File II

FDR's Forestry Management Plans

Historical Maps

Documents
&
Photographs

TIMBER

THE CROP FOR IDLE ACRES

Interior Norway Spruce plantation twenty-four years old, Millbrook Dutchess County

Foreground, five-year-old White Pines. Background, fifteen-year-ol Norway Spruce, White Pine and Scotch Pine

WHAT TO PLANT

Pines for lumber **Spruce for pulp** **Larch for posts, poles and ties**

Cedar for posts and poles **Locust for posts only**

a. Classification for Conifers:

Pines—for well-drained sandy soils—White pine, wide range sand to loam.
Red pine, medium sand.
Scotch pine, sandiest soils (blow sand.)

Spruce—for well-drained, heavy soils (clay, loams); Norway spruce, heaviest soils; white spruce, wide range from gravels to clays.

Larch—wide range, well-drained soils from sands to clays.

White cedar—best on well-drained limestone soils, but can grow on poorly drained sites.

b. Locust should be planted on non-acid, well-drained soils where land is previously fitted, and cultivation for the first year after planting carried out.

USE OTHER SIDE OF BLANK FOR ORDERING TREES

Figure 4.2: Advertisement from the New York State Conservation Commission advocating reforestation to farmers, c.1935. Nelson Brown Papers, Franklin D. Roosevelt Library.

Forestry Practice

on the

ROOSEVELT FARM

At Hyde Park, Dutchess County,
New York

Virgin Hemlock in a Forest of Hemlock and Hardwood

Published by

THE NEW YORK STATE COLLEGE OF FORESTRY
AT SYRACUSE UNIVERSITY

SYRACUSE, N. Y.

Virgin Hemlock in a forest of Hemlock and Hardwoods
Published by NYS College of Forestry At Syracuse University, Syracuse, NY

Objectives of FDR's Forestry Management

1. To increase the proportion of valuable specified in the forest.

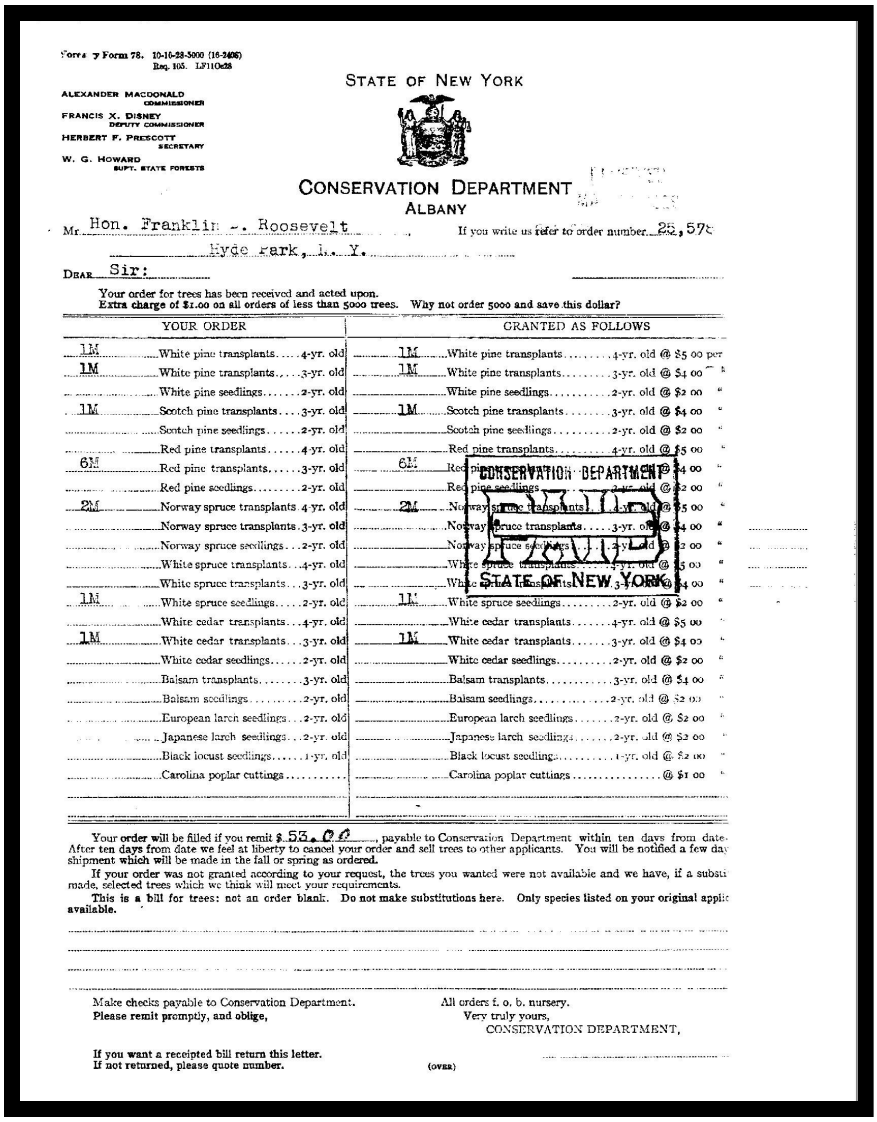
2. To eliminate certain undesirable types and replace planting.

3. To beautify the area between Hudson River and Albany Post Rd.

Furthermore:

There are no proven methods of cutting in any of the forest type found on the forest. The success of any method does not preclude the possibility of its being improved upon. Accordingly, the treatment outlined in this plan , rathe5 than being set of marking rules, consists largely of suggestions and recommendations which it hoped, will prove of value.

Seedling Tree order from NYS Conservation Department



Form 7 Form 78. 10-16-28-5000 (16-2406)
Req. 105. L3710c28

ALEXANDER MACDONALD
COMMISSIONER
FRANCIS X. DISNEY
DEPUTY COMMISSIONER
HERBERT F. PRESCOTT
SECRETARY
W. G. HOWARD
SUPT. STATE FORESTS

STATE OF NEW YORK

CONSERVATION DEPARTMENT
ALBANY

Mr. Hon. Franklin D. Roosevelt
Hyde Park, N. Y.

If you write us refer to order number 25,578

Dear Sir:

Your order for trees has been received and acted upon.
Extra charge of $1.00 on all orders of less than 5000 trees. Why not order 5000 and save this dollar?

YOUR ORDER		GRANTED AS FOLLOWS	
1M	White pine transplants....4-yr. old	1M	White pine transplants.....4-yr. old @ $5 00 per
1M	White pine transplants....3-yr. old	1M	White pine transplants.....3-yr. old @ $4 00 "
	White pine seedlings.....2-yr. old		White pine seedlings.....2-yr. old @ $2 00 "
1M	Scotch pine transplants....3-yr. old	1M	Scotch pine transplants.....3-yr. old @ $4 00 "
	Scotch pine seedlings.....2-yr. old		Scotch pine seedlings.....2-yr. old @ $2 00 "
	Red pine transplants.....4-yr. old		Red pine transplants.....4-yr. old @ $5 00 "
6M	Red pine transplants.....3-yr. old	6M	Red pine transplants.....3-yr. old @ $4 00 "
	Red pine seedlings.....2-yr. old		Red pine seedlings.....2-yr. old @ $2 00 "
2M	Norway spruce transplants 4-yr. old	2M	Norway spruce transplants.....4-yr. old @ $5 00 "
	Norway spruce transplants.3-yr. old		Norway spruce transplants.....3-yr. old @ $4 00 "
	Norway spruce seedlings...2-yr. old		Norway spruce seedlings.....2-yr. old @ $2 00 "
	White spruce transplants...4-yr. old		White spruce transplants.....4-yr. old @ $5 00 "
	White spruce transplants...3-yr. old		White spruce transplants.....3-yr. old @ $4 00 "
1M	White spruce seedlings.....2-yr. old	1M	White spruce seedlings.....2-yr. old @ $2 00 "
	White cedar transplants...4-yr. old		White cedar transplants.....4-yr. old @ $5 00 "
1M	White cedar transplants...3-yr. old	1M	White cedar transplants.....3-yr. old @ $4 00 "
	White cedar seedlings.....2-yr. old		White cedar seedlings.....2-yr. old @ $2 00 "
	Balsam transplants.....3-yr. old		Balsam transplants.....3-yr. old @ $4 00 "
	Balsam seedlings.....2-yr. old		Balsam seedlings.....2-yr. old @ $2 00 "
	European larch seedlings...2-yr. old		European larch seedlings.....2-yr. old @ $2 00 "
	Japanese larch seedlings...2-yr. old		Japanese larch seedlings.....2-yr. old @ $2 00 "
	Black locust seedlings.....1-yr. old		Black locust seedlings.....1-yr. old @ $2 00 "
	Carolina poplar cuttings.....		Carolina poplar cuttings.....@ $1 00 "

Your order will be filled if you remit $ 53.00, payable to Conservation Department within ten days from date. After ten days from date we feel at liberty to cancel your order and sell trees to other applicants. You will be notified a few days shipment which will be made in the fall or spring as ordered.

If your order was not granted according to your request, the trees you wanted were not available and we have, if a substi made, selected trees which we think will meet your requirements.

This is a bill for trees: not an order blank. Do not make substitutions here. Only species listed on your original applic available.

Make checks payable to Conservation Department.
Please remit promptly, and oblige,

All orders f. o. b. nursery.
Very truly yours,
CONSERVATION DEPARTMENT,

If you want a receipted bill return this letter.
If not returned, please quote number.

(OVER)

CONSERVATION DEPARTMENT
FWD
STATE OF NEW YORK

Figure 4.19: New York State Conservation Department spring 1935 tree order form completed by Nelson Brown, 1934. Nelson Brown Papers, Franklin D. Roosevelt Library.

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SPRING 1935 Bill No.....

Forestry Form 28 Tree Order No.....

CONSERVATION DEPARTMENT,
Albany, N. Y.

1935

Please file order promptly.
Bills will not be sent until a few weeks before shipment.

Gentlemen:

You may consider this an order for the trees specified below. If this order is granted, I agree to fully comply with all the conditions herein which I have carefully read.

1. To pay the purchase price to said Conservation Department within ten days after receipt of bill.
2. That the trees are to be planted for the sole purpose of reforesting lands in the State of New York. That the trees will be planted only on land which is assessed at less than $50 per acre, when privately owned. That these trees will be planted and are not obtained for the purpose of sale, and will not be sold or given away with the roots thereon.
3. That if I sell or offer the trees for sale for ornamental purposes I shall become liable to the State for the payment of a penalty equal to three times the sale value of the trees sold.
4. I agree to return the empty crates to the express office promptly or pay for them.
5. I agree to protect the planted area as well as possible from fire, grazing, and other damage.
6. In case of white pine, I agree to remove all currant and gooseberry bushes, both wild and cultivated from the area to be planted to and from a space approximately 900 feet surrounding the plantation, not later than June 1st following the planting.
7. That the applicant is the owner or the agent of the owner of the land to be planted.
8. I agree to make reasonable reports in regard to the condition of the plantation upon request.

I understand that this is an agreement for the purpose of reforesting land and I agree to all the above conditions. I also understand that if any of the terms of this agreement are violated the Conservation Department will not fill any future tree order of mine.

Pres. Franklin D. Roosevelt
by Nelson C. Brown for the Director of Forestry.
Applicant

Order Here

HYDE PARK on Hudson
Street Address or R. F. D.

Shipment Desired

Please ship to arrive April 8 at Hyde Park on Hudson

HYDE PARK on Hudson.
Post Office Address

NO TREES FURNISHED FOR ORNAMENTAL PLANTING
Not less than 1,000 trees sold. Not less than 500 trees of any one species sold.

FOLLOWING TREES DESIRED

Number of trees desired	KIND OF TREES	Age	Price per thousand	Do not use this space	Cost	Nursery	S. L. No.
11,000	White pine transplants	3-yr.	4.00				
	White pine seedlings	2-yr.	2.00				
6,000	Red pine transplants	4-yr.	4.00				
	Red pine seedlings	2-yr.	2.00				
11,000	Norway spruce transplants	4-yr.	5.00				
	Norway spruce transplants	3-yr.	4.00				
	Norway spruce seedlings	2-yr.	2.00				
	White spruce transplants	4-yr.	5.00				
	Black locust seedlings	1-yr.	2.00				

To be planted in

Town of Hyde Park
County of Dutchess
Owner of land Pres. F. D. Roosevelt

DESCRIPTION OF LAND TO BE PLANTED

Kind of soil Various
Present growth None
Previous use of land Farm

SHIPPING DIRECTIONS

Name Wm Plog
Express address Hyde PARK, N.Y.
County Dutchess Co.
Notify (Name) Wm Plog.
P. O. Hyde PARK, on Hudson

(No trees shipped by parcel post)

No order granted unless all information asked for is given

Order granted..... Order sent.....
Bill sent..... Shipment made.....

Reg. 340 LF1SJa35

Figure 3.30: Record of tree distribution from New York State nurseries to the Roosevelt Estate (FDR), 1912-1928. New York State Conservation Commission records, Nelson Brown Papers, Franklin D. Roosevelt Library.

Year	*Spring or Fall Planting*	*White Pine*		*Scotch Pine*		*Red Pine*		*Norway Spruce*		*White Spruce*	
		Number	*Age*	*Number*	*Age*	*Number*	*Age*	*Number*	*Age*	*Number*	*Age*
1912	spring	5,000	4 yr	1,000	3 yr	1,000	3 yr	1,000	3 yr	-----	
1913	spring	7,000	4 yr	-----		-----		1,000	3 yr	-----	
1914	spring	7,000	4 yr	-----		-----		-----		-----	
1915	spring	10,000	4 yr	-----		-----		-----		-----	
1916	spring	8,000	4 yr	-----		-----		-----		-----	
1924	spring	2,000	3 yr	1,000	3 yr	2,000	3 yr	-----		-----	
1926	spring	2,000	2 yr	2,000	3 yr	2,000	2 yr	2,000	3 yr	-----	
1927	fall	------		-----		-----		3,000	3 yr	2,000	3 yr
1928	spring	------		-----		2,000	3 yr	2,000	3 yr	2,000	3 yr

Some of FDR's Forestry Management Plan Undertakings

"Park - Three compartments in the lower woods have been designated as park. It was thought best to treat this area ~~as~~ aesthetically because of topography and other limiting factors. The numerous rock ledges and hollows offset by larger trees give a beautiful effect. Dead trees should be removed and thinning should be for beauty effect. The accessibility with the aid of the new road will far repay in aesthetic value the small economic loss.

Virgin -One compartment which according to all report and appearances seems to be virgin has been designated as an ecological laboratory. The stand should remain untouched. Do not remove even dead trees. Do not build new roads. Thus it will be preserved just as nature always has treated it.

Clearcut - A deep swamp has been put in this class. This seems to be the only possibl treatment. After clearcutting and draining the swamp it may be possible to plant the area. Tulip poplar or black walnut might be suitable. Black walnut, however, has not proved successful in plantations north of the Mason-Dixon Line.

Experimental - A tract which the New York State College of Forestry has planted with various species has been put in this working group.

Miscellanous- Into this working group have been put all compartments which do not lend themselves to fairly uniform treatment. True, parts of the other compartments vary but not as widely. Each compartment will be discussed briefly.

Compartment 2 - has stands of mixed oaks and scrub. The mixed oak can probably be handled as shelterwood. In the scrub type, if dense clearcut and plant; if fairly open, underplant, later removing nurse trees before they do damage.

Compartment 3 - has stands of mixed oak, hardwood, swamp and oak second. The mixed oal can be handled by selection; the swamps in the same way. The scrub in the northwest corner can be treated with Compartment 2. The oak second can be partly cleared of wolf trees and young growth cleaned.

Compartment 4 - has oak second and scrub types which can be handled same as Compartment 3.

Compartment 9 - has two swamp areas which can be clearcut, drained and planted. Another part is second growth hardwoods which is not worth clearing. The remainder is mixed oak which can be handled by selection. On the western edge is a plantation.

Cutting Budget: The amount of thinning was estimated. No estimate was made of the aesthetic thinning needed in the park working circle. Naturally this is but a guide to the work and many things influence the annual cutting, especially market conditions, altho the cut for the period should approach the estimate.

In marketing the timber to be cut, the primary consideration should be the silvicultural condition of the resulting stand. If this is done, the chief objective of timber management will have been fulfilled.

The order of operation is given in the lower right hand corner of the compartment card. The block is arranged by quarters of the decade with the first quarter to the left Letters in block show subcompartments if necessary. The approximate order of operations is given in the following table.

Table IV. Time of Cutting By Compartments.

Start 57

Quarter of Period 1931 - 1941.

First	Second	Third	Fourth
1	3-C	2-B	1
2-A	4-A	6	2-A
5	9-A	7	4-B
	9-B	10	8
	11	12	
		13	
		14	

PSF Christmas Tree Folder 3-43

THE WHITE HOUSE

WASHINGTON

October 18, 1943.

MEMORANDUM FOR

MR. PLOG:

Here is the order for Christmas trees this year:

One tree to be delivered to Miss Suckley at the Library; one to be delivered to Miss Delano; one to be shipped to the Crown Princess of Norway at Bethesda, Maryland; and one for Prime Minister Winston Churchill, on which I will give you shipping directions later.

F.D.R.

Record of FDR's Tree Plantings at Hyde Park 1911-1932.

Record of Franklin D. Roosevelt's Tree Plantations at Hyde Park, New York, 1911-1932. (1)

1 Year	2 No. of Trees from State	3 No. of Trees From other sources.	4 Year Total Planted	5 Cost of Trees.	6 Total Man Days for Tree Planting.	7 When Planted	8 Where Planted
1911:	0	0	0	0	0	0	Clearing operations started.
1912:		0	8,000		No record		
	5,000 white pine	0		$20.00		April, 4 year old.	Lot.No.15, southerly 3/4-abou 5 acres, 5' to 6' spacing.
	1,000 Scotch pine			?		April	Gravel Lot D, North half east of stream, 4 yr.old; 6' x 6'.
	1,000 Norway Pine			?		?	?
	1,000 Norway Spruce			?		?	?
1 :	7 to 8,000	0	7 to 8,000	?	No record		
	about 2000 White Pine			?	N	April	Open space(EL), about 2 acres planted. 4yr. old,
	White pine					May	Lot No.15-northerly ½ planted with 4 yr olds. Replanted 10% l in southern 1912 planting.
1914:	7,000 White pine	0	7,000	$28.00	18 days		
	3 rows white pine					April	4 year old; Lot A-North avenue along highway.
	3 rows white pine					April	4 year old, Lot B.-South Avenue alonh highway.
	White pine					April-May	Gravel Lot D-North ~~half west~~ of stream, 4 yr old, 5½' x 5½'.
	white pine back of ValKill cottage site(State 1931 Handbook).						
1915:	10,000 white pine	2,000 tulip poplar	12,000	$54.00	50.5 days		
	~~12,000 tulip~~	2,000 tulip pop.		$14.00		Fall	Roosevelt From 2' to 4' In/Nursery. MCMinnville, Tenn.
4 yr old	~~10,000~~ white pine			$40.00		April	Plot 2-Handbook, 1931-east of road on tunn to Depew House.
4 yr old	White Pine					May	On Farm west of Post Road, prob on wood road just north of Brac pond.
	Some spruce & hemlock					August	From Roosevelt Nursery; apparentl near Home.

Compartment Map of Springwood forestry plan
"Big House"

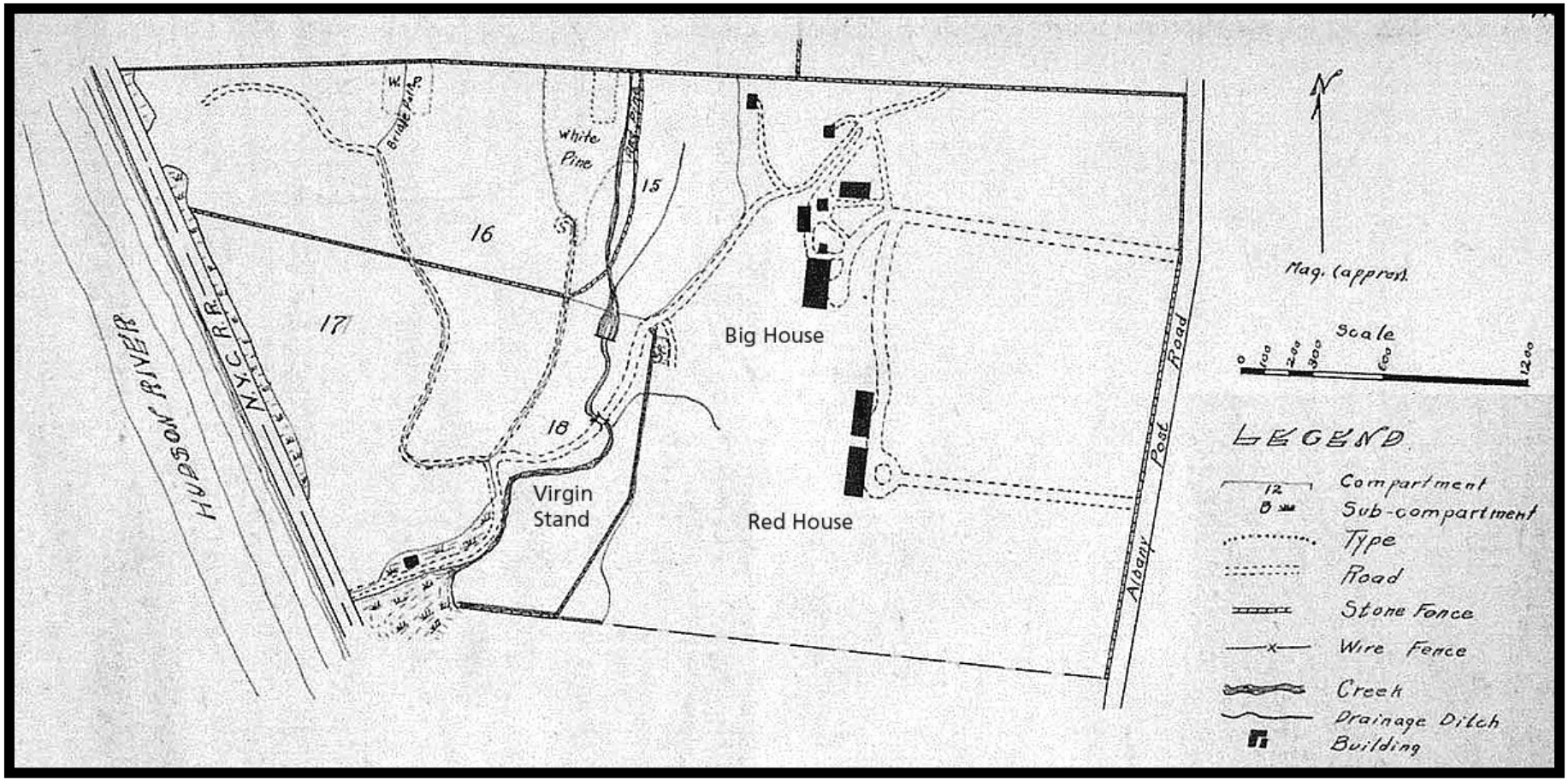

Figure 4.27: Map from the 1931 forest management plan showing woodlot compartments and plantations on the Wheeler and Boreel Places west of the Post Road. Irving Isenberg, "Management Plan for Kromelbooge Woods," map # 15-2-3b, Franklin D. Roosevelt Library, annotated by SUNY ESF.

Kromelbooge Woods

Working Group: Miscellaneous — Compartment No. 2

Type: Mixed Oak and scrub — Age: ..... Years — Area: 25.1 Acres

Species	% Volume	No. of Stems	Average Height Feet	D. B. H. of Mean Sample Tree Inches	Basal Area Sq. Ft.	Volume Cu. Ft.	Volume Cords	Volume B. F.	Growth %	Distribution of Area
Red Oak	37	45	50	9.5	22	432	5.2	1874		
White Oak	27	35	50	9	19	318	3.8	1324		1.6
Others	36	70	48	7.5	22	410	5.1	1148		
Totals						1160	14.1	4346		
B White Oak	51	390	50	8.5	162	3125	38.1	11990		
Others	49	330	50	9.0	148	3016	36.3	12694		18.5
Totals						6141	74.4	24684		
Total	100	870	50	8.8	373	7301	88.5	29030		20.1

Description of Stand

Mostly scrub in old field. Grey birch, prickly ask, Red cedar, S. maple, witch hazel.
Central part has larger trees of oak, hic. Scrub underneath. Some oak reproduction scattered throughout.

Topography — Level with rock outcrops.

Ground Cover

Soil — Stony loam. Good mull in parts.

Aspect: Western

Slope: Level

Site:

Remarks

White Pine planted in N.W. corner 5A
Plant under in scrub. Remove nurse trees after seedlings have become established.

Cleaning	Thinning	Reproduction Cut.	Planting
	✓ A ✓ A	✓ B	✓ B

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Figure 4.16: Example of statistics gathered the woodlot compartment on Bennett Farm that included Val-Kill as part of a forest management plan prepared through the College of Forestry. Irving Isenberg, "Management Plan for Kromelbooge Woods," Papers pertaining to Family, Business and Personal Affairs, Franklin D. Roosevelt Library.

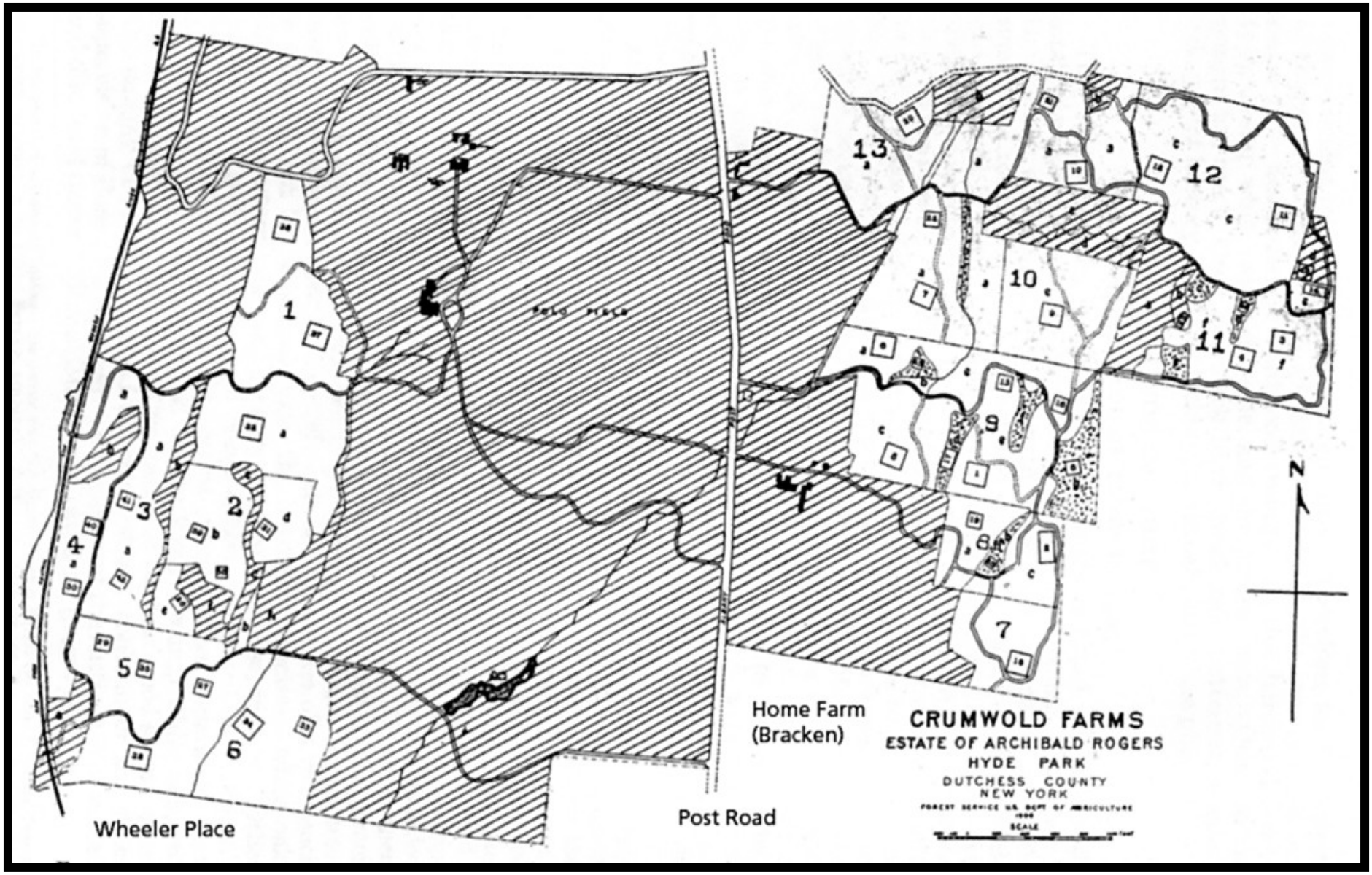

Figure 3.29: Forest management plan map prepared by the U. S. Forest Service, 1905. J. Nelson Spaeth, "Twenty Years Growth of a Sprout Hardwood Forest in New York," Cornell University Agricultural Experiment Station Bulletin 465 (March 1928), 5. The unshaded areas with boxes represent managed woodlots.

A glance into the primeval hemlock forest on the Roosevelt place near Hyde Park on the Hudson.

Figure 4.26: Photograph published in *American Forests* of the supposed virgin forest (Compartment 18) in the lower woods of the Boreel Place bordering the River Road, c.1931. Nelson C. Brown, "Governor Roosevelt's Forest," *American Forests*, volume 37, no. 5

Figure 4.4: State tree-planting operation underway on an abandoned farm in Reforestation Area No. 1, Madison County, 1930. New York State Conservation Department, *Annual Report for 1930* (Albany: Published by the Department, 1931), 94.

Forestry Plow used at the Roosevelt Estate

Figure 4.9: The Heiberg Forestry Plow in use at the Roosevelt Estate, c.1933. Photograph Px61-296(2), Franklin D. Roosevelt Library. Planters followed the plow setting trees in the furrow.

Figure 4.43: View of the red pine plantation planted in 1930-31 [Plot 1] on the Tompkins Farm looking northwest from Violet Avenue, April 1933. Photograph NPx 48-22:4000 (9), Franklin D. Roosevelt Library. The mature evergreens in the upper right surround the Bennett farmhouse. The three men standing in the distance are not identified.

Figure 4.40: View looking north from Farm Road into the 1926 Christmas Tree Plot [Plot M (61)], after the first harvests were made, c.1940. PThe Central Hudson transmiho-tograph Px 61-293(5), Franklin D. Roosevelt Library. Pictured is William Plog. ssion line installed in c.1921 is visible in the background.

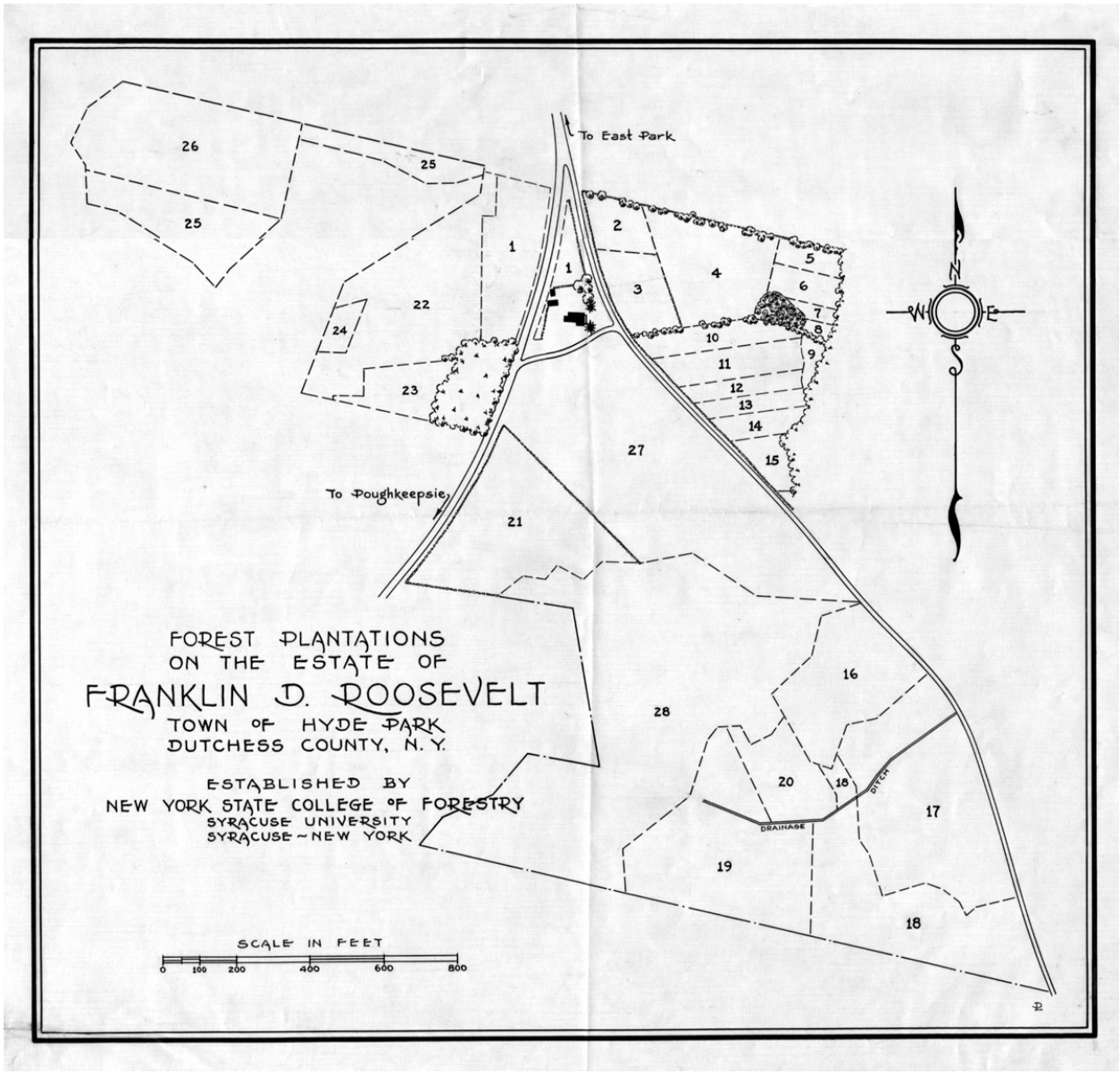

Figure 4.46: Final plan showing the College of Forestry demonstration plantations on the Tompkins Farm, 1930-1933. New York State College of Forestry, "Plantations on the Estate of Governor Franklin D. Roosevelt" (c.1933), Hoverter Memorial Archives, SUNY College of Environmental Science and Forestry. Plot 27 was not a plantation but rather an open field. These plot numbers do not correspond exactly with those on Nelson Brown's tallies. The key to these numbers is in Appendix 2.

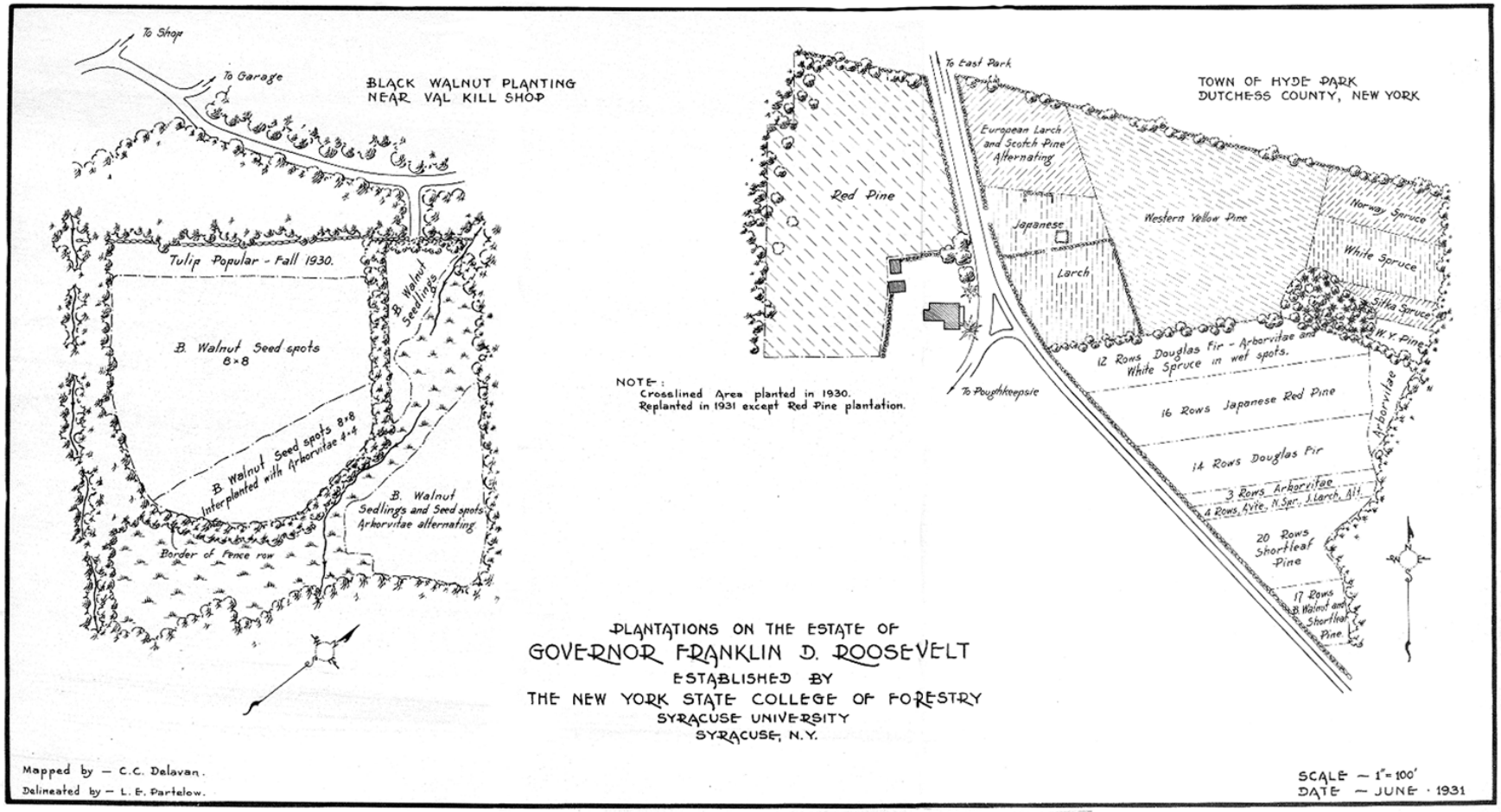

Figure 4.44: Plan of the demonstration and experimental plantations set out on the Tompkins Farm through 1931. New York State College of Forestry, "Plantations on the Estate of Governor Franklin D. Roosevelt" (June 1931), Hoverter Memorial Archives, SUNY College of Environmental Science and Forestry. The Route 9-G/Violet Avenue bypass had not been constructed by the date of this map.

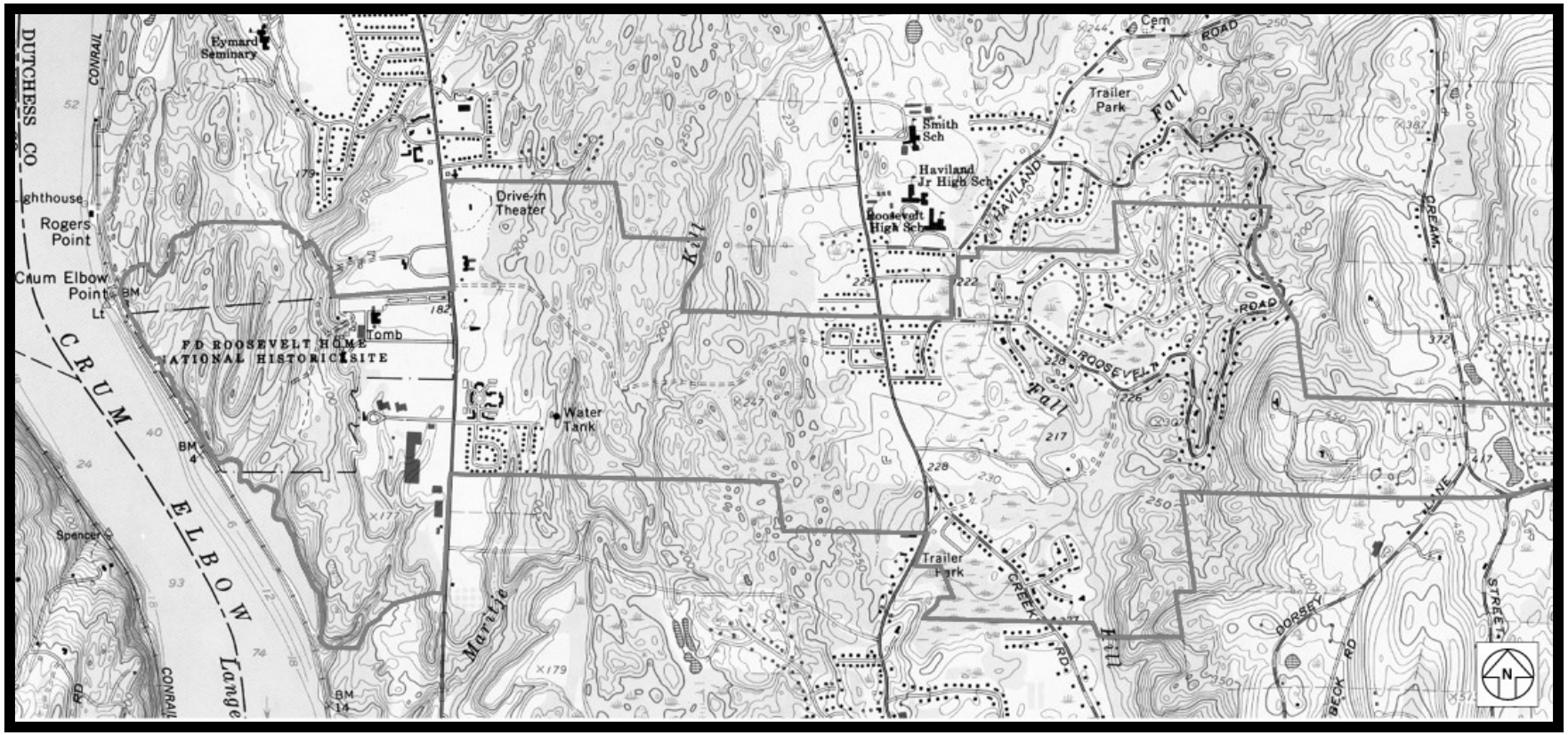

Figure 5.1: Suburban development in Hyde Park within and surrounding the Roosevelt Estate (1945 boundaries indicated by gray line). Detail, 1964 U.S. Geological Survey Rhinebeck quadrangle, updated to 1980, annotated by SUNY ESF.

Tulip Poplar Plantation

Figure 4.24: View through the tulip poplar plantation (Plot K) following pruning completed in 1929, photograph by the New York State College of Forestry, July 1931. Photograph 48-22:3837(16), Franklin D. Roosevelt Library.

Red Pine Plantation

Figure 4.25: View looking west through the red pine plantation along the creek in the Gravel Lot planted in 1912 (Plot A), following pruning completed in 1930. Ray F. Bower, "The President's Forests," *American Forests*, volume 40, no. 1 (January 1934), 9.

Norway Spruce Plantation

Figure 4.58: View of Norway spruce planted on the Dumphy Farm in 1936 as Christmas trees in the Gravel Lot South (Plot 39), view looking north toward the Hughson Farm, c.1941. Photograph Px61-293(8), Franklin D. Roosevelt Library. The person pictured was not identified.