis Bulbi																											**1**	
Cornea, Inflammation		3									1							2									**3**	**2.0**

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HARLAN SPRAGUE DAWLEY RATS MALE 0/20 ppm	DAY ON TEST	074 6	068 0	074 5	074 7	074 7	074 4	074 4	074 6	074 6	074 7	074 7	074 7	074 7	074 7	074 6	067 9	074 6	074 4	074 4	066 6	074 5	074 5	011 6	074 3	074 3	* TOTALS	
	ANIMAL ID	001 46	001 47	001 48	001 49	001 50	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		
Retina, Degeneration																							1				**3**	**1.0**
Harderian Gland		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
URINARY SYSTEM																												
Kidney		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Accumulation, Hyaline Droplet																					4						**2**	**2.5**
Infarct										1	1			1													**5**	**1.0**
Nephropathy, Chronic Progressive		3	2	2	4	2	3	2	2	2	3	3	2	2	1	2	1	2	4	2	2	3	3	1	3	3	**49**	**2.2**
Cortex, Cyst		X																									**1**	
Papilla, Urothelium, Hyperplasia		1																	1								**3**	**1.0**
Urinary Bladder		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	

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DAY ON TEST / HARLAN SPRAGUE DAWLEY RATS MALE 300/20 ppm / ANIMAL ID	074 5 001 81	048 5 001 82	074 3 001 83	074 3 001 84	074 4 001 85	074 4 001 86	074 5 001 87	074 5 001 88	074 4 001 89	074 4 001 90	074 4 001 91	074 7 001 92	074 5 001 93	074 5 001 94	073 9 001 95	074 7 001 96	073 4 001 97	074 5 001 98	069 3 001 99	074 6 002 00	074 3 002 01	074 3 002 02	023 8 002 03	059 9 002 04	068 3 002 05	males (cont...)
ALIMENTARY SYSTEM																										
Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Parasite Metazoan													X	X				X							X	
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Basophilic Focus																										
Cholangiofibrosis																										
Clear Cell Focus	X				X	X	X	X	X	X	X	X	X	X		X		X		X		X			X	
Degeneration, Cystic			1																							
Eosinophilic Focus																		X								
Fatty Change																										
Hepatodiaphragmatic Nodule																										
Inflammation, Focal			1	1			1									1										
Mixed Cell Focus									X							X										
Necrosis		1			1	1				1		1										1				
Pigment			1											2												
Bile Duct, Dilation																										

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DAY ON TEST / HARLAN SPRAGUE DAWLEY RATS MALE 300/20 ppm / ANIMAL ID	074 5 001 81	048 5 001 82	074 3 001 83	074 3 001 84	074 4 001 85	074 4 001 86	074 5 001 87	074 5 001 88	074 4 001 89	074 4 001 90	074 7 001 91	074 7 001 92	074 5 001 93	074 5 001 94	073 9 001 95	074 7 001 96	073 4 001 97	074 5 001 98	069 3 001 99	074 6 002 00	074 3 002 01	074 3 002 02	023 8 002 03	059 9 002 04	068 3 002 05	males (cont...)
Bile Duct, Hyperplasia				1		1			1			1		1					1							
Hepatocyte, Cytoplasmic Alteration																										
Hepatocyte, Hypertrophy																									1	
Hepatocyte, Single Cell Death																							4			
Kupffer Cell, Hyperplasia																										
Mesentery																										
Fat, Necrosis																										
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Acinus, Atrophy					1													2				1				
Acinus, Hyperplasia	4		2	1	3	4		3		2			4		2	2		3			4	2				
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Inflammation		1																						3		
Ulcer		2																						3		
Epithelium, Erosion																										
Epithelium, Hyperplasia, Squamous																								3		
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Mineral		1													2											
Glands, Hyperplasia, Atypical, Focal															3											
CARDIOVASCULAR SYSTEM																										
Blood Vessel	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Inflammation																								2		
Inflammation, Chronic															2											

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DAY ON TEST / HARLAN SPRAGUE DAWLEY RATS MALE 300/20 ppm / ANIMAL ID	074 5 / 001 81	048 5 / 001 82	074 3 / 001 83	074 3 / 001 84	074 4 / 001 85	074 4 / 001 86	074 5 / 001 87	074 5 / 001 88	074 4 / 001 89	074 4 / 001 90	074 7 / 001 91	074 7 / 001 92	074 5 / 001 93	074 5 / 001 94	073 9 / 001 95	074 7 / 001 96	073 4 / 001 97	074 5 / 001 98	069 3 / 001 99	074 6 / 002 00	074 3 / 002 01	074 3 / 002 02	023 8 / 002 03	059 9 / 002 04	068 3 / 002 05	males (cont...)
Mineral						1																				
Aorta, Mineral																										
Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Cardiomyopathy	1		3	1				2		1	3	3	1	1	2	2	3	1	1	1	2			1		
Metaplasia, Osseous											2															
Mineral																							1			
Myocardium, Hemorrhage																							1			
ENDOCRINE SYSTEM																										
Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Degeneration, Cystic												1			1							1				
Hypertrophy				1	1	1	1			1	1	1	1	1				1			1	1			3	
Zona Fasciculata, Hyperplasia																	1									
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hyperplasia								1																		
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hyperplasia							4																			
Metaplasia, Hepatocyte				1																						
Parathyroid Gland	+	+	+	+	+	+	+	+	M	+	+	+	+	+	M	M	M	M	+	M	+	+	+	+	+	
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Cyst																										
Pars Distalis, Hyperplasia								2		2		2	2					1		1	2	1				
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	

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DAY ON TEST / HARLAN SPRAGUE DAWLEY RATS MALE 300/20 ppm / ANIMAL ID	074 5 001 81	048 5 001 82	074 3 001 83	074 3 001 84	074 4 001 85	074 4 001 86	074 5 001 87	074 5 001 88	074 4 001 89	074 4 001 90	074 7 001 91	074 7 001 92	074 5 001 93	074 5 001 94	073 9 001 95	074 7 001 96	073 4 001 97	074 5 001 98	069 3 001 99	074 6 002 00	074 3 002 01	074 3 002 02	023 8 002 03	059 9 002 04	068 3 002 05	males (cont...)
C-cell, Hyperplasia				2							3	3		1					2							
Follicular Cell, Hypertrophy	2		2				3									1				4						
GENERAL BODY SYSTEM																										
NONE																										
GENITAL SYSTEM																										
Epididymis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Preputial Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Duct, Hyperplasia										2																
Prostate	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Epithelium, Ventral, Hyperplasia						1					1															
Lateral, Inflammation, Chronic Active			1																			1				
Ventral, Inflammation, Chronic Active																1										
Seminal Vesicle	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Inflammation			2																							
Testes	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Bilateral, Germinal Epithelium, Degeneration														3												
Germinal Epithelium, Degeneration																										
HEMATOPOIETIC SYSTEM																										
Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hyperplasia		3																	2		2				2	

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DAY ON TEST / HARLAN SPRAGUE DAWLEY RATS MALE 300/20 ppm / ANIMAL ID	074501	048502	074503	074503	074504	074504	074505	074505	074504	074504	074507	074507	074505	074505	073909	074507	073504	074505	069303	074506	074503	074503	023808	059909	068303	males (cont...)
	001181	001182	001183	001184	001185	001186	001187	001188	001189	001190	001191	001192	001193	001194	001195	001196	001197	001198	001199	002000	002001	002002	002003	002004	002005	
Lymph Node	+	+																								
Mediastinal, Hemorrhage	2																									
Lymph Node, Mandibular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Infiltration Cellular, Plasma Cell																		3								
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Extramedullary Hematopoiesis	2			1	2	1	1	1	2	1	2	1	2	2		1		1		1		2			2	
Hemorrhage		4																								
Pigment	1		1	1		1	1	1			1	1	1	1	1				1	1	1			1		
Lymphoid Follicle, Atrophy																			2				2			
Lymphoid Follicle, Hyperplasia																										
Thymus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Atrophy	3	3	3	3	3	3	3	2	2	2	3	3	3	3	3	4	3	2	4	3	1	4	1	3	3	
Hyperplasia, Lymphoid							2																			
INTEGUMENTARY SYSTEM																										
Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Cyst Epithelial Inclusion			X																							
Inflammation			3					4																		
Ulcer								4																		
MUSCULOSKELETAL SYSTEM																										

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DAY ON TEST / HARLAN SPRAGUE DAWLEY RATS MALE 300/20 ppm / ANIMAL ID	074 5 / 001 81	048 5 / 001 82	074 3 / 001 83	074 3 / 001 84	074 4 / 001 85	074 4 / 001 86	074 5 / 001 87	074 5 / 001 88	074 4 / 001 89	074 4 / 001 90	074 7 / 001 91	074 7 / 001 92	074 5 / 001 93	074 5 / 001 94	073 9 / 001 95	074 7 / 001 96	073 4 / 001 97	074 5 / 001 98	069 3 / 001 99	074 6 / 002 00	074 3 / 002 01	074 3 / 002 02	023 8 / 002 03	059 9 / 002 04	068 3 / 002 05	males (cont...)
Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Joint, Arthrosis	4																									
Skeletal Muscle																										
NERVOUS SYSTEM																										
Brain	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Necrosis																										
Peripheral Nerve																								+		
Axon, Degeneration																								2		
Spinal Cord																								+		
Nerve, Degeneration																								2		
RESPIRATORY SYSTEM																										
Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Infiltration Cellular, Histiocyte						4	3		1	1				2	4					3		1			1	
Inflammation, Granulomatous, Multifocal										1		1		1	1			1		1						
Inflammation, Chronic Active			1																						1	
Alveolar Epithelium, Hyperplasia																										
Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Olfactory Epithelium, Accumulation, Hyaline Droplet	3	2	3	2	4	2	2	3	2	1	1	2	2	2	2	4		3	2	3	4	3	2	2	2	
Olfactory Epithelium, Inflammation																										
Olfactory Epithelium, Metaplasia																										
Respiratory Epithelium, Inflammation				1															4							

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Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
SPECIAL SENSES SYSTEM																										
Eye	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Cornea, Inflammation																										
Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Zymbal's Gland																	+									
URINARY SYSTEM																										
Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Accumulation, Hyaline Droplet																										
Infarct			1	1																						
Mineral		2																								
Nephropathy, Chronic Progressive	2	2	3	1	3	2		2	3	2	4	3	3	3	4	1	3	2	4	2	4	2	1	3	1	
Cortex, Cyst																										
Papilla, Urothelium, Hyperplasia			1																							
Renal Tubule, Necrosis																							3			
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Infiltration Cellular, Mast Cell												1														

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DAY ON TEST	0478	0743	0743	0743	0743	0746	0746	0747	0747	0746	0241	0744	0744	0745	0465	0746	0746	0745	0711	0746	0746	0744	0744	0747	0739	
HARLAN SPRAGUE DAWLEY RATS MALE																										
300/20 ppm																										
ANIMAL ID	00206	00207	00208	00209	00210	00211	00212	00213	00214	00215	00216	00217	00218	00219	00220	00221	00222	00223	00224	00225	00226	00227	00228	00229	00230	*** TOTALS**
ALIMENTARY SYSTEM																										
Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Parasite Metazoan									X																	**5**
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Basophilic Focus													X													**1**
Cholangiofibrosis								3																		**1 3.0**
Clear Cell Focus		X	X	X	X	X	X	X	X	X		X	X	X		X	X	X	X	X	X	X	X	X	X	**38**
Degeneration, Cystic																1				1						**3 1.0**
Eosinophilic Focus						X							X							X				X		**5**
Fatty Change									2																	**1 2.0**
Hepatodiaphragmatic Nodule									X																	**1**
Inflammation, Focal			1					1				1	1		1				1				1			**11 1.0**
Mixed Cell Focus								X																X		**4**
Necrosis									2				1	1							2	1				**11 1.2**
Pigment						1									1											**4 1.3**
Bile Duct, Dilation								3																		**1 3.0**

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DAY ON TEST / HARLAN SPRAGUE DAWLEY RATS MALE / 300/20 ppm / ANIMAL ID	047800206	074430207	074430208	074430209	074430210	074460211	074460212	074470213	074470214	074460215	024410216	074440217	074440218	074450219	046650220	074460221	074460222	074450223	071110224	074460225	074460226	074440227	074440228	074470229	073990230	* TOTALS	
Bile Duct, Hyperplasia						1				1																**8**	**1.0**
Hepatocyte, Cytoplasmic Alteration									1	1		1			1											**4**	**1.0**
Hepatocyte, Hypertrophy									1	1		1														**4**	**1.0**
Hepatocyte, Single Cell Death											3				1											**3**	**2.7**
Kupffer Cell, Hyperplasia															1											**1**	**1.0**
Mesentery															+	+										**2**	
Fat, Necrosis																2										**1**	**2.0**
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Acinus, Atrophy			1				1	1	1			1		2				2				1		1	1	**13**	**1.2**
Acinus, Hyperplasia		2	4	4			4	4		4		1		4		4		4		4			4	4	4	**27**	**3.2**
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Inflammation															3										2	**4**	**2.3**
Ulcer																										**2**	**2.5**
Epithelium, Erosion															1											**1**	**1.0**
Epithelium, Hyperplasia, Squamous															3											**2**	**3.0**
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Mineral																										**2**	**1.5**
Glands, Hyperplasia, Atypical, Focal																										**1**	**3.0**
CARDIOVASCULAR SYSTEM																											
Blood Vessel	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Inflammation							4						1					3						1		**5**	**2.2**
Inflammation, Chronic						2				1				2		2				2						**6**	**1.8**

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DAY ON TEST / HARLAN SPRAGUE DAWLEY RATS MALE 300/20 ppm / ANIMAL ID	0478 00206	0743 00207	0743 00208	0743 00209	0743 00210	0746 00211	0746 00212	0747 00213	0747 00214	0746 00215	0241 00216	0744 00217	0744 00218	0745 00219	0465 00220	0746 00221	0746 00222	0745 00223	0711 00224	0746 00225	0746 00226	0744 00227	0744 00228	0747 00229	0739 00230	* TOTALS	
Mineral																										**1**	**1.0**
Aorta, Mineral								1		1										1						**3**	**1.0**
Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Cardiomyopathy			1	1	2	2	1	1	1	2						2		2		1	1	1		1	1	**32**	**1.5**
Metaplasia, Osseous																										**1**	**2.0**
Mineral																										**1**	**1.0**
Myocardium, Hemorrhage																										**1**	**1.0**
ENDOCRINE SYSTEM																											
Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Degeneration, Cystic													1												1	**5**	**1.0**
Hypertrophy			1	1								1	1	1		1		1		1	1	3		1		**24**	**1.2**
Zona Fasciculata, Hyperplasia							3																			**2**	**2.0**
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Hyperplasia		4																							2	**3**	**2.3**
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Hyperplasia				1																						**2**	**2.5**
Metaplasia, Hepatocyte																										**1**	**1.0**
Parathyroid Gland	+	+	M	+	M	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	M	M	+	**39**	
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Cyst																				X						**1**	
Pars Distalis, Hyperplasia					2			3									4	1	1				1			**14**	**1.8**
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	

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

HARLAN SPRAGUE DAWLEY RATS MALE 300/20 ppm	DAY ON TEST	0478	0743	0743	0743	0743	0746	0746	0747	0747	0746	0241	0744	0744	0745	0465	0746	0746	0745	0711	0746	0746	0744	0744	0747	0739	
	ANIMAL ID	00206	00207	00208	00209	00210	00211	00212	00213	00214	00215	00216	00217	00218	00219	00220	00221	00222	00223	00224	00225	00226	00227	00228	00229	00230	*** TOTALS**
C-cell, Hyperplasia									3	4				1		3	4		1							1	**12 2.3**
Follicular Cell, Hypertrophy		3										3															**7 2.6**
GENERAL BODY SYSTEM																											
NONE																											
GENITAL SYSTEM																											
Epididymis		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Preputial Gland		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Duct, Hyperplasia																											**1 2.0**
Prostate		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Epithelium, Ventral, Hyperplasia																			1								**3 1.0**
Lateral, Inflammation, Chronic Active																											**2 1.0**
Ventral, Inflammation, Chronic Active					1		1																				**3 1.0**
Seminal Vesicle		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Inflammation																											**1 2.0**
Testes		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Bilateral, Germinal Epithelium, Degeneration							1								1		1										**4 1.5**
Germinal Epithelium, Degeneration			3					1			2										3			1			**5 2.0**
HEMATOPOIETIC SYSTEM																											
Bone Marrow		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Hyperplasia		4						2			2					4				2							**9 2.6**

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+ .. Tissue examined microscopically
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I .. Insufficient tissue
M .. Missing tissue
A .. Autolysis precludes evaluation
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2) Mild 4) Marked

HARLAN SPRAGUE DAWLEY RATS MALE
300/20 ppm

DAY ON TEST	0478	0743	0743	0743	0743	0746	0746	0747	0747	0746	0241	0744	0744	0745	0465	0746	0746	0745	0711	0746	0746	0744	0744	0747	0739	
ANIMAL ID	00206	00207	00208	00209	00210	00211	00212	00213	00214	00215	00216	00217	00218	00219	00220	00221	00222	00223	00224	00225	00226	00227	00228	00229	00230	*** TOTALS**
Lymph Node															+											**3**
Mediastinal, Hemorrhage																										**1 2.0**
Lymph Node, Mandibular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Infiltration Cellular, Plasma Cell																										**1 3.0**
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Extramedullary Hematopoiesis	2	2	1	2	2	1	2	2	2	2		2	1	2		1	1	2	2	2	2	1	2	1	2	**40 1.6**
Hemorrhage																										**1 4.0**
Pigment		1	1	1	1	1		1	1	1	1	1		1		1	1		1	1		1		1	1	**33 1.0**
Lymphoid Follicle, Atrophy																										**2 2.0**
Lymphoid Follicle, Hyperplasia						1																				**1 1.0**
Thymus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	**49**
Atrophy	3	3	3	3	2	2	3	3		4	2	3	2	2	3		3	3	3	3	3	3	3	2	3	**48 2.8**
Hyperplasia, Lymphoid																										**1 2.0**
INTEGUMENTARY SYSTEM																										
Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Cyst Epithelial Inclusion													X													**2**
Inflammation				2																						**3 3.0**
Ulcer																										**1 4.0**
MUSCULOSKELETAL SYSTEM																										

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2) Mild 4) Marked

DAY ON TEST / HARLAN SPRAGUE DAWLEY RATS MALE 300/20 ppm / ANIMAL ID	0478 00206	0743 00207	0743 00208	0743 00209	0743 00210	0746 00211	0746 00212	0747 00213	0747 00214	0746 00215	0241 00216	0744 00217	0744 00218	0745 00219	0465 00220	0746 00221	0746 00222	0745 00223	0711 00224	0746 00225	0746 00226	0744 00227	0744 00228	0747 00229	0739 00230	* TOTALS	
Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Joint, Arthrosis																										**1**	**4.0**
Skeletal Muscle															+											**1**	
NERVOUS SYSTEM																											
Brain	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Necrosis											2															**1**	**2.0**
Peripheral Nerve																										**1**	
Axon, Degeneration																										**1**	**2.0**
Spinal Cord																										**1**	
Nerve, Degeneration																										**1**	**2.0**
RESPIRATORY SYSTEM																											
Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Infiltration Cellular, Histiocyte	1	1			2				1	1		2					1	3		4		1	2	4		**21**	**2.0**
Inflammation, Granulomatous, Multifocal						1														1			1	1	1	**11**	**1.0**
Inflammation, Chronic Active																										**2**	**1.0**
Alveolar Epithelium, Hyperplasia						1								3		1								1		**4**	**1.5**
Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Olfactory Epithelium, Accumulation, Hyaline Droplet	2	3	3	3	2	2	3	1	4	1	2	3	2	2	4	4	2	2	1	3	3	2	1	2	2	**49**	**2.4**
Olfactory Epithelium, Inflammation																						1				**1**	**1.0**
Olfactory Epithelium, Metaplasia																						1				**1**	**1.0**
Respiratory Epithelium, Inflammation				1	1												1		1							**6**	**1.5**

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DAY ON TEST / HARLAN SPRAGUE DAWLEY RATS MALE 300/20 ppm / ANIMAL ID	0478 00206	0743 00207	0743 00208	0743 00209	0743 00210	0746 00211	0746 00212	0747 00213	0747 00214	0746 00215	0241 00216	0744 00217	0744 00218	0745 00219	0465 00220	0746 00221	0746 00222	0745 00223	0711 00224	0746 00225	0746 00226	0744 00227	0744 00228	0747 00229	0739 00230	* TOTALS		
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**		
SPECIAL SENSES SYSTEM																												
Eye	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**		
Cornea, Inflammation							2							1								1				**3**	**1.3**
Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**		
Zymbal's Gland																										**1**		
URINARY SYSTEM																												
Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**		
Accumulation, Hyaline Droplet															2											**1**	**2.0**
Infarct																										**2**	**1.0**
Mineral																										**1**	**2.0**
Nephropathy, Chronic Progressive	1	1	3	3	1	4	3	2	1	3	1	1	2	3	1	3	2	3	2	4	2	1	2	4	3	**49**	**2.4**
Cortex, Cyst						X																				**1**		
Papilla, Urothelium, Hyperplasia																									1	**2**	**1.0**
Renal Tubule, Necrosis																										**1**	**3.0**
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**		
Infiltration Cellular, Mast Cell																										**1**	**1.0**

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DAY ON TEST	074	074	074	072	074	073	053	074	024	074	074	031	074	074	074	074	074	074	074	074	074	021	074	070	074	
HARLAN SPRAGUE DAWLEY RATS MALE	7	7	7	5	3	6	5	3	1	6	6	4	7	7	3	3	5	5	6	6	3	8	5	0	3	
0/40 ppm ANIMAL ID	00241	00242	00243	00244	00245	00246	00247	00248	00249	00250	00251	00252	00253	00254	00255	00256	00257	00258	00259	00260	00261	00262	00263	00264	00265	**males (cont...)**
ALIMENTARY SYSTEM																										
Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Parasite Metazoan		X					X		X					X	X				X		X					
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Basophilic Focus						X			X																	
Clear Cell Focus	X		X		X	X		X			X		X	X	X	X	X	X	X	X	X		X		X	
Degeneration, Cystic			1					1					1													
Eosinophilic Focus														X				X					X			
Extramedullary Hematopoiesis																										
Fatty Change																					1					
Fatty Change, Focal																							1			
Fatty Change, Diffuse				3																						
Inflammation, Focal	1	1			1								1	1			1				1		1	1		
Mixed Cell Focus			X							X								X					X			
Necrosis		1					2	1		1	2		1				1		2		2				1	
Pigment			1					1		1	1		1		1						1		1			

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DAY ON TEST / HARLAN SPRAGUE DAWLEY RATS MALE 0/40 ppm / ANIMAL ID	074 47 0024 41	074 47 0024 42	074 47 0024 43	072 25 0024 44	074 43 0024 45	073 36 0024 46	053 35 0024 47	074 43 0024 48	024 41 0024 49	074 46 0025 50	074 46 0025 51	031 14 0025 52	074 47 0025 53	074 47 0025 54	074 43 0025 55	074 43 0025 56	074 45 0025 57	074 45 0025 58	074 46 0025 59	074 46 0026 60	074 43 0026 61	021 18 0026 62	074 45 0026 63	070 00 0026 64	074 43 0026 65	males (cont...)
Arteriole, Necrosis							1																			
Bile Duct, Hyperplasia										1																
Hepatocyte, Cytoplasmic Alteration							1	2	2	1	2		2	1		2	1	2	1	2	2	3	2		2	
Hepatocyte, Hypertrophy							1	1	2	1	1		2	1		2	1	2	1	2	1	3	1		1	
Hepatocyte, Single Cell Death									2					1								3				
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Basophilic Focus																										
Inflammation, Chronic Active	1																	1								
Acinus, Atrophy	2	1			1										1		1			1	1		1		2	
Acinus, Hyperplasia	4	2			4	4		4		3	4		2	4	4	4		4	2	4	4		4		4	
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Inflammation																										
Epithelium, Hyperplasia, Squamous													1													
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
CARDIOVASCULAR SYSTEM																										
Blood Vessel	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Inflammation																										
Inflammation, Chronic			2																							
Mineral																			1					1		
Aorta, Mineral										1																
Aorta, Pulmonary Artery, Mineral																										
Pulmonary Artery, Mineral																							1			

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HARLAN SPRAGUE DAWLEY RATS MALE
0/40 ppm

DAY ON TEST	074 7	074 7	074 7	072 5	074 3	073 6	053 5	074 3	024 1	074 6	074 6	031 4	074 7	074 7	074 3	074 3	074 5	074 5	074 6	074 6	074 3	021 8	074 5	070 0	074 3	
ANIMAL ID	00241	00242	00243	00244	00245	00246	00247	00248	00249	00250	00251	00252	00253	00254	00255	00256	00257	00258	00259	00260	00261	00262	00263	00264	00265	**males (cont...)**
Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Cardiomyopathy	1	1	3		1		2	1	1	1	1			1	1	1	1			2	2					
Mineral							1															1				
Necrosis																						1				
ENDOCRINE SYSTEM																										
Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Degeneration, Cystic										1			1													
Hypertrophy			1		1									1			1	1		1	1			1		
Zona Fasciculata, Hyperplasia															1				1							
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hyperplasia															3					4						
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hyperplasia			2			2											1									
Metaplasia, Hepatocyte			2																							
Parathyroid Gland	M	M	+	M	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	M	+	+	+	M	M	
Hyperplasia																										
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Pars Distalis, Hyperplasia	1		1								1		1	1		3	2				1		3			
Rathke's Cleft, Hyperplasia																										
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
C-cell, Hyperplasia		1													1					4	2				3	
Follicular Cell, Hyperplasia																										

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DAY ON TEST / HARLAN SPRAGUE DAWLEY RATS MALE 0/40 ppm / ANIMAL ID	074 7 00241	074 7 00242	074 7 00243	072 5 00244	074 3 00245	073 6 00246	053 5 00247	074 3 00248	024 1 00249	074 6 00250	074 6 00251	031 4 00252	074 7 00253	074 7 00254	074 3 00255	074 3 00256	074 5 00257	074 5 00258	074 6 00259	074 6 00260	074 3 00261	021 8 00262	074 5 00263	070 0 00264	074 3 00265	males (cont...)
Follicular Cell, Hypertrophy		1		1												3								1		
GENERAL BODY SYSTEM																										
NONE																										
GENITAL SYSTEM																										
Epididymis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Preputial Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Inflammation																										
Prostate	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Inflammation		1																								
Dorsal, Inflammation, Chronic Active								1																		
Epithelium, Ventral, Hyperplasia	1																									
Ventral, Inflammation, Chronic Active		1		3		2					1				1	2										
Seminal Vesicle	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Testes	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Bilateral, Germinal Epithelium, Degeneration			1			3																				
Germinal Epithelium, Degeneration				3					1		1		1													
HEMATOPOIETIC SYSTEM																										
Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hyperplasia																										
Myelofibrosis																										

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DAY ON TEST / HARLAN SPRAGUE DAWLEY RATS MALE 0/40 ppm / ANIMAL ID	074 7 0024 41	074 7 0024 42	074 7 0024 43	072 5 0024 44	074 3 0024 45	073 6 0024 46	053 5 0024 47	074 3 0024 48	024 1 0024 49	074 6 0025 50	074 6 0025 51	031 4 0025 52	074 7 0025 53	074 7 0025 54	074 3 0025 55	074 3 0025 56	074 5 0025 57	074 5 0025 58	074 6 0025 59	074 6 0026 60	074 3 0026 61	021 8 0026 62	074 5 0026 63	070 0 0026 64	074 3 0026 65	males (cont...)
Lymph Node				+																	+					
Mediastinal, Hyperplasia, Lymphoid																										
Mediastinal, Infiltration Cellular, Plasma Cell																										
Lymph Node, Mandibular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Atrophy																			1							
Ectasia														2												
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Atrophy																						2				
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Extramedullary Hematopoiesis		2	2			2		1		2	2		1	2	2	1	2	2	1		1		1	1	1	
Infarct																										
Pigment	1				1	1	2		2	1	1		1		1	1	1	1		1	1	1	1	1	1	
Capsule, Cyst															X											
Lymphoid Follicle, Atrophy							3		3													3				
Lymphoid Follicle, Hyperplasia																										
Thymus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	
Atrophy	2	3	3		3	4	3	3	1	4	3	2	3	3		2	3	3	2	2	3	2	1	3	2	
INTEGUMENTARY SYSTEM																										
Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Inflammation					2																					
MUSCULOSKELETAL SYSTEM																										

DAY ON TEST	074 7	074 7	074 7	072 5	074 3	073 6	053 5	074 3	024 1	074 6	074 6	031 4	074 7	074 7	074 3	074 3	074 5	074 5	074 6	074 6	074 3	021 8	074 5	070 0	074 3	
HARLAN SPRAGUE DAWLEY RATS MALE																										
0/40 ppm ANIMAL ID	002 41	002 42	002 43	002 44	002 45	002 46	002 47	002 48	002 49	002 50	002 51	002 52	002 53	002 54	002 55	002 56	002 57	002 58	002 59	002 60	002 61	002 62	002 63	002 64	002 65	**males (cont...)**
Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Osteopetrosis														1												
Skeletal Muscle				+																						
NERVOUS SYSTEM																										
Brain	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Necrosis									4													3				
Peripheral Nerve																										
Axon, Degeneration																										
Spinal Cord																										
Nerve, Degeneration																										
RESPIRATORY SYSTEM																										
Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Foreign Body							X			X																
Infiltration Cellular, Histiocyte			3		2	2						2	1			2	3	2			1	1	2	1	4	
Inflammation, Granulomatous, Multifocal															1											
Inflammation, Acute				1			3			4																
Inflammation, Chronic Active																			1						1	
Alveolar Epithelium, Hyperplasia															1											
Alveolar Epithelium, Hypertrophy																			1							
Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Glands, Olfactory Epithelium, Inflammation																										
Glands, Respiratory Epithelium, Inflammation																					1					

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2) Mild 4) Marked

DAY ON TEST / HARLAN SPRAGUE DAWLEY RATS MALE 0/40 ppm / ANIMAL ID	074 47	074 47	074 47	072 55	074 43	073 36	053 55	074 43	024 41	074 46	074 46	031 44	074 47	074 47	074 43	074 43	074 43	074 45	074 45	074 46	074 46	074 43	021 88	074 45	070 00	074 43
	00241	00242	00243	00244	00245	00246	00247	00248	00249	00250	00251	00252	00253	00254	00255	00256	00257	00258	00259	00260	00261	00262	00263	00264	00265	**males (cont...)**
Nasolacrimal Duct, Inflammation					1																					
Olfactory Epithelium, Accumulation, Hyaline Droplet	2	4	2	2	2		1	1		1		4	1	2	2	4	2	3	3	2	2		1		4	
Olfactory Epithelium, Respiratory Epithelium, Inflammation										4																
Respiratory Epithelium, Inflammation																	1									
Respiratory Epithelium, Metaplasia, Mucous																					1					
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
SPECIAL SENSES SYSTEM																										
Eye	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Cornea, Inflammation																										
Retina, Degeneration	1																									
Retina, Gliosis, Focal																							1			
Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Metaplasia																										
URINARY SYSTEM																										
Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Infarct				1									1													
Mineral												1												1		
Nephropathy, Chronic Progressive	2	2	3	1	2	2	2	1	1	3	1	1	2	2	3	2	2	2	2	3	3		2	3	2	
Cortex, Cyst																										
Papilla, Necrosis																										
Papilla, Urothelium, Hyperplasia																										
Pelvis, Inflammation														1												

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DAY ON TEST	074	074	074	072	074	073	053	074	024	074	074	031	074	074	074	074	074	074	074	074	074	021	074	070	074	
HARLAN SPRAGUE DAWLEY RATS MALE	7	7	7	5	3	6	5	3	1	6	6	4	7	7	3	3	5	5	6	6	3	8	5	0	3	
0/40 ppm ANIMAL ID	00241	00242	00243	00244	00245	00246	00247	00248	00249	00250	00251	00252	00253	00254	00255	00256	00257	00258	00259	00260	00261	00262	00263	00264	00265	**males (cont...)**
Renal Tubule, Necrosis									1																	
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hemorrhage																										
Inflammation				1																						

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DAY ON TEST / HARLAN SPRAGUE DAWLEY RATS MALE 0/40 ppm / ANIMAL ID	074 3 00266	055 7 00267	074 7 00268	074 4 00269	074 4 00270	074 4 00271	053 3 00272	065 9 00273	074 6 00274	074 5 00275	050 2 00276	074 6 00277	074 6 00278	074 5 00279	074 5 00280	013 4 00281	068 3 00282	074 3 00283	074 3 00284	074 4 00285	074 4 00286	069 7 00287	074 5 00288	053 3 00289	074 4 00290	* TOTALS		
ALIMENTARY SYSTEM																												
Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**		
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**		
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**		
Parasite Metazoan						X								X	X				X					X		**12**		
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**		
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**		
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**		
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**		
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**		
Basophilic Focus																										**2**		
Clear Cell Focus	X			X	X	X			X	X		X	X	X	X			X	X	X	X		X		X	**33**		
Degeneration, Cystic					1					1			1						1							**7**	**1.0**	
Eosinophilic Focus			X														X									**5**		
Extramedullary Hematopoiesis						1	1				1					1										**4**	**1.0**	
Fatty Change									2																	**2**	**1.5**	
Fatty Change, Focal						1						1														**3**	**1.0**	
Fatty Change, Diffuse																										**1**	**3.0**	
Inflammation, Focal	1					1			1				1	1	1			2						1	1	**18**	**1.1**	
Mixed Cell Focus				X	X								X		X			X								**9**		
Necrosis	2			1				1	1	1				1		1		2	2	1	2		2		2	**23**	**1.4**	
Pigment	1		1					1			2							2			1				1	**15**	**1.1**	

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HARLAN SPRAGUE DAWLEY RATS MALE
0/40 ppm

DAY ON TEST	074 3	055 7	074 7	074 4	074 4	074 4	053 3	065 9	074 6	074 5	050 2	074 6	074 6	074 5	074 5	013 4	068 3	074 3	074 3	074 4	074 4	069 7	074 5	053 3	074 4	
ANIMAL ID	00266	00267	00268	00269	00270	00271	00272	00273	00274	00275	00276	00277	00278	00279	00280	00281	00282	00283	00284	00285	00286	00287	00288	00289	00290	*** TOTALS**
Arteriole, Necrosis																										**1 1.0**
Bile Duct, Hyperplasia	1		1																							**3 1.0**
Hepatocyte, Cytoplasmic Alteration	2		2	1	2		2	1	1	1	1		2	1		1		2	1	2	2		2		2	**34 1.6**
Hepatocyte, Hypertrophy	1		1	1	1		1	1	1	1	1		1	1		2		1	1	1	1		1		1	**34 1.2**
Hepatocyte, Single Cell Death										1	3		2			2			1	1	1		2			**11 1.7**
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Basophilic Focus													X													**1**
Inflammation, Chronic Active																										**2 1.0**
Acinus, Atrophy						2									1										2	**12 1.3**
Acinus, Hyperplasia	4	3	4	2	4	3	1			3	1	3	4	2	4		1	1	1		4	3	4		4	**37 3.2**
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Inflammation																3										**1 3.0**
Epithelium, Hyperplasia, Squamous																4										**2 2.5**
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
CARDIOVASCULAR SYSTEM																										
Blood Vessel	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Inflammation																	2						1			**2 1.5**
Inflammation, Chronic						2									2							2				**4 2.0**
Mineral		1					1																			**4 1.0**
Aorta, Mineral																										**1 1.0**
Aorta, Pulmonary Artery, Mineral																			1							**1 1.0**
Pulmonary Artery, Mineral																										**1 1.0**

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HARLAN SPRAGUE DAWLEY RATS MALE
0/40 ppm

DAY ON TEST	074 3	055 7	074 7	074 4	074 4	074 4	053 3	065 9	074 6	074 5	050 2	074 6	074 6	074 5	074 5	013 4	068 3	074 3	074 3	074 4	074 4	069 7	074 5	053 3	074 4	
ANIMAL ID	00 266	00 267	00 268	00 269	00 270	00 271	00 272	00 273	00 274	00 275	00 276	00 277	00 278	00 279	00 280	00 281	00 282	00 283	00 284	00 285	00 286	00 287	00 288	00 289	00 290	* TOTALS
Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Cardiomyopathy		1			1	3			1		1	1					1	1	1		1	3		1	1	**28 1.3**
Mineral																										**2 1.0**
Necrosis																										**1 1.0**
ENDOCRINE SYSTEM																										
Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Degeneration, Cystic										1								1								**4 1.0**
Hypertrophy						1	1						1		1		1		1				1			**15 1.0**
Zona Fasciculata, Hyperplasia																										**2 1.0**
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Hyperplasia										2												1		1		**5 2.2**
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Hyperplasia				2											3										2	**6 2.0**
Metaplasia, Hepatocyte																										**1 2.0**
Parathyroid Gland	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	M	+	+	M	M	38
Hyperplasia																						2				**1 2.0**
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Pars Distalis, Hyperplasia			3		2	2			2	1	1		1	2	2			1		1		1	2	3	1	**24 1.6**
Rathke's Cleft, Hyperplasia																			1							**1 1.0**
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
C-cell, Hyperplasia			1		3												1									**8 2.0**
Follicular Cell, Hyperplasia															1											**1 1.0**

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HARLAN SPRAGUE DAWLEY RATS MALE 0/40 ppm	DAY ON TEST	074 3	055 7	074 7	074 4	074 4	074 4	053 3	065 9	074 6	074 5	050 2	074 6	074 6	074 5	074 5	013 4	068 3	074 3	074 3	074 4	074 4	074 4	069 7	074 5	053 3	074 4	
	ANIMAL ID	002 66	002 67	002 68	002 69	002 70	002 71	002 72	002 73	002 74	002 75	002 76	002 77	002 78	002 79	002 80	002 81	002 82	002 83	002 84	002 85	002 86	002 87	002 88	002 89	002 90	*** TOTALS**	
Follicular Cell, Hypertrophy			3																					3			3	**7 2.1**
GENERAL BODY SYSTEM																												
NONE																												
GENITAL SYSTEM																												
Epididymis		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Preputial Gland		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Inflammation																								4			**1 4.0**	
Prostate		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Inflammation																							1				**2 1.0**	
Dorsal, Inflammation, Chronic Active																											**1 1.0**	
Epithelium, Ventral, Hyperplasia				1																							**2 1.0**	
Ventral, Inflammation, Chronic Active		2									2																**8 1.8**	
Seminal Vesicle		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Testes		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Bilateral, Germinal Epithelium, Degeneration							2																1				**4 1.8**	
Germinal Epithelium, Degeneration																		4	3	4							**7 2.4**	
HEMATOPOIETIC SYSTEM																												
Bone Marrow		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Hyperplasia								3	3			4					2										**4 3.0**	
Myelofibrosis																								1			**1 1.0**	

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HARLAN SPRAGUE DAWLEY RATS MALE
0/40 ppm

DAY ON TEST	074 3	055 7	074 7	074 4	074 4	074 4	053 3	065 9	074 6	074 5	050 2	074 6	074 6	074 5	074 5	013 4	068 3	074 3	074 3	074 4	074 4	069 7	074 5	053 3	074 4	
ANIMAL ID	00266	00267	00268	00269	00270	00271	00272	00273	00274	00275	00276	00277	00278	00279	00280	00281	00282	00283	00284	00285	00286	00287	00288	00289	00290	*** TOTALS**
Lymph Node																								+		**3**
Mediastinal, Hyperplasia, Lymphoid																								3		**1 3.0**
Mediastinal, Infiltration Cellular, Plasma Cell																								2		**1 2.0**
Lymph Node, Mandibular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Atrophy																										**1 1.0**
Ectasia																										**1 2.0**
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Atrophy																										**1 2.0**
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Extramedullary Hematopoiesis	1		2	1	2	1	3		1	1	3	1	1	1	1		1	1	1	1	1	2	2		2	**38 1.5**
Infarct																				1						**1 1.0**
Pigment	1	1	1	1	1				1			1					1			1	1	1		1	1	**31 1.1**
Capsule, Cyst																										**1**
Lymphoid Follicle, Atrophy		2																								**4 2.8**
Lymphoid Follicle, Hyperplasia																1										**1 1.0**
Thymus	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**48**
Atrophy	3	4	2	1	3	2	3		2	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	**47 2.7**

INTEGUMENTARY SYSTEM

Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Inflammation																										**1 2.0**

MUSCULOSKELETAL SYSTEM

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DAY ON TEST	074	055	074	074	074	074	053	065	074	074	050	074	074	074	074	013	068	074	074	074	074	069	074	053	074	
HARLAN SPRAGUE DAWLEY RATS MALE	3	7	7	4	4	4	3	9	6	5	2	6	6	5	5	4	3	3	3	4	4	7	5	3	4	
0/40 ppm ANIMAL ID	00266	00267	00268	00269	00270	00271	00272	00273	00274	00275	00276	00277	00278	00279	00280	00281	00282	00283	00284	00285	00286	00287	00288	00289	00290	*** TOTALS**
Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Osteopetrosis																										**1 1.0**
Skeletal Muscle																										**1**
NERVOUS SYSTEM																										
Brain	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Necrosis																										**2 3.5**
Peripheral Nerve																	+									**1**
Axon, Degeneration																	1									**1 1.0**
Spinal Cord																	+									**1**
Nerve, Degeneration																	2									**1 2.0**
RESPIRATORY SYSTEM																										
Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Foreign Body																										**2**
Infiltration Cellular, Histiocyte				2	3		1	3	1		2		3						2	4			2	2	4	**25 2.2**
Inflammation, Granulomatous, Multifocal									1																	**2 1.0**
Inflammation, Acute																										**3 2.7**
Inflammation, Chronic Active				1																		1		3		**5 1.4**
Alveolar Epithelium, Hyperplasia										2																**2 1.5**
Alveolar Epithelium, Hypertrophy																										**1 1.0**
Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Glands, Olfactory Epithelium, Inflammation									1																	**1 1.0**
Glands, Respiratory Epithelium, Inflammation															1											**2 1.0**

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

HARLAN SPRAGUE DAWLEY RATS MALE
0/40 ppm

DAY ON TEST	074 3	055 7	074 7	074 4	074 4	074 4	053 3	065 9	074 6	074 5	050 2	074 6	074 6	074 5	074 5	013 4	068 3	074 3	074 3	074 4	074 4	069 7	074 5	053 3	074 4	
ANIMAL ID	00 266	00 267	00 268	00 269	00 270	00 271	00 272	00 273	00 274	00 275	00 276	00 277	00 278	00 279	00 280	00 281	00 282	00 283	00 284	00 285	00 286	00 287	00 288	00 289	00 290	* TOTALS
Nasolacrimal Duct, Inflammation																										**1 1.0**
Olfactory Epithelium, Accumulation, Hyaline Droplet	4	2	2	3	3	2	2	2	2	2	1	4	2	2	3		2	2	4		3		2	2	2	**42 2.3**
Olfactory Epithelium, Respiratory Epithelium, Inflammation		4																								**2 4.0**
Respiratory Epithelium, Inflammation																										**1 1.0**
Respiratory Epithelium, Metaplasia, Mucous																										**1 1.0**
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
SPECIAL SENSES SYSTEM																										
Eye	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Cornea, Inflammation																	2									**1 2.0**
Retina, Degeneration				1																						**2 1.0**
Retina, Gliosis, Focal																										**1 1.0**
Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Metaplasia										2																**1 2.0**
URINARY SYSTEM																										
Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Infarct			1																							**3 1.0**
Mineral								3																		**3 1.7**
Nephropathy, Chronic Progressive	2	3	1	2	2	4	1		2	2		2	1	1	3	1	4	1	1	2	1	4	2	2	2	**47 2.0**
Cortex, Cyst				X		X																				**2**
Papilla, Necrosis										1																**1 1.0**
Papilla, Urothelium, Hyperplasia						1																				**1 1.0**
Pelvis, Inflammation																										**1 1.0**

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HARLAN SPRAGUE DAWLEY RATS MALE
0/40 ppm

DAY ON TEST	0743	0557	0747	0744	0744	0744	0533	0659	0746	0745	0502	0746	0746	0745	0745	0134	0683	0743	0743	0744	0744	0744	0697	0745	0533	0744	
ANIMAL ID	00266	00267	00268	00269	00270	00271	00272	00273	00274	00275	00276	00277	00278	00279	00280	00281	00282	00283	00284	00285	00286	00287	00288	00289	00290	*** TOTALS**	
Renal Tubule, Necrosis																										**1**	**1.0**
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Hemorrhage								4																		**1**	**4.0**
Inflammation																										**1**	**1.0**

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

DAY ON TEST	074 3	074 3	056 1	074 6	074 5	071 5	074 3	074 3	074 5	074 5	072 2	073 9	074 4	074 4	011 6	074 3	074 3	074 3	074 6	070 1	074 4	074 4	074 6	074 6	074 5	
HARLAN SPRAGUE DAWLEY RATS MALE																										
300/40 ppm 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	**males (cont...)**
ALIMENTARY SYSTEM																										
Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Inflammation			2																							
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Parasite Metazoan						X	X												X	X	X		X			
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Amyloid Deposition																										
Basophilic Focus																										
Clear Cell Focus	X			X	X		X	X		X			X	X		X	X		X		X	X	X	X	X	
Degeneration, Cystic							1						1								1					
Eosinophilic Focus	X																									
Fatty Change, Focal																										
Inflammation, Focal	1	1		1		1		1		1	1		3			1					1				1	
Mixed Cell Focus	X																				X					
Necrosis		1					1										2	1				1			1	
Pigment	1							1									2				1				1	
Bile Duct, Hyperplasia										1																

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DAY ON TEST / HARLAN SPRAGUE DAWLEY RATS MALE 300/40 ppm / ANIMAL ID	074 3	074 3	056 1	074 6	074 5	071 5	074 3	074 3	074 5	074 5	072 2	073 9	074 4	074 4	011 6	074 3	074 3	074 3	074 6	070 1	074 4	074 4	074 6	074 6	074 5	males (cont...)
	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	
Hepatocyte, Cytoplasmic Alteration	2			1	1		2	1		2			1		2		2		1		2	1	1		1	
Hepatocyte, Hypertrophy	1		2	1	2		2	1		2			1		2		2		1		2	1	1		1	
Hepatocyte, Single Cell Death	1														3		2					1				
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Inflammation																										
Inflammation, Chronic Active	1													4												
Acinus, Atrophy	1					1	1		1							1		1			1	2				
Acinus, Hyperplasia	4	1		4	4	4	4	3	2	4		4	4	4		1	4	1	4	1	2	4		4	4	
Duct, Degeneration, Mucoid																										
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Inflammation			2												4							1				
Perforation															X											
Ulcer															4											
Epithelium, Hyperplasia, Basal Cell																										
Epithelium, Hyperplasia, Squamous															3											
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Mineral												3														
CARDIOVASCULAR SYSTEM																										
Blood Vessel	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Inflammation			2																							
Inflammation, Chronic												4														
Mineral	1																									
Adventitia, Aorta, Hemorrhage			2																							

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DAY ON TEST / HARLAN SPRAGUE DAWLEY RATS MALE / 300/40 ppm / ANIMAL ID	074 3 / 003 01	074 3 / 003 02	056 1 / 003 03	074 6 / 003 04	074 5 / 003 05	071 5 / 003 06	074 3 / 003 07	074 3 / 003 08	074 5 / 003 09	074 5 / 003 10	072 2 / 003 11	073 9 / 003 12	074 4 / 003 13	074 4 / 003 14	011 6 / 003 15	074 3 / 003 16	074 3 / 003 17	074 3 / 003 18	074 6 / 003 19	070 1 / 003 20	074 4 / 003 21	074 4 / 003 22	074 6 / 003 23	074 6 / 003 24	074 5 / 003 25	males (cont...)
Aorta, Pulmonary Artery, Mineral												1														
Aorta, Pulmonary Vein, Mineral																										
Pulmonary Artery, Mineral																										
Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Cardiomyopathy			1		1	1		1				3	2		1	1				3	2		2	1		
ENDOCRINE SYSTEM																										
Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Degeneration, Cystic														1			1			1						
Hyperplasia, Focal																										
Hypertrophy				1	1	1	1	1		1			1					1					1	1		
Thrombus												1														
Zona Fasciculata, Hyperplasia						1										2										
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hyperplasia												3				1										
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hyperplasia	1			4			1	1																	1	
Metaplasia, Hepatocyte				1																						
Parathyroid Gland	+	M	+	+	+	M	+	+	+	M	+	+	+	+	+	+	+	+	M	+	+	M	+	+	+	
Hyperplasia			1																							
Hyperplasia, Focal																										
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hemorrhage																				4						
Pars Distalis, Hyperplasia	1							2				1				1			4		1		1		1	

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DAY ON TEST / HARLAN SPRAGUE DAWLEY RATS MALE 300/40 ppm / ANIMAL ID	074 3 / 003 01	074 3 / 003 02	056 1 / 003 03	074 6 / 003 04	074 5 / 003 05	071 5 / 003 06	074 3 / 003 07	074 3 / 003 08	074 5 / 003 09	074 5 / 003 10	072 2 / 003 11	073 9 / 003 12	074 4 / 003 13	074 4 / 003 14	011 6 / 003 15	074 3 / 003 16	074 3 / 003 17	074 3 / 003 18	074 6 / 003 19	070 1 / 003 20	074 4 / 003 21	074 4 / 003 22	074 6 / 003 23	074 6 / 003 24	074 5 / 003 25	males (cont...)
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
C-cell, Hyperplasia								2		2			2					2					2			
Follicular Cell, Hyperplasia							1																			
Follicular Cell, Hypertrophy				3	2				3						3					1	2					
GENERAL BODY SYSTEM																										
NONE																										
GENITAL SYSTEM																										
Epididymis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Preputial Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Inflammation																										
Prostate	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Epithelium, Ventral, Hyperplasia							1	1																		
Lateral, Inflammation, Chronic Active																										
Ventral, Inflammation, Chronic Active							1	1			2	2						1					2			
Seminal Vesicle	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Testes	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Bilateral, Germinal Epithelium, Degeneration												4														
Germinal Epithelium, Degeneration											1															
HEMATOPOIETIC SYSTEM																										
Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	

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DAY ON TEST / HARLAN SPRAGUE DAWLEY RATS MALE 300/40 ppm / ANIMAL ID	074 3 / 003 01	074 3 / 003 02	056 1 / 003 03	074 6 / 003 04	074 5 / 003 05	071 5 / 003 06	074 3 / 003 07	074 3 / 003 08	074 5 / 003 09	074 5 / 003 10	072 2 / 003 11	073 9 / 003 12	074 4 / 003 13	074 4 / 003 14	011 6 / 003 15	074 3 / 003 16	074 3 / 003 17	074 3 / 003 18	074 6 / 003 19	070 1 / 003 20	074 4 / 003 21	074 4 / 003 22	074 6 / 003 23	074 6 / 003 24	074 5 / 003 25	males (cont...)
Hyperplasia			2									4			3			2								
Lymph Node																								+		
Mediastinal, Pigment																										
Pancreatic, Pigment																										
Lymph Node, Mandibular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Atrophy			3																							
Hyperplasia, Lymphoid																										
Infiltration Cellular, Plasma Cell																										
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Atrophy											3															
Hyperplasia, Lymphoid															2											
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Extramedullary Hematopoiesis	2	1		1	2	1	1	1	1	2		2	1	2		1	1		2	1	1	1	2	2	2	
Pigment	1	1	1	1	1	1		1	1	1	2	2	1	1		1	1	1	1	1	1	1	1		1	
Lymphoid Follicle, Atrophy			2			1									1					2						
Thymus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Atrophy	2	2	4	2	2	4	3	3	3	3	3	4	3	3	2	3	3	2	2	3		3	2	2	3	
INTEGUMENTARY SYSTEM																										
Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Inflammation																					1					
Inflammation, Suppurative																										

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DAY ON TEST	074 3	074 3	056 1	074 6	074 5	071 5	074 3	074 3	074 5	074 5	072 2	073 9	074 4	074 4	011 6	074 3	074 3	074 3	074 6	070 1	074 4	074 4	074 6	074 6	074 5	
HARLAN SPRAGUE DAWLEY RATS MALE																										
300/40 ppm 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	**males (cont...)**
Epidermis, Hyperplasia																					2					
MUSCULOSKELETAL SYSTEM																										
Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
NERVOUS SYSTEM																										
Brain	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Necrosis						1																				
RESPIRATORY SYSTEM																										
Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Infiltration Cellular, Histiocyte	1			2			3							3		4	1		1	1	2	3	4		2	
Inflammation, Granulomatous, Multifocal				1													1				1					
Inflammation, Chronic Active							1					1	1													
Alveolar Epithelium, Hyperplasia																				1						
Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Glands, Respiratory Epithelium, Inflammation			1						1				1				1		1			1				
Olfactory Epithelium, Accumulation, Hyaline Droplet	4	2	2	2	1	2	2		2	2		2	3	4		2	2	3	2	4	4	3	3	2	4	
Olfactory Epithelium, Necrosis												2														
Olfactory Epithelium, Respiratory Epithelium, Inflammation												3														
Respiratory Epithelium, Inflammation																				1				1		
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
SPECIAL SENSES SYSTEM																										

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HARLAN SPRAGUE DAWLEY RATS MALE
300/40 ppm

DAY ON TEST	074	074	056	074	074	071	074	074	074	074	072	073	074	074	011	074	074	074	074	070	074	074	074	074	074	**males (cont...)**
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	
Eye	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Cornea, Inflammation												2														
Retina, Degeneration				1																						
Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
URINARY SYSTEM																										
Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Infarct								1											1			1				
Nephropathy, Chronic Progressive	2	2	3	2	2	3		2	3	3	3	4	3	3	2	3	1	1	2	2	2	2	3	3	2	
Cortex, Cyst												X														
Papilla, Urothelium, Hyperplasia																										
Renal Tubule, Necrosis			3																							
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	

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HARLAN SPRAGUE DAWLEY RATS MALE

300/40 ppm

DAY ON TEST	074 5	074 4	074 4	074 6	074 6	074 7	074 7	074 4	068 3	074 7	074 7	064 8	062 4	074 6	074 6	074 5	074 5	026 0	074 7	070 8	074 4	074 5	064 5	074 7	074 7	
ANIMAL ID	00326	00327	00328	00329	00330	00331	00332	00333	00334	00335	00336	00337	00338	00339	00340	00341	00342	00343	00344	00345	00346	00347	00348	00349	00350	* TOTALS
ALIMENTARY SYSTEM																										
Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Inflammation																										**1 2.0**
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Parasite Metazoan									X						X							X			X	**10**
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Amyloid Deposition																				2						**1 2.0**
Basophilic Focus												X														**1**
Clear Cell Focus		X	X	X	X	X	X	X			X		X	X	X	X	X				X	X		X	X	**33**
Degeneration, Cystic																										**3 1.0**
Eosinophilic Focus																										**1**
Fatty Change, Focal																1										**1 1.0**
Inflammation, Focal		1		1					1		1		1	1		1						1				**19 1.1**
Mixed Cell Focus															X	X										**4**
Necrosis	1		1			1					1				2		1						1	1		**14 1.1**
Pigment		1							2		1			2	1	2										**11 1.4**
Bile Duct, Hyperplasia														1												**2 1.0**

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HARLAN SPRAGUE DAWLEY RATS MALE

300/40 ppm

DAY ON TEST / ANIMAL ID	0745 0326	0744 0327	0744 0328	0746 0329	0746 0330	0747 0331	0747 0332	0744 0333	0683 0334	0747 0335	0747 0336	0648 0337	0624 0338	0746 0339	0746 0340	0745 0341	0745 0342	0260 0343	0747 0344	0708 0345	0744 0346	0745 0347	0645 0348	0747 0349	0747 0350	* TOTALS	
Hepatocyte, Cytoplasmic Alteration	1		1	1	2	1	2	2	1		1			1	2	1	1							2	1	**29**	**1.4**
Hepatocyte, Hypertrophy	1		1	1	2	1	1	2						1	1	1	1	2						2	1	**29**	**1.4**
Hepatocyte, Single Cell Death															1											**5**	**1.6**
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Inflammation										2																**1**	**2.0**
Inflammation, Chronic Active	1														1						1					**5**	**1.6**
Acinus, Atrophy	3	3														1					1	2			1	**14**	**1.4**
Acinus, Hyperplasia			4	3	4	4			2	4	1			1	4	4	4		4	3	4	4		4	4	**38**	**3.3**
Duct, Degeneration, Mucoid																					2					**1**	**2.0**
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Inflammation																										**3**	**2.3**
Perforation																										**1**	
Ulcer																										**1**	**4.0**
Epithelium, Hyperplasia, Basal Cell																				3						**1**	**3.0**
Epithelium, Hyperplasia, Squamous										1																**2**	**2.0**
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Mineral																										**1**	**3.0**

CARDIOVASCULAR SYSTEM

Blood Vessel	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Inflammation										1																**2**	**1.5**
Inflammation, Chronic				2								1							2						2	**5**	**2.2**
Mineral												1														**2**	**1.0**
Adventitia, Aorta, Hemorrhage																										**1**	**2.0**

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HARLAN SPRAGUE DAWLEY RATS MALE
300/40 ppm

DAY ON TEST	074 5	074 4	074 4	074 6	074 6	074 7	074 7	074 4	068 3	074 7	074 7	064 8	062 4	074 6	074 6	074 5	074 5	026 0	074 7	070 8	074 4	074 5	064 5	074 7	074 7	
ANIMAL ID	00326	00327	00328	00329	00330	00331	00332	00333	00334	00335	00336	00337	00338	00339	00340	00341	00342	00343	00344	00345	00346	00347	00348	00349	00350	* TOTALS
Aorta, Pulmonary Artery, Mineral																										**1 1.0**
Aorta, Pulmonary Vein, Mineral				1																						**1 1.0**
Pulmonary Artery, Mineral																				1						**1 1.0**
Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Cardiomyopathy					1		1			1		1	2		1		2		2	1	1	2			2	**24 1.5**
ENDOCRINE SYSTEM																										
Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Degeneration, Cystic																										**3 1.0**
Hyperplasia, Focal				3																						**1 3.0**
Hypertrophy	1			1	1		1				1	1							1			1		1	1	**20 1.0**
Thrombus																										**1 1.0**
Zona Fasciculata, Hyperplasia															1									1		**4 1.3**
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Hyperplasia	1		1										1													**5 1.4**
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Hyperplasia		1														1						1				**8 1.4**
Metaplasia, Hepatocyte																										**1 1.0**
Parathyroid Gland	+	+	+	+	+	M	+	+	+	+	+	M	+	+	+	+	+	+	+	+	M	M	M	+	+	**40**
Hyperplasia																										**1 1.0**
Hyperplasia, Focal									1																	**1 1.0**
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Hemorrhage																										**1 4.0**
Pars Distalis, Hyperplasia	3			1	1		4				1		2		2				4			1				**17 1.8**

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HARLAN SPRAGUE DAWLEY RATS MALE
300/40 ppm

DAY ON TEST	074 5	074 4	074 4	074 6	074 6	074 7	074 7	074 4	068 3	074 7	074 7	064 8	062 4	074 6	074 6	074 5	074 5	026 0	074 7	070 8	074 4	074 5	064 5	074 7	074 7	
ANIMAL ID	00326	00327	00328	00329	00330	00331	00332	00333	00334	00335	00336	00337	00338	00339	00340	00341	00342	00343	00344	00345	00346	00347	00348	00349	00350	* TOTALS
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
C-cell, Hyperplasia								1					2			3	1							1		10 1.8
Follicular Cell, Hyperplasia					1																					2 1.0
Follicular Cell, Hypertrophy			1														3				1					9 2.1
GENERAL BODY SYSTEM																										
NONE																										
GENITAL SYSTEM																										
Epididymis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	49
Preputial Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	49
Inflammation																4										1 4.0
Prostate	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Epithelium, Ventral, Hyperplasia														1		1			1							5 1.0
Lateral, Inflammation, Chronic Active												1														1 1.0
Ventral, Inflammation, Chronic Active	2							2		2				2												10 1.7
Seminal Vesicle	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Testes	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	49
Bilateral, Germinal Epithelium, Degeneration		3														3			4							4 3.5
Germinal Epithelium, Degeneration				1			2						1								3				1	6 1.5
HEMATOPOIETIC SYSTEM																										
Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50

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HARLAN SPRAGUE DAWLEY RATS MALE 300/40 ppm	DAY ON TEST	074 5	074 4	074 4	074 6	074 6	074 7	074 7	074 4	068 3	074 7	074 7	064 8	062 4	074 6	074 6	074 5	074 5	026 0	074 7	070 8	074 4	074 5	064 5	074 7	074 7	* TOTALS	
	ANIMAL ID	00326	00327	00328	00329	00330	00331	00332	00333	00334	00335	00336	00337	00338	00339	00340	00341	00342	00343	00344	00345	00346	00347	00348	00349	00350		
Hyperplasia				2									4			2								4			**8**	**2.9**
Lymph Node											+													+			**3**	
Mediastinal, Pigment											2																**1**	**2.0**
Pancreatic, Pigment																								2			**1**	**2.0**
Lymph Node, Mandibular		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Atrophy																					2						**2**	**2.5**
Hyperplasia, Lymphoid													2														**1**	**2.0**
Infiltration Cellular, Plasma Cell													3										2				**2**	**2.5**
Lymph Node, Mesenteric		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Atrophy																											**1**	**3.0**
Hyperplasia, Lymphoid																											**1**	**2.0**
Spleen		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Extramedullary Hematopoiesis		1	2	2	1	2	2	1	1				2	2	2	1	1	1			1	2	1		1	2	**40**	**1.5**
Pigment		1	1	1	1			1		1	2	1			1	1	1			1	2	1	1		1	1	**39**	**1.1**
Lymphoid Follicle, Atrophy							1			3									2		3						**8**	**1.9**
Thymus		+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	M	+	+	**47**	
Atrophy		3	3	2	3	3	3		3	4	3	3	3	3	3	3	3		2	3	4	3	2		4	3	**46**	**2.9**
INTEGUMENTARY SYSTEM																												
Mammary Gland		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Skin		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Inflammation																											**1**	**1.0**
Inflammation, Suppurative													4														**1**	**4.0**

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DAY ON TEST / HARLAN SPRAGUE DAWLEY RATS MALE 300/40 ppm / ANIMAL ID	074 5 003 26	074 4 003 27	074 4 003 28	074 6 003 29	074 6 003 30	074 7 003 31	074 7 003 32	074 4 003 33	068 3 003 34	074 7 003 35	074 7 003 36	064 8 003 37	062 4 003 38	074 6 003 39	074 6 003 40	074 5 003 41	074 5 003 42	026 0 003 43	074 7 003 44	070 8 003 45	074 4 003 46	074 5 003 47	064 5 003 48	074 7 003 49	074 7 003 50	* TOTALS	
Epidermis, Hyperplasia																										**1**	**2.0**
MUSCULOSKELETAL SYSTEM																											
Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
NERVOUS SYSTEM																											
Brain	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Necrosis																										**1**	**1.0**
RESPIRATORY SYSTEM																											
Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Infiltration Cellular, Histiocyte	1			3		3		4		1	4				2	2			2	2			1	1	4	**25**	**2.3**
Inflammation, Granulomatous, Multifocal																										**3**	**1.0**
Inflammation, Chronic Active								1													1					**5**	**1.0**
Alveolar Epithelium, Hyperplasia							1																			**2**	**1.0**
Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Glands, Respiratory Epithelium, Inflammation							1				1															**8**	**1.0**
Olfactory Epithelium, Accumulation, Hyaline Droplet	2	2	2	1	2	2	4	2	3	2	3		2	2	2	2	2		2		3	2	2	2	2	**44**	**2.4**
Olfactory Epithelium, Necrosis																										**1**	**2.0**
Olfactory Epithelium, Respiratory Epithelium, Inflammation																										**1**	**3.0**
Respiratory Epithelium, Inflammation										1											1					**4**	**1.0**
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
SPECIAL SENSES SYSTEM																											

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DAY ON TEST / HARLAN SPRAGUE DAWLEY RATS MALE 300/40 ppm / ANIMAL ID	074 5 / 003 26	074 4 / 003 27	074 4 / 003 28	074 6 / 003 29	074 6 / 003 30	074 7 / 003 31	074 7 / 003 32	074 4 / 003 33	068 3 / 003 34	074 7 / 003 35	074 7 / 003 36	064 8 / 003 37	062 4 / 003 38	074 6 / 003 39	074 6 / 003 40	074 5 / 003 41	074 5 / 003 42	026 0 / 003 43	074 7 / 003 44	070 8 / 003 45	074 4 / 003 46	074 5 / 003 47	064 5 / 003 48	074 7 / 003 49	074 7 / 003 50	* TOTALS	
Eye	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Cornea, Inflammation																						2				**2**	**2.0**
Retina, Degeneration	1											1												1		**4**	**1.0**
Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
URINARY SYSTEM																											
Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Infarct								2																		**4**	**1.3**
Nephropathy, Chronic Progressive	3	1	2	4	1	3	2	1	2	4	3	4	2	2	2	2	3	1	4	1	3	4		2	3	**48**	**2.4**
Cortex, Cyst																										**1**	
Papilla, Urothelium, Hyperplasia																			1							**1**	**1.0**
Renal Tubule, Necrosis																										**1**	**3.0**
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	

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DAY ON TEST / HARLAN SPRAGUE DAWLEY RATS MALE / 0/80 ppm / ANIMAL ID	074 3 / 003 61	043 2 / 003 62	074 4 / 003 63	041 4 / 003 64	019 4 / 003 65	074 5 / 003 66	074 7 / 003 67	074 7 / 003 68	074 7 / 003 69	074 7 / 003 70	010 8 / 003 71	070 1 / 003 72	074 5 / 003 73	047 3 / 003 74	074 5 / 003 75	074 5 / 003 76	045 6 / 003 77	074 3 / 003 78	074 6 / 003 79	074 6 / 003 80	072 6 / 003 81	074 6 / 003 82	074 5 / 003 83	074 5 / 003 84	074 4 / 003 85	males (cont...)
ALIMENTARY SYSTEM																										
Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Parasite Metazoan	X		X													X	X	X						X		
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Epithelium, Muscularis, Inflammation, Chronic Active																										
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Basophilic Focus																						X				
Clear Cell Focus	X		X				X	X	X	X			X		X	X		X	X	X		X	X	X	X	
Cytoplasmic Alteration		1																								
Degeneration, Cystic								2		1					1			1	1		1					
Eosinophilic Focus												X	X		X										X	
Inflammation, Focal	1		2			1	1	1	1				1	1	1			1	1			1	1	1	1	
Mixed Cell Focus															X						X					
Necrosis			2	2		1		1	1				1	2					1							
Pigment				1		4		1	2				2	1	1	4		1	1	1	2	3		2	4	
Bile Duct, Hyperplasia																										

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DAY ON TEST	074 3	043 2	074 4	041 4	019 4	074 5	074 7	074 7	074 7	074 7	010 8	070 1	074 5	047 3	074 5	074 5	045 6	074 3	074 6	074 6	072 6	074 6	074 5	074 5	074 4	
HARLAN SPRAGUE DAWLEY RATS MALE																										
0/80 ppm ANIMAL ID	00361	00362	00363	00364	00365	00366	00367	00368	00369	00370	00371	00372	00373	00374	00375	00376	00377	00378	00379	00380	00381	00382	00383	00384	00385	**males (cont...)**
Hepatocyte, Cytoplasmic Alteration	1		2	2	2	2	2	2	2	2	1	1	2	2	2	1	1	2	2	1	2	2		2	2	
Hepatocyte, Hyperplasia, Nodular																										
Hepatocyte, Hypertrophy	1		2	2	4	2	1	1	1	1	2		1	2	1	1		2	2	1	2	2		1	1	
Hepatocyte, Single Cell Death			1		4	1					3			1			2	1	1	1		1		1	1	
Mesentery																										
Fat, Necrosis																										
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Inflammation, Chronic Active										1																
Acinus, Atrophy									1	2						1		1								
Acinus, Hyperplasia						3	3	4		4			4		4	2		4	1	2		1	4	2	4	
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	
Atrophy																										
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Inflammation																										
Mineral																										
Epithelium, Hyperplasia, Squamous																										
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Inflammation																										
Epithelium, Metaplasia, Squamous																										
CARDIOVASCULAR SYSTEM																										
Blood Vessel	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Inflammation																										
Inflammation, Chronic										2																

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HARLAN SPRAGUE DAWLEY RATS MALE
0/80 ppm

DAY ON TEST	074 3	043 2	074 4	041 4	019 4	074 5	074 7	074 7	074 7	074 7	010 8	070 1	074 5	047 3	074 5	074 5	045 6	074 3	074 6	074 6	072 6	074 6	074 5	074 5	074 4	**males (cont...)**
ANIMAL ID	00361	00362	00363	00364	00365	00366	00367	00368	00369	00370	00371	00372	00373	00374	00375	00376	00377	00378	00379	00380	00381	00382	00383	00384	00385	
Mineral	1											1			1											
Aorta, Mineral																										
Aorta, Pulmonary Artery, Mineral																										
Pulmonary Vein, Thrombus																										
Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Cardiomyopathy	1	1	1			1	1		1	1		2				1			1	1	1			2		
Endocardium, Hyperplasia																										
Myocardium, Hemorrhage											2															
Myocardium, Inflammation																	3									
Valve, Degeneration									1										2							
Valve, Thrombus																	2									
ENDOCRINE SYSTEM																										
Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hypertrophy	1					2		1		1				1						1					1	
Necrosis																										
Zona Fasciculata, Hyperplasia																										
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hyperplasia								1															1			
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hyperplasia																										
Parathyroid Gland	+	+	+	+	+	+	+	+	+	+	M	+	M	+	M	+	M	+	M	+	+	+	+	+	M	
Hyperplasia																										
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	

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DAY ON TEST / HARLAN SPRAGUE DAWLEY RATS MALE 0/80 ppm / ANIMAL ID	074 3 / 003 61	043 2 / 003 62	074 4 / 003 63	041 4 / 003 64	019 4 / 003 65	074 5 / 003 66	074 7 / 003 67	074 7 / 003 68	074 7 / 003 69	074 7 / 003 70	010 8 / 003 71	070 1 / 003 72	074 5 / 003 73	047 3 / 003 74	074 5 / 003 75	074 5 / 003 76	045 6 / 003 77	074 3 / 003 78	074 6 / 003 79	074 6 / 003 80	072 6 / 003 81	074 6 / 003 82	074 5 / 003 83	074 5 / 003 84	074 4 / 003 85	males (cont...)
Pars Distalis, Hyperplasia	1					1	1		1	4			1		1					1						
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	
C-cell, Hyperplasia																1				2				1		
Follicular Cell, Hypertrophy			2					1		2				3	1			1					2		2	
GENERAL BODY SYSTEM																										
NONE																										
GENITAL SYSTEM																										
Epididymis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Preputial Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Inflammation																										
Prostate	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Dorsal, Inflammation, Chronic Active																										
Dorsal, Lateral, Inflammation, Chronic Active																										
Epithelium, Ventral, Hyperplasia																		2			1					
Lateral, Inflammation, Chronic Active																							1			
Ventral, Inflammation, Chronic Active		4									1	1														
Seminal Vesicle	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Testes	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Edema																										
Bilateral, Germinal Epithelium, Degeneration						2										4										
Germinal Epithelium, Degeneration							1							1												

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HARLAN SPRAGUE DAWLEY RATS MALE																										
0/80 ppm																										
ANIMAL ID	003 61	003 62	003 63	003 64	003 65	003 66	003 67	003 68	003 69	003 70	003 71	003 72	003 73	003 74	003 75	003 76	003 77	003 78	003 79	003 80	003 81	003 82	003 83	003 84	003 85	**males (cont...)**
HEMATOPOIETIC SYSTEM																										
Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hyperplasia					2						2						2									
Lymph Node, Mandibular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	
Atrophy		2					2																			
Hyperplasia, Lymphoid																										
Infiltration Cellular, Plasma Cell										1								2	1							
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hyperplasia, Lymphoid										2									2							
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Extramedullary Hematopoiesis	1		1			1	1	1	1	1		1		2	2	1		2			1		2	1	1	
Hemorrhage																										
Pigment			1		1		1		1			1	1			1		1		1	1	1	1	1	1	
Lymphoid Follicle, Atrophy					3						2										1					
Thymus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	
Atrophy	3		2	3	1	3	3	3	2	3		3	2	1	4	2		3	4	3	3	3	3	4	1	
INTEGUMENTARY SYSTEM																										
Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Foreign Body												X														
Hyperkeratosis																										
Inflammation												2														

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DAY ON TEST / HARLAN SPRAGUE DAWLEY RATS MALE 0/80 ppm / ANIMAL ID	074 361	043 362	074 363	041 364	019 365	074 366	074 367	074 368	074 369	074 370	010 371	070 372	074 373	047 374	074 375	074 376	045 377	074 378	074 379	074 380	072 381	074 382	074 383	074 384	074 385	males (cont...)
Ulcer												1														
MUSCULOSKELETAL SYSTEM																										
Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
NERVOUS SYSTEM																										
Brain	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Inflammation																	1									
Necrosis					3						4															
RESPIRATORY SYSTEM																										
Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Infiltration Cellular, Histiocyte	1	2	3				3		2					3	3				1		1	3		3		
Inflammation, Granulomatous, Multifocal														1				1								
Inflammation, Chronic Active			1				1												1							
Alveolar Epithelium, Hyperplasia										1									1							
Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Olfactory Epithelium, Accumulation, Hyaline Droplet	2	2	2	4			1	2	2				4	3	1	2	2	2	2	3	1	1	1		2	
Respiratory Epithelium, Inflammation			1																							
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
SPECIAL SENSES SYSTEM																										
Eye	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Cornea, Inflammation												1														

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DAY ON TEST / HARLAN SPRAGUE DAWLEY RATS MALE 0/80 ppm / ANIMAL ID	0743 0361	0432 0362	0744 0363	0414 0364	0194 0365	0745 0366	0747 0367	0747 0368	0747 0369	0747 0370	0108 0371	0701 0372	0745 0373	0473 0374	0745 0375	0745 0376	0456 0377	0743 0378	0746 0379	0746 0380	0726 0381	0746 0382	0745 0383	0745 0384	0744 0385	males (cont...)
Retina, Degeneration																				1			1			
Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	
Hyperplasia																						1				
URINARY SYSTEM																										
Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Infarct						1													1							
Nephropathy, Chronic Progressive	2	1	1		1	1	2	1	1	3	1	2	1	1	1	1		2	2		1	1	1	1	1	
Cortex, Cyst																										
Cortex, Inflammation																	2									
Pelvis, Inflammation		2																								
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Inflammation																										

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DAY ON TEST / HARLAN SPRAGUE DAWLEY RATS MALE 0/80 ppm / ANIMAL ID	074 4 0386	074 4 0387	074 4 0388	047 8 0389	016 1 0390	074 3 0391	047 8 0392	074 3 0393	074 6 0394	074 3 0395	074 3 0396	074 7 0397	074 7 0398	074 6 0399	074 6 0400	074 5 0401	060 9 0402	074 4 0403	074 4 0404	074 3 0405	074 3 0406	074 7 0407	074 7 0408	072 0 0409	074 3 0410	* TOTALS		
ALIMENTARY SYSTEM																												
Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**		
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**		
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**		
Parasite Metazoan												X						X						X			**9**	
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**		
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**		
Epithelium, Muscularis, Inflammation, Chronic Active																4											**1**	**4.0**
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**		
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**		
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**		
Basophilic Focus														X												**2**		
Clear Cell Focus	X	X	X						X	X	X		X	X			X	X	X	X	X	X			X	**31**		
Cytoplasmic Alteration																										**1**	**1.0**	
Degeneration, Cystic															1			1								**8**	**1.1**	
Eosinophilic Focus											X	X			X	X					X					**9**		
Inflammation, Focal		1				1		1			1			1				1	1	1					1	**24**	**1.0**	
Mixed Cell Focus			X															X	X		X					**6**		
Necrosis			1	2				1		1					1	1	1	1	1	1	2	1				**20**	**1.3**	
Pigment	3	1	1			1		1	3	3	4			1	4			2		1	1	1	2			**30**	**2.0**	
Bile Duct, Hyperplasia									1																	**1**	**1.0**	

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DAY ON TEST / HARLAN SPRAGUE DAWLEY RATS MALE 0/80 ppm / ANIMAL ID	074 4	074 4	074 4	047 8	016 1	074 3	047 8	074 3	074 6	074 3	074 3	074 7	074 7	074 6	074 6	074 5	060 9	074 4	074 4	074 3	074 3	074 7	074 7	072 0	074 3	* TOTALS	
	00386	00387	00388	00389	00390	00391	00392	00393	00394	00395	00396	00397	00398	00399	00400	00401	00402	00403	00404	00405	00406	00407	00408	00409	00410		
Hepatocyte, Cytoplasmic Alteration	2	2	2	1	1	2	2	2	2	2	2	2	1	2	2	3		2	1	2	2	2	1	3		**46**	**1.8**
Hepatocyte, Hyperplasia, Nodular																				3						**1**	**3.0**
Hepatocyte, Hypertrophy	2	1	2			1	2	2	2	1	1	1	1	2	1	2		2	1	2	1	1	1	4	1	**43**	**1.6**
Hepatocyte, Single Cell Death	1	1	1		3					1	1	1				1		1		1	1		1			**24**	**1.3**
Mesentery																							+			**1**	
Fat, Necrosis																							1			**1**	**1.0**
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Inflammation, Chronic Active	3													4									4			**4**	**3.0**
Acinus, Atrophy	3												2	1												**7**	**1.6**
Acinus, Hyperplasia		4	4	1		4			4	1	4	4	4	4	4		4	4	4	2	2	4				**31**	**3.2**
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**49**	
Atrophy						2																				**1**	**2.0**
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Inflammation				1																						**1**	**1.0**
Mineral																								1		**1**	**1.0**
Epithelium, Hyperplasia, Squamous		1													1				1				1			**4**	**1.0**
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Inflammation	1																									**1**	**1.0**
Epithelium, Metaplasia, Squamous			1																							**1**	**1.0**
CARDIOVASCULAR SYSTEM																											
Blood Vessel	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Inflammation	2																									**1**	**2.0**
Inflammation, Chronic																			2							**2**	**2.0**

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DAY ON TEST / HARLAN SPRAGUE DAWLEY RATS MALE 0/80 ppm / ANIMAL ID	074 4	074 4	074 4	047 8	016 1	074 3	047 8	074 3	074 6	074 3	074 3	074 7	074 7	074 6	074 6	074 5	060 9	074 4	074 4	074 3	074 3	074 7	074 7	072 0	074 3	* TOTALS	
	00386	00387	00388	00389	00390	00391	00392	00393	00394	00395	00396	00397	00398	00399	00400	00401	00402	00403	00404	00405	00406	00407	00408	00409	00410		
Mineral											1															**4**	**1.0**
Aorta, Mineral																1										**1**	**1.0**
Aorta, Pulmonary Artery, Mineral																		1								**1**	**1.0**
Pulmonary Vein, Thrombus																				1						**1**	**1.0**
Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Cardiomyopathy	2	1	1			1		2				1			1	1	1	1	1		1					**25**	**1.2**
Endocardium, Hyperplasia																				3						**1**	**3.0**
Myocardium, Hemorrhage																										**1**	**2.0**
Myocardium, Inflammation																										**1**	**3.0**
Valve, Degeneration		1																								**3**	**1.3**
Valve, Thrombus																										**1**	**2.0**
ENDOCRINE SYSTEM																											
Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Hypertrophy				1		1				1		1	1			4		4	2				1			**16**	**1.5**
Necrosis																								1		**1**	**1.0**
Zona Fasciculata, Hyperplasia															2											**1**	**2.0**
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Hyperplasia																										**2**	**1.0**
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Hyperplasia						3						1								3						**3**	**2.3**
Parathyroid Gland	+	+	M	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	**41**	
Hyperplasia																	1									**1**	**1.0**
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	

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DAY ON TEST / HARLAN SPRAGUE DAWLEY RATS MALE 0/80 ppm / ANIMAL ID	074 4	074 4	074 4	047 8	016 1	074 3	047 8	074 3	074 6	074 3	074 3	074 7	074 7	074 6	074 6	074 5	060 9	074 4	074 4	074 3	074 3	074 7	074 7	072 0	074 3	* TOTALS	
	003 86	003 87	003 88	003 89	003 90	003 91	003 92	003 93	003 94	003 95	003 96	003 97	003 98	003 99	004 00	004 01	004 02	004 03	004 04	004 05	004 06	004 07	004 08	004 09	004 10		
Pars Distalis, Hyperplasia	3	4						2			1	1			1	1		1				1			1	**18**	**1.5**
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**49**	
C-cell, Hyperplasia		1									2		1					2								**7**	**1.4**
Follicular Cell, Hypertrophy									1						3							2				**11**	**1.8**
GENERAL BODY SYSTEM																											
NONE																											
GENITAL SYSTEM																											
Epididymis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Preputial Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Inflammation							3																			**1**	**3.0**
Prostate	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Dorsal, Inflammation, Chronic Active																		1							1	**2**	**1.0**
Dorsal, Lateral, Inflammation, Chronic Active								4																		**1**	**4.0**
Epithelium, Ventral, Hyperplasia												2														**3**	**1.7**
Lateral, Inflammation, Chronic Active																										**1**	**1.0**
Ventral, Inflammation, Chronic Active		1						4		1	1						2				1					**9**	**1.8**
Seminal Vesicle	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Testes	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Edema												3														**1**	**3.0**
Bilateral, Germinal Epithelium, Degeneration																			1							**3**	**2.3**
Germinal Epithelium, Degeneration												3		1												**4**	**1.5**

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DAY ON TEST / ANIMAL ID	0744 0386	0744 0387	0744 0388	0478 0389	0161 0390	0743 0391	0478 0392	0743 0393	0746 0394	0743 0395	0743 0396	0747 0397	0747 0398	0746 0399	0746 0400	0745 0401	0609 0402	0744 0403	0744 0404	0743 0405	0743 0406	0747 0407	0747 0408	0720 0409	0743 0410	* TOTALS	
HEMATOPOIETIC SYSTEM																											
Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Hyperplasia							4																	4		**5**	**2.8**
Lymph Node, Mandibular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**49**	
Atrophy																										**2**	**2.0**
Hyperplasia, Lymphoid																									2	**1**	**2.0**
Infiltration Cellular, Plasma Cell													2													**4**	**1.5**
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Hyperplasia, Lymphoid																										**2**	**2.0**
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Extramedullary Hematopoiesis	1	1	1			2		2	1	1	2		1	1	1	2	2	1	1	1	1	1	2	2	1	**37**	**1.3**
Hemorrhage							4																			**1**	**4.0**
Pigment				1		1		1	1	2		1	1		1			1		1	1	1	1			**27**	**1.0**
Lymphoid Follicle, Atrophy					2												3				1			1		**7**	**1.9**
Thymus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**49**	
Atrophy	4	3	2	2	1	3	3	2	2	3	3	2	2	3	3	2	4	3	3	3	3	3	4	2	2	**47**	**2.7**
INTEGUMENTARY SYSTEM																											
Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Foreign Body																										**1**	
Hyperkeratosis																			3							**1**	**3.0**
Inflammation																			3							**2**	**2.5**

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DAY ON TEST / HARLAN SPRAGUE DAWLEY RATS MALE 0/80 ppm / ANIMAL ID	074 4	074 4	074 4	047 8	016 1	074 3	047 8	074 3	074 6	074 3	074 3	074 7	074 7	074 6	074 6	074 5	060 9	074 4	074 4	074 3	074 3	074 7	074 7	072 0	074 3	* TOTALS	
	00386	00387	00388	00389	00390	00391	00392	00393	00394	00395	00396	00397	00398	00399	00400	00401	00402	00403	00404	00405	00406	00407	00408	00409	00410		
Ulcer																										**1**	**1.0**
MUSCULOSKELETAL SYSTEM																											
Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
NERVOUS SYSTEM																											
Brain	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Inflammation																										**1**	**1.0**
Necrosis					3																					**3**	**3.3**
RESPIRATORY SYSTEM																											
Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Infiltration Cellular, Histiocyte		2		2				1			2			1	3	3		2	3		3			3		**22**	**2.3**
Inflammation, Granulomatous, Multifocal															1										1	**4**	**1.0**
Inflammation, Chronic Active		1																	1							**5**	**1.0**
Alveolar Epithelium, Hyperplasia																										**2**	**1.0**
Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Olfactory Epithelium, Accumulation, Hyaline Droplet	2	2	2	1			3	2			1	2	3		4	2		2	2	2	2	1		1	3	**37**	**2.1**
Respiratory Epithelium, Inflammation																										**1**	**1.0**
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
SPECIAL SENSES SYSTEM																											
Eye	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Cornea, Inflammation																										**1**	**1.0**

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Retina, Degeneration												1										1	1			**5**	**1.0**
Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**49**	
Hyperplasia																										**1**	**1.0**
URINARY SYSTEM																											
Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Infarct						1			1			1									1				1	**7**	**1.0**
Nephropathy, Chronic Progressive	2	3	3	1	1	2	1	1	1	1	1	1	4	1	2	1	2	2	2	2	1	2	2	1	2	**47**	**1.5**
Cortex, Cyst																			X							**1**	
Cortex, Inflammation																										**1**	**2.0**
Pelvis, Inflammation																										**1**	**2.0**
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Inflammation																						1				**1**	**1.0**

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DAY ON TEST / HARLAN SPRAGUE DAWLEY RATS MALE 300/80 ppm / ANIMAL ID	074 4 00421	074 4 00422	074 7 00423	074 7 00424	029 8 00425	074 7 00426	074 4 00427	074 4 00428	074 6 00429	071 5 00430	062 9 00431	074 4 00432	074 4 00433	074 4 00434	074 5 00435	074 5 00436	061 7 00437	074 6 00438	074 6 00439	067 0 00440	074 5 00441	068 9 00442	074 3 00443	074 3 00444	074 3 00445	males (cont...)
ALIMENTARY SYSTEM																										
Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Parasite Metazoan																X			X							
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Basophilic Focus							X																			
Clear Cell Focus	X	X	X	X		X	X	X	X	X		X	X	X	X	X		X	X		X		X	X	X	
Degeneration, Cystic		1	1							3			2								1	1		1	1	
Eosinophilic Focus	X	X											X						X							
Extramedullary Hematopoiesis		1																								
Inflammation, Focal	1			1		1	1	1				1		1		1	1	1			1			1		
Mixed Cell Focus												X							X			X		X		
Necrosis	1	1		1		2						1		1	1	2	1	1	1			2		1		
Pigment	1		1	1		2	1		1							2		1		3		2	2			
Bile Duct, Hyperplasia	1			1			1														1					
Hepatocyte, Cytoplasmic Alteration	2	1	2	1		1	2	1	2			2	3	2	1	2		1	1			2	2	3	2	
Hepatocyte, Hypertrophy	2	2	2	1		1	2	1	2			1	2	2	1	1		1	1	4	3	4	1	2	1	

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DAY ON TEST / HARLAN SPRAGUE DAWLEY RATS MALE 300/80 ppm / ANIMAL ID	074 421	074 422	074 423	074 424	074 425	074 426	074 427	074 428	074 429	071 430	062 431	074 432	074 433	074 434	074 435	074 436	061 437	074 438	074 439	067 440	074 441	068 442	074 443	074 444	074 445
Hepatocyte, Single Cell Death	1	1	1	1		1	1	1				1		1	1	1		1	1			3		1	1
Mesentery										+															
Fat, Necrosis										1															
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Inflammation, Chronic Active	1	2						1																	
Acinus, Atrophy		2		1				1		1				1									1	1	
Acinus, Hyperplasia	4	4		1			4	4		3		4	4	4	4	3			4		2		4	4	
Duct, Inflammation, Chronic Active																									
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Inflammation											1										2				
Epithelium, Hyperplasia, Squamous										2	1										2				1
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Erosion														1											
Inflammation																									

CARDIOVASCULAR SYSTEM

Blood Vessel	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Inflammation																					1				
Inflammation, Chronic																	2								
Mineral							1												1			1			
Aorta, Mineral	1			1													1								1
Aorta, Pulmonary Artery, Mineral																									
Pulmonary Artery, Mineral																									

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HARLAN SPRAGUE DAWLEY RATS MALE
300/80 ppm

DAY ON TEST	074 4	074 4	074 7	074 7	029 8	074 7	074 4	074 4	074 6	071 5	062 9	074 4	074 4	074 4	074 5	074 5	061 7	074 6	074 6	067 0	074 5	068 9	074 3	074 3	074 3	**males (cont...)**
ANIMAL ID	00421	00422	00423	00424	00425	00426	00427	00428	00429	00430	00431	00432	00433	00434	00435	00436	00437	00438	00439	00440	00441	00442	00443	00444	00445	
Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Cardiomyopathy		1	1	1			1	1	1				1	1			3	1	1		1					
Coronary Artery, Mineral																										
Endocardium, Ventricle, Inflammation																										
ENDOCRINE SYSTEM																										
Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Degeneration, Cystic						1													1						1	
Hypertrophy	1	2	4	1		3		1								1						1	1	1		
Necrosis																										
Zona Fasciculata, Hyperplasia											2											3				
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hyperplasia																					1					
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hyperplasia	1	2										1	3													
Parathyroid Gland	+	+	+	M	+	+	M	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	
Hyperplasia																	3									
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Pars Distalis, Hyperplasia		1				2	1					1			2				1	2	3					
Pars Distalis, Pars Intermedia, Hyperplasia				1																						
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
C-cell, Hyperplasia			1			4			3										1							
Follicular Cell, Hypertrophy				4		2	4	3		2	2			2	3	1		4			1	1	2			

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DAY ON TEST	074	074	074	074	029	074	074	074	074	071	062	074	074	074	074	074	061	074	074	067	074	068	074	074	074
HARLAN SPRAGUE DAWLEY RATS MALE	4	4	7	7	8	7	4	4	6	5	9	4	4	4	5	5	7	6	6	0	5	9	3	3	3
300/80 ppm	00421	00422	00423	00424	00425	00426	00427	00428	00429	00430	00431	00432	00433	00434	00435	00436	00437	00438	00439	00440	00441	00442	00443	00444	00445
ANIMAL ID																									**males (cont...)**
GENERAL BODY SYSTEM																									
NONE																									
GENITAL SYSTEM																									
Epididymis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Preputial Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Prostate	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Dorsal, Inflammation, Chronic Active	1																								
Epithelium, Ventral, Hyperplasia																							1		
Lateral, Inflammation, Chronic Active																									
Ventral, Inflammation, Chronic			2																						
Ventral, Inflammation, Chronic Active							1						1											1	
Seminal Vesicle	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Testes	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Edema																			4						
Bilateral, Germinal Epithelium, Degeneration						3						3						4							
Germinal Epithelium, Degeneration									1				1				1								
HEMATOPOIETIC SYSTEM																									
Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Hyperplasia																	2			2	2	4		3	
Lymph Node																									

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+ .. Tissue examined microscopically
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1-4 .. Lesion qualified as:
1) Minimal 3) Moderate
2) Mild 4) Marked

DAY ON TEST	074	074	074	074	029	074	074	074	074	071	062	074	074	074	074	074	061	074	074	067	074	068	074	074	074
HARLAN SPRAGUE DAWLEY RATS MALE	4	4	7	7	8	7	4	4	6	5	9	4	4	4	5	5	7	6	6	0	5	9	3	3	3
300/80 ppm ANIMAL ID	00421	00422	00423	00424	00425	00426	00427	00428	00429	00430	00431	00432	00433	00434	00435	00436	00437	00438	00439	00440	00441	00442	00443	00444	00445	**males (cont...)**
Lymph Node, Mandibular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Atrophy																										
Hyperplasia, Lymphoid												2											2	3		
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Atrophy																										
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Extramedullary Hematopoiesis	2	1	2			1	1	1	2			2	1	1	1	1		1		1	2	2			2	
Pigment			1	1		1			2	1		1		2			2	1	1	1			1	1	1	
Lymphoid Follicle, Atrophy																										
Thymus	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	M	+	+	+	+	+	+	
Atrophy	2	2	2	2	2	3	3	3	2	3		3	3		4	3	3	3		1	2	4	3	3	3	
Hyperplasia, Lymphoid			2																							
INTEGUMENTARY SYSTEM																										
Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Cyst Epithelial Inclusion																			X							
Inflammation																								4		
Ulcer																										
MUSCULOSKELETAL SYSTEM																										
Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Skeletal Muscle																+					+					

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DAY ON TEST	074	074	074	074	029	074	074	074	074	071	062	074	074	074	074	074	061	074	074	067	074	068	074	074	074
HARLAN SPRAGUE DAWLEY RATS MALE	4	4	7	7	8	7	4	4	6	5	9	4	4	4	5	5	7	6	6	0	5	9	3	3	3
300/80 ppm	00421	00422	00423	00424	00425	00426	00427	00428	00429	00430	00431	00432	00433	00434	00435	00436	00437	00438	00439	00440	00441	00442	00443	00444	00445
ANIMAL ID																									**males (cont...)**
NERVOUS SYSTEM																									
Brain	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Inflammation																							3		
Cerebrum, Edema																									
RESPIRATORY SYSTEM																									
Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Infiltration Cellular, Histiocyte			2						2	2					1	2		3							1
Infiltration Cellular, Lymphocyte																									
Inflammation, Granulomatous, Multifocal														1					2					1	
Inflammation, Chronic Active																	3								
Alveolar Epithelium, Hyperplasia																									
Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Glands, Respiratory Epithelium, Inflammation																									
Nasolacrimal Duct, Inflammation										1															
Olfactory Epithelium, Accumulation, Hyaline Droplet	1	2	2	2	2	2	2	3	3	2		2	2	2	4	2		1	1		3	3	2	2	2
Respiratory Epithelium, Inflammation		1	1															1							
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
SPECIAL SENSES SYSTEM																									
Eye	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Anterior Chamber, Cornea, Inflammation										3															
Cornea, Inflammation									1			1		1											
Retina, Degeneration												1													

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DAY ON TEST	074	074	074	074	029	074	074	074	074	071	062	074	074	074	074	074	061	074	074	067	074	068	074	074	074
HARLAN SPRAGUE DAWLEY RATS MALE	4	4	7	7	8	7	4	4	6	5	9	4	4	4	5	5	7	6	6	0	5	9	3	3	3
300/80 ppm ANIMAL ID	00421	00422	00423	00424	00425	00426	00427	00428	00429	00430	00431	00432	00433	00434	00435	00436	00437	00438	00439	00440	00441	00442	00443	00444	00445	**males (cont...)**
Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Necrosis																										
Zymbal's Gland										+																
URINARY SYSTEM																										
Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Infarct																										
Nephropathy, Chronic Progressive	1		2	2	1	2	2	2	3	2		2	2	2	2	1	4	3	2	1	4		2	3	2	
Papilla, Urothelium, Hyperplasia									1																	
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	

DAY ON TEST / HARLAN SPRAGUE DAWLEY RATS MALE 300/80 ppm / ANIMAL ID	0743 0446	0744 0447	0134 0448	0505 0449	0747 0450	0743 0451	0743 0452	0747 0453	0746 0454	0746 0455	0746 0456	0747 0457	0747 0458	0745 0459	0745 0460	0743 0461	0527 0462	0550 0463	0745 0464	0746 0465	0746 0466	0745 0467	0745 0468	0739 0469	0746 0470	* TOTALS	
ALIMENTARY SYSTEM																											
Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Parasite Metazoan					X			X			X					X								X		**7**	
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Basophilic Focus						X																				**2**	
Clear Cell Focus	X	X			X	X	X	X	X	X	X	X	X	X	X	X			X	X	X	X				**38**	
Degeneration, Cystic						1		1				1														**11**	**1.3**
Eosinophilic Focus														X						X	X					**7**	
Extramedullary Hematopoiesis																										**1**	**1.0**
Inflammation, Focal					1		1	1	1	1	1	1			1	1			1		1		1			**24**	**1.0**
Mixed Cell Focus	X					X	X						X			X										**9**	
Necrosis		1							2	2				1	1		2		1						2	**21**	**1.3**
Pigment	1	2	1		1	1	1	1	1	2			1	1		1					4	1		1		**26**	**1.4**
Bile Duct, Hyperplasia																				1						**5**	**1.0**
Hepatocyte, Cytoplasmic Alteration	1	2	1		2	1	1	2	2	2	2	2		2	2	1	2		1	2	2	1	1	2	2	**41**	**1.7**
Hepatocyte, Hypertrophy	1	2	1		1	1		2	2	1	1	2		2	1	1	1		1	2	1	1	1	1	1	**42**	**1.5**

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HARLAN SPRAGUE DAWLEY RATS MALE
300/80 ppm

DAY ON TEST	0743	0744	0134	0505	0747	0743	0743	0747	0747	0746	0746	0747	0747	0745	0745	0743	0527	0550	0745	0746	0746	0745	0745	0739	0746		
ANIMAL ID	00446	00447	00448	00449	00450	00451	00452	00453	00454	00455	00456	00457	00458	00459	00460	00461	00462	00463	00464	00465	00466	00467	00468	00469	00470	*** TOTALS**	
Hepatocyte, Single Cell Death		1	4	4	1				1		1	1		1	1				1			1	1		1	**29**	**1.3**
Mesentery																										**1**	
Fat, Necrosis																										**1**	**1.0**
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Inflammation, Chronic Active	1																					1				**5**	**1.2**
Acinus, Atrophy						1	1	2	1		1								2		1					**14**	**1.2**
Acinus, Hyperplasia	4	2			4	4	1	4	4	4	4	4	4			2		1	4	4	4	4	2			**33**	**3.4**
Duct, Inflammation, Chronic Active						4																				**1**	**4.0**
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Inflammation			2																			1				**4**	**1.5**
Epithelium, Hyperplasia, Squamous			2					1																		**6**	**1.5**
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Erosion																										**1**	**1.0**
Inflammation																		1								**1**	**1.0**

CARDIOVASCULAR SYSTEM

Blood Vessel	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Inflammation																										**1**	**1.0**
Inflammation, Chronic								1				2														**3**	**1.7**
Mineral																1										**4**	**1.0**
Aorta, Mineral																										**4**	**1.0**
Aorta, Pulmonary Artery, Mineral						1																				**1**	**1.0**
Pulmonary Artery, Mineral																					1					**1**	**1.0**

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HARLAN SPRAGUE DAWLEY RATS MALE
300/80 ppm

DAY ON TEST / ANIMAL ID	0743 0446	0744 0447	0134 0448	0505 0449	0747 0450	0743 0451	0743 0452	0747 0453	0747 0454	0746 0455	0746 0456	0747 0457	0747 0458	0745 0459	0745 0460	0743 0461	0527 0462	0550 0463	0745 0464	0746 0465	0746 0466	0745 0467	0745 0468	0739 0469	0746 0470	* TOTALS	
Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Cardiomyopathy						1		1	1	1	1	1	1	1	1	1						2	1			**24**	**1.1**
Coronary Artery, Mineral															1											**1**	**1.0**
Endocardium, Ventricle, Inflammation				4																						**1**	**4.0**
ENDOCRINE SYSTEM																											
Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Degeneration, Cystic											1											1			1	**6**	**1.0**
Hypertrophy	1				1		1								1				2		1	1				**17**	**1.4**
Necrosis			1																							**1**	**1.0**
Zona Fasciculata, Hyperplasia					3															2		3				**5**	**2.6**
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Hyperplasia							1																			**2**	**1.0**
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Hyperplasia									2										2	2	2		1			**9**	**1.8**
Parathyroid Gland	M	+	+	+	M	M	+	+	M	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	42	
Hyperplasia																										**1**	**3.0**
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Pars Distalis, Hyperplasia	1					1				1	1								1	1		4	1		3	**17**	**1.6**
Pars Distalis, Pars Intermedia, Hyperplasia																										**1**	**1.0**
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
C-cell, Hyperplasia		1									2				3					2						**8**	**2.1**
Follicular Cell, Hypertrophy		2											1					1		2	3		1			**19**	**2.2**

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DAY ON TEST / HARLAN SPRAGUE DAWLEY RATS MALE 300/80 ppm / ANIMAL ID	0743 0446	0744 0447	0134 0448	0505 0449	0747 0450	0743 0451	0743 0452	0747 0453	0747 0454	0746 0455	0746 0456	0747 0457	0747 0458	0745 0459	0745 0460	0743 0461	0527 0462	0550 0463	0745 0464	0746 0465	0746 0466	0745 0467	0745 0468	0739 0469	0746 0470	* TOTALS	
GENERAL BODY SYSTEM																											
NONE																											
GENITAL SYSTEM																											
Epididymis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Preputial Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Prostate	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Dorsal, Inflammation, Chronic Active																										**1**	**1.0**
Epithelium, Ventral, Hyperplasia												1		1												**3**	**1.0**
Lateral, Inflammation, Chronic Active																								2		**1**	**2.0**
Ventral, Inflammation, Chronic																										**1**	**2.0**
Ventral, Inflammation, Chronic Active					1	1		1					2		1											**8**	**1.1**
Seminal Vesicle	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Testes	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Edema																				1						**2**	**2.5**
Bilateral, Germinal Epithelium, Degeneration					3								3								3					**6**	**3.2**
Germinal Epithelium, Degeneration																							2			**4**	**1.3**
HEMATOPOIETIC SYSTEM																											
Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Hyperplasia			3	2													4	3								**9**	**2.8**
Lymph Node																	+									**1**	

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HARLAN SPRAGUE DAWLEY RATS MALE

300/80 ppm

DAY ON TEST	074 3	074 4	013 4	050 5	074 7	074 3	074 3	074 7	074 7	074 6	074 6	074 7	074 7	074 5	074 5	074 3	052 7	055 0	074 5	074 6	074 6	074 5	074 5	073 9	074 6	
ANIMAL ID	004 46	004 47	004 48	004 49	004 50	004 51	004 52	004 53	004 54	004 55	004 56	004 57	004 58	004 59	004 60	004 61	004 62	004 63	004 64	004 65	004 66	004 67	004 68	004 69	004 70	* TOTALS
Lymph Node, Mandibular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Atrophy			3															1							2	**3 2.0**
Hyperplasia, Lymphoid																										**3 2.3**
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Atrophy																		3								**1 3.0**
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Extramedullary Hematopoiesis	1	1	2	2	1	1	1	1	1	1	1	1		2	1	2		2	2	1		1				**36 1.4**
Pigment			1		1			1			1	1	1	1		1			1	1	1	1		1	1	**28 1.1**
Lymphoid Follicle, Atrophy			2	3																						**2 2.5**
Thymus	+	M	+	M	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	**45**
Atrophy	3		4		3	3	2	3	4	3	2		3	3	3	2	4		3	3	2	2	3	4	3	**43 2.8**
Hyperplasia, Lymphoid																										**1 2.0**
INTEGUMENTARY SYSTEM																										
Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Cyst Epithelial Inclusion																										**1**
Inflammation		4										3		3												**4 3.5**
Ulcer												1		3												**2 2.0**
MUSCULOSKELETAL SYSTEM																										
Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Skeletal Muscle																										**2**

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HARLAN SPRAGUE DAWLEY RATS MALE

300/80 ppm

DAY ON TEST	074 3	074 4	013 4	050 5	074 7	074 3	074 3	074 7	074 7	074 6	074 6	074 7	074 7	074 5	074 5	074 3	052 7	055 0	074 5	074 6	074 6	074 5	074 5	073 9	074 6	
ANIMAL ID	004 46	004 47	004 48	004 49	004 50	004 51	004 52	004 53	004 54	004 55	004 56	004 57	004 58	004 59	004 60	004 61	004 62	004 63	004 64	004 65	004 66	004 67	004 68	004 69	004 70	*** TOTALS**
NERVOUS SYSTEM																										
Brain	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Inflammation																										**1 3.0**
Cerebrum, Edema	2																									**1 2.0**
RESPIRATORY SYSTEM																										
Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Infiltration Cellular, Histiocyte	1					2	3			1	1	3		1	1	3	1		1	1	1	2	2		1	**23 1.7**
Infiltration Cellular, Lymphocyte					3																					**1 3.0**
Inflammation, Granulomatous, Multifocal	1	1																1								**6 1.2**
Inflammation, Chronic Active														1	1	1					1		1			**6 1.3**
Alveolar Epithelium, Hyperplasia																					1		1			**2 1.0**
Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Glands, Respiratory Epithelium, Inflammation															1											**1 1.0**
Nasolacrimal Duct, Inflammation																										**1 1.0**
Olfactory Epithelium, Accumulation, Hyaline Droplet	2			2	2	2	3	2	1	1	3	2	2	2	4		1			2	4	2	1	2	4	**42 2.2**
Respiratory Epithelium, Inflammation										1	1					1			1							**7 1.0**
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
SPECIAL SENSES SYSTEM																										
Eye	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Anterior Chamber, Cornea, Inflammation																										**1 3.0**
Cornea, Inflammation																										**3 1.0**
Retina, Degeneration		1				1							1	1									3			**6 1.3**

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

HARLAN SPRAGUE DAWLEY RATS MALE

300/80 ppm

DAY ON TEST / ANIMAL ID	0743 0446	0744 0447	0134 0448	0505 0449	0747 0450	0743 0451	0743 0452	0747 0453	0747 0454	0746 0455	0746 0456	0747 0457	0747 0458	0745 0459	0745 0460	0743 0461	0527 0462	0550 0463	0745 0464	0746 0465	0746 0466	0745 0467	0745 0468	0739 0469	0746 0470	* TOTALS	
Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Necrosis																						2				**1**	**2.0**
Zymbal's Gland																										**1**	
URINARY SYSTEM																											
Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Infarct						1														1						**2**	**1.0**
Nephropathy, Chronic Progressive	2	2	1		2	2	2		1	1	2	2	3	2	2	2	1		2	2	1	3	2	2	1	**44**	**2.0**
Papilla, Urothelium, Hyperplasia																										**1**	**1.0**
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	

*** END OF REPORT ***

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