[cover page]

LAND CAPABILITY/SUITABILITY STUDY LOS ANGELES COUNTY GENERAL PLAN REVISION PROGRAM FINAL REPORT

ENVIRONMENTAL SYSTEMS RESEARCH INSTITUTE

LOS ANGELES COUNTY DEPARTMENT OF REGIONAL PLANNING

[title page]

LAND CAPABILITY/SUITABILITY STUDY LOS ANGELES COUNTY GENERAL PLAN REVISION PROGRAM FINAL REPORT

Prepared for Los Angeles County Department of Regional Planning

By Environmental Systems Research Institute

Redlands, California

and Livingston and Associates

San Francisco, California

[table of contents page]

TABLE OF CONTENTS

NIRODUCTION			1
Chapt	er I: Lanc	Capability/Suitability Analysis	11
A.	Backgr	ound and Precedent	11
В.	Alterna	ative Approaches to Land Capability/Suitability Analysis	14
	1.	Alternative Techniques for Recording, Analyzing, and Displaying Data	15
	2.	Utilization of Computerized Data	19
C.	C. Definition and Scope of the Land Capability/Suitability Study		21
	1.	Definition of Land Capability/Suitability	21
	2.	Scope of the Land Capability/Suitability Analysis	21
		a. Basic Data Maps	23
		b. Interpretive Maps	29
		c. Composite Map	34
D.	Approa	ach and Methodology for Establishing Land Capability/Suitability	35
	1.	Concept of Land Capability/Suitability	35

E. F.	 Operational Method for Generating Land Capability/Suitability Information General Land Suitability for Development Classes Use of Land Capability/Suitability Maps Environmental Considerations vs, Socio-Economic Considerations in Planning	37 41 48 48 48 49 50 50 51		
Chapter II: Criteria/Guidelines for Preserving Significant Ecological Areas 54				
B. C. D.	0	54 58 68 72 77		
Chapte Use Ele	r III: Guidelines for Utilizing Environmental Data in Preparing Conservation, Open Space, ments	and Land 82		
A. B.	Introduction Guidelines and Standards 1. Land Capability/Suitability Guidelines a. General b. Terrain c. Seismic d. Soil Conditions e. Fire Hazard, Erosion Potential, Flood Hazard f. Watershed g. Mineral and Agricultural Resources h. Significant Ecological Areas i. Coincident Environmental Constraints 2. Land Capability/Suitability Standards	82 84 89 90 90 91 91 92 92 92 92		
	RES, CHARTS, TABLES and MAPS - Land Capability/Suitability Analysis and Application	4		
Figure	I - Mapping and Modeling Sequence	39		
· ·	- General Land Suitability for Development: Primary Model	44		
Table I - Environmental Factors Encompassed by Land Capability/Suitability Analysis				
Table II Suitabi	- Indices for Assignment of Land Uses and Intensities of Development According to Deve lity	lopment 95		

Table III - Land Uses and Development Suitability Classes Standards	100
Map I - General Land Suitability for Development: South County	8
Map II - General Land Suitability for Development: North County	9
Map III - General Land Use: Malibu Module	25
Map IV - Landform and Slope: Malibu Module	26
Map V - Vegetation: Malibu Module	27
Map VI - Significant Ecological Areas: Malibu Module	28
Map VII - Capability for Development Considering Interpretations of Seismic and Geologic Conditional Module	tions: 30
Map VIII - Capability for Development Considering Interpretations of Soil Conditions: Malibu Mo	dule 31
Map IX - Capability for Agriculture: Malibu Module	32
Map X - General Land Suitability for Development: Malibu Module	33
Map XI - Significant Ecological Areas	60
Map XII - Significant Ecological Areas	61

LAND CAPABILITY/SUITABILITY STUDY

LOS ANGELES COUNTY GENERAL PLAN REVISION PROGRAM

- VOLUME I: SUMMARY REPORT
- VOLUME II: TECHNICAL REPORT
- VOLUME III: SIGNIFICANT ECOLOGICAL AREAS REPORT
- VOLUME IV: CULTURAL HERITAGE RESOURCES REPORT
- Environmental Systems Research Institute Redlands, California
 - Jack Dangermond, President William Derrenbacher, Project Coordinator Michael Miller,
 Map Production Manager, Glenn Huibregtse, Computer Programmer
- Livingston and Associates San Francisco, California
 - o Lawrence, Livingston, Jr., President
- Area Information Systems Crestline, California
 - o Eric Harnden, President
- England and Nelson, Biological Consultants Riverside, California
 - Sidney England, Partner
 - o Steven Nelson, Partner
- Archaeological Research Unit University of California Riverside, California
 - Van Eggers, Consultant