

ILLINOIS FOREST INVENTORY DATA PROCESSING SYSTEM

INPUT CHECK

OUTPUT FILE FAIRLES2.OUT
 TABLE HEADINGS Fairless, Paul - Stand 2
 DATE 4-17-2019
 NAME Pirtle
 SAMPLING METHOD POINT SAMPLING
 PRISM FACTOR 10.00
 STAND SIZE 267.80 ACRES
 MEASURING UNIT ENGLISH
 VOLUME UNIT DOYLE BDFT
 STAT. SUMMARY YES

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Fairless, Paul - Stand 2

4-17-2019

CLASS 1 - GOOD GROWING STOCK
 DOYLE BDFT BY SPECIES AND DIAMETER CLASS
 PER ACRE

SPECIES LISTING	TWO INCH DIAMETER CLASSES				
	12	14	16	18	20
PIGNUT HICKORY	.00	100.29	117.61	253.44	435.45
SHAGBARK HICKORY	100.22	.00	235.22	.00	.00
WHITE ASH	.00	83.79	117.61	.00	.00
TULIP TREE	.00	.00	117.61	126.72	.00
WHITE OAK	.00	.00	235.22	380.15	.00
YELLOW CHESTNUT OAK	.00	.00	.00	205.82	.00
NORTHERN RED OAK	.00	.00	117.61	126.72	346.49
POST OAK	.00	.00	.00	205.82	.00
BLACK OAK	.00	83.79	117.61	126.72	.00
TOTALS	100.22	267.87	1058.49	1425.38	781.94

Fairless, Paul - Stand 2

DOYLE BDFT BY SPECIES AND DIAMETER CLASS(CON'T.)
PER ACRE

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- - - - - T W O I N C H D I A M E T E R C L A S S E S - - - - -
SPECIES LISTING 22 26 28 VOLUME

PIGNET HICKORY	.00	.00	165.04	1071.83
SHAGBARK HICKORY	.00	.00	.00	335.44
WHITE ASH	.00	.00	.00	201.40
TULIP TREE	.00	.00	165.04	409.37
WHITE OAK	118.24	160.49	.00	894.10
YELLOW CHESTNUT OAK	.00	.00	.00	205.82
NORTHERN RED OAK	146.01	190.67	.00	927.50
POST OAK	.00	.00	.00	205.82
BLACK OAK	.00	.00	.00	328.12
T O T A L S	264.25	351.16	330.08	4579.39

Fairless, Paul - Stand 2

4-17-2019

CLASS 2 - MEDIUM GROWING STOCK
DOYLE BDFT BY SPECIES AND DIAMETER CLASS
PER ACRE

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- - - - - T W O I N C H D I A M E T E R C L A S S E S - - - - -
SPECIES LISTING 12 14 16 18 VOLUME

SUGAR MAPLE	47.47	.00	.00	.00	47.47
PIGNET HICKORY	.00	.00	90.24	.00	90.24
SHAGBARK HICKORY	62.21	.00	180.48	.00	242.69
YELLOW CHESTNUT OAK	.00	138.31	.00	217.54	355.85
NORTHERN RED OAK	.00	95.01	90.24	262.65	447.91

T O T A L S 109.68 233.33 360.96 480.19 1184.16

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Fairless, Paul - Stand 2

4-17-2019

CLASS 3 - POOR GROWING STOCK
DOYLE BDFT BY SPECIES AND DIAMETER CLASS
PER ACRE

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S P E C I E S L I S T I N G	T W O I N C H D I A M E T E R C L A S S E S				V O L U M E
	12	18	20	22	
SUGAR MAPLE	39.56	.00	.00	.00	39.56
PIGNUT HICKORY	.00	.00	.00	.00	.00
SHAGBARK HICKORY	.00	.00	.00	.00	.00
TULIP TREE	.00	100.04	108.04	.00	208.08
WHITE OAK	39.56	.00	.00	.00	39.56
YELLOW CHESTNUT OAK	.00	.00	86.93	.00	86.93
NORTHERN RED OAK	.00	.00	.00	115.27	115.27
BLACK OAK	.00	.00	.00	136.37	136.37
T O T A L S	79.12	100.04	194.97	251.64	625.77

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Fairless, Paul - Stand 2

4-17-2019

TOTAL STAND SUMMARY
CLASSES 1-3

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S P E C I E S L I S T I N G	AVERAGE DIAMETER	NUMBER OF TREES	RATIO OF NO. TREES TO TOTAL NUMBER TREES
SUGAR MAPLE	4.84	200.88	.61
PIGNUT HICKORY	9.54	40.27	.12
SHAGBARK HICKORY	10.80	24.68	.07
WHITE ASH	7.87	16.91	.05
RED CEDAR	8.00	4.09	.01

TULIP TREE	19.00	3.63	.01
WHITE OAK	12.37	17.11	.05
YELLOW CHESTNUT OAK	16.72	6.56	.02
NORTHERN RED OAK	18.32	8.59	.03
POST OAK	18.00	1.62	.00
BLACK OAK	14.39	6.33	.02
TOTAL	7.43	330.68	

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TOTAL STAND SUMMARY (CON'T.)
CLASSES 1-3
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SPECIES LISTING	BASAL AREA PER ACRE	VOLUME PER ACRE
SUGAR MAPLE	25.71	87.04
PIGNUT HICKORY	20.00	1162.07
SHAGBARK HICKORY	15.71	578.13
WHITE ASH	5.71	201.40
RED CEDAR	1.43	.00
TULIP TREE	7.14	617.45
WHITE OAK	14.29	933.67
YELLOW CHESTNUT OAK	10.00	648.60
NORTHERN RED OAK	15.71	1490.67
POST OAK	2.86	205.82
BLACK OAK	7.14	464.49
TOTAL	125.71	6389.33

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Fairless, Paul - Stand 2

4-17-2019

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CLASS 1 - GOOD GROWING STOCK
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SPECIES LISTING	BASAL AREA	NUMBER OF TREES	AVERAGE DIAMETER
PIGNUT HICKORY	14.29	25.26	10.18
SHAGBARK HICKORY	10.00	18.20	10.04

WHITE ASH	4.29	9.64	9.03
TULIP TREE	4.29	2.17	19.05
WHITE OAK	12.86	15.30	12.41
YELLOW CHESTNUT OAK	2.86	1.62	18.00
NORTHERN RED OAK	8.57	4.07	19.65
POST OAK	2.86	1.62	18.00
BLACK OAK	5.71	5.79	13.45
T O T A L S	65.71	83.65	12.00

Fairless, Paul - Stand 2

4-17-2019

CLASS 1 - GOOD GROWING STOCK
 BASAL AREA BY SPECIES AND DIAMETER CLASS
 PER ACRE

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- - - - - T W O I N C H D I A M E T E R C L A S S E S - - - - -					
SPECIES LISTING	4	6	10	12	14

PIGNUT HICKORY	1.43	.00	1.43	.00	1.43
SHAGBARK HICKORY	.00	1.43	2.86	2.86	.00
WHITE ASH	.00	1.43	.00	.00	1.43
TULIP TREE	.00	.00	.00	.00	.00
WHITE OAK	.00	1.43	1.43	.00	.00
YELLOW CHESTNUT OAK	.00	.00	.00	.00	.00
NORTHERN RED OAK	.00	.00	.00	.00	.00
POST OAK	.00	.00	.00	.00	.00
BLACK OAK	.00	.00	1.43	.00	1.43
T O T A L S	1.43	4.29	7.14	2.86	4.29
NUMBER TREES BY DBH CLASS	16.37	21.83	13.10	3.64	4.01

Fairless, Paul - Stand 2

BASAL AREA BY SPECIES AND DIAMETER CLASS (CON'T.)
 PER ACRE

Fairless, Paul - Stand 2

4-17-2019

CLASS 2 - MEDIUM GROWING STOCK

SPECIES LISTING	BASAL AREA	NUMBER OF TREES	AVERAGE DIAMETER
SUGAR MAPLE	1.43	1.82	12.00
PIGNUT HICKORY	1.43	1.02	16.00
SHAGBARK HICKORY	4.29	3.87	14.26
YELLOW CHESTNUT OAK	5.71	4.29	15.63
NORTHERN RED OAK	5.71	3.98	16.23
T O T A L S	18.57	14.97	15.08

Fairless, Paul - Stand 2

4-17-2019

CLASS 2 - MEDIUM GROWING STOCK
 BASAL AREA BY SPECIES AND DIAMETER CLASS
 PER ACRE

SPECIES LISTING	T W O I N C H D I A M E T E R C L A S S E S			
	12	14	16	18
SUGAR MAPLE	1.43	.00	.00	.00
PIGNUT HICKORY	.00	.00	1.43	.00
SHAGBARK HICKORY	1.43	.00	2.86	.00
YELLOW CHESTNUT OAK	.00	2.86	.00	2.86
NORTHERN RED OAK	.00	1.43	1.43	2.86
T O T A L S	2.86	4.29	5.71	5.71
NUMBER TREES BY DBH CLASS	3.64	4.01	4.09	3.23

Fairless, Paul - Stand 2

4-17-2019

CLASS 3 - POOR GROWING STOCK

SPECIES LISTING	BASAL AREA	NUMBER OF TREES	AVERAGE DIAMETER
SUGAR MAPLE	24.29	199.06	4.73
PIGNUT HICKORY	4.29	13.99	7.50
SHAGBARK HICKORY	1.43	2.62	10.00
WHITE ASH	1.43	7.28	6.00
RED CEDAR	1.43	4.09	8.00
TULIP TREE	2.86	1.46	18.92
WHITE OAK	1.43	1.82	12.00
YELLOW CHESTNUT OAK	1.43	.65	20.00
NORTHERN RED OAK	1.43	.54	22.00
BLACK OAK	1.43	.54	22.00
T O T A L S	41.43	232.06	5.72

Fairless, Paul - Stand 2

4-17-2019

CLASS 3 - POOR GROWING STOCK
 BASAL AREA BY SPECIES AND DIAMETER CLASS
 PER ACRE

SPECIES LISTING	T W O I N C H D I A M E T E R C L A S S E S				
	2	4	6	8	10
SUGAR MAPLE	1.43	4.29	15.71	.00	1.43
PIGNUT HICKORY	.00	.00	1.43	1.43	1.43
SHAGBARK HICKORY	.00	.00	.00	.00	1.43
WHITE ASH	.00	.00	1.43	.00	.00
RED CEDAR	.00	.00	.00	1.43	.00
TULIP TREE	.00	.00	.00	.00	.00
WHITE OAK	.00	.00	.00	.00	.00
YELLOW CHESTNUT OAK	.00	.00	.00	.00	.00
NORTHERN RED OAK	.00	.00	.00	.00	.00
BLACK OAK	.00	.00	.00	.00	.00

T O T A L S	1.43	4.29	18.57	2.86	4.29
NUMBER TREES BY DBH CLASS	65.48	49.11	94.58	8.19	7.86

Fairless, Paul - Stand 2

BASAL AREA BY SPECIES AND DIAMETER CLASS (CON'T.)
PER ACRE

 - - - - - T W O I N C H D I A M E T E R C L A S S E S - - - - -
 SPECIES LISTING 12 18 20 22

SUGAR MAPLE	1.43	.00	.00	.00
PIGNUT HICKORY	.00	.00	.00	.00
SHAGBARK HICKORY	.00	.00	.00	.00
WHITE ASH	.00	.00	.00	.00
RED CEDAR	.00	.00	.00	.00
TULIP TREE	.00	1.43	1.43	.00
WHITE OAK	1.43	.00	.00	.00
YELLOW CHESTNUT OAK	.00	.00	1.43	.00
NORTHERN RED OAK	.00	.00	.00	1.43
BLACK OAK	.00	.00	.00	1.43
T O T A L S	2.86	1.43	2.86	2.86
NUMBER TREES BY DBH CLASS	3.64	.81	1.31	1.08

Fairless, Paul - Stand 2

4-17-2019

CLASS 4 - LIVE CULL

SPECIES	BASAL AREA	NUMBER TREES
PIGNUT HICKORY	1.43	2.62
WHITE OAK	1.43	1.02

NORTHERN RED OAK	1.43	.39
TOTAL	4.29	4.03

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Fairless, Paul - Stand 2 4-17-2019

WILDLIFE HABITAT SURVEY

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AVERAGE
 SPECIES LISTING BASAL AREA NO. TREES DIAMETER

CLASS 4 - LIVE CULL

PIGNUT HICKORY	1.43	2.62	10.00
WHITE OAK	1.43	1.02	16.00
NORTHERN RED OAK	1.43	.39	26.00
TOTAL	4.29	4.03	

CLASS 7 - DEAD STANDING TREE

NORTHERN RED OAK	1.43	.81	18.00
TOTAL	1.43	.81	

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Fairless, Paul - Stand 2 4-17-2019

AVERAGE ACORN AND NUT YIELD BY SPECIES

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SPECIES LISTING POUNDS PER ACRE TOTAL POUNDS

WHITE OAK	50.57	13543.03
YELLOW CHESTNUT OAK	27.00	7230.60
NORTHERN RED OAK	100.57	26933.03
POST OAK	5.14	1377.26
BLACK OAK	13.71	3672.69

TOTAL ACORNS 197.00 52756.60

 SHAGBARK HICKORY 20.43 5470.77

TOTAL NUTS 20.43 5470.77

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STATISTICAL SUMMARY FOR:
 Fairless, Paul - Stand 2

4-17-2019

SAMPLE SIZE = 7

VARIABLE	PER ACRE MEAN	- STD. ERROR OF MEAN - ABS. VALUE	PERCENT	95 % CONFIDENCE INTERVAL	
DOYLE BDFT	6389.3	897.02	14.04	4194.32	8584.33
SQ.FT. BASAL AREA	125.7	8.12	6.46	105.84	145.59
NUMBER OF TREES	330.7	81.73	24.72	130.69	530.67

-----INSUFFICIENT INCREMENT MEASUREMENTS FOR GROWTH PROJECTION-----

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STAND COMMENTS

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