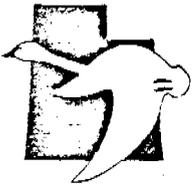


state of utah



**DIVISION OF WILDLIFE RESOURCES**  
EQUAL OPPORTUNITY EMPLOYER  
 DOUGLAS F. DAY  
 Director

1596 West North Temple/Salt Lake City, Utah 84116/801-533-9333

October 20, 1980

Reply To **SOUTHEASTERN REGIONAL OFFICE**  
 455 West Railroad Avenue, Box 840, Price, Utah 84501  
 (801) 637-3310

Mr. Nicolas K. Temnikov  
 215 Market Street  
 Room 263  
 San Francisco, California 94106

Dear Mr. Temnikov:

In regards to the meeting held on October 15, 1980, the Division of Wildlife Resources has reassessed the qualitative evaluation of the data used in the Overland Coal Conveyor Report of August 27, 1980. Confidence intervals were calculated wrong due to a transposition error in the formula. As you know the following formula was utilized:

$$CI = \bar{X} \pm S_y \text{ (tabular value for the distribution of "T")}$$

The corrected formula contains brackets which were mistakenly left out of the original formula used. The corrected formula is:

$$CI = \bar{X} \pm ( S_y \text{ (tabular value for the distribution of "T") } )$$

We apologize for the mistake and thank you for your assistance in identifying the error. Tables 1 and 2 and figures 3 and 4 have been corrected and are enclosed.

Assistance in the work being conducted for Eureka Energy Company is appreciated. Thank you for your continued cooperation.

Sincerely,

Larry J. Wilson, Supervisor  
 Southeastern Region

LJW:LBD:CG:gp

Enclosure

cc: Darrell Nish  
 Paul Anderson

GOVERNOR Steve Viert  
 Scott M. Matheson

**RECEIVED**

OCT 23 1980

DIVISION OF  
 OIL, GAS & MINING

DEPT. OF NATURAL RESOURCES  
 Gordon E. Harmston  
 Exec Director

**RECEIVED**

OCT 23 '80

EUREKA ENERGY CO.  
 Salt Lake City

WILDLIFE BOARD  
 Roy L. Young — Chairman  
 Lewis C. Smith L. S. Skaggs  
 Warren T. Harward Chris P. Joubert

Table 1. Summary of the number of deer tracks counted per conveyer section from an on-the-ground survey and the dates surveyed during the winter of 1979-80. Number of sample periods (N), sample mean ( $\bar{X}$ ), standard deviation ( $\sigma$ ), standard error ( $s\bar{y}$ ), and confidence interval (CI) were calculated for each conveyer section along the overland coal conveyer located at Eureka Energy Company's Sage Point-Dugout Canyon Coal Mining Project, Carbon County, Utah.

Coal Conveyer Sections											
Date	1	2	3	4	5	6	7	8	9	10	11
December 9	-	-	4	1	9	2	2	22	-	-	13
January 11	0	0	12	3	36	2	15	48	50	0	-
January 16	-	-	-	-	-	7	64	201	245	-	-
January 25	-	-	11	5	33	11	34	123	176	-	31
January 30	-	-	0	0	1	-	-	-	-	-	2
February 6	-	-	2	16	19	6	11	38	84	-	19
February 11	-	-	-	-	-	12	5	10	54	-	-
February 27	-	-	1	0	1	0	3	2	5	-	0
March 5	-	-	0	0	0	0	5	6	14	-	0
March 10	-	-	0	0	0	1	3	1	7	-	0
March 19	-	-	0	0	1	0	1	1	17	-	0
March 26	-	-	0	0	3	2	6	10	3	-	0
April 1	-	-	15	2	4	3	32	10	42	-	2
April 9	-	-	2	2	3	5	35	26	143	-	1
April 14	-	-	2	6	29	6	34	40	102	-	2
April 24	-	-	22	7	32	1	30	21	62	-	17
April 28	-	-	70	9	148	5	48	39	116	-	98
May 5	-	-	34	15	131	15	104	88	134	-	138
May 10	-	-	49	18	33	2	38	46	117	-	45
May 13	-	-	40	14	109	3	76	94	199	-	94
May 17	-	-	40	16	126	11	64	95	129	-	140
May 23	-	-	16	10	60	2	18	41	63	-	86
Total	0	0	320	124	778	96	628	962	1,762	0	688
N	1	1	20	20	20	21	21	21	20	1	19
$\bar{X}$	0	0	16.00	6.20	38.90	4.57	29.90	45.81	88.10	0	36.21
$\sigma$	-	-	19.74	6.31	47.95	4.27	27.60	48.64	67.30	-	47.79
$s\bar{y}$	-	-	4.41	1.41	10.72	0.93	6.02	10.61	15.05	-	10.96
CI	-	-	6.77 to 25.23	3.25 to 9.15	16.46 to 61.34	2.63 to 6.51	17.34 to 42.46	23.68 to 67.94	56.60 to 119.60	-	13.18 to 59.24
			(P<0.050)	(P<0.050)	(P<0.050)	(P<0.050)	(P<0.050)	(P<0.050)	(P<0.050)		(P<0.050)

Table 2. Summary of the number of deer trails counted per conveyer section from an on-the-ground survey and the dates surveyed during the winter of 1979-80. Number of sample periods (N), sample mean ( $\bar{X}$ ), stand deviation ( $\sigma$ ), standard error ( $s\bar{y}$ ), and confidence interval (CI) were calculated for each conveyer section along the overland coal conveyer located at Eureka Energy Company's Sage Point-Dugout Canyon Coal Mining Project, Carbon County, Utah.

Date	Coal Conveyer Sections										
	1	2	3	4	5	6	7	8	9	10	11
December 9	-	-	0	0	0	0	0	6	-	-	2
January 11	0	0	0	0	7	0	1	2	5	3	-
January 16	-	-	-	-	-	0	12	10	29	-	-
January 25	-	-	4	4	7	6	10	21	22	-	14
January 30	-	-	1	0	1	-	-	-	-	-	1
February 6	-	-	3	9	5	8	3	6	7	-	5
February 11	-	-	-	-	-	10	1	2	14	-	-
February 27	-	-	0	0	0	0	0	1	0	-	0
March 5	-	-	0	0	0	0	2	0	3	-	0
March 10	-	-	0	0	0	0	3	1	3	-	0
March 19	-	-	0	0	1	0	2	1	14	-	1
March 26	-	-	0	0	0	0	1	0	1	-	0
April 1	-	-	1	0	1	0	6	0	7	-	0
April 9	-	-	1	0	4	1	7	1	13	-	0
April 14	-	-	0	0	3	3	6	6	15	-	1
April 24	-	-	2	0	2	0	5	3	2	-	0
April 28	-	-	0	2	13	1	3	1	7	-	4
May 5	-	-	0	2	14	0	13	5	8	-	14
May 10	-	-	4	2	2	0	3	4	6	-	1
May 13	-	-	5	2	6	0	7	3	9	-	11
May 17	-	-	3	3	7	1	14	9	24	-	18
May 23	-	-	6	3	7	0	12	4	10	-	15
Total	0	0	30	27	80	30	111	86	199	3	87
N	1	1	20	20	20	21	21	21	20	1	19
$\bar{X}$	0	0	1.50	1.35	4.00	1.43	5.29	4.10	9.95	3	4.58
$\sigma$	-	-	1.91	2.17	4.11	2.84	4.40	4.71	7.69	-	6.12
$s\bar{y}$	-	-	0.43	0.49	0.92	0.62	0.96	1.03	1.72	-	1.40
CI	-	-	0.60	0.32	2.07	0.14	3.29	1.95	6.35	-	1.64
			to		to						
			2.40	2.38	5.93	2.72	7.29	6.25	13.55		7.52
			(P<0.050)		(P<0.050)						

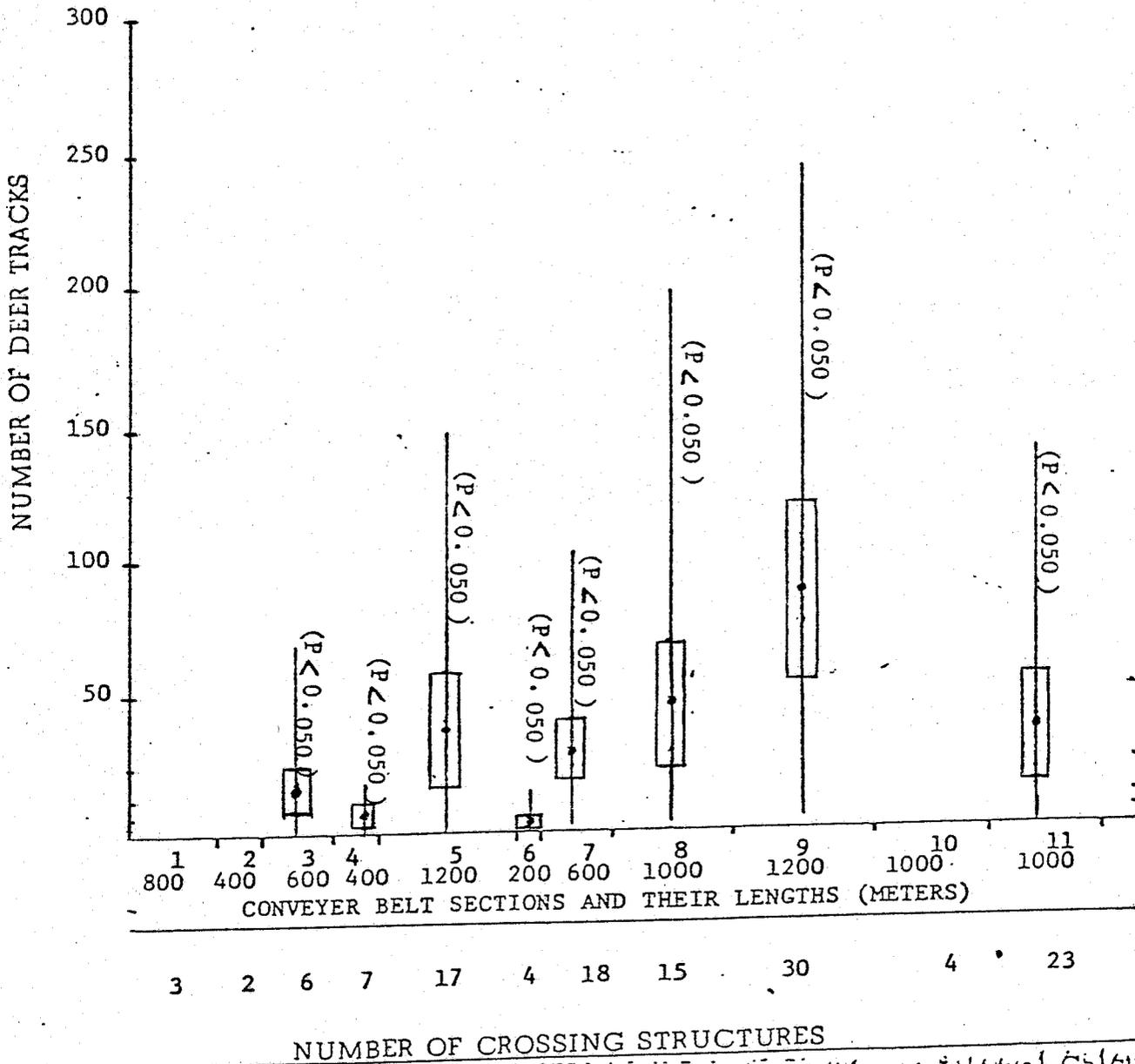
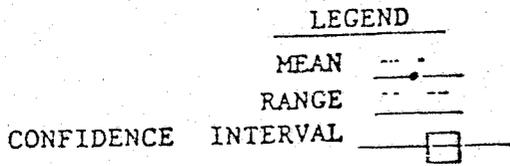


Figure 3. Graphic display of the Range, Mean and Confidence Interval Calculated for the number of deer tracks counted per conveyer section from an on-the-ground survey conducted during the winter of 1979-80. Conveyer section lengths and numbers of deer crossings per section are also displayed, for Eureka Energy Company's Sage Point-Dugout Canyon Project.

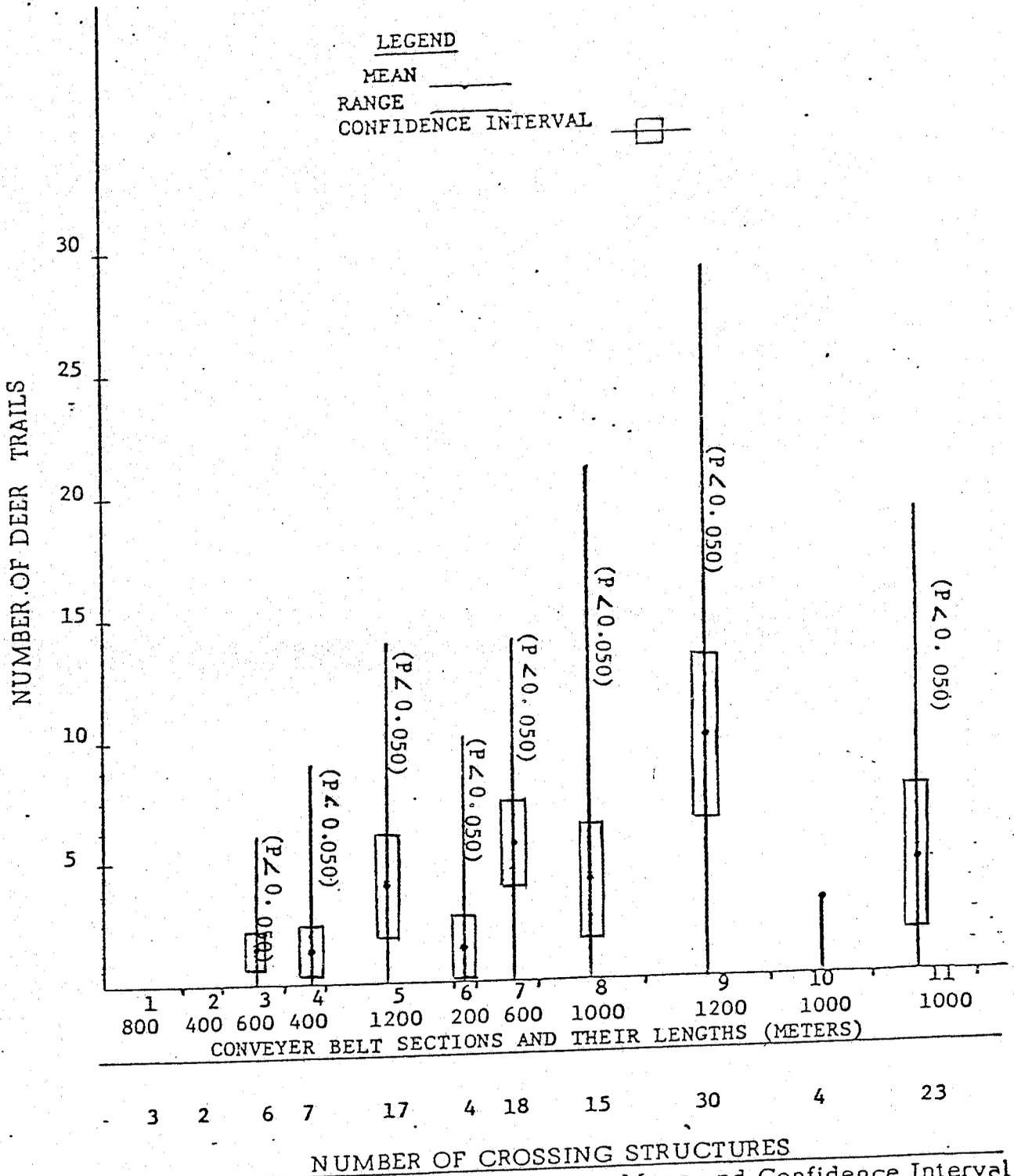


Figure 4. Graphic display of the Range, Mean and Confidence Interval calculated for the number of deer trails counted per conveyer section from an on-the-ground survey conducted during the winter of 1979-80. Conveyer section lengths and numbers of deer crossings per section are also displayed for Eureka Energy Company's Sage Point-Dugout Canyon Project.