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1973

## Reported Diseases of South Dakota Poultry

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### Recommended Citation

Vorhies, M. W., "Reported Diseases of South Dakota Poultry" (1973). *South Dakota Poultry Field Day Proceedings and Research Reports, 1973*. Paper 18.

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Brookings, South Dakota

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Animal Disease Research  
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A.S. Series 73-29

Reported Diseases of South Dakota Poultry

M. W. Vorhies, DVM<sup>1</sup>

Diseases of poultry in South Dakota reflect the importance of the infections and metabolic problems. The HTV vaccination program has reduced the significance of Marek's Disease caused by DNA virus. The incidence of lymphoid leucosis caused by a RNA virus still causes a low but insidious mortality after about the 30th week. An important metabolic disease has been a calcium deficiency causing osteomalacia or cage layer paralysis. This would appear to be related to inadequate levels of calcium before the start of the egg laying period. Apparently the birds are maturing earlier and their bone structure is requiring more calcium than the NRC 2.75% suggested requirements. When the birds are in full production, not enough calcium has been stored to meet the demand of the egg laying period. Pathologic changes, spontaneous fractures of long bones and beading of the ventral and dorsal rib junction occur. Another important metabolic disease is the fatty liver syndrome. The liver becomes friable with the large fat accumulations resulting in rupture or death due to abdominal hemorrhage. This syndrome is thought to be related to high energy ration, reduced metabolic energy requirement in cages and a relative deficiency of some amino acids.

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ANIMAL DISEASE RESEARCH AND DIAGNOSTIC LABORATORY  
Poultry Disease Diagnosis 1972-1973

No. of laboratory requests by month:

J	F	M	A	M	J	J	A	S	O	N	D	Total	% of submissions
63	37	21	28	36	34	40	26	64	52	53	56	510	4.7

Total necropsy requests 1109

<u>Chicken</u>	<u>No.</u>	<u>Turkey</u>	<u>No.</u>
Airsacculitis	6	Airsacculitis	5
Arizonia	2	Aortic rupture	4
Blue comb	1	Arizonia	4
Cannibalism	36	Arthritis (Staphylococcus)	1
Coccidiosis	11	Aspergillosis	1
Encephalomyelitis	1	Coccidiosis	7
Enteritis non-specific	24	Colibacillosis	6
Fatty liver syndrome	69	C.R.D.	2
Fowl cholera	1	Encephalomyelitis	2
Gout, visceral	13	Fowl cholera	1
Hemorrhagic disease	16	Histomoniasis	1
Hepatitis	3	Inanition	4
Impacted oviduct	8	Osteomalacia (Rickets)	3
Internal layer	7	Round Heart	1
Lymphoid leucosis	142	Salmonella	21
Malnutrition	13	Septicemia	3
Marek's Disease	13	Sinusitis	2
Osteomalacia	50	Trauma	4
(cage layer paralysis)			
Peritonitis	35		
Perosis	2		
Pullorum	1		
Salmonella	3		
Septicemia (non-specific)	4		
Sinusitis	2		
Trauma	31		
Tuberculosis	1		