

# Cal/Ecotox Exposure Factors for Western Meadowlark (*Sturnella neglecta*)\*

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Endpoint Type	Endpoint Value	Error	Range	Units	Sex	Life Stage	Location	Note	Reference
Body Weight - Mean	75.9		74.1-79.6	g	F	Adult	AZ; MEXICO; TX	a	1
Body Weight - Mean	101.5		88.3-114.0	g	M	Adult	AZ; MEXICO; TX	b	1
Body Weight - Mean	4.00			oz	NR	Adult	CA	c	2
Body Weight - Mean	0.25			oz	NR	Nestling	CA	d	2
Clutch or Litter Size	5			eggs/clutch	F	Adult	CA	e	2
Clutch or Litter Size	5.41	0.14 SE		eggs/clutch	F	Adult	CANADA	f	3
Clutches or Litters per year	2			nests/yr	F	Adult	CA	g	2
Dietary Composition	Acridid, adult Coleoptera, Tettigoniid, larval Lepidoptera, Hymenoptera, Other, Hemipteran, spider				NR	Adult	NE	h	4
Dietary Composition	<i>Sturnella</i> sp., <i>Colaptes</i> , sparrows, <i>Lepus californicus</i> , <i>Sigmodon hispidus</i> , <i>Sylvilagus</i> sp., <i>Felis domesticus</i>				NR	Adult	OK	i	5
Dietary Composition	mourning dove				NR	NR	NM	j	6
Dietary Composition	grain (30.8), weed seed (5.3), miscell. vegetable (0.6), Coleoptera (21.3), Orthoptera (20.3), Lepidoptera (12.2), Hemiptera (1.7), Hymenoptera (5.6), Diptera (0.1), Arachnida (0.2), miscell. insects (1.9)			%	NR	NR	CA	k	2
Duration of Incubation or Gestation			12-14	d	NR	Embryo	CA	l	2
Fledging or Weaning Rate	2.32	0.06 SE		young/female	F	Adult	CANADA	m	3
Growth Rate	7			g/d	NR	Nestling	CA	n	2
Hatching Success	19/31				B	Adult	CANADA	o	3
Hatching Success	3			young/clutch	NR	Juvenile	CA	p	2
Home Range			10-32	acres	B	Adult	IA	q	7
Population Density	0 to 12 (+/-15)			nests/100 ha	B	Adult	IA	r	8
Population Density			2.0-3.5	territories/16 ha	B	Adult	UT	s	9
Population Density	6			birds per 50 acres	B	Adult	IA	t	7
Population Density	28.43 (96)			pairs/square mile	B	Adult	ND	u	10
Population Density			0.1-1.0	birds/acre	NR	NR	Merced; CA	v	2
Territory Size	12,406.8			m <sup>2</sup>	M	Adult	AK; CO	w	11
Territory Size	3,228.1			m <sup>2</sup>	M	Adult	AK; CO	x	11
Time of Fledging or Metamorphosis			8-10	d	NR	Fledgling	CA	y	2
Time of Nesting	Mar-Aug				B	Adult	CA	z	2
Time of Nesting	first two weeks of May				B	Adult	CANADA	aa	3

## Notes

a mean body weight; N=3 birds; summer

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b	mean body weight; N=8 birds; summer
c	body weight of average adult; N=NR
d	body weight of day-old nestling; N=2 nests
e	usual number of eggs laid; N=NR
f	mean size of clutches laid early (pre-May 1), mid (May 1-10), or late season (post-May 10); N=41 nests; near Delta, Manitoba
g	usual number of nesting attempts per year; N=NR; First nesting in April and May; second nesting in July and August.
h	percent of arthropod taxa in the diet, listed in order of decreasing frequency; N=95 birds; Arapaho Prairie; seeds made up less than 5% of diet
i	species observed to be scavenged by meadowlarks; N=NR; winter
j	item found in stomach analysis; N=1 bird; December; New Mexico State Hwy 26; see paper for observations of birds eating carrion
k	percent contribution to the diet by volume, based on stomach content analyses; N=2,000 stomachs; all; Data are for 20 locations in CA and over all seasons. See citation for diet composition data from individual locations.
l	observed range of incubation periods; N=NR
m	number of young fledged per female; N=38 females; near Delta, Manitoba; Males produced 3.60 +/- 0.11 young on average.
n	average increase in body weight; N=2 nests
o	proportion of successful nests (hatched at least one egg) in which entire clutch hatched; N=41 nests; near Delta, Manitoba
p	estimated average brood size; N=NR
q	estimated breeding territory size defended by males; N=4 territories; early June-mid August; near Iowa Lakeside Laboratory
r	mean nest densities in unfilled corn or soybean fields; N=8-9 fields; spring; Adair County
s	range of mean breeding bird densities on three grassland-sagebrush sites (over two years); N=3 sites; April-June; Wasatch National Forest
t	density of birds nesting and feeding in study area; N=6; early June-mid August; near Iowa Lakeside Laboratory
u	mean density of breeding birds (maximum density in parentheses); N=130 sample units (160 acres/unit); April-July
v	N=23-67 birds counted; July; Los Banos, Merced
w	average territory size in mated birds; N=17 birds; March-June; Boulder
x	average territory size of unmated birds; N=7 birds; March-June; Boulder
y	observed number of days chicks spent in nest; N=NR
z	length of nesting period; N=NR
aa	peak time of nest initiation; N=46 nests; near Delta, Manitoba

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