### REPORT RESUMES

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THE COMPUTER AS A MANAGEMENT TOOL--PHYSICAL FACILITIES INVENTORIES, UTILIZATION, AND PROJECTIONS. 11TH ANNUAL MACHINE RECORDS CONFERENCE PROCEEDINGS (UNIVERSITY OF TENNESSEE, KNOXVILLE, APRIL 25-27, 1966). By- WITMER, DAVID R. TENNESSEE UNIV., KNOXVILLE

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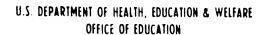
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WISCONSIN STATE UNIVERSITIES HAVE BEEN USING THE COMPUTER AS A MANAGEMENT TOOL TO STUDY PHYSICAL FACILITIES INVENTORIES, SPACE UTILIZATION, AND ENROLLMENT AND PLANT PROJECTIONS. EXAMPLES ARE SHOWN GRAPHICALLY AND DESCRIBED FOR DIFFERENT TYPES C. ANALYSIS, SHOWING THE CARD FORMAT, CODING SYSTEMS, AND PRINTOUT. EQUATIONS ARE PROVIDED FOR DETERMINING STANDARD AND POTENTIAL UTILIZATION, AND CLASS ENROLLMENT PROJECTIONS. IMPLICATIONS ARE NOTED FOR THE USE OF COMPUTERS IN THE PLANNING PROCESS AND FOR THE TECHNIQUES BEING USED. ADDITIONAL PROBLEMS DISCUSSED INCLUDE COMPUTER APPLICATIONS IN SPACE CONVERSION, LABORATORY AND LIBRARY PLANNING, OFFICE SPACE, AND DEPARTMENTAL ORGANIZATION. (MM)

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THE COMPUTER AS A MANAGEMENT TOOL -

PHYSICAL FACILITIES INVENTORIES, UTILIZATON,

AND PROJECTIONS

David R. Witmer

April 25-27, 1966 Tith annual MACHINE RECORDS CONFERENCE PROCEEDINGS

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### FOREWORD

The papers to be presented at the Eleventh Machine Records Conference have been collected into this volume. The purpose of this volume of Proceedings is to place into the hands of those attending the Conference the presentations of the speakers in order that exhibits and hand outs may be readily available. In addition, a secondary purpose has been to make all the papers available to institutions which did not have sufficient representatives present to attend every session.

In order to place this document in your hands at the time of registration, no attempt has been made to edit the papers. This has reduced the chance of misinterpretation on our part. The papers, as submitted by their authors, have been photographed and multilithed.

This volume contains all papers on hand one month prior to the Conference. If additional papers become available, we hope to collect and to send them on to you as a supplement to this volume.

The Conference gratefully acknowledges and thanks the International Business Machines Corporation for underwriting the cost of this publication.

Chairmen 11th Machine Records Conference



# THE COMPUTER AS A MANAGEMENT TOOL PHYSICAL FACILITIES INVENTORIES, UTILIZATION, AND PROJECTIONS

David R. Witmer

Board of Regents
Wisconsin State Colleges

WISCONSIN STATE UNIVERSITIES CAN, AND DO! George Bernard Shaw's dictum, "those who can, do, those who can't teach," was given the lie last Wednesday afternoon as a "1410" in the state computer center ingested a diet of data describing the program and physical facilities at Wisconsin State University-Oshkosh. Three hours later it spued forth the results of the most complex series of computations ever run in the center. Comparable data for Stout State University and the Wisconsin State Universities at Eau Claire, La Crosse, Platteville, River Falls, Stevens Point, Superior, and Whitewater will be processed later this month. Colleges and universities have been teaching others how to solve management problems on computers for some time. With a few notable exceptions, however, they have made little use of computers in solving administrative problems of their own. "We may be the one additional exception that proves the rule," said Eugene R. McPhee, director of Wisconsin State Universities, "but we feel we have turned a significant corner in the administration of higher education."

The original goal of this project was to program the computer to do what was formerly done by hand. However, as work progressed, refinements and sophisticated projections were incorporated until the project grew far beyond what anyone would try to do without the computer's help.

This project takes the mystery and politics out of the projection of space requirements. By using factors acceptable to the State Building Commission, the Board of Regents, and others, and by drawing utilization data directly from the class master schedule cards actually used at the Wisconsin State Universities, the computer turns out reports and projections that form the basis of decisions which shape the future of the college campuses of the state.



Human effort is not obsoleted by this program. But it is condentrated on making judgments, the direct consequences of which can be foretold. "We now have a better understanding of what needs to be done and what effects our decisions will have," reported McPhee.

Among other things, the computer projects the growth of ind dividual disciplines and departments, then computes space needs based on those projections and the recorded experience in each discipline, to date. Under special circumstances, the computer reveals the consequences of "adjustments" in space factors caused by lags in the building program.

"Because we're an educational institution," McPhee concluded, "we'd be happy to share our experiences with others." Wisconsin State Universities can, do, and teach!

This statement reflects some of the excitement attending our use of the computer in support of our physical facilities program. But it overstates the case. The shift from political "horse trading," "back scratching," and "log rolling" to computer-assisted decision-making does not take place overnight. The basic formulas have been hammered out over a long period of time through the inter-action of the Universities, the Board of Regents, the State Building Commission, and others. Actually, we aren't doing anything with the computer that we couldn't do before with a number two pencil, a big pile of paper, and a lot of time. Fred E. Schwehr, our physical facilities specialist, who was instrumental in building the system of formulas which the computer applies, has a wife who has first hard understanding of a current social problem: She's technologically unemployed! The basement of her house now holds a workshop, family room, etc. . . . the calculator and mountains of data-loaded paper have moved on to a new world.

We have a special problem in resource allocation: "How can limited funds for physical facilities best be allocated and used to meet the program requirements of the nine universities in the system?" In answering this question we, of course, go considerably beyond dividing the pie on the mere basis of "head count," and we stop considerably short of dictating pedagogical philosophy, methods, and techniques.

One further word before we look at the computerized project: This physical facilities allocation system was rationally conceived, organized, and operated before we happened on the scene. Although this is what every systems analyst insists on, experience seldom provides such a happy point of commencement. The big question: "How much does each university, with its schools and departments, need?" has been broken into smaller ones: "What facilities does each program require?" "How much will these specific facilities probably cost?" "Where are the need greatest?" and so forth.

The key to resolving questions like these seems to lie in the process of abstracting them from current, individual interests. Instead of asking "How much money is needed to build a new technology building for Stout?" ask "What facilities does an industrial technology program require? What kinds of laboratories? How many students should each kind of tech lab support? What equipment? How many stations should each kind of lab have? How many square feet will this require?" Only after educators, administrators,

and legislators agree on answers to these small, abstract, and theoretical questions should institutional names, places, and dates be mentioned. After all, it's pretty difficult for a university president to insist on twenty square feet per student station for a forty station general classroom at his institution after agreeing that fourteen is adequate for others.

smashers," and perhaps rightly so! We insist on facts and figures where other men see visions. Consider the typical middle-aged educator with his dreams of an academic edifice. Not only does he see ivy-covered brick among the elms, but he sees entrys, corridors, rooms, ... individual stations in the science labs, students peering through microscopes, light green walls, fixtures and appointments like those at Stevens . . . When we break in on this dream world with all of our measurements and other matters-of-fact, the results are often disillusioning and sometimes traumatic. It's necessary for hard headed people to realize what effects they have; and equally important to recognize that computers, and the "nay-sayers" who run them, seldom build anything. Colleges are founded, and buildings are built, because of the pressures generated by pride, dreams, visions, and the leaders who have them! We dare not forget that.

But you didn't come here to listen to me wax philosophical . . . .

Let's quickly run through this forest of computer, and computer-related,

operations to salvage what we can of the hour, and to stimulate some thoughtful

questions, if that be possible.

In the first phase of this project we collect, record, analyze, manipulate, and print out data concerning the physical facilities we already have. Buildings are numbered, as are rooms and other areas. Each room is measured and classified as to function. See Exhibit 1. Note that room data is punched into 402 and 403 cards. Area is recorded in field 30-34 and in one or more (in the case of proration due to multiple use), of the fields indicating

function: classroom, office, physical plant, etc. When field size is inadequate, 9's are punched on one card and the balance punched on a second card of the same type. The number of student stations is punched in field 35-38. Teaching lab and other instructional space is described in field 8-21, in accordance with the codes at the bottom of Exhibit 1. Department numbers are punched for office, lab, and other instructional space; other areas are not assigned to specific disciplines or activities. Year, field 26-27, is the year in which the card is prepared. Type change, field 28-29, is 1 for Remodeling, 2 for Razed or Sold, 3 for Built or Bought.

These cards, 400, 401, 402, and 403 are sorted and fed into the computer which prints out the Physical Facilities Inventory. See Exhibit 2.

Note that this is the first page of inventory for the Wisconsin State University at Eau Claire. This inventory was run in January, 1966. Building Number 1 is Schofield Hall. Room 1 is the Registrar's office. Room 2 is a women's rest room with some custodial space in it. Room 4 is devoted to research and 9 to physical plant. Room 16 is a business lab of 966 square feet with 30 student stations, which the computer tells us allows 32 square feet per station. Room 19 is a general classroom, 34 is other instructional space which supports the audio-visual lab, and 37 is used by an auxiliary enterprize: the textbook library. Room 72 is a stairwell and so is 77, but 77 is being remodeled at this time. If there had been keypunching errors so that the square feet of floor space had not equaled that reported on the right side of the page, an asterisk would have been printed in that line between the position for department number and square feet of floor space.

Now look at Exhibit 3. Note that there is a summary at the bottom of this page that tells us that Building 9, Science Hall, at WSU-La Crosse, has 218 rooms, including 14 classrooms, 25 labs, 2 phy. ed. areas, 3 rooms devoted to research, and 18 restrooms. The classrooms contain 977 stations with an average of 12 square feet per station. The labs total 486 stations

at an average of 42 square feet per station. Classroom, lab, office, library, auditoria, and other instructional areas were added to total 45,167 square feet of active instructional space. Active non-instructional space totaled 16,230; inactive 18,327; and non-assignable 24,748. The total (net) square feet of floor space is 104,472. A similar summary is produced for every other building and for each university campus as a whole.

The second phase of this project analyzes the utilization of classrooms, labs, and physical education areas. The input is based on class master cards used in registrars' scheduling operations. See form 405, Exhibit 4. As you might guess, the registrars' systems were neither identical nor compatable and it was necessary, therefore, to write conversion programs to get the 405 cards. We even designed a (1230) scanner form which we used to originate this file of data in one case. The basic period here is one week. Days of the week on which the class meets are punched 1 (field 63-68). Length of period is reported in hours (column 69) and tenths of hours (column 70). Hours of the day (field 71-72) are those based on the 24 hour clock, i.e., 1 P.M. = 13.

An example of a Utilization Report is included as Exhibit 5. This report tells us that Room 108 in Barstow Hall (Building 2), at WSU-Superior, is a classroom with 1204 square feet and 77 student stations at 16 square feet each. Fifty-two students enrolled in Biology course number 6 meet in this room at 9:00 every Monday, Wednesday, and Friday for 1 hour. Twenty-four hundred and thirty-six student contact hours are generated in this room each week during a total of 39 periods through the normal day. If all seats had been filled during each period in which classes were held, 3003 contact hours would have been generated. Find 3003 on the right side of the page, labeled "Potential Station Occupancy." Use of this room at the level of agreed upon standards (30 hours per week X .67 X 77 stations) would have generated 1540 student contact hours. The actual utilization (2436) equaled 158% of standard utilization and 81% of the potential station occupancy.

A report of this type is printed for each classroom, lab, and physical education area. Poor scheduling and inadequate use jumps right off the page for those who have learned to understand and use these statistics. Not all classrooms at Superior are this well utilized, but some are used at even higher levels. The standards for phy. ed. areas and laboratories are not the same as those for general classrooms. And lest anyone not conversent with the relationships between quality, scheduling, and space wonder why the standard is not 44 hours a week at 100% of station use, let me say that these standards have been worked out through great effort over the years and will not be lightly laid aside. Check the standards at your institution before you throw stones.

summary report of utilization, part of which is shown in Exhibit 6. We see here that, among other things, Buildin No. 5, Harrington Hall at WSU-Oshkosh, has 186 student stations, in 7 laboratories, 80% of which are occupied, on the average, whenever the labs are used. Labs are used an average of 32.9 hours per week and generate 5633 student contact hours which happens to be 158% of standard utilization. Similar reports are printed for classrooms, phy. ed. areas, and all class areas combined.

In the third phase of this project the computer reads the current inventories, utilization data, utilization data from previous years, personnel data, data on planned building and remodelming, enrollment reports, etc.; projects future needs; measures those needs against facilities available or to be available, and predicts shortages and surpluses. For additional input, see Exhibit 4. Card 408 carries data about each university department and activity from the personnel file. Cards 411 and 421 report changes in buildings due to construction, purchase, sale, and razing. Changes in individual rooms are reported on 406 cards. In field 26, classification or type, 1 means classroom, 2 means lab, and 3 means office. Cards 4101 and 102 bring in enrollment reports and projections.



For contact hour projections see Exhibit 7. This table was made during a test run and is generally illustrative of what the computer can do, even though the input was not strictly accurate. Garbage in, garbage out, as you know! In this illustration, scheduled class hours (faculty contact hours) in mathematics total 296 and generate 8365 student contact hours. One of these math classes, with 26 students, is scheduled in a lab. The average number of students per class is 28.

The woods is full of projection formulas. As any good statistician will insist, we must choose the formula which most accurately predicts. For the time being, we use  $/(A-B_*^*C) + (A-D)/ \stackrel{?}{\cdot} 2 = E$  in which A equals the number of student contact hours in the latest year, B equals the student contact hours in the earliest year, C equals the number of years intervening, D equals the contact hours generated in the year preceding the latest, and E equals the projected annual increment of increase . . . or decline. After projecting the annual increment for math, the other disciplines, and the total for all disciplines, the computer projects the total student contact hours by relating future student contact hours to future enrollments in the same way that current contact hours are related to current enrollments. (This ratio, 1:21 in the illustration, 1:16 actually, is fairly constant.) The computer reconciles the two totals by adjusting the former to the latter and then re-projects the student contact hours for each discipline using the ratios developed previously.

Note that in this illustration, total faculty contact hours (or class hours) were projected, but not distributed among the disciplines, Most of the decisions which result in student contact hours are made by members of a relatively large population: students. Most of the decisions which result in bhanges in faculty contact hours (or class hours) are made very deliberately by a small group of deans, chairmen, and teaching faculty. While it is not difficult to predict what a mass of students will do, it would be presumptuous folly to even try to anticipate developments in pedagogical policy.

Although projected changes in physical facilities are reported on 406, 411, and 421 cards, many decision makers need reports of the type shown in Exhibit 8 to keep the information at their fingertips. This exhibit tells us, among other things, that 8698 square feet of space in the Halsey Science Center, formerly allocated to physical plant is going to be converted to classrooms, offices, a small research lab, and other instructional space by the year 1967. It further reveals that a fine arts building with 169,000 square feet of active instructional space should be available in the same year. The computer prints out a separate report like this for each year for which plans are firm; usually not more than three years -- the span from decision day to occupancy day.

The faculty/administration committees that write detailed program statements describing what an academic building must do and how its space must be organized, frequently disagree internally on how many and what size classrooms should be included. For their consideration, the computer projects needs based on the current classroom utilization, organization, and policy. A separate report, parts of two of which are shown in Exhibit 9, is printed for general classrooms and for each of twenty-three kinds of teaching laboratories. Exhibit 9 tells us that classes with more than ten students, but less than 16, which could have fit into general classrooms with 15 stations, met for 108 hours per week in the fall of 1965, and that, if the same proportion of all classes is that size in 1970, 2478 square feet and 8 classrooms will be required. Further it says, based on current plans, that only one classroom with 15 stations (and 271 square feet) will be available in 1970 and that this will be 2207 square feet or 7 classrooms short of what contemporary standards indicate as desirable. Note that the number of classrooms short or over is determined by dividing the number of square feet short or over by the standard (300 = 15 student stations X 20 square feet per station, in this case), rather than by merely subtracting rooms available from rooms requested. I might also 184

reveal, at the risk of providing more detail than you're willing to absorb at this time, that the square footage not provided for in building whole rooms rather than fractions of a room, (107 in this case), is carried up as required square footage to the next size classroom. This latter is in recognition of the fact that it is impossible to have a classroom, with 15 student stations, that will be in existance one-third (107/300) of the time, but it is possible to occasionally schedule a class of 15 in a room with 20 student stations.

Those of you who are interested in the formulas that apply can stop by at the end of the hour.

Turning to the second line from the bottom of Exhibit 9, note that the totals include quantities not shown on this page. Physical education space requirements are calculated by multiplying the projected enrollment by 9.5 square feet.

Laboratories must have support space for storage of supplies, preparation of demonstrations, showing of exhibits, and so forth. We call this "other instructional space," and provide it at the rate of 40% of laboratory space. The computer prints out a summary which indicates surpluses and shortages of such support space by discipline. See Exhibit 10.

the computer applies the following: (See Exhibit 11) Space for reading rooms equals enrollment X 20% X 25 square feet. Stack space equals enrollment X 3 square feet. Office and auxiliary space equals 25% of reading room space. Carrels equal 12½% of graduate enrollment X 20 square feet. The total required is the sum of the preceding. Projections of available space are based on current inventory plus or minus planned changes.

We turn now to the very important matter of providing office space. The market for college faculty is a sellers market today, and will remain so for the foreseeable future. The availability of good offices sometimes marks the difference between success and failure in hiring faculty. See Exhibit 12.



these new faculty in accordance with the projected distribution of student contact hours among the various disciplines, the computer predicts that there will be 44 faculty members in art by 1970 and that they will be supported by four full time staff assistants. This will require 6480 square feet of office space; 135 each. Unless more space is acquired, only 1092 square feet will be available, which is \$358 short of requirements. The 135 provides individual offices of 105-115 square feet each with the excess available for reception areas, conference rooms, etc. Other formulas are used in predicting the growth and needs of the library and the administration.

To assist management in making decisions about how to group departments, and how large to make buildings devoted to particular groups, the computer summarizes space needs by discipline. See Exhibit 13. Note that this time in the case of physics, general classroom and other instructional space is adequate, but lab and office space is so short of needs that a net requirement of 2497 square feet will exist in 1970, 3300 in 1971, 4249 in 1972, etc.

Finally, all space requirements are rolled into a grand summary according to function. Exhibit 14 illustrates this summary for one university in 1967 and 1968. Functions and formulas not previously discussed include that for auditoria: Enrollment X 133 X 17, and that for research labs:  $/(TF X 3) + 15 (RF + \frac{C}{2})/40 - TF = Teaching Faculty, RF = Research Faculty, and G = Graduate students. Functions for which no projections have been programmed include extension, public service, laboratory schools, physical plant operations, circulatory, rest rooms, and custodial service.$ 

We are using the computer as a management tool - not to make original decisions, but to assist human decision makers. It does so primarily by applying and projecting effects of policy previously determined. The computer's printed reports make up only part of what is considered in planning for physical plant.



Decisions concerning new programs; class sizes and characteristics; economical units for design, bidding, and building; and the organization of disciplines are all beyond the purview of the computer as we use it, though we believe this will not always be true.

These are great and golden days for higher education and they happen to coincide with the development of the computer as a management tool. We're using this tool to study physical facilities, costs of instruction, cleaning and housekeeping operations, faculty time utilization, and other matters of interest and concern to management. We invite you to do the same.



TATE UNIVERSITIES WISCONSIN ST Form 24-65

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O TITE	DN UN	SCIENCE BUILDING	F BUIL	DING	`			ASS I	GNABL	ASSIGNABLE FLOOR	SPACE IN SQUARE	N SQUA	RE FEET	_				-1.05	NOTITE STATE
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₩, ji Je	DESCRIPTION	ī	Ħ		/ SQFT (			OFF LIB-	- AUD	1	R RE- EXT	٩	Y LAB	AUX	PHY	U HIO	UDCUN	CIEC RST	T CUST MER
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WISCONSIN STATE UNIVERSITIES
Form 24-65

ERIC

Full Text Provided by ERIC

MULTIPLE-CARD LAYOUT FORM

1965\_ Job No. 2600-300-01 Sheet No. by Schwehr- Witmer- Thass Date July, Spand of Regents of State Colleges
Application Physical Facilities: Otilization and by

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SCONSIN STATE UNIVERSITY - USHKOSH	PHYSICAL FACILITIES UTILIZATION REFORM			) }
LDING NO 5 HARRINGTON HALL	SUMMARY			
LABORATORIES	CLASSROOMS			
SQ FT FLOOR SPACE 5845	SQ FT FLOOR SPACE	ACE 5982	:	1
NO STUD STATIONS 186	6 NO STUD STATIONS	105 SNI		
SQ FT / STU STA 31	SQ FT / STU STA	A. 19		
SQ FT THIS FUNCTION 5845	SQ FT THIS FUNCTION 5982	ICTION 5982		F
NUMBER OF ROOMS	7 NUMBER OF ROOMS	lS 8		
NO ROOMS/PRORATION/ 7.00	0 NO ROOMS/PRORATION/	NTION/ 8.00		

TOTAL DAY CLASSES ONLY GRAND TOT - DAY & EVE	TOTAL PERIODS-FAC TOTAL PERIODS-FAC ULTY CONTACT HRS 346.0	POTENTIAL STATION POTENTIAL STATION  OCCUPANCY 14396 OCCUPANCY 14684	STANDARD STANDARD UTILIZATION 6140	ACTUAL UTILIZATION ACTUAL UTILIZATION TOT STUD CONT HRS 9450 TOT STUD CONT HRS 9576	PERCENTAGE STANDARD PERCENTAGE STANDARD UTILIZATION 154 UTILIZATION 156	PERCENT / STUDENT PERCENT / STUDENT STATIONS USED 66 STATIONS USED 65	AV.ROOM PERIODS AV.ROOM PERIODS
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E EVE	230.2	6536	3568	5633	158	98	:
GRAND TOT - DAY & EVE	TOTAL PERIODS-FAC ULTY CONTACT HRS 230.2	POTENTIAL STATION OCCUPANCY	STANDARD UTILI ZATION	ACTUAL UTILIZATION TOT STUD CONT HRS	PERCENTAGE STANDARD UTILIZATION	PERCENT / STUDENT STATIONS USED	AV.ROOM PERIODS
ILY	230.2	6536	3568	5633	158	86	
TOTAL DAY CLASSES ONLY	TOTAL PERIODS-FAC ULTY CONTACT HRS 230.2	POTENTIAL STATEON OCCUPANCY 6	STANDARD UTILIZATION	ACTUAL UTILIZATION TOT STUD CONT HRS	PERCENTAGE STANDARD UTILIZATION	PERCENT / STUDENT STATIONS USED	AV.ROOM PERIODS



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EBRUARY	77	GKD U-	750 1	FAC	2 952	-	140 1	25 5	246 2 121 1	21	Į	113	33	22	84 1	48	152	258	7298 25	11329	30		
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	TO BE KEMUDLED USHALSEY SCIE	TO BE KAZEUZSU	TO EC CLT/PUR OI FINE ARTS	·	TO BE REMUDLED OS MALSLY SCIE	TO BE KAZEU/SU	TO BE OLITIOUR 31 FINE ARTS				

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	73-7 ND RMS RQUIRD	10 2167	11 3280	15 4556	3455	30 13351	37 1961 7	42 25469	61 41148	2 <del>6</del> 19062	17	11501	6 5430	4040	8 8992	7442	7214	0000
	CTED -SHORT &OVER	-9 -1931	-9 -2727	-9 -2687	-6 -2409	-11754	-31 -16325	-31	-53 -35556	-18 -13705	-6 -5358	-1767	-4 -3974	1360	-1 -2250	-3151	1052	
	SQ FT -SHO AVLBLE & CV	2 49	27.1	1477	2 748	447	3 1602	10	2047	3715	10 7933	8743	2 988	5053	5967	3650	4 7646	
	ND RMS. RQUIRD	9 1980	10 2998	14	3157	27	34	39 23275	56 37603	23	16 13291	12 10510	4962	3692	8217	4 6801	4 6593	
	CTED -SHORT &OVER	-8 -1757	-8 -2463	-8 -2321	- <del>-</del> 6	-23 -10682	-28 -14750	-28 -16455	-47	-12175	-5 -4191	-1	-3 -3538	0	0	-2554	1631	
	2 PROJE /SQ FT AVLBLE	2 49	271	1477	748	1441	3	10	4 2047	3715	10	11 8743	2 988	6 5053	5967	3650	4 7646	
	71-7. NO RMS. RQUIRD	9	9 2734	12 3798	8 2880	25	31 16352	35	51 34300	21 15890	15 12124	10	5 4526	3368	6 7495	6204	3 6014	
	CTED -SHORT &OVER	-1587	-7 -2207	-1964	-5 -1862	-21	-25 13215	-24	-29034	-14 -10683	-5053	55	-3 -3113	1002	0 -825	-1971	2196	
	1 PRUJE /SQ FT AVLBLE	2 49	271	1477	2 748	1 441	3	10	2047	3715	10 7933	8743	2 988	6 5053	5967	3650	4 7645	
	70-71 I ND RMS/SQ RQUIRD AVI	8 1636		3441	7 2610	22 10084	29 14817	32 19238	45 31081	19 14398	13	10 8687	4 4101	3051	5 6792	5621	3 5449	
) )	/ THIS YEAR / STU STA NO PER RM CLS	10 107.0	15 108.0	20 150.0	25 91.0	30 293.0	35 369.0	40 419.2	45 602.0	50 251.0	55 174•1	60 126.2	65 55.0	70 38.0	80 74.0	100 49.0	125 38.0	

40947 -131267

40947 -114102 172215

40947 -100745 155049

40947 -88291 141692

40947 -76169 129238

117116

PHYED TOT

MISCONSIN SIN	SIAIE UNIVERSITI			•											
DE DADTMENT /	7-07	71 PROJE	PROJECTED - SHOPT	71-72	2 PROJE	PROJECTED SHORT	72-73 SO FFFT		PROJECT ED -SHORT	73-7 S0 F	74 PROJE	PROJECTED - SHORT	74-7 SO F	75 PROJE	PROJECTED -SHORT
DISCIPL INE	15	D AVLBLE		RQUIRD	ID AVLBLE		RQUIR	ED AVLBLE		3	O AVLBLE	E &OVER	13	D AVLBLE	1
AGRI	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ART	13620	500	-13120	15030	200	-14530	16478	500	-15978	18032	500	-17532	2002	200	-19529
BIOL	15131	6811	-8320	16698	1189	-9887	18306	6811	-11495	20031	6811	-13220	22251	1189	-15440
BUS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NOR	4901	1462	-3439	2407	1462	- 3945	5930	1462	-4468	6488	1462	-5026	7208	1462	-5746
DKAF	842	212	-630	930	212	-718	1019	212	-807	1116	212	-904	1239	212	-1027
EDUC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GEOL	8170	1365	-6805	9015	1365	-7650	9885	1365	-8520	10815	1365	-9450	12014	1355	-10649
HOME	0	0	0	0	0	0	0		0	0	0	0	0	0	0
LNI	573	618	45	633	618	-15	769	618	-76	759	618	-141	843	618	-225
LANG	0	456	456	0	456	456	0	456	456	0	456	456	0	456	456
MU R	144	912	168	822	912	06	006	912	12	986	912	-74	1095	912	-183
NU P	1918	2147	229	2117	2147	30	2321	2147	-174	2540	2147	-393	2822	2147	-675
PSYC	0 .	0	0	0	3	0	0	0	0	0	0	0	0	0	0
S Р С Н	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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	99-59	19-99	89-19	69-89	01-69	10-11	11-72	12-13	73-74	24-75
READING RM	26875	36000	43665	46725	54500	61640	68020	74575	81605	04906
STACK SPAC	16125	21600	26199	28035	32700	36984	40812	44745	48963	54384
OFF & AUX	6718	0006	10916	11681	13625	15410	17005	18643	20401	22660
CARRELS	122	162	245	200	1050	1325	1600	1875	2200	2812
TOTAL REQ	49840	66762	81.025	86941	101875	115359	127437	139838	153169	170496
TOT AVAIL	26748	26748	26748	91748						
60VER-SHRT	-23092	-40014	-54277	4807						

74-75 PROJECTED	VBLE 8	63 9315 1092 -8223 X	7 945 276 -669 0	19349	11 1620 0 -16	1	18 2565 489 -2076 1	-26	48 7020 1208 -58 4		15 2160 882 -1278	71 10530 684 -9846 7	3 405 0 -405 0	3 405 0	89 13095 1129 -11966 8	63 9315 507 -8808 6	7 0.65
i	-SHORT	-7278	5 -534	-8596	0 -1485	-4318	-1941	-23890 1	-5272	-1824	2 -1008	4 -8766	0 -405	0 -405	9 -10886	17 –7863	010
	SQ FEET RQUIRD AVBLE	8370 1092	810 276	10530 1934	1485 (	5400 1082	2430 489	25920 2030	6480 1208	4455 2631	1890 882	9450 684	405	25	2015 1129	8370 507	
	PER	57	<b>534</b> 6 0	7651 71 10 7	215 10	3913 37 3	671 17 i	5 175	132 44	1419 30 3	873 13 1	1956 64 6	405 3	0 0	9806 81 1 8	7188 57	
JECT ED	VBLE	1092 -6603	5- 912	1934 -76	0 -15	1082 -39	489 -10	2030 -2186	1208 -4	1- 1692	- 885	1- 489	0	0	1129 -9	507 -1	
72-73 PRO	SQ RQUIRD	7695	810	9585	1215	4995	2160	23895	5940	8 4050 2	1755	9 8640	3 405	3 405	4 10935 7	2 7695 5	
	SHORT NO	-5928 52 5	9 666-	9 9029-	<b>-1080 9</b>	-3508 34 3	-1536 15 1	-19840 161 16	-4192 40 4	-1014 28 2	-738 12 1	-7281 59 5	-405	-405	-8861 7	-6513 5	
PROJECTED	FEET -	0 1092	5 276	0 1934	0 0	0 1 082	5 489	2030	0 1208	5 2631	0 882	5 684	<b>5</b> 0	15 0	00 1129	205 0	
71 -11	NO SQ PER RQUIRD	48 7020	5 67	59 8640 5	8 1080 0	31 4590 3	14 2025 1	148 21870 14	37 5400 3	25 3645 2	11 1620 1	54 7965 5	3 405	3 405	9 9990	48 7020	
DOUBLETED	SHOR T	1092 - 5388	276 399	1934 -6031	0 -945	1082 - 2968	489 -1401	2030-17950	1208 -3652	2631 -744	882 -603	684 -6471	0 -270	0 -270	1129 - 8051	507 -5973	
1000 17-07		6480	675	7965	945	4050	1890	19980	4860	3375	1485	7155	270	270	9180	6480	
7	NO	44	0.0	54	7	28	13	135	33	23	10	6 4 5 F	20	C 2	C 62	7 4 4 4	
DEDABT	NENT NAME	ART FAC	AUDI FAC STF	BIOL FAC STF	BUSI FAC	CHEM FAC STF	ECON FAC	ENGL FAC	LANG FAC	GEOG FAC STF	GEOL FAC	HIST FAC STF	JOUR FAC	LIBS FAC	MATH FAC	MUSI FAC STF	

と「ノスごしひト	LINCONNIN STATE UNIVERSITY	IVERSITY -	· USHKUSH	2H	LUISITAL		I WALLAL TAY									
9		1			71-17		OPPLECTED	12-1	3 PROJECTED	CTED	13-1	74 PROJECTED	CTED	74-75	5 PROJECTED	CTED
DEPARTMENT		70-71	PROJECIED	LIEU	00	l u	-CHURT		4	-SHORT	SQ	-	-SHORT		FEET	-SHUKI
/ ACT IV ITY NAME NO		SQ RQUIRD A	FEE I AVLBLE	£0VER	ROUIRD	AVLBLE	GOVER	RQUIRD	AVL BLE	£0VER	RQUIRD	AVL BL E	60VER	RQUI RD	AVLBLE	EUVER TI
														7	27.75	1.
1220	CI DAC	2130	2408	278	2216	2657	441	2303	2914	611	2390	3188	798 -2556	2477	3794	-3261
-	- ABC	4795	3794	-1001	5292	3794	-1498	5805	3194	-2008	0220	2177	202	2822	2147	S
	INC.	1918	2147	229	2117	2147	30	2321	2147	-174	2540	1417	2008	2202	967	-3488
	ш	2970	196	-2003	3240	196	-2273	3645	796	-2678	15105	10004	-5000	16809	10449	-6360
	TOTAL	11813	9316	-2497	12865	9565	-3300	14071	7786	6474-	C61C1	26.001				
					0773	4772	1126	5870	7425	1555	6092	8125	2033	6313	9025	2712
POLI 1331	CLRMS	5428	6137	60 C	7040	2 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	-2412	3105	558	-2547	3375	558	-2817	3780	25	-3225
	OFFCS TOTAL	2565	5699	-1298	8619	7331	-1288	8975	7983	-992	1946	8683	-184	10093	9583	016-
						07.0.	7071	4088	11138	2333	9138	12188	3050	9410	13538	4068
PSYC 1332		8141	9206	1065	*/ *R	09101	0001	0	:	)	) [		0	0	0	0
	LABS	0	0	0 20	2776	787	-2959	4050	686	-3364	4455	989	-3769	4860	989	<b>5/15-</b>
	OFFCS	3375	9892	-2009	12119	10846	-1273	12855	11824	-1031	13593	12874	-719	14330	14224	-106
	20.2						1076	5625	7116	1671	5838	787	1949	6050	8649	2599
SUCI 1333	CLRMS	5202	5882	680	54:4	0440	0101	2105	319	-2786	3375	319	-3056	3780	319	-3461
;	OFFCS	2565	319	-2246	2970	616	-1575	8730	7435	-1295	9213	8106	-1107	9830	8968	-862
	TOTAL	7077	1070	0001							,	10000	2696	8008	11476	3448
		1007	7804	903	7183	8612	1429	7465	9445	11611	141	1022	0065	0 700		
SPCH 1334	LABS	0	0	0	0	0	0	0	0	0	7425	1088	0-6337	8235	1088	-7147
:	OFFCS	5670	1088	-4582	9	1088	7716-	0670	10520	-3685	15172	11421	-3751	16263	12564	-3699
	TOTAL	12571	8892	-3679	13393	00/6	-3693	C12 <b>4</b> I	occot			•				- 1
- 1	1		100	250	0	255	255	O	255	255	0	255	255	0	255	255
GRAD 1349	OFFCS	0 0	255 255	255 255	0	255	255	0	255	255	0	255	5	0	255	S
	10145								33700		14946	22603	5657	17562	25106	1544
FDUC 1350	CLRMS	15098	17072	1974	15714	18840	3126	16329	2002	4200	21601	70077			0	C
1		0	0	0	0	0	0	0	0 20	0 117	0 0 0	5070	-4785	10935	5070	-5865
	OFFCS	1695	5070	-2625	8370	5070	-3300	0816	2010	217	26901	27673	872	78497	30176	1679
	TOTAL	22793	22142	-651	24084	23910	-174	25509	67167	017	10007		5			
•		2010	1105	-1000	2325	1105	-1220	2547	1105	-1445	2790	1105	-1685	3097	1105	256 <b>1</b> -
1ND6 1555	, د	(70	212	-630	930	212	-718	1019	212	-801	1116	212	<u>ر</u>	1639	717	
	TOTAL	2947	1317	-1630	3255	1317	-1938	3566	1317	-2249	3906	1317	-2589	4336	1316	6 T 2 C -
;					1603	1216	-266	1735	1316	-419	1897	1316	-581	2107	1316	-161
INDY 1358	ٰ ب	1432	1516	97	7061	618		769	618	-76	159	618	-141	843	~~	-225
	O INS	513	010	4	2215	1036		2429	1934	-495	2656	1934	-722	2950	1934	-1016
	TOTAL	2005	1954	10-	C177	1661						00.			138	1 38
MFCH 1376	OFFCS	0	138	138	0	138	138	0	138	138	<b>o</b> (	138	120	0	128	, 10
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	CLKMS	LABS	UFFCES		4	2					1			
REQUIRED 67-68	137462	81274	103985	81025	40154	32510	477010	17862	1428	82963	25726	75849	14869	4783
11111	1516	00	1632	00	00	320	3468 0	230	0 0	00	00	00	-8698 0	00
TO BE BLT/PUR	12000	75000	32000	0	0	20000	169000	0	0	0	0	0	0	0
AVAILABLE 67-68	150608	121824	89160	26748	0	12267	460607	4506	1428	40947	25726	75849	6171	4783
-SHORT COVER	13146	40550	-14825	-54277	-40154	39757	-16403	-13356	0	-42016	0	0	-8698	0
	TACTINS	TACTNIN	TINAC	T TASSIGN	SN TNASSGN		NETFLSP GR	GROSS						
REQUIRED 67-68	477010	223480	30 6772	.2 1072×2	42 22632	3	933585 113	131619						
TO BE REMODLED TO BE RAZED/SO TO BE BLT/PUR	3468 0 169000	- 8468 0 0	800	0 -5000 0 0 0 169000		-1600( 0 54080 222	-6600 - 0 23080 27	-8000 0 270400						
AVAILABLE 67-68	460607	159410	01 6772	2 626789	89 200572		827361 100	002862						
-SHORT GUVER	- 16403 CLRMS	LABS	OFFCES	LIBRY A	AUDITA 01	SN	TR TACTINS	AS RSRCH	EXEPS	PHY ED	ТВЗСН	AUXENT	РНРСТ	DACTNI
REQUIRED 68-69	147096	86961	110015	14698	43610	34785	509408	34794	1428	88777	25726	75849	14869	4783
TO BE REMODLED	0 0	0 0	0 0	0 0	0 0	00	0 0	00	00	00	0	0	0	00
TO BE BLT/PUR	700	0	6666	65000	0	0	81999		0	0	0	0	0	0
AVAILABLE 68-69	157608	121824	99159	91748	0	72267	542606	4506	1428	15605	25726	15849	11 19	4783
-SHORT GOVER	10512	34863	-10856	4807	-43610	37482	33198	-30288	0	-47830	0	0	-8698	0
	TACTINS	TACTNIN	IN TINAC	T TASSIGN	GN TNASSGN	- :	NETFLSP GR	GROSS						
REQUIRED 68-69	509408	246226	26 6772	762406	06 24396	9001 696	375 1	219849						
96			0		0	0		0						
TO BE RAZED/SD TO BE BLT/PUR	81999		00	0 0 0	0 262	39	0 108238 13	131198				!	*	
AVAILABLE 68-69	542606	159410	10 6772	72 708738	38 226811		935539 113	134060						