

UNITED STATES DEPARTMENT OF AGRICULTURE
BUREAU OF BIOLOGICAL SURVEY

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IN REPLY REFER TO

QUARTERLY REPORT FOR THE WINTER ELK REFUGE FOR THE PERIOD
FROM JULY 1, TO SEPTEMBER 30, 1935.

The hay harvest began on the Elk Refuge on July 15 and was completed September 13. After the hay in all the stacks had been measured we found that we have harvested on the Refuge this season 1535 tons of hay. A complete report listing the tonnage in each stack is attached. This is more hay than we have harvested on the Refuge any previous year. Due to the fact that we had very little rain during the hay harvest all of the hay was placed in the stacks in very good condition.

In addition to the hay we also cut twenty-one acres of oats with a grain binder. From this piece of ground we hauled and stacked 32 loads, or about 40 tons. This oats is being threshed for seed and for feed for the work horses, and the straw from the oats will be fed to the elk during the winter. The first two weeks in July the hay machinery was repaired, and following the completion of the harvest, all the machinery was placed in the machine sheds and since then nearly all of the haystacks have been fenced.

In addition to the hay and cottonseed cakes that we have on the Refuge we have already, through the solicitation of bids, purchased 983½ tons of hay on nearby ranches at \$10.00 per ton. On September 25 another set of bids was made out and mailed to 26 ranchers in solicitation of another 500 to 1000 tons of hay. The returns on these bids will be opened on October 2 and then mailed to your office. With the amount of feed that we have on the Refuge

and with the amount of hay that we are in a position to purchase, it would seem that we will be well prepared to take care of the elk that will gather on the Refuge another winter. The State Game Department has not yet made any purchases of hay here, but it is my understanding that they will purchase an additional amount within a reasonable length of time.

During the forepart of September six elk were seen in the field on the upper portion of the League Addition, but none have been seen on the Refuge since the hunting season opened on September 15. All of the National Forest adjoining the Refuge will be open to elk hunting this year during the entire season, or until November 30. Should we have a heavy snow before that time and a large number of the elk begin their migration toward the Refuge before the hunting season closes it will mean that large numbers of elk will gather on the Refuge for safety from the hunters.

From observations made the past two weeks, there appears to be more ducks on the Refuge than there were in September during the past two years. Nearly all of the ducks here at the present time are mallards and teal.

Respectfully yours,

Alvin J. Nelson
U.S. Game Management Agent.



HAY HARVESTED ON THE WINTER ELK REFUGE AND THE IZAAK WALTON
LEAGUE ADDITION - 1935.

DIMENSIONS OF STACKS OF HAY NEAR HEADQUARTERS.

TAME HAY

Stack No.	OVERCAST	WIDTH	LENGTH	TONNAGE
1	56 ft.	21 ft.	41 ft.	35 T. 297 ft.
2	52 "	25 "	22 "	17 " 251 "
3	53.5"	22 "	34.5"	28 " 138 "
4	52.5"	24 "	53 "	42 " 402 "
5	56 "	24 "	39 "	35 " 206 "
6	56 "	23 "	41 "	36 " 367 "
7	56 "	21.5"	44 "	38 " 282 "
8	55 "	22.5"	47.5"	41 " 65 "
9	54.5"	23.5"	77 "	66 " 195 "
10	56 "	23.5"	44 "	39 " 344 "
11	55 "	23.5"	69 "	60 " 218 "

443 T. 233 ft.

ALFALFA - SECOND CUTTING

12	50.5 "	20 "	14 "	10 " 50 "
13	39.5"	20 "	18 "	8 " 134 "
14	46.5"	20.5"	16 "	10 " 44 "
15	55.5"	21 "	20 "	17 " 71 "
16	48 "	22.5"	18.5"	12 " 243 "
17	50 "	20.5"	18 "	12 " 378 "
18	52 "	21.5"	21 "	16 " 133 "
19	52.5"	20 "	20 "	15 " 170 "
20	51 "	22.5"	16 "	12 " 66 "

115 T. 23 ft.

WILD HAY

21	48.5"	23 "	43.5"	30 " 96 "
22	49 "	22 "	39 "	27 " 189 "
23	48 "	21 "	38.5"	25 " 364 "
24	38.5"	21 "	14.5"	6 " 132 "
25	51.5"	23.5"	63 "	49 " 49 "
26	49 "	21 "	18 "	12 " 228 "
27	50 "	21 "	71 "	51 " 97 "
28	48.5"	23 "	48 "	33 " 150 "

236 T. 39 ft.

TOTAL NEAR HEADQUARTERS

794 T. 295 ft.



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over*

DIMENSIONS OF STACKS OF HAY ON GERMAIN TRACT

Stack No.	OVERCAST	WIDTH	LENGTH	TONNAGE
29	56 ft.	23.5 ft.	23.5 ft.	21 T. 112 ft.
30	51 "	23 "	24 "	18 " 132 "
31	54.5 "	22.5 "	47.5 "	40 " 220 "
32	50 "	23.5 "	82 "	60 " 212 "
33	52.5 "	23.5 "	151.5 "	130 " 171 "
34	54 "	23 "	46.5 "	39 " 119 "
				310 T. 122 ft.

DIMENSION OF STACK OF HAY ON DITWATER TRACT

35	48.5 "	23 "	25 "	17 T. 157 ft.
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DIMENSIONS OF STACKS OF HAY HARVESTED ON IZAAK WALTON LEAGUE ADDITION

36	57 "	22.5 "	51 "	46 " 382 "
37	57 "	22.5 "	44.5 "	40 " 392 "
38	58 "	22.5 "	24.5 "	23 " 79 "
39	56.5 "	22.5 "	26 "	23 " 239 "
40	45 "	23.5 "	23.5 "	14 " 29 "
41	58 "	22 "	23 "	21 " 246 "
42	55 "	22.5 "	19 "	16 " 195 "
43	59 "	24 "	24.5 "	24 " 162 "
44	46 "	22 "	14 "	8 " 320 "
45	57 "	22.5 "	22.5 "	20 " 283 "
46	56.5 "	22.5 "	25.5 "	23 " 48 "
47	57.5 "	22.5 "	26 "	24 " 109 "
48	58 "	22 "	23.5 "	22 " 22 "
49	51.5 "	22 "	43.5 "	33 " 190 "
50	54.5 "	23.5 "	24.5 "	21 " 62 "
51	49.5 "	22 "	37 "	26 " 220 "
52	54.5 "	24 "	25 "	21 " 288 "
				412 T. 322 ft.

TOTAL AMOUNT OF HAY HARVESTED ON REFUGE

1535 T. 52 ft.

(Tonnage computed at 422-foot scale)

