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#### ABSTRACT

This document is intended to serve as a guide for institutions in the development of data bases to support the implementation of planning and management systems. This publication serves to identify and describe those facilities-related data elements: (1) required to support current National Center for Higher Education Management Systems (NCHEMS) products; (2) anticipated as being required for future NCHEMS products; and (3) commonly maintained by institutions for operational and reporting purposes. It should be emphasized that the data categories and definitions suggested represent common usage except in those identified instances for which accepted national standards exist. (Author/HS)



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# **DATA ELEMENT DICTIONARY: FACILITIES**

Second Edition **Technical Report 30** 

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National Center for Higher Education Management Systems WICHE at

PRELIMINARY

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- . . . to increase educational opportunities for westerners.
- . . . to expand the supply of specialized manpower in the West.
- . to help universities and colleges improve both their programs and their management.
- . . to inform the public about the needs of higher education.

The Program of the National Center for Higher Education Management Systems at WICHE was proposed by state coordinating agencies and colleges and universities in the West to be under the aegis of the Western Interstate Commission for Higher Education. The National Center for Higher Education Management Systems at WICHE proposes in summary:

To design, develop, and encourage the implementation of management information systems and data bases including common data elements in institutions and agencies of higher education that will:

- provide improved information to higher education administration at all levels.
- facilitate exchange of comparable data among institutions.
- facilitate reporting of comparable information at the state and national levels.

DATA ELEMENT DICTIONARY: FACILITIES

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Second Edition

Technical Report No. 30

1972

James S. Martin

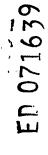
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#### ABSTRACT

The preliminary draft of the second edition of the <u>Data Element Dictionary</u> has been prepared by the NCHEMS staff under the guidance of the project Task Force. The Task Force has reviewed this document and has recommended that it be distributed to the higher education community for purposes of soliciting comments and suggestions for improvements.

This document is intended to serve as a guide for institutions in the development of data bases to support the implementation of planning and management systems. This publication serves to identify and describe:

- 1. Those data elements required to support current NCHEMS products.
- Certain data elements anticipated as being required for future NCHEMS products.
- Certain data elements commonly maintained by institutions for
  operational and reporting purposes.

It should be emphasized that the data categories and definitions suggested represent common usage except in those identified instances for which accepted national standards exist, e.g., U.S. postal code abbreviations for states of the U.S. and zip codes. In those few cases where more than one set of categories and definitions are commonly used, alternative choices have been provided.

Since the primary intent of this document is the <u>identification</u> of data elements, many of the data elements specify <u>institutionally</u> defined categories.

The definitions of data elements included in this publication will be revised to reflect the development of <u>standard</u> definitions arising out of activities in other NCHEMS projects and elsewhere.

It should also be emphasized that this document does <u>not</u> contain the complete list of data elements that should be included in an institutional data system. Unique institutional requirements will mandate the inclusion of other elements.

#### PREFACE

The preliminary draft of the second edition of the <u>Data Element Dictionary</u> has been propared by the NCHEMS staff under the guidance of the Data Element Dictionary Task Force. The Task Force has reviewed this document and has recommended that it be distributed to the higher education community for the purposes of soliciting comments and suggestions for improvements.

We urge the readers to review this document and forward their comments, criticisms, and suggestions directly to the author or members of the staff by March 1, 1973.

Ben Lawrence Director



#### . ACKNOWLEDGMENTS

This second edition of the <u>Data Element Dictionary</u> is the product of the efforts of many individuals. In particular, we are indebted to the members of the Data Element Dictionary Task Force, who generously contributed their time and efforts in the development of this edition:

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Also contributing to the development of this edition of the <u>Data Element</u> <u>Dictionary</u> were the following members of the staff of the National Center for Higher Education Management Systems: Dave Clark, William Collard, Michael Haight, Richard Johnson, Dennis Jones, Charles Manring, Marilyn McCoy, Glen Miyataki, Leonard Romney, Robert Wallhaus, and Paul Wing.

In addition, we are indebted to Charles R. Thomas, Executive Director, College and University Systems Exchange, for his suggestions during the preparation of this document.



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# CHAPTER I

#### INTRODUCTION

The primary mission of the National Center for Higher Education Management Systems (NCHEMS) at WICHE is to assist higher education institutions and agencies with the development of improved resource allocation and management systems.

To meet these objectives, the Center has undertaken the development of:

- i. Procedures for making information available to assist higher education administrators with internal management.
- 2. Analytical methods and tools.
- Procedures to facilitate the exchange of comparable data among institutions and agencies of higher education.

The purpose of these procedures and tools will be to assist decision makers in institutions and agencies of higher education in improved analysis, planning, and resource allocation.

All of the developmental tasks mentioned above require the availability of data. Because of this requirement, many institutions can use guidance in identifying those data that should be available. The <u>Data Element Dictionary</u> (DED) is an attempt to respond to this need.

This publication serves to identify and describe:

- 1. Those data elements required to support current NCHEMS products.
- Certain data elements anticipated as being required for future NCHEMS projects.
- 3. Certain data elements commonly maintained by institutions for operational and reporting purposes.

The first edition of the <u>Data Element Dictionary</u> (Thomas, 1970) was the first product produced by the Center and as such concentrated on forecasting data elements that would be supportive of other NCHEMS efforts in the area of developing planning and management systems. The second edition of the <u>Data</u> <u>Element Dictionary</u> has incorporated changes to the first edition resulting from:

- 1. Reactions to the first edition by the higher education community.
- 2. The development of other related NCHEMS products.
- 3. Further efforts of the DED Task Force and Center staff in developing data bases for higher education information systems.

Elements appearing in the first edition of the <u>Data Element Dictionary</u> have been retained with the exception of a few data elements that the Data Element Dictionary Task Force felt were no longer appropriate.

Since the primary intent of this document is the identification of data elements, many of the data elements specify institutionally defined categories, i.e.,

values and definitions of those values within each data element. Data categories and definitions suggested represent common usage except in those identified instances for which national standards exist, e.g., U.S. postal code abbreviations for states of the U.S. and zip codes. In those few cases where more than one set of categories and definitions are commonly used, alternative choices have been provided.

The definitions of data elements included in this publication will be revised when appropriate to reflect the development of standard definitions arising out of activities in other NCHEMS projects and elsewhere. In particular, the Information Exchange Procedures project will be specifying values and definitions of those values for many of the data elements.

This document does not contain the complete list of data elements that should be included in an institutional data system. Unique institutional requirements will mandate the inclusion of other elements.

An attempt has been made to restrict the <u>Data Element Dictionary</u> to only basic elemental (i.e., nonderivable) data elements. In a few cases where derived data elements were typically found to be stored by many institutions, these have also been included.

The complete <u>Data Element Dictionary</u> will be released in the five sections listed below:

- 1. Course-Related Elements
- 2. Facilities-Related Elements
- 3. Finance-Related Elements
- 4. Staff-Related Elements
- 5. Student-Related Elements

These five sections do not represent specific institutional files; rather, they represent logical groupings of data items that are separated for purposes of presentation.



#### CHAPTER II

#### DICTIONARY ORGANIZATION AND FORMAT

This section of the <u>Data Element Dictionary</u> contains the data elements pertaining to the physical facilities of an institution.

For purposes of the <u>Data Element Dictionary</u>, a <u>facility</u> is defined as: Any physical structure or space required by the institution for the performance of its programs and related activities. Included are parking areas, outdoor playing areas, buildings, parks, rooms, service areas, agricultural fields, and landscaped areas. In addition, a <u>building</u> is defined as:

One type of facility; a structure with a floor and a roof for permanent or temporary shelter - persons, animals, or equipment. Also, a room is defined as:

A walled or partitioned usable space within a building which has 6'6" headroom or greater, which has walking access, and which can be occupied.

The definitions contained within this document are consistent with those found in the <u>Higher Education Facilities Inventory and Classification Manual</u> (Romney, 1972) and <u>Classification of Building Areas</u> (1964). The facilitiesrelated data elements identified in this section of the <u>Data Element Dictionary</u> have been grouped into three data blocks for convenient presentation and examination. The numbers attached to the elements are intended only to facilitate identification and location of the elements and have no implication for standard coding practices. The three blocks of facilities-related data elements are:

#### 1. 001 - 099 Facility Data

1

This block of data elements is designed to describe characteristics common to each facility of the institution. <u>Note</u> - The data elements included within this block are typically related to those facilities that are buildings. However, many of these elements may also be applicable to other types of facilities. Data elements that are unique to nonbuilding facilities have <u>not</u> been included.

#### 2. 101 - 199 <u>Building Data</u>

This block of data elements contains descriptive characteristics applicable to each building of the institution.

#### 3. 201 - 299 <u>Room Data</u>

This block of data elements contains descriptive characteristics of assignable interior spaces of a building, i.e., each room within each building.

Facilities that are not buildings would have only the Facility block of data elements associated with them. However, facilities that are buildings would have the Facility Data block, Building Data block, and Room Data block associated with them. For each building, there would normally be a multiple of Room Data blocks associated with it. The description of each data element contains the following information:

- ELEMENT NUMBER A three-digit number to identify each data element. The first digit of the element number defines the appropriate data block to which the data element is assigned. The other two digits merely provide a sequential identification of the data element within that data block.
  - 2. ELEMENT TITLE A brief identification of the data element.
  - 3. DEFINITION A brief description of the data element.
  - CODES OR RECORDING INSTRUCTIONS A description of the suggested codes or recording instructions, if appropriate. May also include detailed categorical definitions.
  - 5. USES An identification of various NCHEMS products that require or are likely to require this data element in the future, either where it is required in its absolute form or where it is required to derive another data element used by an NCHEMS product. Most data elements fall into this latter category. In addition, those elements required for completion of the Higher Education General Information Survey (HEGIS) are identified.

The following abbreviations are used to describe the various NCHEMS products:

 Cost Finding Principles
 Higher Education Facilities Inventory and Classification Manual
 FICM

Higher Education Facilities Planning and Management Manuals	SAM
Information Exchange Procedures	IEP
Program Measures	PM

- 6. COMMENTS Additional information that may be required to further define the data element, justify its inclusion, identify its relationship to other data elements, or identify the source of data category definitions.
- 7. DATE ISSUED Indicates calendar date that NCHEMS released this version of the data element. Institutions may wish to use this space for those data elements they have added to the <u>Data Element Dictionary</u>.



# CHAPTER III INDICES

ALPHABETICAL INDEX

Data Element	DED No.	Page
Actual Number of Stations	206	48
.Assignable Area	101	31
Assignable Square Feet	203	45
Circulation Area	104	34
Condition	009	25
Current Book Value	007	23
Custodial Area	103	33
Estimated Replacement Cost	005	21
Facility Identifier	001	17
Facility Inventory Date	012	28
Facility Name	002	18
Facility Name Abbreviation	003	19
Functional Suitability - Facility	010	26
Functional Suitability - Room	209	51
Gross Area .	004	20
Initial Occupancy Date	107	37
Location	011	27
Mechanical Area	105	35
Nonassignable Area	102	32

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Data Element	DED No.	Page
Number of Levels	108	38
Optimum Number of Stations	207	49
Organizational Unit	204	46
Ownership	008	24
Program Identification	205	47
Room Accessibility	210	52
Room Identifier	201	43
Room Inventory Date	212	54
Room Use	- 202	44
Special Features	211	53
Station Type	208	50
Structural Area	106	36
Structural Type	109	39
Year of Construction	006	22



NCHEMS PRODUCT INDEX

NCHEMS PRODUCT	DATA ELEMENT	DED NO.
COST FINDING PRINCIPLES (CFP)	Current Book Value	007
HIGHER EDUCATION FACILITIES INVEN- TORY AND CLASSIFICATION MANUAL (FICM)	Assignable Area Assignable Square Feet Circulation Area Condition Custodial Area Estimated Replacement Cost Facility Identifier Facility Inventory Date Facility Name Gross Area Mechanical Area Nonassignable Area Optimum Number of Stations Organizational Unit Ownership Program Identification Room Identifier Room Inventory Date Room Use Structural Area Year of Construction	101 203 104 009 103 005 001 012 002 004 105 102 207 204 008 205 201 212 202 106 006
HIGHER EDUCATION FACILITIES PLANNING AND MANAGEMENT MANUALS (SAM)	Assignable Area Assignable Square Feet Condition Facility Identifier Facility Inventory Date Facility Name Functional Suitability - Facilty Functional Suitability - Room Gross Area Nonassignable Area Optimum Number of Stations Organizational Unit Program Identification Room Identifier Room Inventory Date Room Use Station Type	101 203 009 001 012 002 010 209 004 102 207 204 205 201 212 202 208

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NCHEMS PRODUCT	DATA ELEMENT	DED NO.
INFORMATION EXCHANGE PROCEDURES (IEP)	Assignable Area Assignable Square Feet Condition Estimated Replacement Cost Gross Area Ownership Program Identification Room Use Year of Construction	101 203 009 005 004 008 205 202 006
PROGRAM MEASURES (PM)	Actual Number of Stations Assignable Square Feet Program Identification Room Use	206 203 205 202



HEGIS INDEX

<u>Data Element</u>	DED No.
Assignable Square Feet	203
Current Book Value	• 007
Room Use	202



# CHAPTER IV

# FACILITIES-RELATED ELEMENTS

# Facility Data

<u>DED No</u> .	Title
001	Facility Identifier
002	Facility Name
003	Facility Name Abbreviation
004	Gross Area
005	Estimated Replacement Cost
006	Year of Construction
007	Current Book Value
008	Ownership .
009	Condition
010	Functional Suitability - Facility
011	Location
012	Facility Inventory Date



### DATA ELEMENT DICTIONARY Facilities Related Data Elements



ELEMENT TITLE

Facility Identifier

# DEFINITION:

An institutionally defined unique identifier assigned to each facility in an inventory.

CODES OR RECORDING INSTRUCTIONS:

USES	SAM, FICM	 
COMMENTS		 

This is a linking element to the Course and Staff sections.



DATE ISSUED September 1972



# DATA ELEMENT DICTIONARY Facilities Related Data Elements

ELEMENT TITLE	Facility Name	
---------------	---------------	--

# DEFINITION:

The official institutional name for the facility.

# CODES OR RECORDING INSTRUCTIONS:

Literal name.

USES	SAM, FICM	 	
COMMENTS:			
DATE ISSUED	September 1972	 	

# DATA ELEMENT DICTIONARY Facilities Related Data Elements



ELEMENT TITLE

Facility Name Abbreviation

# DEFINITION:

An abbreviation of the name of the facility.

CODES OR RECORDING INSTRUCTIONS:

USES	 		 	
COMMENTS:			 	 



# 004 ELEMENT NUMBER

National Center for Higher Education Management Systems

### DATA ELEMEN' DICTIONARY Facilities Related Data Elements

ELEMENT TITLE

Gross Area

#### DEFINITION:

The total sum of the area of the facility included within its boundaries. For buildings, the gross area is equal to the sum of the assignable area and the nonassignable area included within the outside faces of exterior walls for all stories or areas that have floor surfaces.

# CODES OR RECORDING INSTRUCTIONS:

.

Actual gross area square footage. (Buildings)

Actual acreage. (Land)

USES	FICM, SAM, IEP		 	
COMMENTS:			 	
			•	
DATE ISSUED	September 1972			
		20		

### DATA ELEMENT DICTIONARY Facilities Related Data Elements



ELEMENT TITLE

Estimated Replacement Cost

#### DEFINITION:

The estimated cost to replace the facility at the time of the inventory, usually determined in terms of the cost to replace the facility\* at current construction rates, and in accordance with current facility codes and standard construction methods, and current accepted practices and policies of the institution.

# CODES OR RECORDING INSTRUCTIONS:

Actual dollar amount (rounded to nearest whole dollar).

USES	FICM, IEP
COMMENTS:	
*If the facili in terms of t floor area.	ty is a building, the estimated replacement cost should be determined he cost to replace an equivalent amount of the building's assignable
DATE	September 1972



### DATA ELEMENT DICTIONARY Facilities Related Data Elements

ELEMENT TITLE Year of Construction

#### **DEFINITION:**

The calendar year in which the original facility was completed regardless of any later date of occupancy, as in the case of leased or rented facilities.

### CODES OR RECORDING INSTRUCTIONS:

Three low-order digits of calendar year, e.g., 1972 = "972"

USES	FICM, IEP		 	
COMMENTS:			 	
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DATE ISSUED	September 1972		 	
		22		

### DATA ELEMENT DICTIONARY Facilities Related Data Elements



ELEMENT TITLE Current Book Value	ELEMENT TITLE	Current Book Value		
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### DEFINITION:

That dollar amount carried by the institution on its financial records as the book value of the facility.

# CODES OR RECORDING INSTRUCTIONS:

Actual dollar amount (rounded to nearest whole dollar).

USES	CFP, HEGIS
COMMENTS:	
Capital improv	ements would usually increase the book value of the facility.





## DATA ELEMENT DICTIONARY Facilities Related Data Elements

ELEMENT TITLE	Ownership	

1

### DEFINITION:

The agency with which the title to the facility rests.

# CODES OR RECORDING INSTRUCTIONS:

Code	Category/Definition
1	Owned Fee Simple.
2	Title vested in the institution and being paid for on an amortization schedule (regardless of whether the facility is shared with another institution or organization).
3	Title vested in a holding company or building corporation to which payments are being made by the institution; title will ultimately pass to the institution; contract arrangements.)
4	Not owned by the institution, but leased or rented to the institution at a typical local rate.
5	Not owned by the institution, but made available to the institution either at no cost or at a nominal rate.
6	Not owned by the institution, but shared with an educational organization that is not a postsecondary institution.
7	Not owned by the institution, but shared with another postsecondary educa- tional institution.

USES FICM, IEP

# COMMENTS:

The above categories and definitions are those recommended in the <u>Higher Education</u> Facilities Inventory and Classification Manual (Romney, 1972).



DATE ISSUED September 1972

### DATA ELEMENT DICTIONARY Facilities Related Data Elements



### ELEMENT TITLE

Condition

#### DEFINITIÓN:

The physical status and quality of the facility at the time of the inventory, based upon the best judgment of those responsible for campus development.

### CODES OR RECORDING INSTRUCTIONS:

Code	Category	Definition
1 2	Satisfactory Remodeling-A	Suitable for continued use with normal maintenance. Requires restoration to present acceptable standards without major room use changes, alterations, modernizations, or ex- pansion. The approximate cost of Remodeling A is not greater
3	Remodeling-B	than 25% of the estimated replacement cost of the facility. Requires major updating and/or modernization of the facility. The approximate cost of Remodeling B is greater than 25%, but not greater than 50% of the estimated replacement cost of the facility.
4	Remodeling-C	Requires major remodeling of the facility. The approximate cost of Remodeling C is greater than 50% of the replacement cost of the facility.
5	Demolition	Should be demolished or abandoned because the facility is unsafe or structurally unsound, irrespective of the need for the space or the availability of funds for a replacement. This category takes precedence over categories 1, 2, 3, & 4. If a facility is scheduled for demolition, its condition is recorded as "demolition," regardless of its condition.
6	Termination ·	Planned termination or relinquishment of occupancy of the facility for reasons other than unsafeness or structural unsoundness, such as abandonment of temporary units or vacation of leased space. This category takes precedence over 1, 2, 3, & 4. If a facility is scheduled for termination, its condition is recorded as "termination," regardless of its condition.

#### UŞES

SAM. FICM. IEP

#### COMMENTS:

The above categories and definitions are those recommended in the <u>Higher Education</u> <u>Facilities Inventory and Classification Manual</u> (Romney, 1972). Many of these categories would be applicable only to buildings.





DATA ELEMENT DICTIONARY Facilities Related Data Elements.

ELEMENT TITLE Functional Suitability - Facility

### DEFINITION:

An institutionally defined rating for the appropriateness of the facility for its assigned activities; e.g., satisfactory, needs major renovation, inadequate for this program, etc.

CODES OR RECORDING INSTRUCTIONS:

٩	USES		SA	M									
	COMMENTS	S: -											_
	This data Room).	element	may	take	precedence	over	data	element	209	(Functional	Suitabi	lity -	-

DATE ISSUED September 1972

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### DATA ELEMENT DICTIONARY Facilities Related Data Elements



ELEMENT TITLE

Location

### DEFINITION:

An institutionally defined code for the location of the facility. The level of detail should be determined by each institution. Would include campus designation, if appropriate.

# CODES OR RECORDING INSTRUCTIONS:

For campus designation, it is recommended that institutions use the six-digit numeric code defined by the Federal Interagency Committee on Education (FICE) and published by the U. S. Office of Education in the "Higher Education Directory."

USES		
. COMMENTS:		,
May be in term	ns of campus grid coordinates.	
DATE ISSUED	September 1972	

012 ELEMENT NUMBER National Center for Higher Education Management Systems

### DATA ELEMENT DICTIONARY Facilities Related Data Elements

ELÈMENT TITLE

Facility Inventory Date

### DEFINITION:

The calendar date when this facility was added to the inventory or when the inventory for this facility was updated.

## CODES OR RECORDING INSTRUCTIONS:

Six-digit numeric code - YYMMDD

See Appendix 1.

USES	FICM. SAM	
COMMENTS:		
DATE ISSUED	September 1972	