

BIRDS IN THE SAGINAW BAY AREA

JUNE 1, 1998 THRU JULY 31, 1998

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Summary:

The weather this summer season was best described as 'dry'. The rain that did occur was usually localized and occasionally very heavy. In general northern counties were drier leading to small and localized wild berry production. The SBA avoided the extreme temperatures experienced in the South, but there were two stretches of 90+ days.

A respectable total of 187 species were reported for the summer season. **Common Loons** appeared to enjoy good nesting success in Iosco Co. lakes with at least 6 young fledged. Iosco Co. apparently also had its first breeding record of **Green-winged Teal**. New SBA peak counts were noted for **Great Egrets** (250) and **Bald Eagles** (26); but almost amazing was the kettle of **80 Ravens**, breaking the previous peak count by seven fold. There were a few new spring late records apparently established including **Common Goldeneye**, **Semipalmated Sandpiper**, **Sanderling** and **Wilson's Warbler**. Unreported by any of our observers was a July 24 sighting of a **Scissor-tailed Flycatcher** in Hale, Iosco Co and reported in the local newspaper. Hopefully the state compiler will receive details.

Always notable in the SBA were the following species: **American White Pelican**, **American Avocet**, **Hudsonian Godwit**, **Buff-breasted Sandpiper**, **Clay-coloured Sparrow**, and **Orchard Oriole**. While it is difficult as new compilers to determine population trends from the raw data reported, there were encouraging numbers of reports of both **bitterns**, **Marsh and Sedge Wrens**. **Broad-winged Hawks**, **Sandhill Cranes**, **Upland Sandpipers**, and **American Coots** went unreported. Supposedly common species such as both **cuckoos**, **Whip-poor-Wills**, and **Common Nighthawks** had few observations.

As expected the number of reports received was much less than Spring. Let's get out there and enjoy the Fall birding. The usual disclaimer that this is a compilation of records as sent in by a number of observers applies. No attempt to validate any sightings was made by compilers.

COMMON LOON

12 TP Io. Lakes GN,TN 3 families with 2 yng. each

PIED-BILLED GREBE

4 6/15 Karn Ba. JS, GS

1 7/21 Tuttle Msh. Io. GZ

3 7/7 ShNWR, Sa BG

HORNED GREBE

None

RED-NECKED GREBE

None

AMERICAN WHITE PELICAN

2 6/11 Karn plt. Ba. DB

3 7/23 ShNWR, Sa. DP, BG, MW

DOUBLE-CRESTED CORMORANT

TP Karn Plt. Ba. JS, GS

250 6/5 Tawas Pt., Io BB

AMERICAN BITTERN

3 6/5 Wigwam Bay, Ar BB

1 7/10 Tuttle marsh, Io GN,TN

1 7/17 ShNWR, Sa BG

LEAST BITTERN

1 6/5 Wigwam Bay, Ar BB

1 7/29 Nayanquing Pt, Ba. GP, JG

1 7/30 ShNWR, Sa DP

TRI-COLOURED HERON

None

LITTLE BLUE HERON

None

GREAT BLUE HERON

TP Karn Plt. Ba. JS,GS

174 7/25 ShNWR, Sa. BG Peak count

GREAT EGRET

250 7/25 ShNWR, Sa BG Peak count

CATTLE EGRET

1 6/23 ShNWR, Sa DP

2 7/15 Gillespie's, Ba JG

GREEN HERON

5 TP ShNWR, & Tuttle Marsh m.o.

BLACK-CROWNED NIGHT HERON

TP

YELLOW-CROWNED NIGHT HERON

1 7/30 ShNWR, Sa DP, BG, MW Juvenile, report submitted

MUTE SWAN

reported from typical Ba. locations

TUNDRA SWAN

1 6/16-26 ShNWR, Sa DP, BG yellow in front of eyes clearly visible

GREATER WHITE-FRONTED GOOSE

None

SNOW GOOSE

None

CANADA GOOSE

CTP

WOOD DUCK

TP

78	7/29	ShNWR, Sa	BG	peak count
GREEN-WINGED TEAL				
	TP	ShNWR, Sa	DP	
3	7/4	Karn Plt. Ba	JS, GS	
	7/9 & 7/24	Tuttle Marsh, Io	GZ, GN, TN	female with 2-3 young, reported as first confirmed nesting in Io.
AMERICAN BLACK DUCK				
No reports				
MALLARD				
	TP	SBA		
1686	6/4	ShNWR, Sa	BG	Peak count
NORTHERN PINTAIL				
	TP	ShNWR	DP	
BLUE-WINGED TEAL				
1	7/21	Tuttle marsh, Io.	GZ	
2	6/15	Karn Plt., Ba	JS, GS	
NORTHERN SHOVELLER				
2	6/4	ShNWR, Sa	BG	
GADWALL				
1	6/11	ShNWR, Sa	DP	Male
2	7/4	Karn Plt., Ba	JS, GS	
		thru end of period, ShNWR DP		
AMERICAN WIGEON				
5	6/15	Karn Plt, Ba	JS, GS	
1	7/4	Karn Plt, Ba	JS, GS	
CANVASBACK				
None				
REDHEAD				
None				
RING-NECKED DUCK				
None				
GREATER SCAUP				
None				
LESSER SCAUP				
1	7/2	ShNWR, Sa	DP	Male
OLDSQUAW				
None				
COMMON GOLDENEYE				
1	6/16	Karn Plt., Ba	JS, GS	Uncommonly late
BUFFLEHEAD				
None				
HOODED MERGANSER				
4	6/15	Karn Plt. Ba	JS, GS	
3	7/24	Tuttle marsh, Io.	BB	
COMMON MERGANSER				
2	6/11	Karn Plt, Ba	JS, GS	females
RED-BREASTED MERGANSER				
8	6/20	Tawas, Io	BB	
RUDDY DUCK				
7	6/26	ShNWR, Sa	DP	Last sighting
TURKEY VULTURE				
3	6/19	Kawkawlin flooding, Mi	GZ	
8	6/21	Iosco Airport, Io	JS, GS	
OSPREY				

1	6/13	Karn Plt. Ba	JS	
2	7/26	Tuttle Marsh, Io.	GN, TN	
BALD EAGLE				
26	7/17	ShNWR, Sa	BF	Peak count, successful nesting
	TP	Ba	JS, GS	
NORTHERN HARRIER				
1	TP	ShNWR, Sa	DP	
2	6/24	Gibson twp. Ba	JS, GS	
1	7/10	Tuttle Marsh, Io	GN, TN, BB	
SHARP-SHINNED HAWK				
1	7/1	East Tawas. Io	TN, GN	
COOPER'S HAWK				
1	6/20	Essexville, Ba	JS	
NORTHERN GOSHAWK				
None				
RED-SHOULDERED HAWK				
1	6/5	Powerline rd, Io	BB	
1	6/20	Eagle run, Io	BB	
BROAD WING HAWK				
None				
RED-TAILED HAWK				
TP				
ROUGH-LEGGED HAWK				
None				
GOLDEN EAGLE				
None				
AMERICAN KESTREL				
TP				
MERLIN				
None				
PEREGRINE FALCON				
1	7/23	ShNWR, Sa	MW	
RING-NECKED PHEASANT				
TP				
RUFFED GROUSE				
TP				
1	7/3	Kawkawlin flooding, Mi	GZ	
WILD TURKEY				
12	7/22	Parrish rd. Ba	GZ	Scattered sightings Ba, Mi, Io
NORTHERN BOBWHITE				
2	6/27	Hampton twp. Ba	JS, GS, MW	
KING RAIL				
None				
VIRGINIA RAIL				
7	7/9	Tuttle Marsh, Io	GN, TN	2 adults, 5 young
1	7/22	Nayanquing Pt. Ba	GP, JG	also on 7/29 same location
SORA				
1	6/17	W. Saginaw City Marsh	GZ	calling
1	7/2	ShNWR, Sa	DP	
COMMON MOORHEN				
	7/15	Nayanquing Pt, Ba	GZ	Pair with 2-3 young None at Karn Plant!
AMERICAN COOT				
None?				

SANDHILL CRANE

None

BLACK BELLIED PLOVER

9 6/4 ShNWR, Sa BG

1 6/5 ShNWR, Sa DP Last sighting

AMERICAN GOLDEN PLOVER

1 6/5 ShNWR, Sa DP Last sighting

SEMIPALMATED PLOVER

13 6/5 ShNWR, Sa DP Last sighting

PIPING PLOVER

None

KILLDEER

TP

756 7/17 ShNWR, Sa DP Peak count

AMERICAN AVOCET

1 6/16 ShNWR, Sa BG

GREATER YELLOWLEGS

6 6/5 ShNWR, Sa DP Last spring migrants

2 6/26 ShNWR, Sa DP First Fall Migrants

14 7/31 ShNWR, Sa DP Also reported Io

LESSER YELLOWLEGS

2 6/19 ShNWR DP First fall migrants

1016 7/17 ShNWR, Sa DP Peak count

SOLITARY SANDPIPER

1 6/16 ShNWR, Sa DP First

14 7/17 ShNWR, Sa DP Peak — 34 not 14

4 7/24 Tuttle Marsh, Io BB

WILLET

None

SPOTTED SANDPIPER

42 7/17 ShNWR, Sa DP Peak count

UPLAND SANDPIPER

None

HUDSONIAN GODWIT

2 6/1 ShNWR, Sa DP

WHIMBREL

1 6/6 AuSable R. mouth, Io GN, TN

RUDDY TURNSTONE

None

SANDERLING

2 6/21 Tawas Pt., Io JS, GS Late?

1 7/17 ShNWR, Sa DP First Fall

SEMIPALMATED SANDPIPER

13 6/20 Tawas Pt., Io BB Last spring migrants

6 7/17 ShNWR, Sa DP First Fall migrants

255 7/31 ShNWR, Sa DP Peak count

WESTERN SANDPIPER

None

LEAST SANDPIPER

2 6/16 Karn Pt. Ba JS, GS Last spring migrant

52 6/26 ShNWR, Sa DP First fall migrants

460 & 237 ShNWR, Sa DP & BG High counts

WHITE-RUMPED SANDPIPER

None

BAIRD'S SANDPIPER

None

PECTORAL SANDPIPER

1	6/5	ShNWR	DP	Last spring migrant
10	7/9	ShNWR	DP	First spring migrants
240	7/31	ShNWR, Sa	DP	Peak count

DUNLIN

219	6/4	ShNWR, Sa	BG	Peak count
170	6/5	ShNWR, Sa	DP	Last spring migrants

STILT SANDPIPER

1	7/9	ShNWR, Sa	DP	First fall migrants
17	7/17	ShNWR, Sa	DP	Peak count

BUFF-BREASTED SANDPIPER

1	7/31	ShNWR, Sa	DP	
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SHORT-BILLED DOWITCHER

1	6/5	ShNWR, Sa	DP	Last Spring migrant
10	7/2	ShNWR, Sa	DP	First Fall migrants
88	7/9	ShNWR, Sa	DP	Peak count

LONG-BILLED DOWITCHER

None

COMMON SNIBE

5	6/7, 7/1	Tuttle Marsh Io	GN, TN	
1	7/24	Tuttle Marsh Io	BB	

AMERICAN WOODCOCK

1	Late june	ShNWR, Sa	DP	
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WILSON'S PHALAROPE

1	7/31	ShNWR, Sa	DP	
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BONAPARTE'S GULL

2-3	TP	ShNWR, Sa	DP	
12	6/21	Tawas Pt., Io	JS, GS	

RING-BILLED GULL

CTP

HERRING GULL

TP

ICELAND GULL

None

GLAUCOUS GULL

None

LESSER BLACK-BACKED GULL

None

GREAT BLACK-BACKED GULL

1	6/18	Karn Pt., Ba	JS, GS	
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CASPIAN TERN

TP

COMMON TERN

TP

FORSTER'S GULL

TP

BLACK TERN

2	6/19	Kawkawlin flooding, Mi	GZ	
4	6/21	Tawas Pt., Io	JS, GS	
2	7/21	Tuttle Marsh, Io	GZ (also BB)	

ROCK DOVE

CTP

MOURNING DOVE			
CTP			
BLACK-BILLED CUCKOO			
1	6/20	Eagle run, Io	BB
YELLOW-BILLED CUCKOO			
1	6/16	ShNWR, Sa	BG
EASTERN SCREECH OWL			
1-2	TP	Midland, Mi	RA
24	7/11	ShNWR, Sa	DP, BG
GREAT HORNED OWL			
1	TB	SBA	scattered sightings
SNOWY OWL			
None			
BARRED OWL			
1	6/11	ShNWR, Sa	DP
1	7/11	ShNWR, Sa	BG
SHORT-EARED OWL			
None			
COMMON NIGHTHAWK			
4	7/5	Bay City, Ba	JS, GS
1	7/20	Sa	DP Also reported in Io.
WHIP-POOR-WILL			
1	7/12	Tawas, Io	TN,GN
CHIMNEY SWIFT			
2	6/4	ShNWR, Sa	
	TP	Ba, Mi	
RUBY-THROATED HUMMINGBIRD			
	TP		Scattered sightings
BELTED KINGFISHER			
2-4	TP	ShNWR, Sa	Other scattered sightings
RED-HEADED WOODPECKER			
4	6/6-7/2	Seven Mile Swamp, Io	BB
RED-BELLIED WOODPECKER			
TP			
YELLOW-BELLIED SAPSUCKER			
2	6/6	Io	BB
1	6/21	Omer, Ar.	JS,GS
DOWNY WOODPECKER			
TP			
HAIRY WOODPECKER			
TP			
NORTHERN FLICKER			
22	7/29	ShNWR, Sa	DP
CTP			
PILEATED WOODPECKER			
1	6/1	ShNWR, Sa	DP
2	6/5	Wigwam, Ar	BB
2	6/20	Io	BB
OLIVE-SIDED FLYCATCHER			
4	7/25	7 Mi. Swamp Io	BB
1	7/29	ShNWR, Sa	DP
EASTERN WOOD PEEWEE			
TP			
ALDER FLYCATCHER			

3	6/5	Wigwam bay, Ar	BB	
3	6/20	7 Mi. Swamp, Io	BB	
1	6/6	Hampton twp, Ba	GS	
WILLOW FLYCATCHER				
3	6/16	ShNWR, Sa	BG	
TP				
LEAST FLYCATCHER				
TP				
EASTERN PHOEBE				
TP				
8	7/29	ShNWR, Sa	BG	
GREAT CRESTED FLYCATCHER				
1	7/3	Kawkawlin flooding, Mi	GZ	
14	7/29	ShNWR, Sa	BG	
EASTERN KINGBIRD				
TP				
WESTERN KINGBIRD				
None				
HORNED LARK				
TP		SBA	mo	successful nesting at ShNWR (DP)
PURPLE MARTIN				
6	TP	Alabaster twp., Io	JS,GS,BB	
TREE SWALLOW				
CTP				
2800	7/20	ShNWR, Sa	DP	Peak count
NORTHERN ROUGHWINGED SWALLOW				
		Nesting in ShNWR, Sa and Ba	DP, RA	Scattered sightings SBA
BANK SWALLOW				
125	6/13	Karn Plt., Ba	JS	Counted 154 nest holes
CLIFF SWALLOW				
CTP		Bridges in Bay City, Ba	JS,GS	Also nesting Midland, Mi
BARN SWALLOW				
CTP				
BLUEJAY				
TP				
AMERICAN CROW				
TP				
COMMON RAVEN				
80	6/6	Fawn Rd., Io	BB	a large kettle
BLACK-CAPPED CHICKADEE				
CTP				
TUFTED TITMOUSE				
TP				
RED-BREASTED NUTHATCH				
TP		Io	BB	Scattered sightings
WHITE-BREASTED NUTHATCH				
TP				
BROWN CREEPER				
TP		ShNWR, Sa	DP	
		Unsuccessful nesting at BCSRA,	GP, EP, MW	
HOUSE WREN				
1	7/15	Nayanquing Pt., Ba	GZ	
12	7/29	ShNWR, Sa	BG	
TP		Hampton Twp, Ba	JS	

WINTER WREN

4 TP Io BB Scattered sightings

SEDGE WREN

TP ShNWR, Sa DP Nesting in three of refuges grasslands

8 6/24 Gibson Twp, Ba JS,GS

MARSH WREN

TP ShNWR, Sa DP Nesting in three of refuge's cattail marshes

TP Hampton Twp, Ba JS Also Tuttle Marsh, Io

GOLDEN-CROWNED KINGLET

None

RUBY-CROWNED KINGLET

None

BLUE-GREY GNATCATCHER

1 7/3 Kawkawlin flooding, Mi GZ

12 7/29 ShNWR, Sa BB

EASTERN BLUEBIRD

1 6/24 Gibson twp. Ba JS,GS

6 6/30 Midland compost, Mi GZ 1 on 7/3

3 7/25 7 Mi. swamp, Io BB

VEERY

3 6/8 Kawkawlin flooding, Mi GZ also Io (BB)

GRAY-CHEEKED THRUSH

None

SWAINSON'S THRUSH

None

HERMIT THRUSH

3 6/21 Iosco Airport, Io JS,GS also Io (BB)

WOOD THRUSH

1 6/19 Kawkawlin flooding, Mi GZ

4 7/17 ShNWR, Sa BG

AMERICAN ROBIN

CTP

GRAY CATBIRD

TP

NORTHERN MOCKINGBIRD

None

BROWN THRASHER

1 6/5 CNC, Mi GZ

TP Ba & Io JS,GS&BB

AMERICAN PIPIT

None

CEDAR WAXWING

TP

NORTHERN SHRIKE

None

EUROPEAN STARLING

CTP

SOLITARY (BLUEHEADED) VIREO

1 7/10&25 scattered sites Io BB

YELLOW-THROATED VIREO

1 6/5 Wigwam Bay, Ar BB

1 7/29 ShNWR, Sa BG

WARBLING VIREO

1 6/5 CNC, Mi GZ

12	6/16	ShNWR, Sa	BG	
6	7/29	ShNWR, Sa	BG	
RED-EYED VIREO				
TP				Scattered sightings
BLUE-WINGED WARBLER				
1	6/17	Nott Rd., Sa	DP	Singing
GOLDEN-WINGED WARBLER				
1	6/20	Io	BB	
TENNESSEE WARBLER				
None				
ORANGE-CROWNED WARBLER				
None				
NASHVILLE WARBLER				
15	TP	Io	BB	several sites
NORTHERN PARULA				
None				
YELLOW WARBLER				
TP				
CHESTNUT-SIDED WARBLER				
2	6/6	Hampton twp., Ba	GS	
8	6/20	Eagle Run, Io	BB	
MAGNOLIA WARBLER				
1	6/6	7Mi.Hill swamp, Io	BB	
CAPE MAY WARBLER				
None				
BLACK-THROATED BLUE WARBLER				
1	7/11	Fountain Cr. Io	BB	
YELLOW-RUMPED WARBLER				
1	6/10	Rollways, Io	BB	
BLACK-THROATED GREEN WARBLER				
1-3	TP	Several sites, Io	BB	
BLACKBURIAN WARBLER				
2	6/5	Powerline Rd. Io	BB	
PINE WARBLER				
3	TP	Several sites, Io	BB	
PRAIRIE WARBLER				
None				
PALM WARBLER				
None				
BAY-BREASTED WARBLER				
None				
BLACKPOLL WARBLER				
None				
BLACK-AND-WHITE WARBLER				
1	TP	Several sites, Io	BB	
AMERICAN REDSTART				
10	6/20	Eagle Run, Io	BB	
1	6/21	Tawas Pt., Io	JS,GS	
4	7/29	ShNWR, Sa	BG	
PROTHONOTARY WARBLER				
2	7/2	ShNWR, Sa	DP	Singing
OVENBIRD				
7	TP	Several sites, Io	BB	

NORTHERN WATERTHRUSH			
1	6/6	7Mi.Hill swamp, Io	BB
LOUISIANA WATERTHRUSH			
None			
CONNECTICUT WARBLER			
None			
MOURNING WARBLER			
4	6/20	Eagle Run, Io	BB
COMMON YELLOWTHROAT			
3	6/5	CNC, Mi	GZ
9	7/29	ShNWR, Sa	BG
	TP	SBA	
WILSON'S WARBLER			
1	6/6	Hampton Twp. Ba	GS New SBA late!
CANADA WARBLER			
2	6/6	7Mi.Hill swamp, Io	BB
YELLOW-BREASTED CHAT			
None			
SCARLET TANAGER			
3	7/29	ShNWR, Sa	BG
	TP	Several sites, Io	BB
NORTHERN CARDINAL			
TP			
ROSE-BREASTED GROSBEAK			
	TP	SBA	
INDIGO BUNTING			
	TP	SBA	
EASTERN TOWHEE			
1	7/3	Kawkawlin flooding, Mi	GZ
3	TP	Several sites, Io	BB
AMERICAN TREE SPARROW			
None			
CHIPPING SPARROW			
TP			
CLAY-COLORED SPARROW			
1	6/21	Airport & Tuttle Marsh, Io	JS,GS&BB
FIELD SPARROW			
1	TP	Airport, Io	JS,GS & BB
6	7/1	n. Ba	GZ
VESPER SPARROW			
'few'	TP	ShNWR, Sa	DP
1	6/21	Airport, Io	GS,JS
SAVANNAH SPARROW			
TP			
GRASSHOPPER SPARROW			
1	7/11	Oscoda, Io	BB
HENSLOW'S SPARROW			
2	6/30	Gibson twp. Ba	GS,JS
4	6/30	Gypsum Rd. Io	GN,TN
FOX SPARROW			
None			
SONG SPARROW			
CTP			
LINCOLN'S SPARROW			

6	7/11	Bissonette Rd, Io	BB	
SWAMP SPARROW				
	TP	ShNWR, Sa	DP	also Hampton Twp. Ba& Wigwam
WHITE-THROATED SPARROW				
6	TP	7Mi.Hill Swamp, Io	BB	
WHITE-CROWNED SPARROW				
None				
DARK-EYED JUNCO				
1	6/21&7/11	Fountain Cr.,Io	BB	
SNOW BUNTING				
None				
BOBOLINK				
63	7/2	ShNWR, Sa	DP	Peak count, all males
RED-WINGED BLACKBIRD				
TP				
EASTERN MEADOWLARK				
TP				
WESTERN MEADOWLARK				
None				
YELLOW-HEADED BLACKBIRD				
1	Into early June	ShNWR, Sa	DP,MW,BG	None at Karn, habitat "altered"
RUSTY BLACKBIRD				
None				
BREWER'S BLACKBIRD				
2	6/6	7Mi.Hill swamp, Io	BB	
COMMON GRACKLE				
TP				
BROWN-HEADED COWBIRD				
TP				
BALTIMORE ORIOLE				
2	7/29	ShNWR, Sa	BG	
ORCHARD ORIOLE				
2	6/3&20	Tawas Pt., Io	TN,GN&BB	
1	6/5	Wigwam bay, Ar	BB	
PINE GROSBEAK				
None				
PURPLE FINCH				
3	Scattered TP	Io	BB	
HOUSE FINCH				
CTP				
COMMON REDPOLL				
None				
HOARY REDPOLL				
None				
PINE SISKIN				
None				
AMERICAN GOLDFINCH				
CTP				
EVENING GROSBEAK				
1	7/3	Lumberman's Monument, Io	JS,GS	Male
HOUSE SPARROW				
CTP				

Total: 187 species

Exotics:

None

Additions from previous reports

1	12/28	Huron Co.	MW
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Observer Key

RA	Ron Annelin	BM	Brad Murphy
MB	Mary Ann Barrowman	GN	Gary Nelkie
CB	Cheryl Bartz	TN	Tess Nelkie
TB	Tom Beachy	KO	Karl Overman
JB	Jeff Buecking	DP	Dave Peters
Bba	Barb Baldinger	GP	Glenn Peterson
BB	Bob Bell	EP	Ellen Peterson
DB	Dave Best	BR	Betty Rainwater
AB	Adan Byrne	JR	Judy Ramson
SC	Scott Calkins	SR	Steve Rosenberg
PC	Phil Chu	Sro	Steve Ross
JD	Joe Dunn	H&JS	Heinz & Jane Schwarm
DD	Dan Duso	MS	Mary Sharkey
JG	Jack Gillespie	GS	Grant Soehnel
BG	Bob Grefe	JS	Joe Soehnel
JH	Jean Henderson	KT	Kevin Thomas
LH	Larry Hyman	EK	Eugene Kenaga
M&JK	Mel & June Knowle	RW	Ron Weeks
ML	Mike Ladenberger	MW	Myles Willard
SM	Stan Madziar	GZ	Gerald Ziarno
R&CM	Ron & Connie McGinty		
MM	Mike Mencotti		

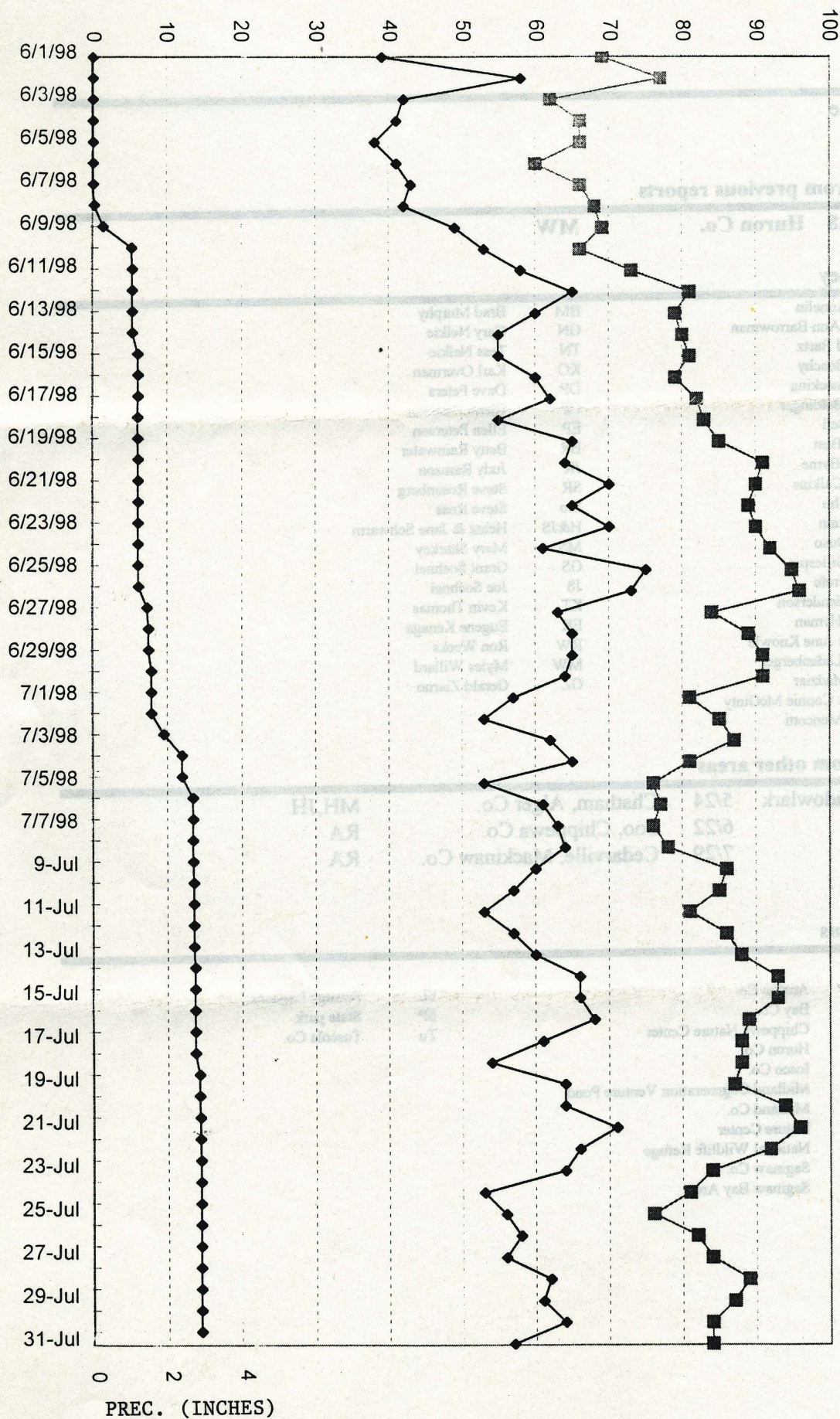
Sightings from other areas

Western Meadowlark	5/24	Chatham, Alger Co.	MH,JH
	6/22	Soo, Chippewa Co.	RA
Merlin	7/29	Cedarville, Mackinaw Co.	RA

Abbreviations

Ar	Arenac Co.	SL	Sewage Lagoons
Ba	Bay Co.	SP	State park
CNC	Chippewa Nature Center	Tu	Tuscola Co.
Hu	Huron Co.		
Io	Iosco Co.		
MCV Pond	Midland Cogeneration Venture Pond		
Mi	Midland Co.		
NC	Nature Center		
NWR	National Wildlife Refuge		
Sa	Saginaw Co.		
SBA	Saginaw Bay Area		

TEMP. ° F.



Weather Summary - Summer 1998

Chart1