The Flora of

Lowell Park, Lee County, Illinois

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Inventory of the Flora of Lowell Park, Lee County, Illinois

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INTRODUCTION

This survey took place on about 160 acres of the park (map 1). The area was divided into three units. Unit 1 is made up of deep ravines and high steep river slopes. Units' 2 and 3 are made up of shallow ravines and a river slope with more gradual sloping. Unit 3 is the most degraded of the three units with a shrub layer of solid Lonicera x bella. There were 236 species located in the study area of these 37 or 16% were nonnative. A population of the State Threatened Species *Oryzopsis racemosa* was located on the crest and face of a cliff in unit 1 (map 2).

METHODS

VEGETATION SAMPLING OF WOODED AREAS

The point-center-quarter method is a plotless method designed to quantify forest and savanna tree cover over large areas rapidly. This method was used for recording the tree species at the section corners for the Pubic Land Survey in the 1800's. The information obtained is used to find the species frequency.

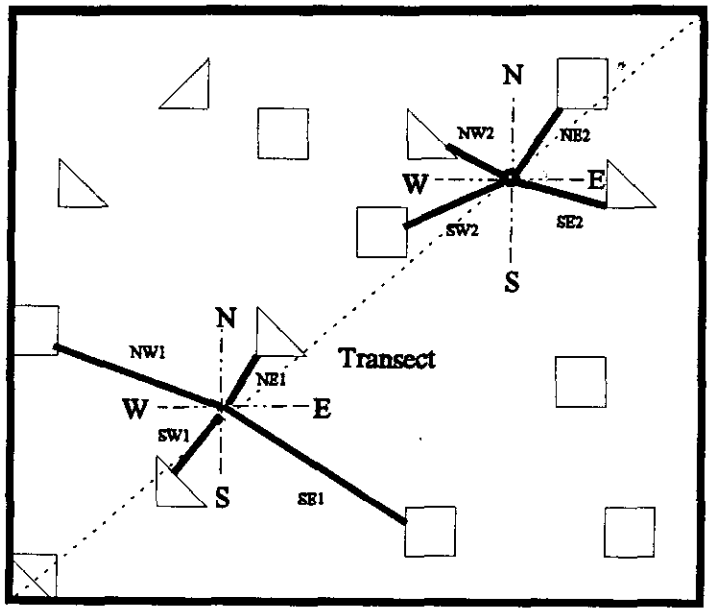

Figure 1. Point-center-quarter Method. The dotted line is the transect line, the meeting point of the dashed lines is the center of the plot. The plot is divided it into the four quarters, N,S,E,W are the directions of the compass, the bold solid lines represent the measured distances to the nearest tree in each quarter. The squares and triangles represent two different tree species.

With a compass, each point is divided into four quarters establishing a north-south line intersected by an east-west line (Figure 1). The identity of the nearest tree in each quarter was recorded (Figure 1).

In this study, the point-center-quarter method was modified to create a more complete model of the forest structure. Three size classes of trees were designated the dominant size class or canopy is trees with diameters of 22 centimeters or greater. While the understory trees have less than 22 centimeters in diameter and greater than 13 centimeters diameter. The sapling class is less than 13 centimeters and taller than two meters. Only the diameters of the dominant size were

recorded and the identity of the trees in the understory and sapling size class were recorded in each quarter. These three size classes show the changes that are occurring over time. Dividing the trees into these three size classes, show how the forest canopy looks now and its make up in the future. The point-center-quarter method was also used for the shrub layer, while the herbaceous layer was sampled using $1m^2$ quadrat at the center of each plot. The presence of each species found was noted in its designated $1m^2$ quadrat.

FLORISTIC SURVEY

The floristic survey was conducted during multiple visits to the site throughout the 1997 growing season. To cover the changes that occur throughout the growing seasons, the area was visited one or two days in each of the following months: April, May, June, August and September. All vascular plants located were identified and grouped by vegetational unit. Identifications and nomenclature were designated based on Mohlenbrock R.H., 1986, *Guide to the Vascular Flora of Illinois.*

State Listed Species

***Oryzopsis racemosa* Black-seeded rice grass**

This state threatened species was on a north facing cliff and its crest over looking the river (map ?). This is the species usual habitat thin soiled areas of mesic forest. The five plants on the cliff face were small with few flowering culms. These five plants were associated with the following five species: *Aquilegia canadensis* (Columbine), *Arabis laevigata* (Smooth rock cress), *Asarum canadense* var *reflexum* (Canada wild ginger), *Cystopteris protrusa* (Fragile fern), *Eupatorium rugosum* (White snakeroot), *Hepatica nobilis* var *acuta* (Sharp-lobed liverleaf), *Hydrophyllum virginianum* (Virginia waterleaf), and *Pilea pumila* (Clearweed).

Twenty plants or clumps were found growing on the crest of this cliff. These plants were very robust having as many as thirty flowering culms per plant. All plants were within three meters of the cliff. The following twelve species were found associated with the plant on the crest: *Asarum canadense* var *reflexum* (Canada wild ginger), *Aster lateriflorus* (Side-flowering aster), *Aster shortii* (Short's aster), *Elymus hystrix* (Bottlebrush grass), *Fraxinus quadrangulata* (Square-stemmed ash), *Hepatica nobilis* var *acuta* (Sharp-lobed liverleaf), *Hydrophyllum virginianum* (Virginia waterleaf), *Lonicera prolifera* (Rock honeysuckle), *Parthenocissus quinquefolia* (Virginia creeper), *Solidago flexicaulis* (Zigzag goldenrod), *Staphylea trifolia* (Bladdernut), and *Tilia americana* (Basswood)

Natural Communities

The study area contained three natural communities. The ravines, river slope, and river terrace were mesic upland forest, while the ridge tops were dry-mesic upland forest (map 3). The composition of the forest communities were determined by running four transects through them (map 4). The third was the dolomite cliff community a part of the Primary community group (map 5).

Mesic upland forest This community is found in the ravines, the north facing slopes and the river terrace. The mesic upland forest made up 60% of the study area and had 153 species in this community. The frequencies of the trees, shrubs, and herbaceous species sampled in the mesic forest

are in table 1. The canopy species are characteristic mesic forest. The canopy trees in the ravine were good sized averaging 53 centimeters in diameter. Without the *Tilia americana* whose small diameters suggest it is a recent addition to the canopy the average goes up to 57 centimeters in diameter. The river slope showed signs of recent cutting and averaged only 40 centimeters in diameter. There are two areas marked on map 6with trees large enough to be old growth.

There are differences in the canopy trees and the smaller size classes that may show future changes in the mesic forest. There were no younger trees of *Quercus rubra* encountered that could replace it in the canopy. It looks like *Tilia americana* will become the dominant species in the canopy. With *Acer saccharum* having young trees to move into the canopy and *Celtis occidentalis* is on the increase. Seven species; *Ulmus rubra, Ulmus americana, Fraxinus americana, Fraxinus quadrangulata, Ostrya virginiana, Carya cordiformis*, and *Prunus serotina* not present in the canopy are found in the smaller size classes.

The area had a rich shrub layer with 10 species being encountered while sampling, with *Ribes missouriense* and *Staphylea trifolia* sharing most frequent status. With the ground layer having 24 species.

Table 1 Mesic upland forest	Point-center-quarter				$1m^2$ Plot
*=exotic species	Centimeters in diameter				
Species	>=22	<22	< 13	Shrubs	Ground layer
Trees more than 22 centimeters in diameter:					
Quercus rubra	64%				
Tilia americana	57%	100%	85%		
Juglans nigra	42%		7%		
Acer saccharum	21%	14%	14%		
Quercus alba	21%	7%			
Celtis occidentalis	7%	21%	21%		21%
Trees less than 22 centimeters and greater then 13 centimeters in diameter:					
Ulmus rubra		28%	14%		
Fraxinus americana		28%	14%		
Ostrya virginiana		21%			
Carya cordiformis		7%	50%		
Prunus serotina		7%	14%		7%
Trees less then 13 centimeters and greater then 5 centimeters in diameter:					
Fraxinus quadrangulata			21%		
Ulmus americana			14%		
Shrubs:					
Ribes missouriense				42%	
Staphylea trifolia				42%	14%
Prunus virginiana				35%	
Cornus alternifolia				28%	
Rubus occidentalis				21%	

Table 1 Mesic upland forest	Point-center-quarter				1m² Plot
*=exotic species	Centimeters in diameter				
Species	>=22	<22	< 13	Shrubs	Ground layer
Cornus racemosa				14%	
Viburnum opulus*				14%	7%
Viburnum prunifolium				14%	
Viburnum lentago				7%	
Viburnum rafinesquianum				7%	
Ground layer species:					
Circaea lutetiana ssp canadensis					57%
Parthenocissus inserta					57%
Geranium maculatum					50%
Smilacina racemosa					50%
Hydrophyllum virginianum					35%
Arisaema triphyllum					28%
Carex grisea					28%
Geum canadense					28%
Asarum canadense var reflexum					21%
Carex hirtifolia					21%
Desmodium glutinosum					21%
Alliaria petiolata*					14%
Ranunculus abortivus					14%
Athyrium angustum					7%
Caulophyllum thalictroides					7%
Dicentra cucullaria					7%
Galium triflorum					7%
Hepatica nobilis var acuta					7%
Leersia virginica					7%
Parthenocissus quinquefolia					7%
Podophyllum peltatum					7%
Ranunculus septentrionalis					7%
Sanguinaria canadensis					7%
Solidago flexicaulis					7%

Dry-mesic upland forest This community is found on the ridge tops and covered 40% of the study area. There were 107 species located in the dry-mesic upland forest. The frequencies of the trees, shrubs, and herbaceous species sampled in the dry-mesic upland forest are in table 2. The area sampled in this community was cut over in the past twenty years. The harvesting of this forest can be seen in the small average diameter of 36 centimeters and the high number of species encountered in the canopy.

The cutting of the forest shows up in its structure. Of the ten species found in the canopy there were no new species encountered in the understory, saplings, and seedlings. When the canopy was removed the understory species took their place. At this time there is no clear dominance in the canopy, but as the forest matures one species will become more frequent, while others become less frequent. The largest and best dry-mesic upland forest is north of the study area. With some good

stands at the north end of the study area though these were not sampled.

This community also had a rich flora of shrubs. With nine native shrub species encountered while sampling. The three nonnative shrub species were infrequent. The most frequent shrub was *Prunus virginiana* at 70%. The ground layer had 23 species with five species being nonnative.

Table 2 Dry-mesic upland forest	Point-center-quarter				$1m^2$ Plot
*=exotic species	Centimeters in diameter				
Species	>=22	<22	< 13	Shrubs	Ground layer
Trees more than 22 centimeters in diameter:					
Ulmus rubra	60%	90%	40%		10%
Prunus serotina	40%	60%	50%		10%
Fraxinus americana	40%	50%	40%		10%
Quercus alba	40%	10%			
Carya ovata	30%		30%		
Tilia americana	20%	20%	20%		
Juglans nigra	20%	20%	10%		
Quercus velutina	20%				
Carya cordiformis	10%	20%	70%		
Celtis occidentalis	10%	10%	40%		10%
Trees less than 22 centimeters and greater then 13 centimeters in diameter:					
Trees less then 13 centimeters and greater then 5 centimeters in diameter:					
Shrubs:					
Prunus virginiana				70%	10%
Cornus racemosa				30%	
Zanthoxylum americanum				30%	
Corylus americana				20%	
Ribes missouriense				20%	10%
Viburnum prunifolium				20%	
Rubus occidentalis				20%	
Lonicera sp.*				20%	
Cornus alternifolia				10%	
Viburnum opulus*				10%	7%
Viburnum lentago				10%	
Rosa multiflora*				10%	
Ground layer species:					
Circaea lutetiana ssp canadensis					90%
Geum canadense					80%
Parthenocissus inserta					70%
Geranium maculatum					60%
Alliaria petiolata*					60%
Polygonum virginianum					50%
Arisaema triphyllum					50%
Amphicarpa bracteata					30%

Table 2 Dry-mesic upland forest	Point-center-quarter				1m² Plot
*=exotic species	Centimeters in diameter				
Species	>=22	<22	< 13	Shrubs	Ground layer
Viola sororia					30%
Desmodium glutinosum					20%
Festuca obtusa					20%
Osmorhiza longistylis					20%
Toxicodendron radicans					20%
Caulophyllum thalictroides					10%
Arctium minus*					10%
Galium aparine					10%
Hesperis matronalis*					10%
Laportea canadensis					10%
Oxalis stricta					10%
Plantago rugelii*					10%
Polygonum persicaria*					10%
Scutellaria ovata var versicolor					10%
Viola pubescens var eriocarpa					10%

Dolomite cliff This community is primarily found on the Rock River bluff, with a couple small outcrops in a ravine in area one(map 5). The community's cool moist northeast exposure gives it a rich flora of 84 species including habitat for the state threatened species *Oryzopsis racemosa*. These cliffs are all shaded by the surrounding forest. The cutting of the forest in front of them has given them a more open exposure from time to time.

Species List For

Lowell Park

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LOWELL PARK PLANT INVENTORY

SCIENTIFIC NAME	COMMON NAME	AREA			FOREST				CLIFF			RIVER	DEVELOPED			HSP
		1	2	3	RG	RT	RV	RS	CRS	RV	RS	SHORE	Q	F	M	
Acalypha rhomboidea	Three-seeded mercury											X				X
Acer saccharum	Sugar maple	X	X		X	X	X	X	X		X					
Acer negundo	Box elder		X		X			X								
Acer saccharinum	Silver maple	X				X						X				
Actaea pachypoda	White baneberry	X	X	X	X	X	X	X								X
Actaea rubra	Red baneberry	X				X	X	X								
Adiantum pedatum	Maidenhair fern	X			X		X	X								X
Agrimonia pubescens	Soft agrimony	X	X		X		X	X								X
Agrostis alba var palustris	Creeping bent grass											X				X
Alliaria petiolata*	Garlic mustard	X	X	X	X	X	X	X	X	X		X				X
Allium tricoccum	Wild leek	X	X		X	X	X									X
Allium burdickii	Wild leek	X				X	X									X
Ambrosia artemisiifolia	Common ragweed											X				
Ambrosia trifida	Giant ragweed											X				
Amorpha fruticosa	Indigo bush											X				X
Amphicarpa bracteata var comosa	Lowland hog peanut	X	X			X	X		X							X
Anemone quinquefolia	Wood anemone	X	X		X	X	X	X			X					
Anemone virginiana	Tall anemone	X	X			X			X							X
Aquilegia canadensis	Columbine	X	X	X	X		X	X		X	X					X
Arabis shortii	Toothed cress	X	X			X	X	X		X	X					X
Arabis glabra	Tower mustard		X								X					
Arabis laevigata	Smooth rock cress	X	X	X	X		X		X	X	X					X

1, 2, & 3 =Areas marked on map 1: RG = Ridge top: RT = River terrace: RV = Ravine: RS = River slope: CRS = Crest:
Q = Quarry: F = Feild: M = Mowed areas: HSP = Collected as herbarium specimen: * = Non-native species: << = State threatened species.

SCIENTIFIC NAME	COMMON NAME	AREA			FOREST				CLIFF			RIVER	DEVELOPED			HSP
		1	2	3	RG	RT	RV	RS	CRS	RV	RS	SHORE	Q	F	M	
Arctium minus*	Common burdock			X	X							X				
Arisaema triphyllum	Jack-in-the-pulpit	X	X		X	X	X	X								X
Asarum canadense	Wild ginger	X	X		X	X										X
Asarum canadense var reflexum	Canada wild ginger	X			X	X	X	X		X	X		X			X
Asclepias incarnata	Swamp milkweed											X				
Asplenium rhizophyllum	Walking fern	X									X					X
Aster lateriflorus	Side-flowering aster	X	X			X	X		X							
Aster pilosus	Hairy aster	X				X										X
Aster shortii	Short's aster	X	X		X			X	X		X					
Athyrium angustum	Lady fern	X	X		X	X	X	X	X							X
Berberis thunbergii*	Japanese barberry	X	X		X		X									X
Boehmeria cylindrica	False nettle												X			
Botrychium virginianum	Rattlesnake fern		X	X	X											
Brachyelytrum erectum	Long-awned wood grass	X	X		X		X	X					X			X
Bromus japonicus*	Japanese chess											X				X
Bromus pubescens	Woodland brome	X						X	X							X
Campanula americana	Tall bellflower	X	X		X	X	X	X	X	X	X	X	X			X
Carex hitchcockiana	Hairy gray sedge	X					X									X
Carex jamesii	Grass sedge	X					X									X
Carex pensylvanica	Pennsylvania sedge	X	X		X			X	X							X
Carex rosea	Curly-styled wood sedge	X						X								
Carex sparganioides	Loose-headed bracted sedge	X					X	X								X

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		1	2	3	RG	RT	RV	RS	CRS	RV	RS	SHORE	Q	F	M	
Carex sprengelii	Sprengel sedge	X					X									X
Carex hirtifolia	Hairy wood sedge	X	X			X	X	X								X
Carex grisea	Wood gray sedge	X					X									X
Carex granularis	Pale sedge													X		
Carex convoluta	None	X	X	X	X	X	X	X								X
Carex conjuncta	Green-headed fox sedge	X				X										X
Carex cephaloidea	Rough clustered sedge	X	X				X	X								X
Carex albursina	Blunt-scaled wood sedge	X	X		X	X	X	X	X	X						X
Carex blanda	Common woodland sedge	X	X	X	X	X	X		X							X
Carex annectens	Large yellow fox sedge	X			X											X
Carpinus caroliniana	Blue beech	X					X									
Carya cordiformis	Yellowbud hickory	X	X		X		X									X
Carya ovata	Shagbark hickory	X	X	X	X				X					X		
Caulophyllum thalictroides	Blue cohosh	X	X		X	X	X	X		X						X
Celastrus scandens	Climbing bittersweet		X					X								
Celtis occidentalis	Hackberry	X	X	X			X	X								
Chaerophyllum procumbens	Wild chervil			X	X											X
Circaea lutetiana ssp canadensis	Enchanter's nightshade	X	X		X	X	X	X	X							X
Claytonia virginica	Spring beauty	X	X		X	X	X	X		X	X				X	X
Cornus racemosa	Gray dogwood	X	X	X	X	X			X							X
Cornus alternifolia	Alternate-leaved dogwood	X	X		X	X	X	X								X
Corylus americana	Hazelnut	X			X			X								X

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SCIENTIFIC NAME	COMMON NAME	AREA			FOREST				CLIFF			RIVER	DEVELOPED			HSP
		1	2	3	RG	RT	RV	RS	CRS	RV	RS	SHORE	Q	F	M	
Cryptotaenia canadensis	Honewort	X	X	X	X	X	X	X								X
Cystopteris protrusa	Fragile fern	X	X	X	X	X	X	X								X
Cystopteris bulbifera	Bladder fern		X	X			X	X		X	X					X
Dactylis glomerata*	Orchard grass															
Dentaria laciniata	Toothwort	X	X		X	X	X	X								X
Desmodium glutinosum	Pointed tick trefoil	X		X	X		X	X	X							X
Desmodium canadense	Showy tick trefoil		X						X							X
Dicentra canadensis	Squirrel-corn	X	X			X	X									X
Dicentra cucullaria	Dutchman's-breeches	X	X		X	X	X	X		X	X		X			X
Dichanthelium acuminatum	Old-field panic grass		X						X							X
Digitaria sanguinalis*	Hairy crab grass												X			
Dioscorea villosa	Wild yam	X	X				X	X								X
Dodecatheon meadia	Shooting star	X	X		X				X	X	X					X
Ellisia nyctelea	Aunt lucy		X	X			X	X								X
Elymus virginicus	Virginia wild rye											X				X
Elymus villosus	Silky wild rye	X	X		X		X	X	X	X						X
Elymus hystrix	Bottlebrush grass	X	X				X	X	X				X			X
Equisetum arvense	Field horsetail			X								X				
Erigeron pulchellus	Robin's plantain	X							X					X		X
Erigeron philadelphicus	Philadelphia fleabane	X				X								X		
Erythronium albidum	White trout lily	X	X	X	X	X	X	X								X
Euonymus europaeus*	European spindle-tree	X	X			X	X	X								X

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		1	2	3	RG	RT	RV	RS	CRS	RV	RS	SHORE	Q	F	M	
Euonymus alatus*	Winged euonymus	X					X									
Eupatorium rugosum	White snakeroot	X	X		X				X				X			
Eupatorium purpureum	Sweet joe-pye weed	X	X				X									X
Festuca obtusa	Nodding fescue		X		X											
Fragaria americana	Hillside strawberry	X									X					X
Fraxinus quadrangulata	Square-stemmed ash	X	X		X	X	X	X	X							X
Fraxinus pennsylvanica	Green ash		X	X	X			X								
Galium triflorum	Sweet-scented bedstraw	X	X		X			X								X
Galium aparine	Annual bedstraw	X	X	X	X	X	X	X		X	X					
Galium concinnum	Shining bedstraw	X	X	X	X	X		X	X							X
Geranium maculatum	Wild geranium	X	X	X	X	X	X	X		X	X					X
Geum vernum	Spring avens	X					X									X
Geum canadense	White avens	X	X		X		X	X	X							X
Glechoma hederacea var micrantha*	Ground ivy		X	X	X							X				
Gleditsia triacanthos	Honey locust			X	X											
Glyceria striata	Fowl manna grass	X					X	X								X
Gymnocladus dioicus	Kentucky coffeetree	X				X		X								X
Hackelia virginiana	Virginia stickseed		X		X				X							
Hepatica nobilis var acuta	Sharp-lobed liverleaf	X	X		X	X	X	X	X	X	X		X			X
Heracleum lanatum	Cow parsnip	X					X									
Hesperis matronalis*	Dame's rocket	X		X			X							X		
Hydrophyllum virginianum	Virginia waterleaf	X	X	X	X	X	X	X		X	X		X			X

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SCIENTIFIC NAME	COMMON NAME	AREA			FOREST				CLIFF			RIVER	DEVELOPED			HSP
		1	2	3	RG	RT	RV	RS	CRS	RV	RS	SHORE	Q	F	M	
Hydrophyllum appendiculatum	Great waterleaf		X		X		X	X		X						X
Impatiens capensis	Spotted touch-me-not		X									X				X
Impatiens pallida	Pale touch-me-not	X	X			X		X				X				X
Isopyrum biternatus	False rue anemone	X	X			X	X	X			X					X
Juglans nigra	Black walnut	X	X			X	X	X								
Juglans cinerea	Butternut		X				X									
Juncus tenuis	Poverty rush	X	X		X			X						X		X
Juniperus virginiana	Eastern red cedar	X	X		X				X							
Laportea canadensis	Wood nettle	X	X	X	X		X	X			X	X				X
Leonurus cardiaca*	Motherwort	X						X					X			
Lobelia siphilitica	Great blue lobelia											X				X
Lobelia inflata	Indian tobacco		X		X							X				X
Lonicera x bella*	Showy fly honeysuckle	X	X	X	X		X		X							X
Lonicera prolifera	Rock honeysuckle	X			X			X	X							
Lysimachia nummularia *	Moneywort			X	X											
Medicago lupulina*	Black medic											X				
Menispermum canadense	Moonseed	X	X		X		X	X	X		X					X
Mertensia virginica	Virginia bluebells	X			X	X										X
Morus alba*	White mulberry	X				X										
Myosoton aquaticum*	Giant chickweed											X				X
Nepeta cataria*	Catnip	X											X			
Oenothera biennis	Evening primrose											X	X			

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SCIENTIFIC NAME	COMMON NAME	AREA			FOREST				CLIFF			RIVER	DEVELOPED			HSP
		1	2	3	RG	RT	RV	RS	CRS	RV	RS	SHORE	Q	F	M	
Onoclea sensibilis	Sensitive fern	X				X	X									X
Oryzopsis racemosa <<	Black-seeded ricegrass	X							X		X					
Osmorhiza longistylis	Smooth sweet cicely		X	X				X								
Osmorhiza claytonii	Hairy sweet cicely		X				X									X
Osmunda claytoniana	Interrupted fern	X					X									
Ostrya virginiana	Eastern Hop Hornbean	X	X		X	X	X	X	X		X					
Oxalis stricta	Tall wood sorrel											X		X	X	X
Panicum miliaceum*	Broomcorn millet												X			X
Parthenocissus quinquefolia	Virginia creeper	X	X	X		X	X									
Parthenocissus inserta	Thicket creeper	X	X				X	X		X	X					
Pellaea glabella	Smooth cliffbrake	X									X					
Phalaris arundinacea *	Reed canary grass											X				
Phlox divaricata	Blue phlox	X	X	X	X	X	X	X								X
Phryma leptostachya	Lopseed	X	X				X	X		X						
Phyla lanceolata	Fog fruit											X				X
Physalis subglabrata	Smooth ground cherry											X				
Pilea pumila	Clearweed	X	X		X		X	X				X				X
Plantago lanceolata*	English plantain	X										X		X	X	X
Plantago rugelii*	Rugel's plantain			X	X							X			X	X
Platanus occidentalis	Sycamore		X			X										
Poa compressa*	Canadian bluegrass		X						X							X
Poa pratensie *	Kentucky blue grass	X					X									X

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		1	2	3	RG	RT	RV	RS	CRS	RV	RS	SHORE	Q	F	M	
Poa sylvestris	Woodland blue grass	X			X											
Podophyllum peltatum	Mayapple	X	X	X	X	X	X	X								X
Polemonium reptans	Jacob's-ladder	X	X		X	X										X
Polygonatum commutatum	Great solomon seal		X	X			X			X						
Polygonum virginianum	Woodland knotweed	X	X		X		X	X								
Polygonum persicaria*	Spotted lady's thumb											X		X		X
Polygonum punctatum	Smartweed											X				X
Polygonum buxiforme	Boxwood knotweed											X				X
Polygonum lapathifolium	Pale smartweed											X				X
Polygonumcespitosum var. longisetum	Creeping smartweed	X	X		X	X										X
Polymnia canadensis	Great solomon seal	X	X					X			X					X
Populus grandidentata	Large-toothed aspen		X		X									X		
Potentilla simplex	Common cinquefoil		X						X							
Potentilla norvegica*	Rough cinquefoil											X				
Prenanthes alba	White lettuce		X						X							
Prunella vulgaris var elongata	Self-heal	X	X					X	X					X		X
Prunus virginiana	Common chokecherry	X	X	X	X		X	X	X		X					
Prunus serotina	Wild black cherry	X	X	X	X	X	X	X	X	X	X					X
Ptelea trifoliata	Wafer ash											X				
Quercus velutina	Black oak		X		X											
Quercus alba	White oak	X	X	X	X	X		X	X							
Quercus macrocarpa	Bur oak													X		

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		1	2	3	RG	RT	RV	RS	CRS	RV	RS	SHORE	Q	F	M	
Quercus prinoides var acuminata	Chinquapin oak	X					X									X
Quercus rubra	Red oak	X	X	X	X	X	X	X								
Ranunculus septentrionalis	Swamp buttercup	X	X		X	X	X									X
Ranunculus abortivus	Small-flowered crowfoot	X	X	X	X	X	X	X		X	X			X		X
Ranunculus fascicularis	Early buttercup	X						X	X						X	X
Ranunculus pensylvanicus	Pennsylvania buttercup											X				X
Ranunculus recurvatus	Hooked crowfoot	X				X	X	X								X
Ranunculus sceleratus	Cursed crowfoot												X			
Ribes missouriense	Missouri gooseberry	X	X	X	X	X	X	X		X	X		X			
Ribes cynosbati	Prickly wild gooseberry	X									X					
Robinia pseudoacacia*	Black locust		X	X	X		X									
Rosa multiflora*	Multiflora rose	X	X	X	X		X							X		
Rubus pensilvanicus	Yankee Blackberry	X				X										X
Rubus occidentalis	Blackcap raspberry	X	X		X	X	X	X			X					X
Rubus allegheniensis	Common blackberry	X				X										X
Rudbeckia laciniata	Wild golden glow		X									X				X
Sambucus canadensis	Elderberry	X					X		X							X
Sanguinaria canadensis	Bloodroot	X	X		X	X		X			X		X			
Sanicula gregaria	Common snakeroot	X	X		X		X	X	X							
Sanicula trifoliata	Large-fruited black snakeroot	X						X								X
Saponaria officinalis*	Bouncing bet	X											X			
Scirpus americanus	Chairmaker's rush											X				X

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		1	2	3	RG	RT	RV	RS	CRS	RV	RS	SHORE	Q	F	M	
Scrophularia marilandica	Late figwort		X									X				X
Scutellaria ovata var versicolor	Heart-leaved skullcap	X			X			X								X
Setaria glauca*	Yellow foxtail												X			
Setaria viridis var major*	Giant green foxtail												X			X
Sicyos angulatus	Bur cucumber											X				X
Sisymbrium loeselii*	Tall hedge mustard											X				X
Smilacina racemosa	Wild spikenard	X	X	X	X	X	X	X	X		X					X
Smilax ecirrhata	Upright carrion flower	X					X	X								X
Smilax hispida	Bristly green brier	X	X				X	X	X							X
Solanum carolinense	Horse-nettle											X				
Solanum ptycanthum	Black nightshade												X			
Solanum dulcamara*	Bittersweet nightshade												X			
Solidago canadensis	Tall goldenrod	X	X		X	X										
Solidago ulmifolia	Elm-leaved goldenrod	X	X		X	X			X							X
Solidago flexicaulis	Zigzag goldenrod	X	X			X		X	X	X	X					
Sphenopholis obtusata	Shining wedge grass	X			X						X					
Staphylea trifolia	Bladdernut	X	X			X	X		X							X
Taraxacum officinale*	Common dandelion	X		X	X		X	X				X	X	X	X	
Thalictrum dasycarpum var hypoglaucum	Smooth meadow rue	X						X								
Tilia americana	Basswood	X	X		X	X	X	X	X		X					
Toxicodendron radicans	Poison ivy	X	X		X	X	X	X	X							
Trifolium hybridum*	Alsike clover											X				

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		1	2	3	RG	RT	RV	RS	CRS	RV	RS	SHORE	Q	F	M	
Trifolium pratense*	Red clover	X										X		X	X	
Trifolium repens*	White clover	X										X		X	X	
Trillium flexipes	Nodding trillium	X	X			X	X	X		X	X					X
Trillium recurvatum	Red trillium	X	X	X	X	X	X	X								X
Ulmus americana	American elm	X	X	X	X		X									X
Ulmus rubra	Slippery elm	X	X	X	X	X	X									
Urtica dioica	Tall nettle	X	X	X	X		X						X			
Uvularia grandiflora	Yelllow bellwort	X	X			X	X	X		X	X					X
Verbascum thapsus*	Woolly mullein	X											X			
Verbena urticifolia	White vervian	X												X		X
Veronicastrum virginicum	Culver's root	X	X		X	X			X							X
Viburnum opulus*	European high-bush cranberry	X	X	X	X	X	X	X				X				X
Viburnum prunifolium	Black haw	X	X		X	X	X									X
Viola pubescens var eriocarpa	Smooth yellow violet	X	X	X	X	X	X	X								X
Viola sororia	Woolly blue violet	X	X	X	X	X	X			X						X
Zanthoxylum americanum	Prickly ash		X		X											0

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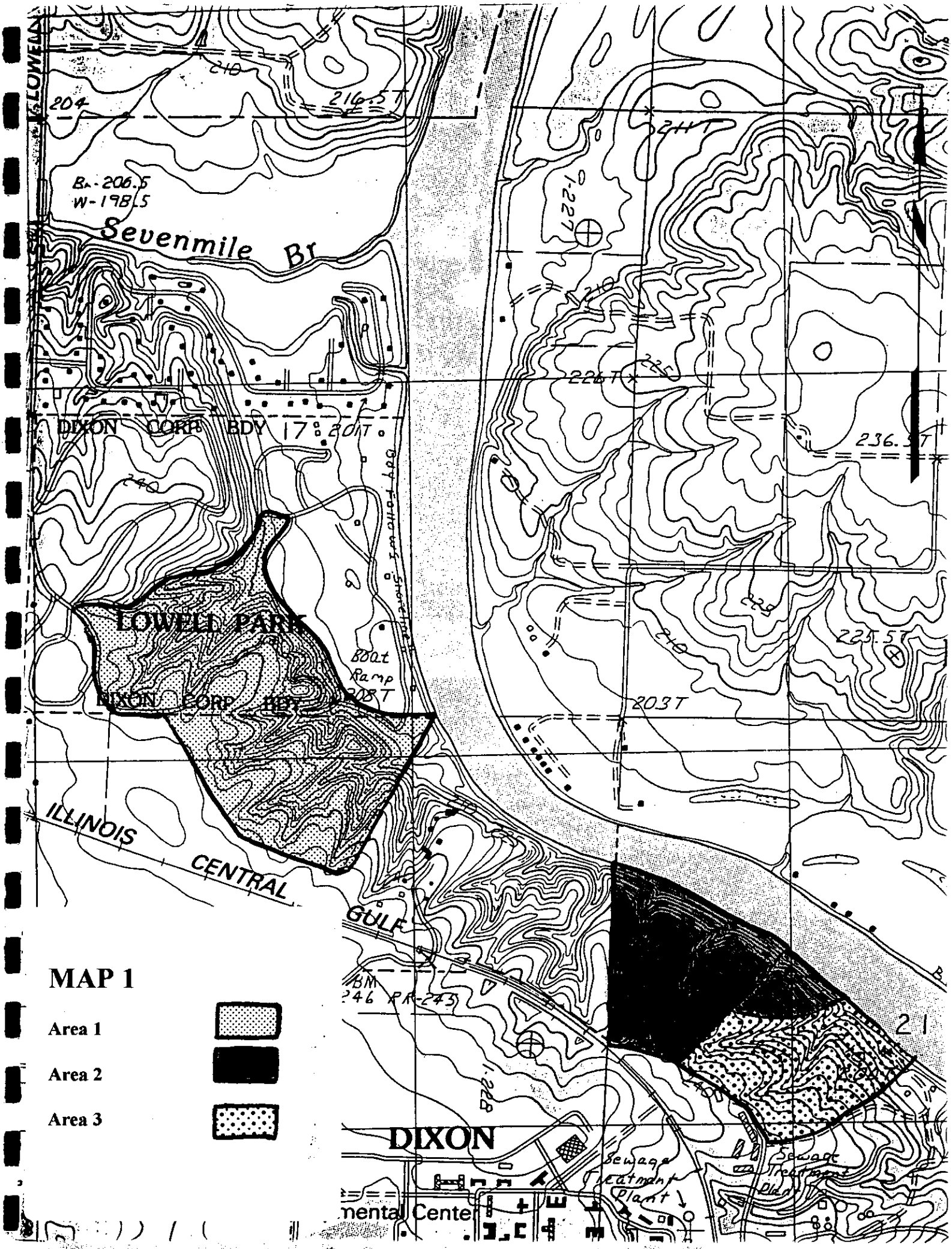
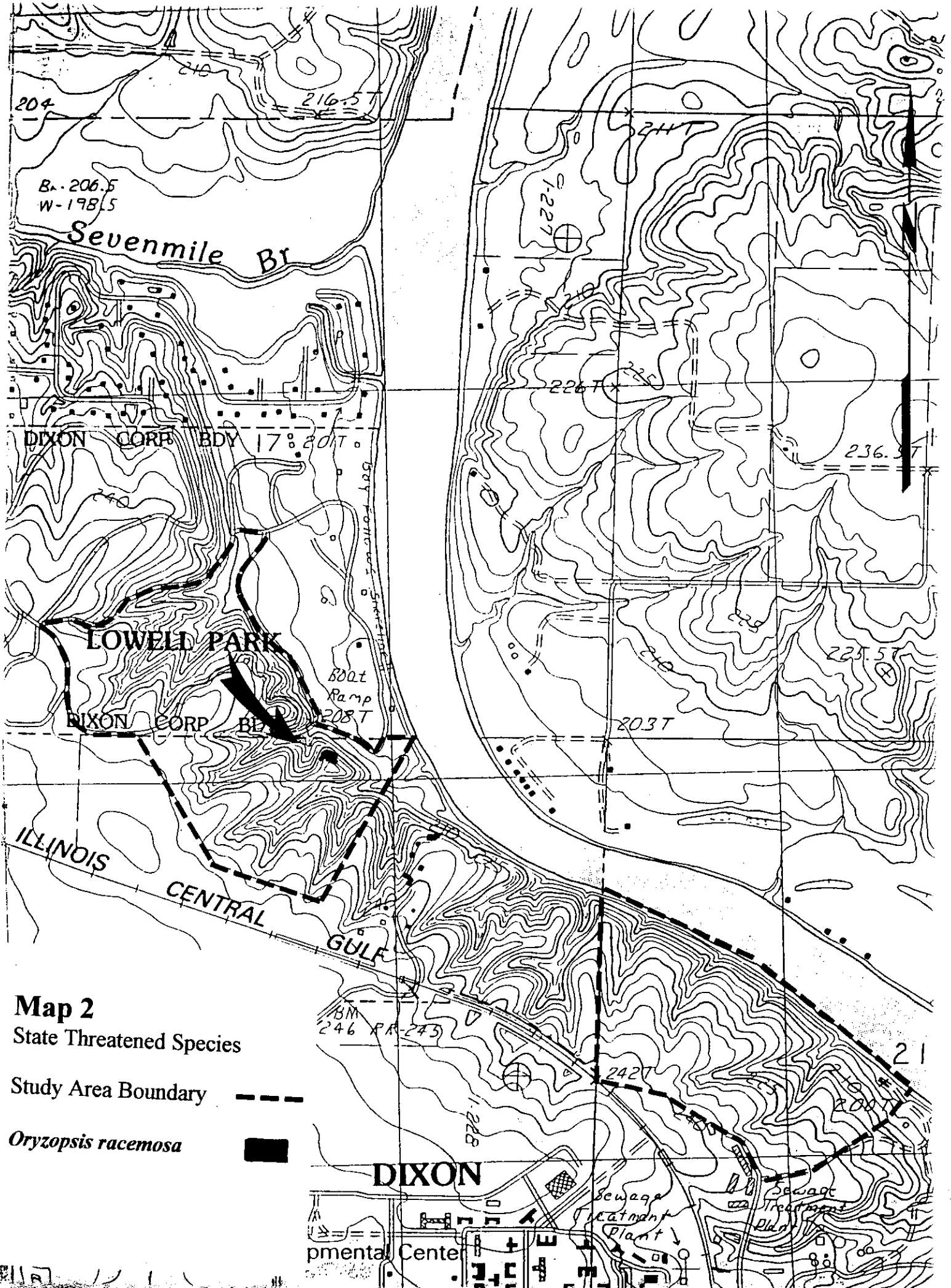

LOWELL PARK
DIXON CORP BDY
DIXON CORP BDY
Sevenmile Br
Boat Ramp
ILLINOIS CENTRAL GULF
DIXON
Sewage Treatment Plant
Sewage Treatment Plant
MAP 1
Area 1
Area 2
Area 3

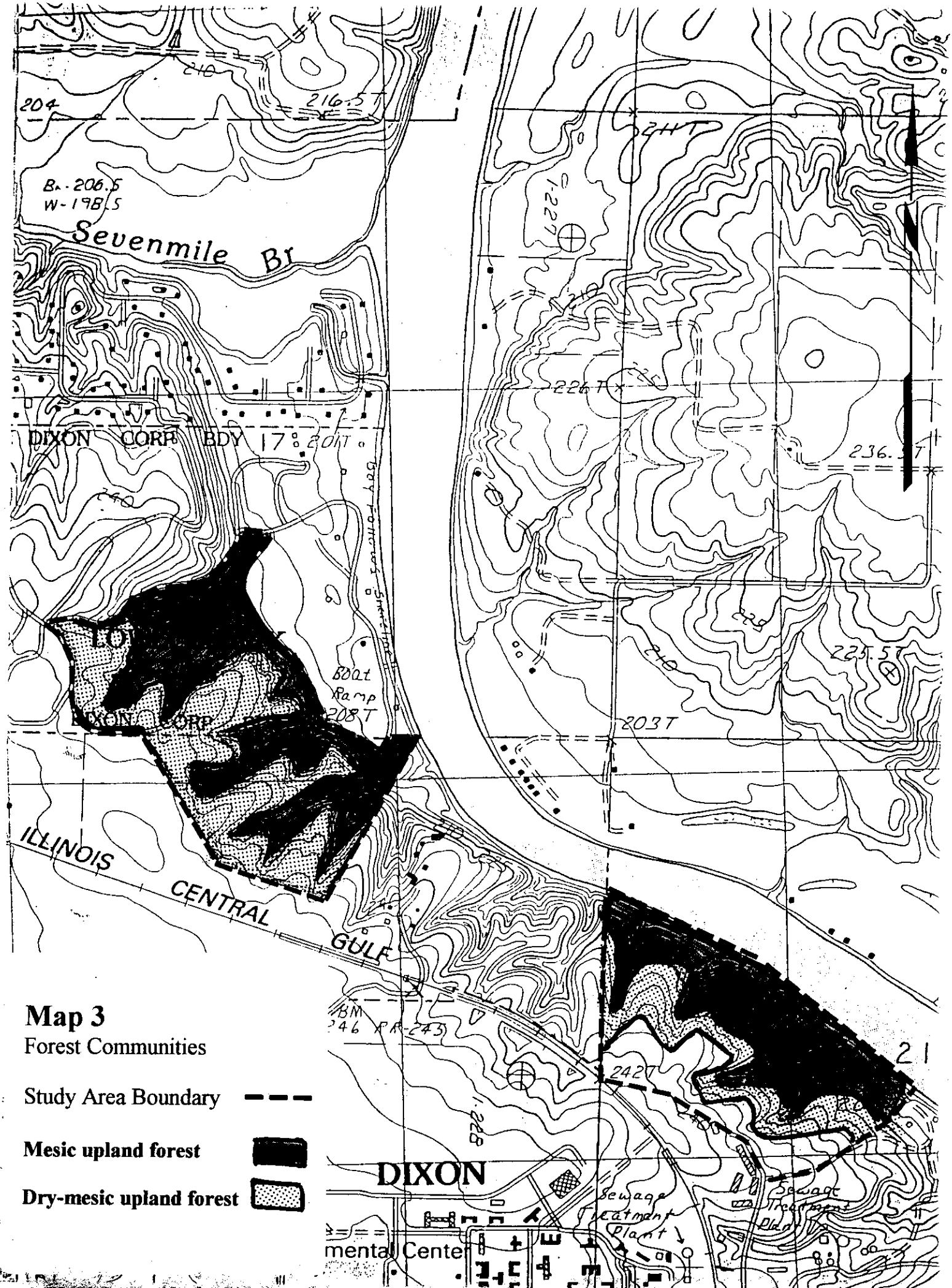


Map 2

State Threatened Species

Study Area Boundary

Oryzopsis racemosa

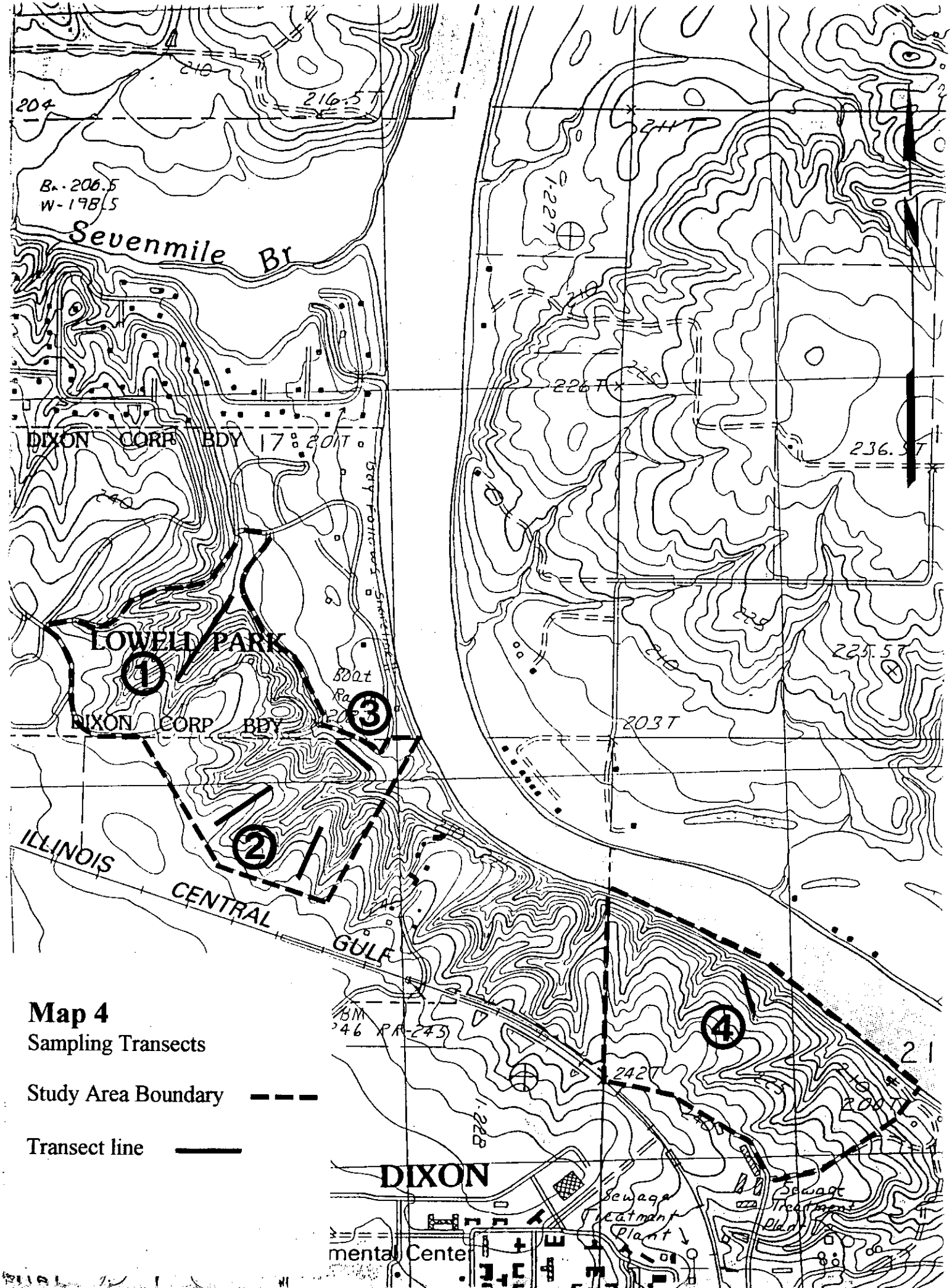


Map 3
Forest Communities

Study Area Boundary

Mesic upland forest

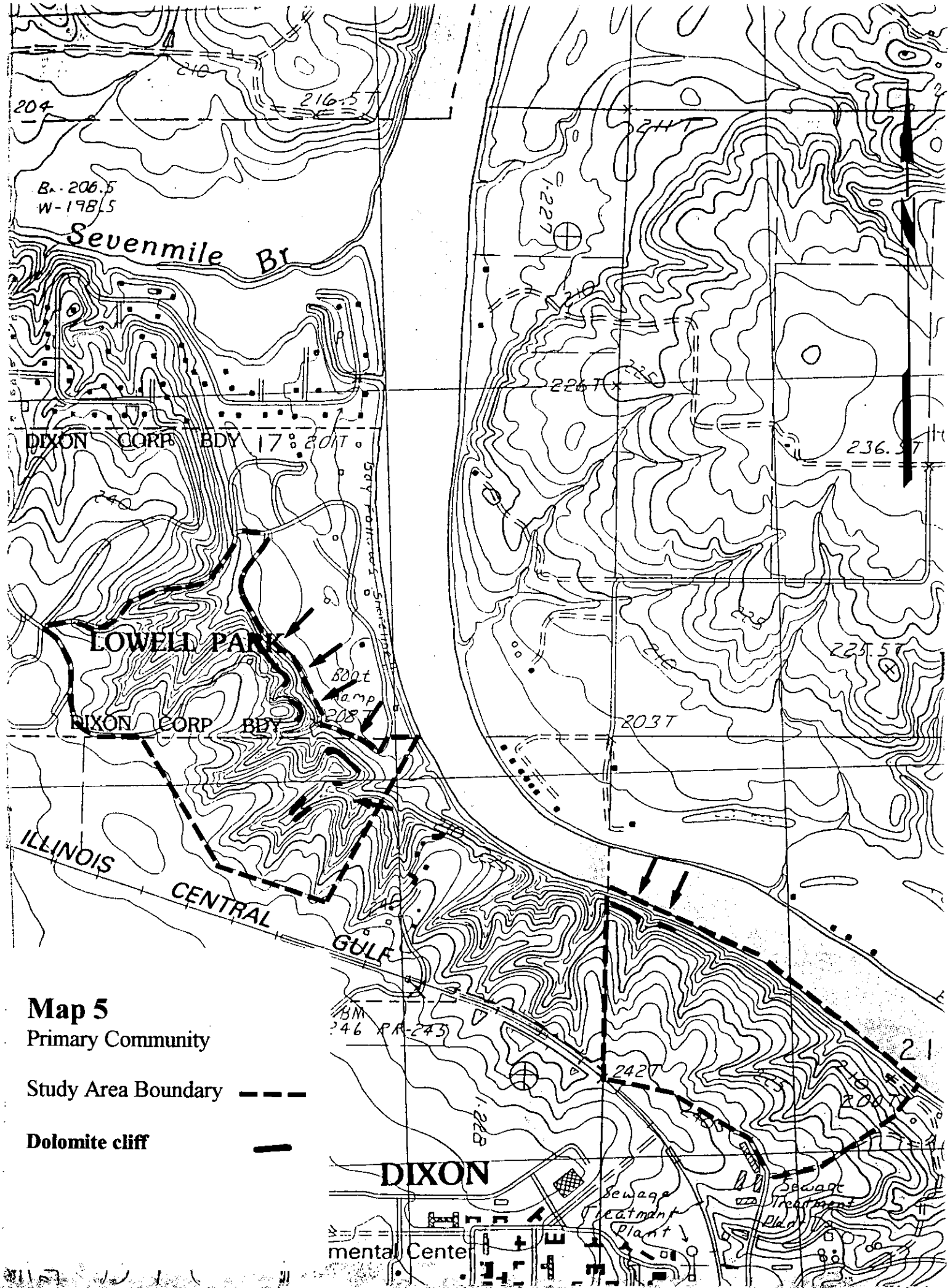
Dry-mesic upland forest



Map 4
Sampling Transects

Study Area Boundary

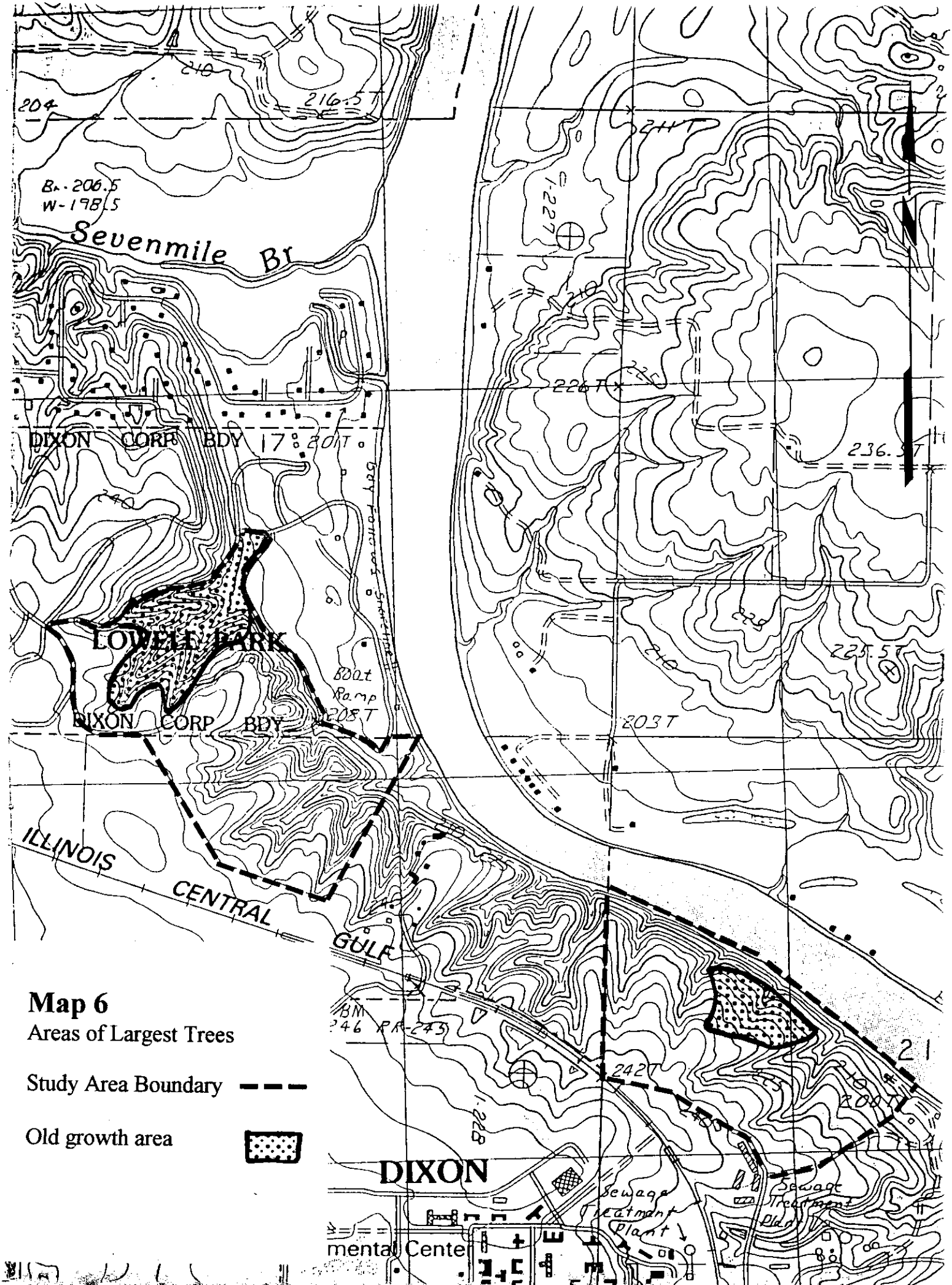
Transect line



Map 5
Primary Community

Study Area Boundary

Dolomite cliff



Map 6
Areas of Largest Trees

Study Area Boundary

Old growth area

mental Center