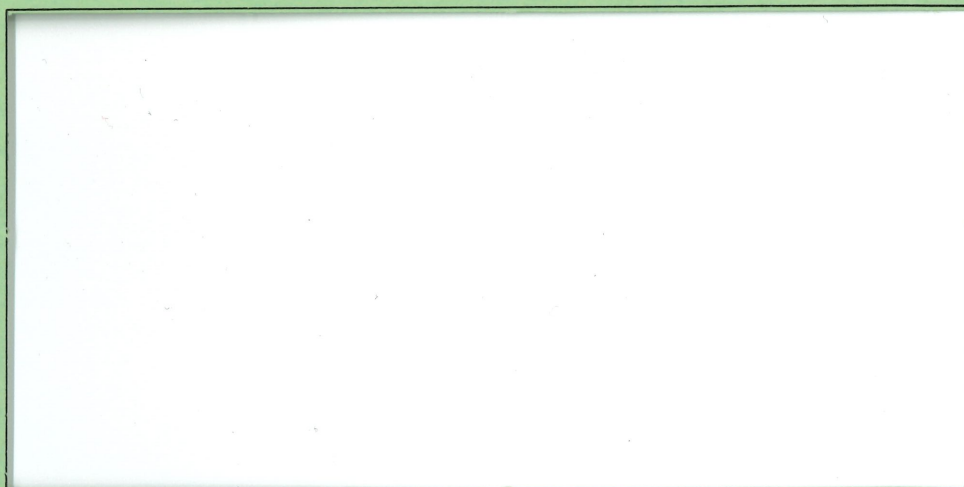


INVENTORY AND EVALUATION

SOIL AND WATER RESOURCES



SOIL CONSERVATION SERVICE
U.S. DEPARTMENT OF AGRICULTURE

HARDIN COUNTY
WETLAND WILDLIFE HABITAT
INVENTORY

This wetland wildlife habitat inventory for Hardin County was prepared by Richard L. Bassett, District Conservationist, Soil Conservation Service, for the Hardin Soil Conservation District.

Homer Calkins, Executive Officer, Hardin County Conservation Board and Duane Wilson, Conservation Officer, Iowa State Conservation Commission helped with this inventory by providing location information.

September 1973

INTRODUCTION

This wetland wildlife habitat inventory was prepared to identify existing natural wetland areas in Hardin County that are presently providing food, cover, nesting areas, and migration stops for waterfowl and are suitable for wildlife wetland management.

Rivers, streams, creeks, lakes, ponds and abandon gravel pits were not inventoried even though they provide wetland wildlife habitat. Only natural marshes, bogs, sloughs, oxbows and potholes were inventoried.

The past trend in Hardin County has been to drain the natural wetland areas with underground tile or surface ditches, thus converting the wetland to cropland. There are several landowners that recognize the wildlife value of the existing wetlands and are managing the areas for wildlife.

The main reasons we now have only a few remaining natural wetland areas is because some landowners have been unwilling to pay the higher underground tile and surface drainage costs or inadequate drainage outlets. Sooner or later most of the wetland areas will be drained if unrecognized as good waterfowl areas.

WETLAND TYPE IDENTIFICATION

Wetlands are defined and typed according to the kind of vegetation present, the length of time surface water remains throughout the year and the depth of the water.

Exhibits 1,2,3, and 4 illustrate and define the wetland drainage types 1,3,4, and 5. Defined in Fish and Wildlife Service Circular 39. This drainage classification has been accepted by the Soil Conservation Service to obtain uniform identification.

Type 1 wetlands can be drained with technical assistance from the Soil Conservation Service.

Types 3,4, and 5 wetlands have special value for waterfowl and should not be drained. It is possible for types 3 and 4 wetlands to dry up during a long drought so they should be checked carefully during a dry season.

WETLAND AREAS

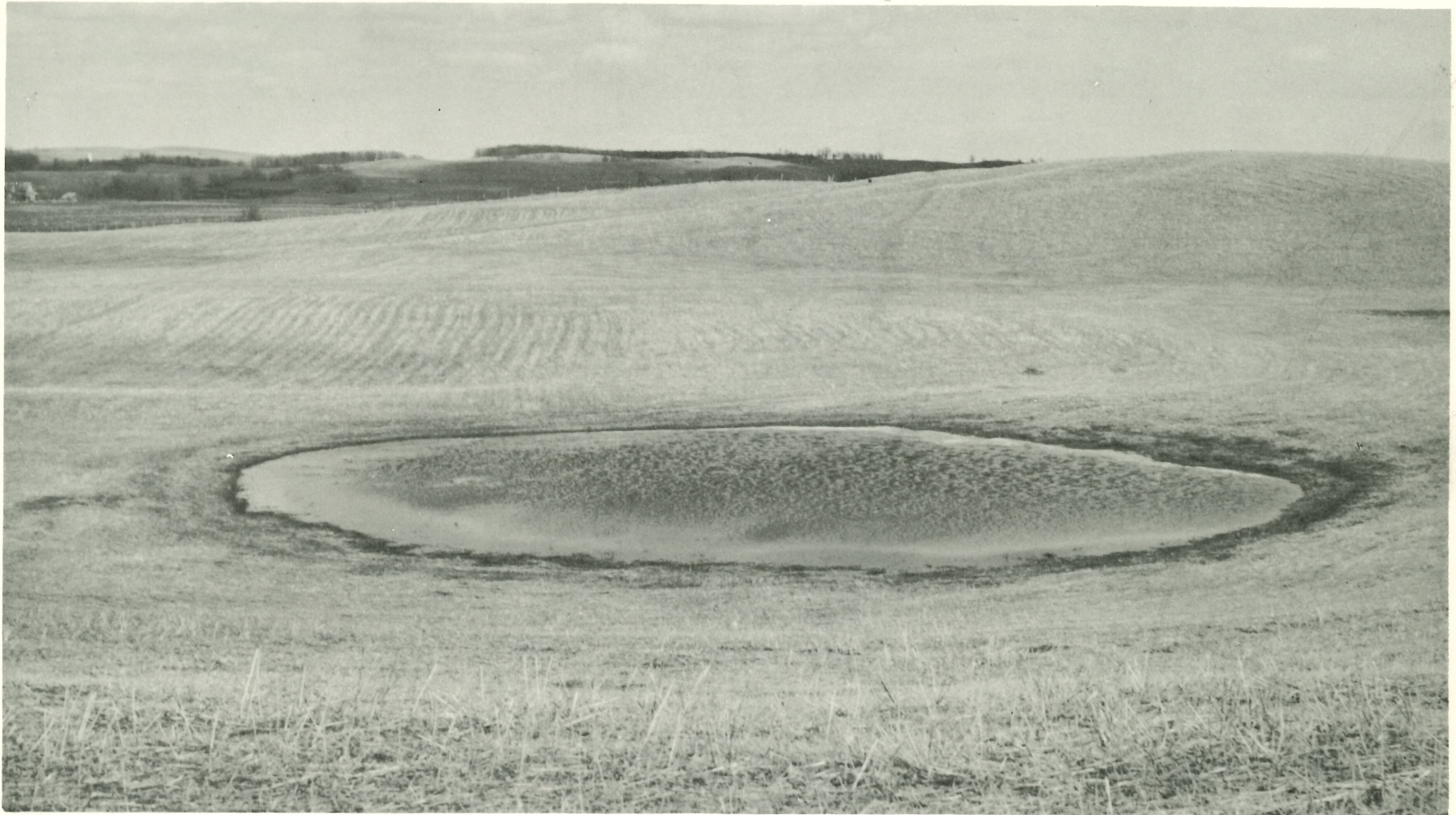
The following table lists the natural wetland areas in Hardin County by name, location, size, type and owner. Each wetland area is numbered and located on an attached aerial photo.

Map No.	Wetland Area Name	Location Twp. Sec.	Size Acres	Wetland Type
1.	Hansen Swamp Owner-G.L. Hansen	Hardin 25&26	11	3
2a.	England Bog Owner-H.J. England	Hardin 22	35	3
2b.	Klein Slough Owner-Willard Klein	Hardin 22	6	3
3.	Brooks Bog Owner-C.C. Brooks	Ellis 6	2	3
4.	Krause Bog Owner-Walter Krause	Alden 18	6	3
5.	West Co. Line Bog Owner-Birdie Baily	Buckeye 7	20	3
6.	Inks Marsh Owner-LeRoy Inks	Buckeye 6	7	4
7.	Lockman Marsh Owner-A.C. Haverston	Buckeye 5	14	4
8.	Luglan Bogs Owner-O.L. Luglan	Buckeye 15	16	3
9a.	Thoms Swamp Owner-G.D. Smuck	Ellis 18	10	4
9b.	Bahr Marsh Owner-Harold Bahr	Ellis 18	8	4
10.	Topp Swamp Owner-Clara Topp	Tipton 6	5	3
11.	Gherke Wildlife Owner-Hardin County	Ellis 29	6	4
12. Le	Lettow Swamp Owners- C.J. & Ida Hatch Edna A. Lake A. E. Canham	Ellis 14&15	5	3
13.	Smith Bog Owner-Lee Smith	Jackson 19	7	3

Map No.	Wetland Area Name	Location Twp. Sec.	Size Acres	Wetland type
14a.	Cross Bog Owner-Morton Cross	Etna 31	14	4
14b.	Wehring Bog Owner-Beulah Wehring	Etna 31	4	3
15a.	Chaplin Slough Owners-L.H. Chaplin Beryl & Mary Sheldon	Hardin 35&36	35	4
15b.	Janssen Marsh Owner-Geo. Janssen	Hardin 35	6	3
16.	Robertson Slough Owner-H. E. Johns	Etna 19 20	20	4
17.	Meints Bog Owner-Melvin & Floyd Meints	Etna 13	6	4
18.	Frerichs Sloughs Owner-Wayne Frerichs	Jackson 12 Clay 7	3 7	3 4
19.	Ox-Bow Lake Owner-Hardin County	Clay 6	22	4
20.	Stull Marsh Owner-Edward Stull	Clay 31	2	4
21.	Teske Bog Owner-Carl Dobbrunz	Tipton 13	3	3
22.	Reid Marsh Owner-Merlin & Joyce Reid	Pleasant 24	7	3
23.	Bartholomew Swamp Owner-Donald Bartholomew	Eldora 30	10	4
24.	Gifford Slough Several Owners	Eldora 31 & 32 Union 5 & 6	40 10	4
25.	Gogerty Pot Hole Area Owner-N. Patrick and Rex Gogerty	Grant 33	7	3
26.	Cleves Sloughs Owner-F. B. Moreland	Etna 35	8	3
27.	Izaak Walton Park Owner-Hardin County	Ellis 36	15	4
28.	Nehring Marsh Owner-H. O. Nehring	Pleasant 28	5	3

Map No.	Wetland Area Name	Location Twp. Sec.	Size Acres	Wetland Type
29.	Richards Marsh Owner-Richard Richards	Pleasant 27	13	4
30.	Buckles Slough Owner-Irene Buckles	Pleasant 36	14	3
31.	Mason Slough Owners-Foster Mason H. L. Savage, etux.	Hardin 10	6	3

WETLAND TYPE IDENTIFICATION
USDA — SOIL CONSERVATION SERVICE



Type 1 - SEASONALLY FLOODED BASINS OR FLATS

From Official Definition: The soil is covered with water, or is waterlogged, during variable seasonal periods, but usually is well drained during much of the growing season. This type is found both in upland depressions and in overflow bottom lands. In the uplands, basins or flats may be filled with water during periods of heavy rain or melting snow.

FISH & WILDLIFE SERVICE PHOTO

WETLAND TYPE IDENTIFICATION
USDA - SOIL CONSERVATION SERVICE



Type 3 - INLAND SHALLOW FRESH MARSHES

From Official Definition: The soil is usually waterlogged during the growing season; often it is covered with as much as 6" or more of water. Vegetation includes grasses, bulrushes, spikerushes and various other marsh plants such as cattails, arrowheads, pickerelweed, and smartweeds. Common representatives in the North are reed, whitetop, rice cutgrass, carex, and giant bur reed. These marshes may nearly fill shallow lake basins or sloughs, or they may border deep marshes on the landward side. May contain water up to midsummer, at which time they may dry up completely or remain waterlogged for the rest of the season. In "dry" years these areas are sometimes cropped. Cattail remains such as leaves, stems or tubers will often aid in identifying these areas.

Additional Guidelines for Minnesota: These areas may be completely vegetated with cattails or bulrushes. Sometimes this type is a narrow fringe of cattails around a small open water area.

WETLAND TYPE IDENTIFICATION
USDA - SOIL CONSERVATION SERVICE



Type 4 - INLAND DEEP FRESH MARSH

From Official Definition: The soil is covered with six inches to three feet or more of water during the growing season. Vegetation includes cattails, reeds, bulrushes, spike-rushes and wild rice. In open areas, pondweeds, naiads, coontail, water milfoils, waterweeds, duckweeds, water lilies, or spatterdocks may occur. These deep marshes may almost completely fill shallow lake basins, potholes, limestone sinks and sloughs, or they may border open water in such depressions.

Additional Guidelines for Minnesota: Scattered clumps of cattails and bulrushes are common throughout areas of this type.

FISH & WILDLIFE SERVICE PHOTO

WETLAND TYPE IDENTIFICATION
USDA — SOIL CONSERVATION SERVICE



Type 5 - INLAND OPEN FRESH MARSH

From Official Definition: Shallow ponds and reservoirs are included in this type. Water is usually less than ten feet deep and is fringed by a border of emergent vegetation. Vegetation (mainly at water depths of less than six feet) includes pondweeds, naiads, wild celery, coontail, water milfoils, muskgrasses, water lilies, and spatterdocks.

Additional Guidelines for Minnesota: In the pothole country these areas are used extensively as brood areas when in midsummer and late summer the less permanent marshes begin to dry out.

#1

8C
61.4

8B
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8A
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I-453

I-151

25.3

I-179

2.5 photo
10-7
5/25

2
37.9

26

I-443

I-179

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I-170

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1B
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I-443

I-267
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I-58

74.4

6B
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I-267

6A
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I-267

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6B
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I-443

6A
70.7

2C
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I-267
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2B
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I-179

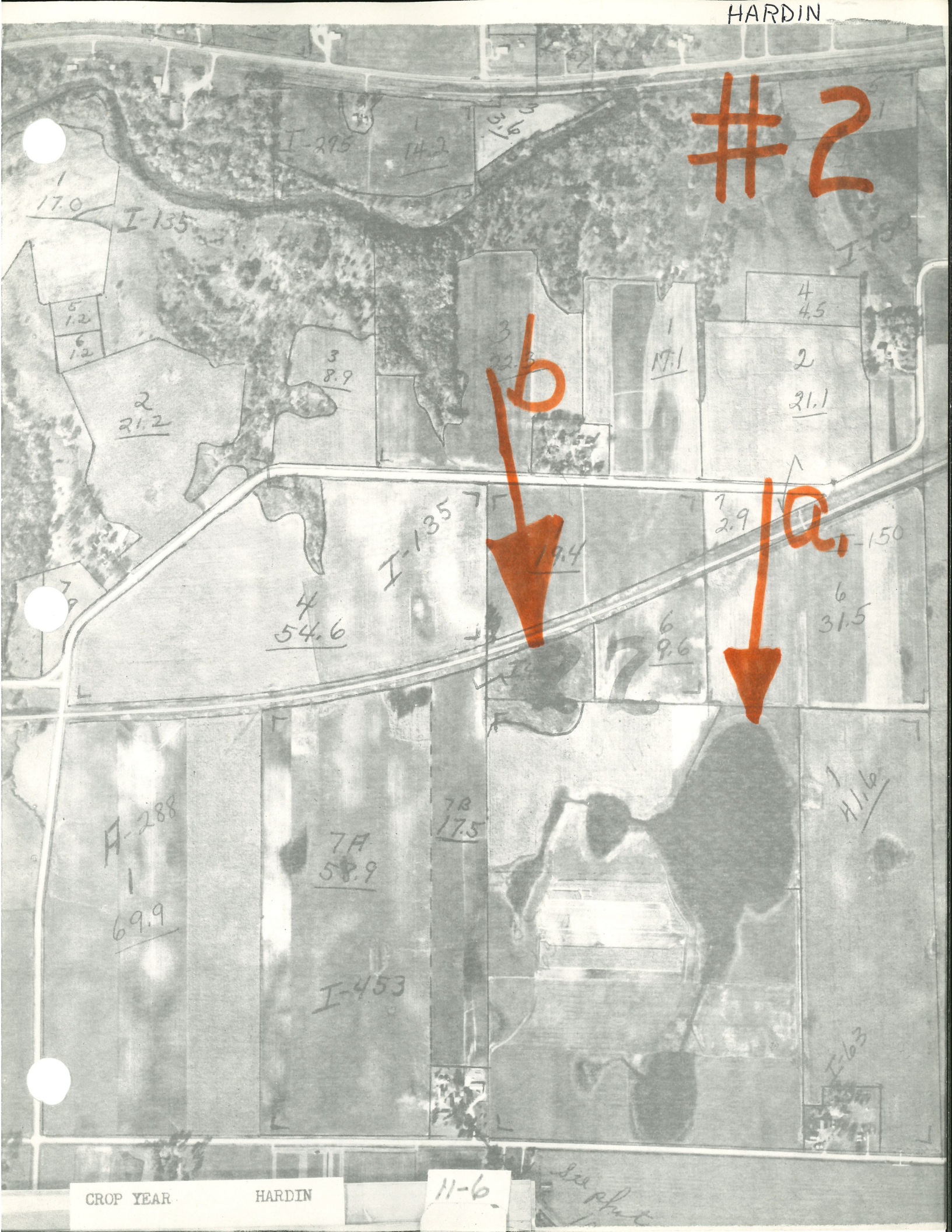
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10-6

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10-2

HARDIN

CROP YEAR



See plot

A-23

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3B

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3A

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F-29

2B

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F-117

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2A

42.5

3C

39.8

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F-109

F-71

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F-195

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9-4

See photo
12-1

#4

A-167

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19.6

18.7

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25.1

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22.3

A-303

63

17.8
A-343

A 26

2
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A-273

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75.7

5
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39.9

A-8

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75.4

6
41.5

2
73.8

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11-1

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3A
8.4

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22.8

2A
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B-6

B-13

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7

3A
20.0

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19.7

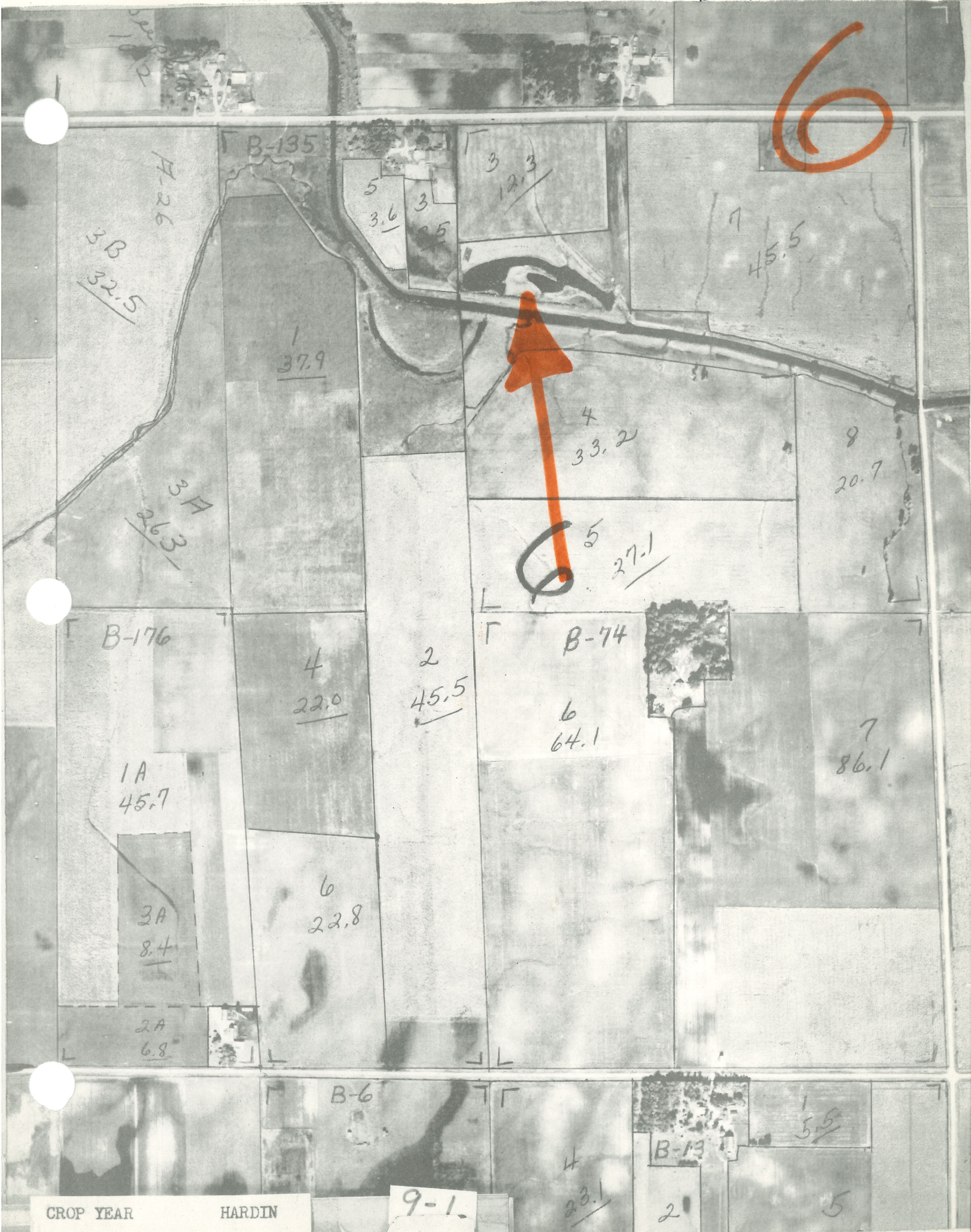
B-48

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150.9

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18.5

B-244



A-250
see p. 3



8

B-80

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153.5

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145.0

B-161

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78.0

15 B-174

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54.8

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6.0

B-60

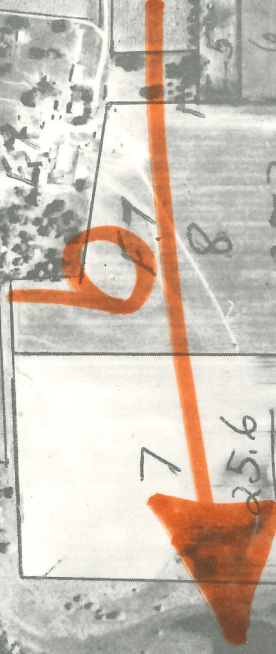
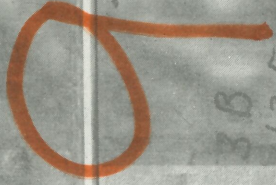
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B-61

B-62

see photo
8-4







12
see photo
9-6 8/11

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F-164

F-164

4
146.7

2
107.8

14



F-24

F-127

F247

1C
20.0

1B
54.4

8-7
H-7

2
30.8

F-190

2
6.6

F-68

4
38.7

90.0

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28.9

1
65.3

3
40.8

15

F-74

2
39.6

1
38.6

3
24.4

2
40.0

6
4.3

4
51.9

F-128

5
44.8

4
38.0

3
2.6

F-24

F-247

1
71.1

13

1C
32.2

7

J-248

1B

84.3

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24.4

10

48.8

7
22.2

J-121

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5.5

8
6.3

3
1.5

2
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J-107

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J-41

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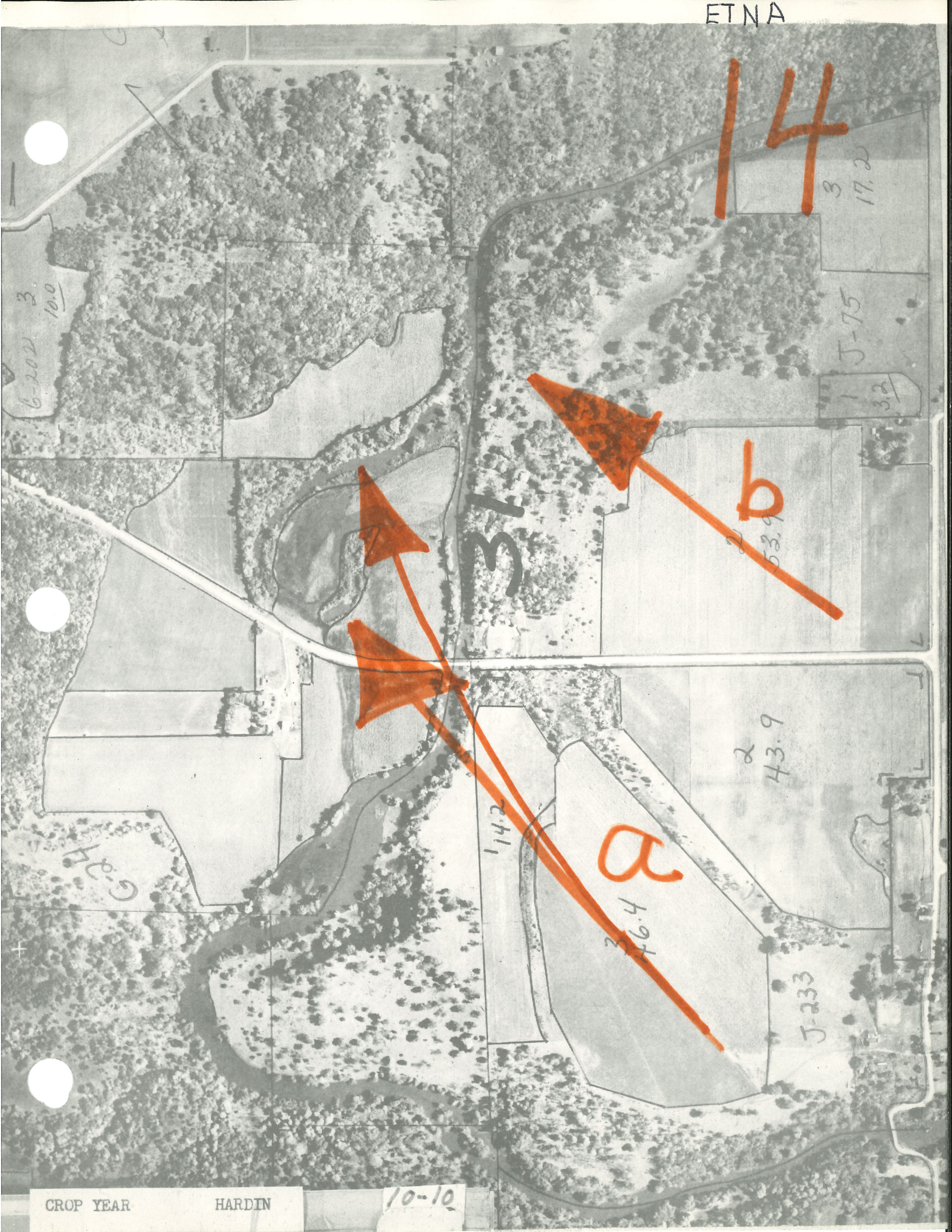
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ETNA



CROP YEAR

HARDIN

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24.2 / 437

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151

4 30.0

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I-249

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I-429

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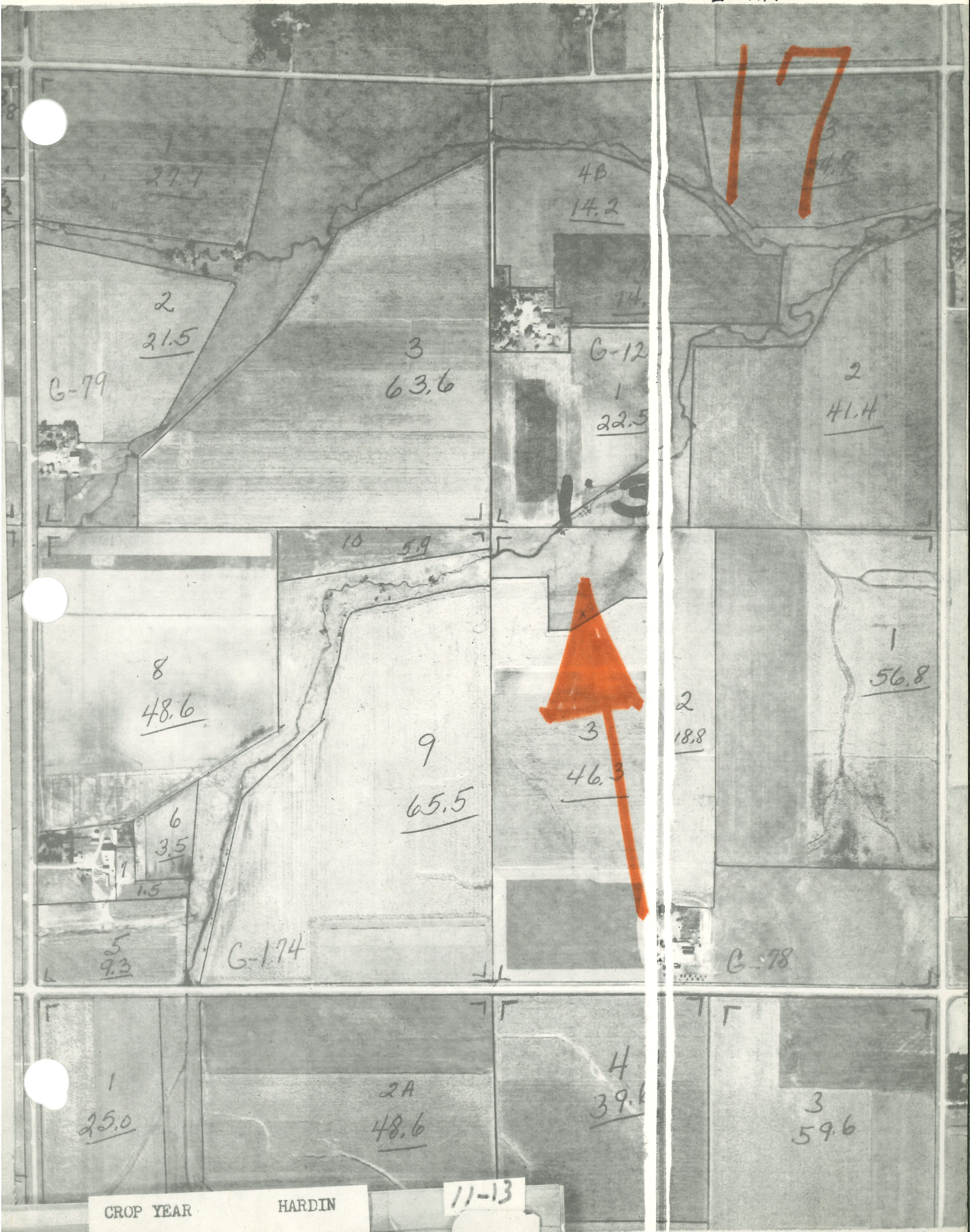
10-9

HARDIN

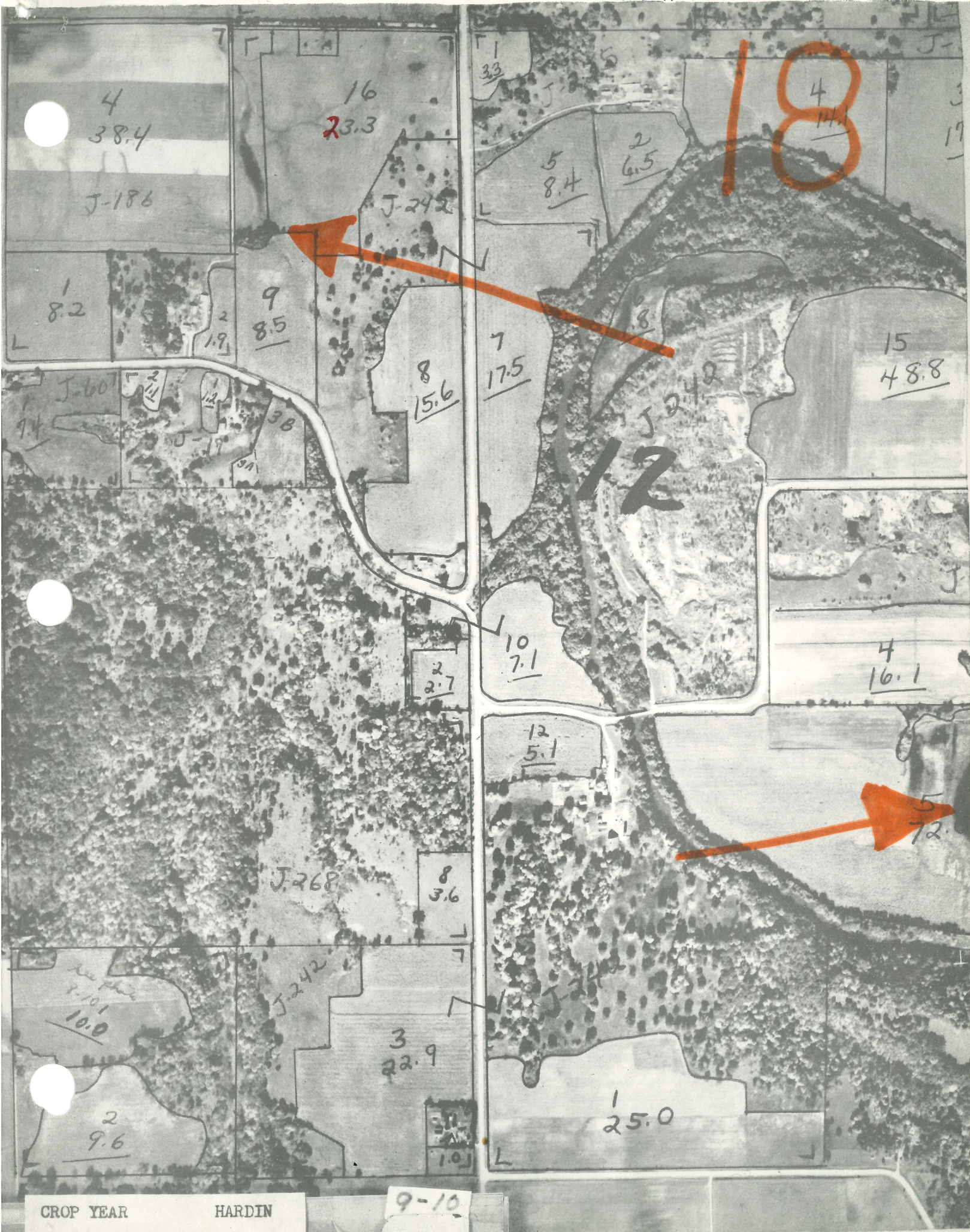
CROP YEAR







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HARDIN

9-10



9-10

CLAY

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6

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12.1

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C-141

C-194
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C-141

1A
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C-118

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C-141

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J-35

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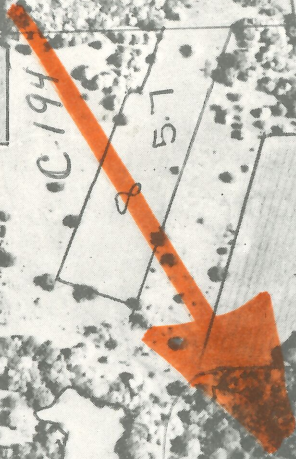
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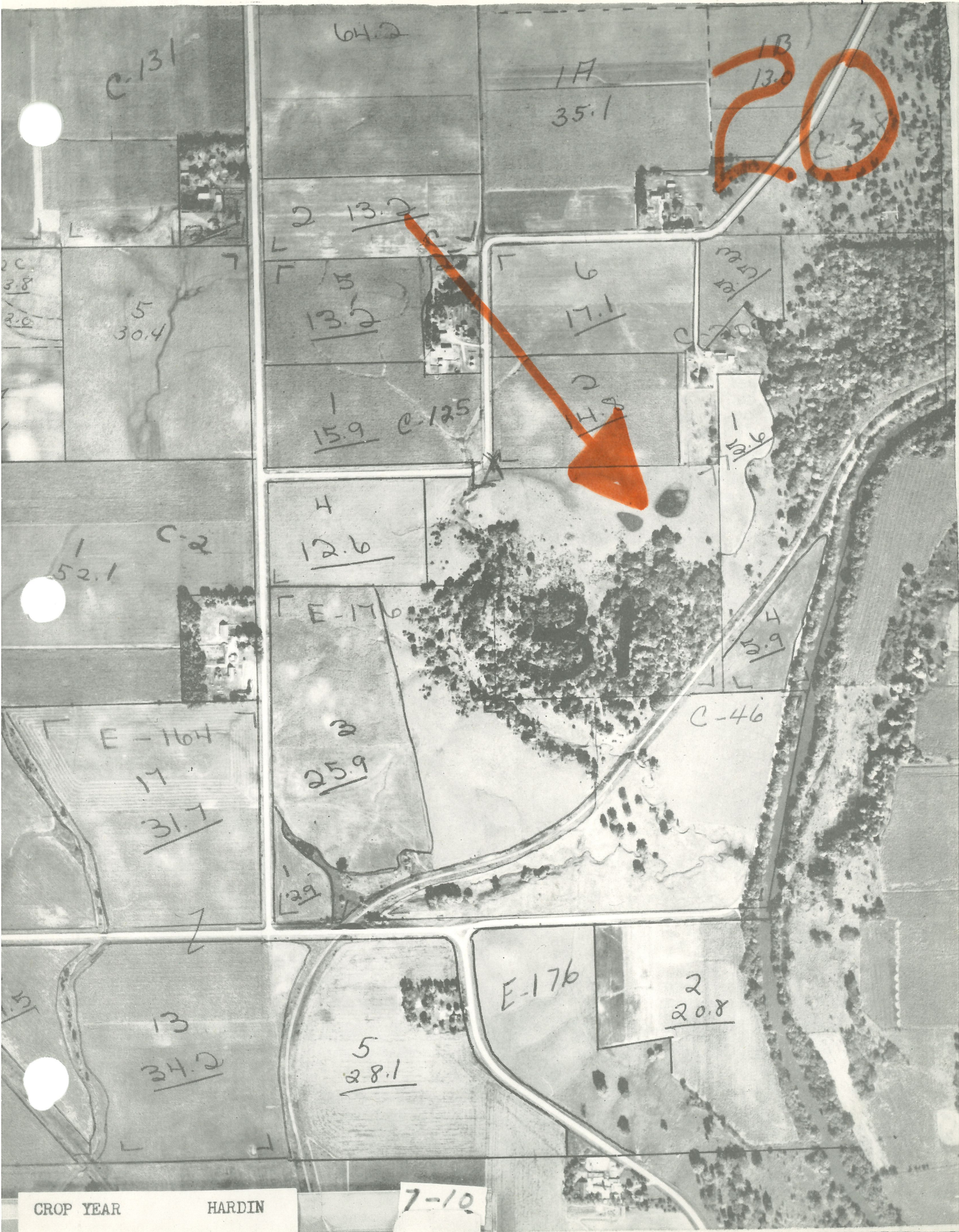
CROP YEAR

HARDIN

9-10



CLAY



CROP YEAR

HARDIN

7-10





ELDORA

23



HARDIN

CROP YEAR

4-10
D-11

ELDORA

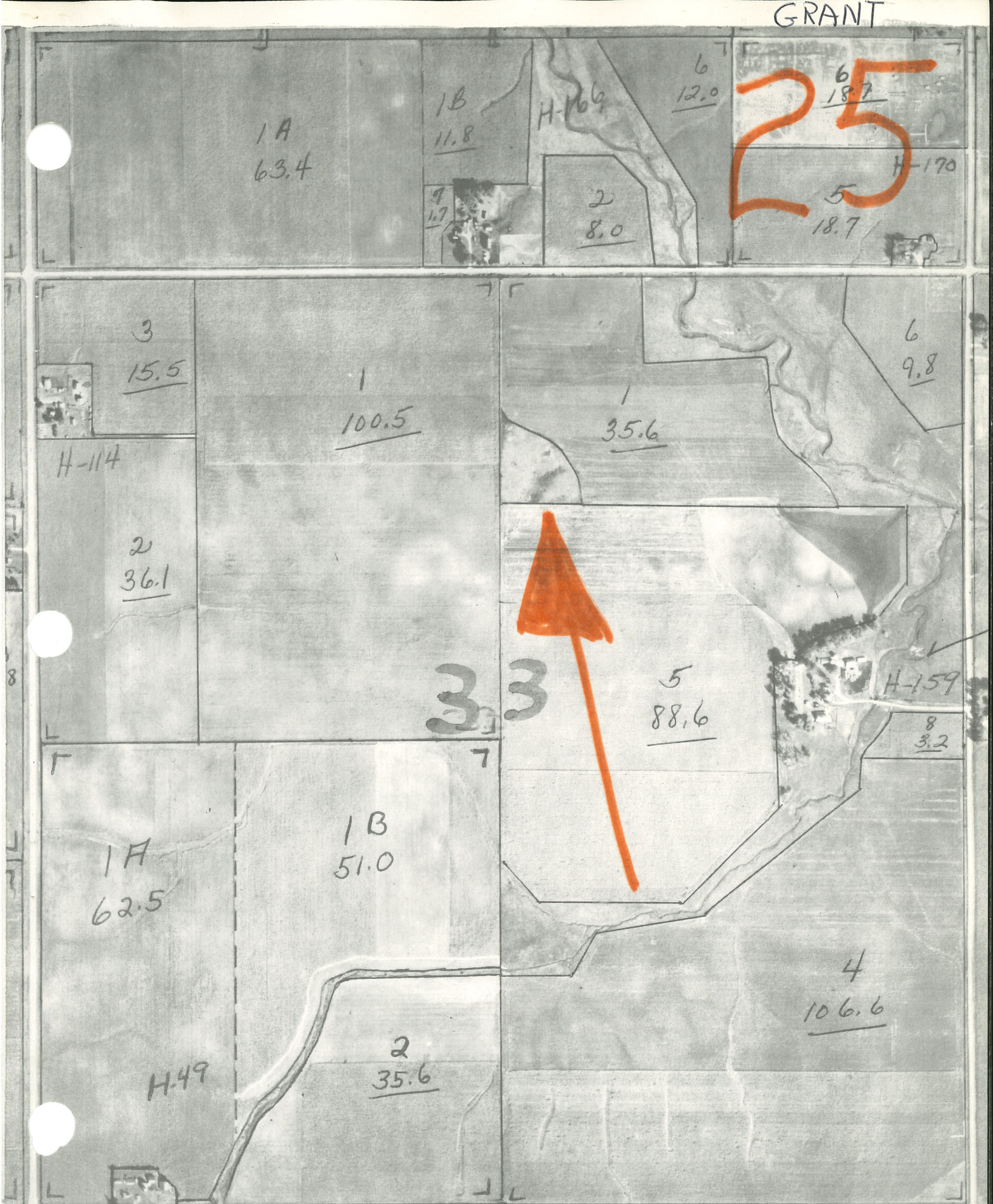


CROP YEAR

HARDIN

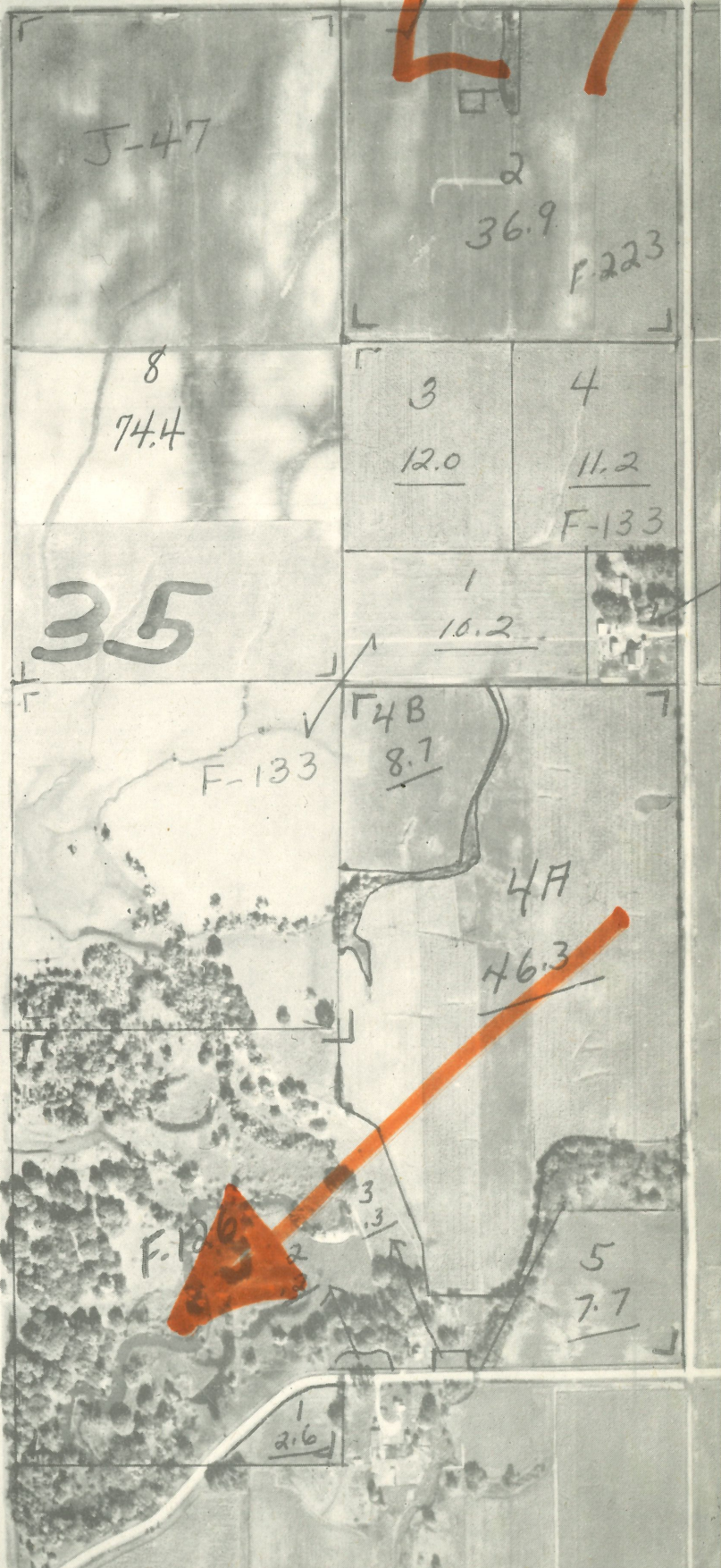
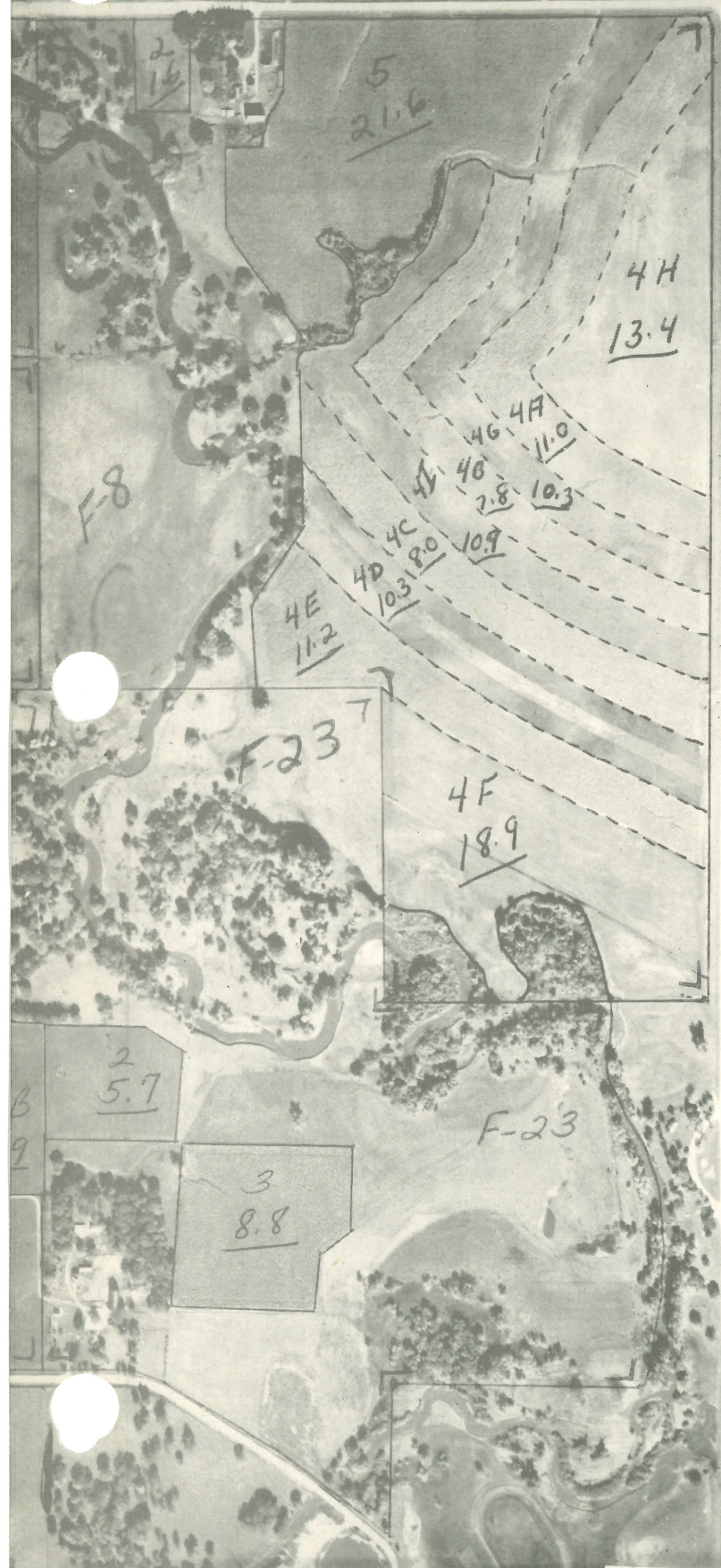
4-11







27



28

K-119 5-8
see photo



9
19.2

K-119

6
23.2

K-9

K-118

K-132

8
9.4

3
13.3

7
9.4

10
5.1

2D

28
13.0

4

14.4

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18.4

K-118

3.9

K-39

2B

32.1

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K-78

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2A

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8A
25.3

8B

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K-132
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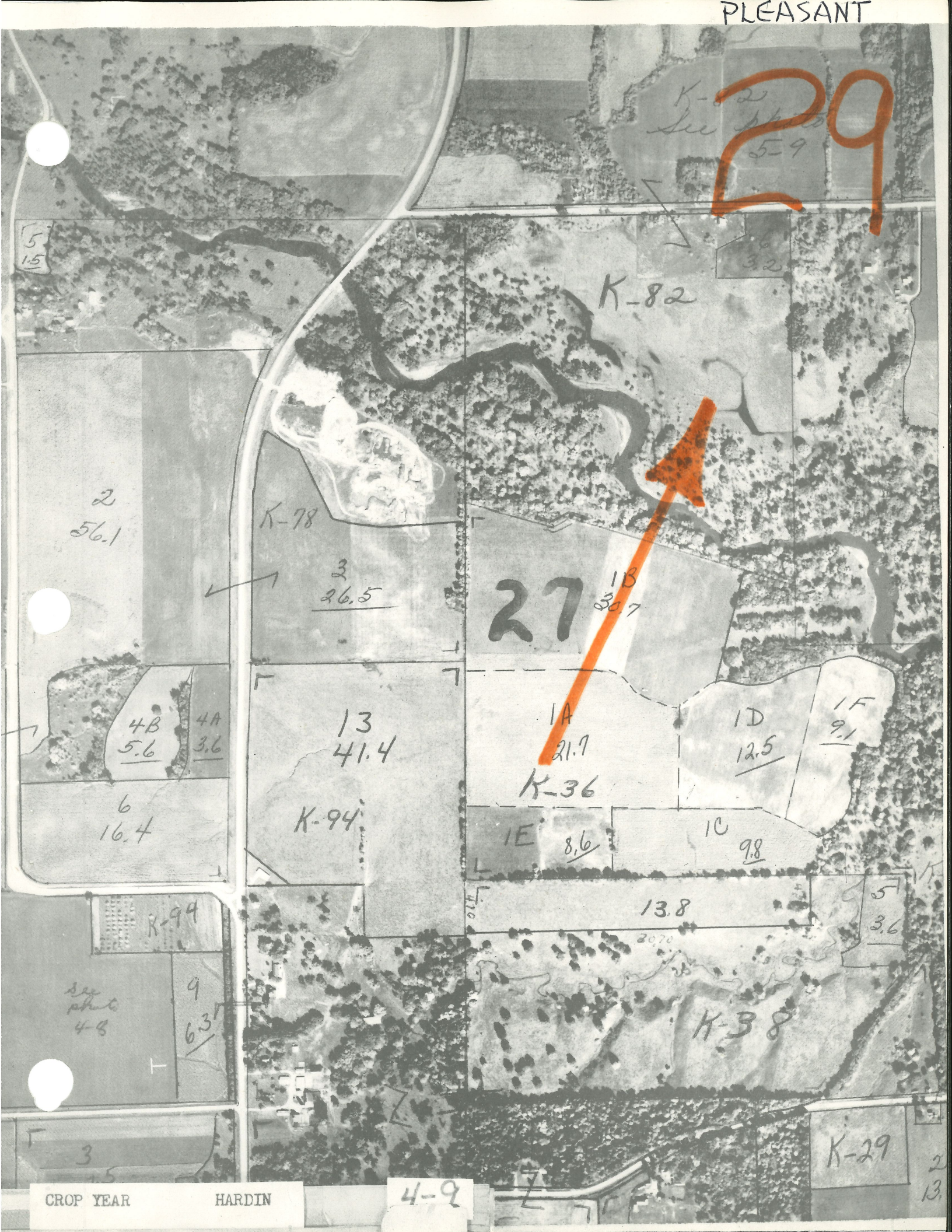
CROP YEAR

HARDIN

4-8

K-94

3



29

27

1B
30.7

1A
21.7

K-36

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1E
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1C
9.8

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3.6

K-38

K-29

4-9

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