Table 1 (plus '91). NEST SUCCESS. The number of nests on each site and the percent of those nests that fledged at least one nestling. Data from all nests with at least one egg.

	Ne	St	Ca	Mo	Sk	PP	SP	BC	MC	CG
WESTERN BLUEBIRDS										
1988										
# nests	7	4	10	8	4	3	5	2		
Success	43%	100%	60%	63%	75%	67%	60%	100%		
1989										
# nests	11	5	16	8	5	7	8	3		
Success	100%	100%	68%	88%	80%	71%	75%	100%		
1990										
# nests	21	14	27	14	12	8	7	1	5	3
Success	57%	79%	48%	64%	58%	63%	71%	100%	100%	33%
1991										
# nests	23	18	27	13	8	9	–	–	8	7
Success	52%	67%	52%	54%	63%	56%	–	–	75%	57%
MOUNTAIN BLUEBIRDS										
1988										
# nests	2	8	6	5	1	3	0	1		
Success	50%	88%	50%	20%	100%	33%	0%	100%		
1989										
# nests	2	13	6	8	3	6	1	2		
Success	100%	85%	33%	88%	100%	83%	100%	100%		
1990										
# nests	3	14	8	18	9	2	1	0	1	0
Success	0%	57%	63%	61%	33%	50%	100%	0%	100%	0%
1991										
# nests	0	20	8	18	2	1	–	–	2	4
Success	0%	40%	63%	44%	50%	0%	–	–	100%	100%
ALL BLUEBIRDS										
1988										
# nests	10	12	17	13	5	6	5	3		
Success	40%	92%	53%	46%	80%	50%	60%	100%		
1989										
# nests	15	21	25	17	11	17	10	6		
Success	93%	76%	64%	88%	82%	65%	70%	83%		
1990										
# nests	32	43	48	37	26	17	12	7	9	5
Success	50%	53%	48%	59%	46%	47%	58%	71%	78%	40%
1991										
# nests	31	48	44	43	16	16	–	–	13	13
Success	42%	42%	43%	37%	63%	31%	–	–	69%	69%

[Table 1 (plus '91) cont.]
Total number of nests with at least one egg, and % of that total that
fledged at least one nestling.

	WHEELER COUNTY SITES		
	WESTERN BLUEBIRDS	MOUNTAIN BLUEBIRDS	ALL BLUEBIRDS
1988	43 nests, 65%	26 nests, 58%	71 nests, 61%
1989	63 nests, 83%	41 nests, 80%	122 nests, 76%
1990	104 nests, 61%	55 nests, 54%	223 nests, 52%
		Wheeler plus Grant County sites	237 53%
1991	98 nests, 56%	49 nests, 49%	198 nests, 44%
		Wheeler plus Grant County sites	224 45%

(Table 8 plus 1991 and Grant County, 1990, cont.)   NUMBER OF EGGS PER
FULL CLUTCH.   The mean number of eggs in all nests where incubation
was initiated and where number of eggs was known.   WB = Western
Bluebird; MB = Mountain Bluebird; BB = all bluebirds including unknown
bluebird species; * = data from ≤ 3 nests; - = no data.

```
                                    (1990)
Grant County:      WB   5.67  (n = 6)   (s = 0.52)
                   MB   5.00  (n = 1)
                   BB   5.63  (n = 8)   (s = 0.52)

All sites:         WB   5.49  (n = 75)  (s = 0.86)
                   MB   5.00  (n = 35)  (s = 1.06)
                   BB   5.36  (n = 119) (s = 0.93)
```

```
                                    1991
            Ne    St    Ca    Mo    Sk    PP    SP    BC    MC    CG
WB E #M    4.8   4.9   5.0   5.1   4.9   5.5    -     -    5.0*  4.6
MB E #M     -    4.8   4.4   4.5   4.0*   -     -     -    4.0*  4.7*
BB E #M    4.8   4.9   4.9   4.7   4.8   5.6    -     -    4.8   4.6
```

```
Wheeler County:    WB   4.95  (n = 79)  (s = 0.88)
                   MB   4.55  (n = 310) (s = 0.81)
                   BB   4.87  (n = 121) (s = 0.86)

Grant County:      WB   4.67  (n = 12)  (s = 0.78)
                   MB   4.50  (n = 4)   (s = 0.58)
                   BB   4.67  (n = 12)  (s = 0.78)

All sites:         WB   4.93  (n = 87)  (s = 0.87)
                   MB   4.54  (n = 35)  (s = 0.78)
                   BB   4.85  (n = 133) (s = 0.85)
```

plus Grant County and 1991]

Table 4. MEAN NUMBER OF FLEDGLINGS PER SUCCESSFUL NEST. The mean
number of fledglings from all nests that fledged at least one nestling
and where number of fledglings was known. WB = Western Bluebird; MB =
Mountain Bluebird; BB = all bluebirds including unknown bluebirds;
* = data from ≤ 3 nests; - = no data.

1988

	Ne	St	Ca	Mo	Sk	PP	SP	BC	MC	CG
WB F #M	4.7*	5.0*	4.0	4.2	4.0*	5.0*	4.0*	5.0*		
MB F #M	2.0*	4.0	3.3*	-	5.0*	5.0*	-	6.0*		
BB F #M	4.0	4.4	3.8	4.2	4.3*	5.0*	4.0*	5.5*		

Wheeler County: WB 4.33 (n = 24) (s = 1.27)
                 MB 4.00 (n = 12) (s = 1.65)
                 BB 4.22 (n = 36) (s = 1.40)

1989

	Ne	St	Ca	Mo	Sk	PP	SP	BC	MC	CG
WB F #M	4.8	4.8	4.0	4.2	4.5*	3.8	4.0	5.7*		
MB F #M	4.0*	4.3	-	4.0	4.7*	4.8	2.0*	5.0*		
BB F #M	4.7	4.4	3.9	4.1	4.6	4.2	3.7	5.5		

Wheeler County: WB 4.39 (n = 44) (s = 1.33)
                 MB 4.27 (n = 26) (s = 1.22)
                 BB 4.32 (n = 72) (s = 1.30)

1990

	Ne	St	Ca	Mo	Sk	PP	SP	BC	MC	CG
WB F #M	4.5	4.4	4.4	4.4	4.4	3.8	4.3	3.0*	4.3	5.0*
MB F #M	-	3.1	4.0	3.6	2.7*	2.0*	3.0*	-	5.0*	-
BB F #M	4.5	3.6	4.4	4.0	3.9	3.5	4.0	3.5*	4.4	5.0*

Wheeler County: WB 4.36 (n = 58) (s = 1.47)
                 MB 3.38 (n = 29) (s = 1.35)
                 BB 3.99 (n = 95) (s = 1.49)

Grant County: WB 4.40 (n = 5)   (s = 0.89)
                 MB 5.00 (n = 1)
                 BB 4.50 (n = 6)   (s = 0.84)

1991

	Ne	St	Ca	Mo	Sk	PP	SP	BC	MC	CG
WB F #M	3.8	3.4	3.6	4.7	3.5	3.8	-	-	4.0	3.5
MB F #M	-	3.8	3.4	3.4	-	-	-	-	2.0*	2.5
BB F #M	3.8	3.6	3.5	3.9	3.7	3.8	-	-	3.3	3.0

Wheeler County: WB 3.74 (n = 53) (s = 1.20)
                 MB 3.52 (n = 21) (s = 1.21)
                 BB 3.68 (n = 77) (s = 1.19)

Grant County: WB 3.75 (n = 8)   (s = 1.16)
                 MB 2.33 (n = 6)   (s = 0.52)
                 BB 3.14 (n = 14) (s = 1.17)

1991 DIET SAMPLES - COMPARISON OF SPECIES, COUNTIES, SEASONS.
TOT # = total number of food items observed being delivered to
nestlings; GH = grasshopper; CR = cricket; SPI = spider; CIC = cicada;
BTL = beetle (adult or larva); LEP = butterfly, moth, caterpillar; FLY
= flying insect (Diptera & Hymenoptera); MIL = millipede; BUG =
Hemiptera; DRA = dragonfly; BER = Squaw Currant berry; UNCL =
unclassified but not a grasshopper or cricket; All Orth. = grasshoppers
plus crickets, total number in ().

JUNE

TOT #	GH	CR	SPI	CIC	BTL	LEP	FLY	ANT	MIL	BUG	DRA	BER	UNCL
WESTERN BLUEBIRD - GRANT COUNTY													
49	12%	31%	16%	–	14%	18%	–	–	–	–	–	–	8%
MOUNTAIN BLUEBIRD - GRANT COUNTY													
25	12%	28%	44%	–	4%	8%	–	–	–	–	–	4%	–
ALL BLUEBIRDS - GRANT COUNTY													
74	12%	30%	26%	–	11%	15%	–	–	–	–	–	1%	5%
WESTERN BLUEBIRD - WHEELER COUNTY													
173	6%	29%	12%	13%	20%	7%	2%	4%	>1%	>1%	–	–	6%
MOUNTAIN BLUEBIRD - WHEELER COUNTY													
14	0%	50%	14%	7%	7%	7%	7%	7%	–	–	–	–	–
ALL BLUEBIRDS - WHEELER COUNTY													
187	6%	31%	12%	12%	19%	7%	2%	4%	1%	1%	–	–	5%
ALL BLUEBIRDS - ALL STUDY AREAS													
261	8%	31%	All Orth.(100)	38%									

LATE (JULY AND AUGUST)

TOT #	GH	CR	SPI	CIC	BTL	LEP	FLY	ANT	MIL	BUG	DRA	BER	UNCL
WESTERN BLUEBIRD - GRANT COUNTY													
1	–	–	–	–	–	–	–	100%	–	–	–	–	–
MOUNTAIN BLUEBIRD - GRANT COUNTY													
1	–	–	–	–	–	–	–	100%	–	–	–	–	–
ALL BLUEBIRDS - GRANT COUNTY													
2	–	–	–	–	–	–	–	100%	–	–	–	–	–
WESTERN BLUEBIRD - WHEELER COUNTY													
308	41%	5%	13%	3%	4%	9%	19%	3%	>1%	>1%	–	–	3%
MOUNTAIN BLUEBIRD - WHEELER COUNTY													
85	52%	7%	7%	–	2%	15%	2%	2%	4%	–	1%	2%	5%
ALL BLUEBIRDS - WHEELER COUNTY													
393	43%	5%	12%	2%	3%	10%	16%	3%	1%	>1%	>1%	1%	4%
ALL BLUEBIRDS - ALL STUDY AREAS													
395	43%	5%	All Orth. (190)	48%									

ALL SEASONS

TOT #	GH	CR	SPI	CIC	BTL	LEP	FLY	ANT	MIL	BUG	DRA	BER	UNCL
WESTERN BLUEBIRD - GRANT COUNTY													
50	12%	30%	16%	–	14%	18%	–	2%	–	–	–	–	8%
MOUNTAIN BLUEBIRD - GRANT COUNTY													
26	11%	27%	42%	–	4%	8%	–	4%	–	–	–	4%	–
ALL BLUEBIRDS - GRANT COUNTY													
76	12%	29%	25%	–	11%	14%	–	3%	–	–	–	1%	5%

(1991 DIET SAMPLES, cont.)

<div align="center">(ALL SEASONS)</div>

WESTERN BLUEBIRD - WHEELER COUNTY
481   27%   14%   13%   6%   10%   8%   13%   3%   >1%   >1%   -   -   4%
MOUNTAIN BLUEBIRD - WHEELER COUNTY
 99   44%   13%   8%   1%   3%   14%   3%   3%   3%   -   1%   2%   4%
ALL BLUEBIRDS - WHEELER COUNTY
580   31%   14%   12%   5%   8%   9%   11%   3%   1%   >1%   >1%   >1%   4%
WESTERN BLUEBIRD - ALL STUDY AREAS
531   27%   15%   13%   6%   10%   9%   12%   3%   >1%   >1%   -   -   4%
MOUNTAIN BLUEBIRD - ALL STUDY AREAS
125   38%   16%   15%   >1%   3%   13%   2%   3%   2%   -   >1%   2%   3%
ALL BLUEBIRDS - ALL STUDY AREAS
656   29%   15%   13%   5%   9%   10%   10%   3%   1%   >1%   >1%   >1%   4%

<div align="center">All Orth.   (290)   44%</div>

1990 DIET SAMPLES - COMPARISON OF SPECIES, COUNTIES, SEASONS.

JUNE

TOT #	GH	CR	SPI	CIC	BTL	LEP	FLY	ANT	MIL	BUG	DRA	BER	UNCL
WESTERN BLUEBIRD - WHEELER COUNTY													
94	52%	28%	3%	0	6%	5%	0	4%	0	1%	0	0	0
MOUNTAIN BLUEBIRD - WHEELER COUNTY													
20	45%	15%	10%	0	0	10%	0	20%	0	0	0	0	0
ALL BLUEBIRDS - WHEELER COUNTY													
114	51%	25%	4%	0	5%	6%	0	7%	0	1%	0	0	0

NO EARLY DIET SAMPLES FROM GRANT COUNTY
ALL BLUEBIRDS - ALL STUDY SITES
114 All Orth. (87) 76%

JULY

TOT #	GH	CR	SPI	CIC	BTL	LEP	FLY	ANT	MIL	BUG	DRA	BER	UNCL
WESTERN BLUEBIRD - WHEELER COUNTY													
177	69%	10%	5%	2%	3%	4%	2%	1%	<1%	0	0	0	4%
MOUNTAIN BLUEBIRD - WHEELER COUNTY													
6	67%	0	0	0	0	0	0	33%	0	0	0	0	0
ALL BLUEBIRDS - WHEELER COUNTY													
183	69%	9%	4%	2%	3%	4%	2%	2%	<1%	0	0	0	4%
WESTERN BLUEBIRD - GRANT COUNTY													
27	100%	0	0	0	0	0	0	0	0	0	0	0	0
MOUNTAIN BLUEBIRD - GRANT COUNTY													
40	88%	5%	0	0	0	0	0	5%	0	0	0	0	3%
ALL BLUEBIRDS - GRANT COUNTY													
67	93%	3%	0	0	0	0	0	3%	0	0	0	0	1%

ALL BLUEBIRDS - ALL STUDY AREAS
250 All Orth. (208) 83%

ALL SEASONS

TOT #	GH	CR	SPI	CIC	BTL	LEP	FLY	ANT	MIL	BUG	DRA	BER	UNCL
WESTERN BLUEBIRD - WHEELER COUNTY													
271	63%	16%	4%	1%	4%	4%	1%	2%	<1%	<1%	0	0	3%
MOUNTAIN BLUEBIRD - WHEELER COUNTY													
26	50%	12%	8%	0	0	8%	0	23%	0	0	0	0	0
ALL BLUEBIRDS - WHEELER COUNTY													
297	62%	15%	4%	1%	4%	5%	1%	4%	<1%	<1%	0	0	2%
WESTERN BLUEBIRD - GRANT COUNTY													
27	100%	0	0	0	0	0	0	0	0	0	0	0	0
MOUNTAIN BLUEBIRD - GRANT COUNTY													
40	88%	5%	0	0	0	0	0	5%	0	0	0	0	3%
ALL BLUEBIRDS - GRANT COUNTY													
67	93%	3%	0	0	0	0	0	3%	0	0	0	0	1%
WESTERN BLUEBIRD - ALL STUDY SITES													
298	67%	14%	4%	1%	4%	4%	1%	2%	<1%	<1%	0	0	2%
MOUNTAIN BLUEBIRD - ALL STUDY SITES													
66	73%	8%	3%	0	0	3%	0	12%	0	0	0	0	2%
ALL BLUEBIRDS - ALL STUDY SITES													
364	68%	13%	4%	<1%	3%	4%	1%	4%	<1%	<1%	0	0	2%

All Orth. (295) 81%

1989 DIET SAMPLES - COMPARISON OF SPECIES, COUNTIES, SEASONS.
TOT # = total number of food items observed being delivered to
nestlings; GH = grasshopper; CR = cricket; SPI = spider; CIC = cicada;
BTL = beetle (adult or larva); LEP = butterfly, moth, caterpillar; FLY
= flying insect (Diptera & Hymenoptera); MIL = millipede; BUG =
Hemiptera; DRA = dragonfly; BER = Squaw Currant berry; UNCL =
unclassified but not a grasshopper or cricket; All Orth. = grasshoppers
plus crickets, total number in ().

ALL BLUEBIRDS - WHEELER COUNTY - JULY

TOT #	GH	CR	SPI	CIC	BTL	LEP	FLY	ANT	MIL	BUG	DRA	BER	UNCL
125	76%	0	4%	0	1%	2%	2%	2%	0	0	0	0	14%

GRASSHOPPER DENSITIES - 1991

STUDY SITES (WITH NEST BOXES)

NERI
June counts: 0, 0, 0, 1, 7, 0, 0, 0, 0, 0
Mean: 0.8 (n = 10, s = 2.2)
July counts: 8.5, 0.5, 10.5, 23, 9, 4.5, 3, 2.5, 2
Mean: 7.1 (n = 9, s = 6.9)

STEIWER
June counts: 0, 0, 0, 0, 0, 3.5, 0, 0.5, 0, 0.5, 0, 0
Mean: 0.4 (n = 12, s = 1.0)
July counts: 1, 0, 0.5, 1, 0, 0, 1, 0
Mean: 0.4 (n = 8, s = 0.5)

CAMPBELL
June counts: 0, 0, 0, 0, 1, 2, 0, 0, 0, 0, 13, 0
Mean: 1.3 (n = 12, s = 3.7)
July counts: 17.5, 4.5, 3, 10, 15, 26, 39.5, 26.5,
17, 19.5
Mean: 17.9 (n = 10, s = 11.0)

MORRIS
June counts: 0, 0, 0, 0, 0.5, 0, 0.5, 0, 0, 0.5
Mean: 0.2 (n = 10, s = 0.2)
July counts: 2, 1, 9, 4.5, 2.5, 4.5, 5, 1
Mean: 3.7 (n = 8, s = 2.7)

SKITES
June counts: --
July counts: 5, 12.5, 4, 6.5, 1, 4, 17.5, 7.5
Mean: 7.3 (n = 8, s = 5.3)

WHEELER COUNTY STUDY SITES COUNT MEAN
June: 0.7 (n = 44, s = 2.2)
July: 7.7 (n = 43, s = 8.9)

MURDERERS
CREEK
June counts: 1, 0, 0, 0, 0
Mean: 0.2 (n = 5, s = 0.4)
July counts: 4, 1, 1, 0.5, 0, 7.5, 2.5, 3
Mean: 2.4 (n = 8, s = 2.5)

CHICKENHOUSE
GULCH
June counts: 0, 0, 0, 1.5, 0, 0, 0
Mean: 0.2 (n = 7, s = 0.6)
July counts: 1.5, 5.5, 2.5, 3, 0, 1.5, 2.5, 5
Mean: 2.7 (n = 8, s = 1.8)

GRANT COUNTY STUDY SITES COUNT MEAN
June: 0.2 (n = 12, s = 0.5)
July: 2.6 (n = 16, s = 2.1)

NO-BOX SITES

CAMPBELL
WEST
June counts: 0.5, 10.5, 3.5, 1.5, 1.5, 7, 1, 10.5,
12.5, 13, 4.5, 7, 10.5
Mean: 6.4 (n = 13, s = 4.6)
July counts: 0, 1.5, 10, 28, 17, 22, 11, 16.5
Mean: 13.3 (n = 8, s = 9.6)

(<u>NO-BOX SITES</u>)

HOOVER   June counts: 0, 3.5, 0, 0, 2, 4, 3, 1
  CANYON   Mean: 1.7 (n = 8, s = 1.7)
          July counts: 12, 11, 9.5, 9.5, 5.5, 10.5, 5.5, 6.5
             Mean: 8.6 (n = 8, s = 2.6)

KINZUA   June counts: 21, 7.5, 3.5, 0, 2.5, 10, 7.5, 8, 5, 3,
                   1.5, 4, 0
            Mean: 5.7 (n = 13, s = 5.6)
          July counts: 12.5, 18, 16, 13, 9, 18, 16.5, 21.5, 15
            Mean: 15.5 (n = 9, s = 3.7)

<u>WHEELER COUNTY NO-BOX SITE COUNT MEAN</u>
    June: 5.0 (n = 34, s = 4.8)
    July: 12.6 (n = 25, s = 6.5)

BIG BASIN   June counts: 0, 0, 0, 0, 3.5, 0.5, 3.5, 0
             Mean: 0.9 (n = 8, s = 1.6)
          July counts: 8.5, 7, 5, 6.5, 11.5, 5, 9.5, 4
            Mean: 7.1 (n = 8, s = 2.6)

BAKER CITY June counts: 1.5, 0, 0, 0, 0.5, 0, 0, 0
  GULCH   Mean: 0.3 (n = 8, s = 0.5)
          July counts: 4, 2, 0, 6, 0.5, 2, 3, 1.5
            Mean: 2.4 (n = 8, s = 1.9)

<u>GRANT COUNTY NO-BOX SITE COUNT MEAN</u>
    June: 0.6 (n = 16, s = 1.2)
    July: 4.8 (n = 16, s = 3.3)