ONPASS

EMS Educational Measurement Service

ONPASS *
is an on-line, computer-aided, school planning system. The system was designed to free planners from time-consuming manual procedures for analyzing planning alternatives. **In thirty minutes, ONPASS allows you to do what might take two weeks if done by hand.**

ONPASS uses a data base of student, school, and geographic information to allocate students to the closest schools so as to achieve maximum facility utilization, keep the maximum distance traveled within reasonable bounds, and develop contiguous attendance areas for the schools in the district. Once the student assignment plan is generated, **ONPASS produces summary statistics, a variety of computer plots (maps) of student assignments, and a full set of detailed listings of the individual school assignments.**

The goal was not just to make the planning process faster and easier, but to enable the planner to use the full range of his creativity in devising optimum solutions to the district's problems. **ONPASS** does not, by itself, solve the district's problems. Instead, it is a powerful tool with which the **planner** can solve the district's problems.

*ONPASS is a proprietary software product of *Urban Decision Systems*.

Computer simulation assists planning process.

ONPASS allows you to simulate many situations, such as closing or opening schools, adding new classrooms to existing schools, changing transportation policies, and so on. You can ask questions such as **"What if portable classrooms were moved from school A to school B?"** or, **"What if a pedestrian bridge were built over the freeway?"** You can test various assumptions about the makeup of the district's population in years to come to see what affects they will have on the district's facility requirements.

ONPASS USE FLOWCHART

START

LOAD STUDENT & SCHOOL FILES

SELECT TIME PERIOD OR GRADE LEVELS

PREASSIGN PLANNING UNITS

SELECT ALTERNATIVE PRE-ASSIGNMENTS

RUN A SCHOOL ASSIGNMENT

ALTER: CAPACITIES, MAX.TRAVEL, PLANNING UNITS

GENERATE REPORTS & PLOTS FOR ANALYSES

RESET: MAX.WALK, TRANS.COSTS, MAP PARAMS.

END

The above flowchart diagrams a terminal session showing how various conditions can be selected, reset or changed.

Any number of data files can be created to reflect future expectations. For example, student files containing anticipated student populations for years to come can be used to study the adequacy of facilities for the future. **EMS**' software makes it easy for you to create and modify these files.
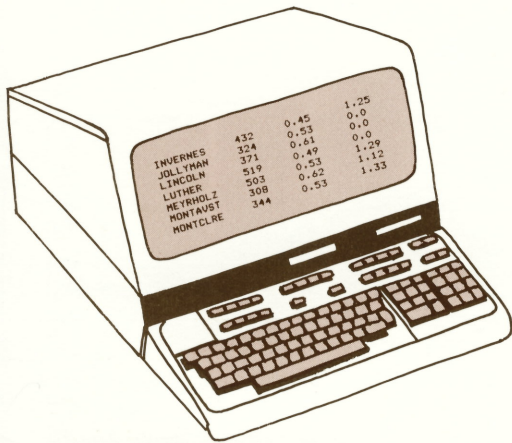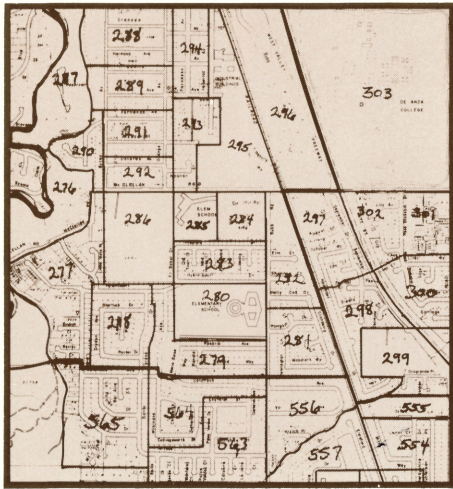
ONPASS aids transportation planning.

ONPASS includes powerful transportation planning capabilities. Just as it helps the facility planner find optimum school assignment plans, **ONPASS also helps the transportation planner find optimum bus routes and schedules.**

The transportation planning system uses the existing **ONPASS** data base, so the tedium of entering information about bus stops, numbers of students, distances within the transportation network, and school locations is eliminated. The transportation planner only needs to enter information about the district's transportation policies, the number of buses available, and their capacities.

Transportation Summary

REPORT TRANSPORT

SCHOOL		TOTAL	AV DISTANCE WALK	RIDE	TRANSPORT COST
3	BLUHILLS	374	0.47	1.29	$ 4950
4	DEVARGAS	408	0.57	1.14	$ 3960
5	DILWORTH	523	0.44	0.0	$ 0
6	MURDOCK	360	0.49	0.0	$ 0
7	DOYLE	445	0.57	1.14	$ 9966
9	EATON	389	0.59	1.14	$ 3960
11	EISENHWR	427	0.51	1.33	$ 14454
12	FARIA	265	0.51	1.91	$ 14190
13	GARDENGT	423	0.40	1.29	$ 4884
15	GRANT	263	0.51	1.04	$ 3762
17	HANSEN	288	0.66	0.0	$ 0
19	HOOVER	365	0.57	1.33	$ 14916
20	INVERNES	432	0.45	1.25	$ 4356
22	JOLLYMAN	324	0.53	0.0	$ 0
24	LINCOLN	371	0.61	0.0	$ 0
25	LUTHER	519	0.49	0.0	$ 0
26	MEYRHOLZ	503	0.53	1.29	$ 4554
27	MONTAVST	308	0.62	1.12	$ 6930
28	MONTCLRE	344	0.53	1.33	$ 5082
29	MUIR	399	0.47	1.10	$ 3828
30	NIMITZ	621	0.47	1.17	$ 10230
31	PANAMA	340	0.45	1.17	$ 5742
32	PORTAL	446	0.38	0.0	$ 0
33	REGNART	451	0.57	1.19	$ 15048
34	OLDER	321	0.51	1.15	$ 4026
37	SERRA	420	0.51	1.06	$ 3696
38	STEVENCR	383	0.49	3.14	$ 47256
39	STICHTER	266	0.42	0.0	$ 0
40	STOCKLMR	349	0.40	0.0	$ 0
44	WVALLEY	450	0.64	1.17	$ 9570
	TOTAL	11777	0.51	1.57	$195360

ONPASS automatically establishes bus routes and schedules designed to minimize miles traveled. At any time, you can override the computer's decisions by redefining routes or clustering bus stops. What's more, you can easily evaluate the affects of changes to the district's transportation policies, such as increasing the distances at which students become eligible for transportation, simply by rerunning the program with the new policy definitions. **In minutes, ONPASS will show how the bus routes would be re-drawn and what affect the change would have on the district's overall transportation cost.**

Analyze data by computer— not by hand.

The data you're now manipulating by hand—with maps full of pins and stacks of cards—are the same data **ONPASS** uses.

Planning unit boundaries shown above, consider existing attendance areas, dwelling types and natural barriers.

**The system requires three types of data:**

1. **Student counts by grade level in each planning unit (geographic area with 50 to 100 dwellings).**
2. **Locations and capacities of schools.**
3. **Routes and distances between planning units (geographic connectivity).**

You may already have these data in a form that can be used by the computer directly, such as computer tape or punch cards. If not, the data can be gathered by the clerical and administrative staffs of the district with guidance from **EMS**. (Specific information about **EMS** appears on the back page of this brochure.)

ONPASS also uses information from the **Census Bureau's Dual Independent Map Encoding (DIME)** file, which is already in computer-usable form. **EMS** will help you obtain the DIME file for your district.

ONPASS adjusts boundaries for ethnic balance.

ONPASS is especially useful when school boundaries must be adjusted to meet ethnic attendance criteria. Data files can be set up to reflect the geographic distribution of minority students, and the system will adjust attendance boundaries to achieve the desired balance.
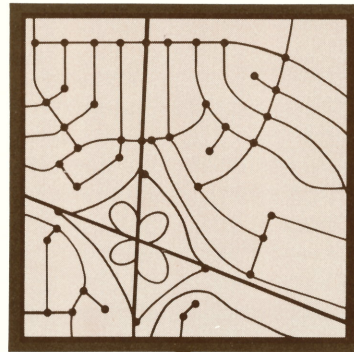

ONPASS is an economical answer to the planning workload, and it is even more economical when two or more districts share the cost of using the system. Sharing is particularly suitable for a non-unified high school district and its elementary feeder districts. Files containing routes and distances between planning units can be shared, whereas student data files can be maintained individually by each district, and complete confidentiality is assured.

Use ONPASS whenever you need to.

ONPASS is available on the National CSS system, a nationwide computer timesharing service. With a computer terminal in your office, you can use **ONPASS** simply by dialing the nearest NCSS facility and connecting to the computer by telephone line. **You do not need a computer to use ONPASS.**

You also do not need any computer experience. EMS will help you prepare your data base and see that the data are entered into the computer. When you're ready to use **ONPASS**, you use simple, plain-English Commands. There's no programming to do, and you don't need to learn complicated codes or abbreviations. After a brief period of instruction from **EMS**, anyone can use **ONPASS**.

EMS provides a comprehensive, detailed user's manual that contains complete instructions for using the system. In addition, **EMS** provides continuing support for as long as you use **ONPASS**. Questions and problems can be taken care of with a phone call, and on-site consulting is available.
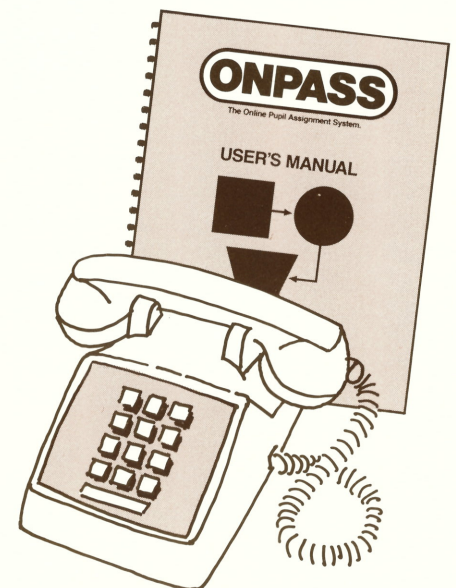
EMS
... managing information for education.

EMS—computer services for education.

Educational Measurement Service combines experience in educational research and data processing with the capabilities of a large computer facility to help school systems gather, process, and analyze the information they need for effective administration.

Our staff includes educators as well as data processing experts, so we understand the information needs of school administrators. We can help you to define your information problems, determine what kind of data you need and how to get it, and then decide what has to be done to the data to turn it into meaningful information. If you already have access to data processing facilities, we will write programs in your language to work on your equipment. **We don't try to make your problem fit pre-designed solutions.**

Once we've determined how to solve your information problems, we go ahead and do it. We gather the data, or we help your staff gather it. Then we use the speed and accuracy of the computer to process the data and prepare reports. Finally, **we help you interpret the reports** to get the full meaning of the information.

The president of EMS is Bill Gilmore. After 15 years as a classroom teacher, Mr. Gilmore went into administration as a specialist in planning and evaluation. **He developed a number of computer models and data processing techniques especially suited to school planning and evaluation.** Mr. Gilmore formed **Educational Measurement Service** in 1973.

Some EMS services:

- ENSIM, an enrollment simulation model that produces estimates of future enrollment, taking into account changes in land use, birth rates, and other demographic data.
- COMPU/TEST, an automated system that produces custom-designed tests. Using your specifications, the computer does the formatting and printing of the test from items in your Item Bank.
- TEST ANALYSIS SERVICE, a comprehensive program for test evaluation and revision.
- COMPU/SCORE, a scoring system for district-wide assessment, minimum competency testing, and classroom testing. Results are displayed by district, school, and classroom. Summarized by item, objective, and goal.
- STUDENT INFORMATION SYSTEM, a system that stores, retrieves, and prints student information. Produces statistical summaries and longitudinal records.
- INVENTORY, EMS' unique Data Base Management System which stores and retrieves capital outlay items by school, room or item category. Output reports custom-designed to meet user needs.
- DATA BASE MANAGEMENT, a flexible system for student test records, personnel records, inventory, and all other information that needs to be stored and retrieved selectively. Custom-designed reports and statistical analyses are produced whenever they're needed.
- SURVEY ANALYSIS, a comprehensive service that provides reports or a computer tape according to your specifications. EMS utilizes optical scan data collection forms, survey/questionnaire materials, or your computer-readable data.

A partial list of our clients:

Aides West, Inc.
Palo Alto, California

Alum Rock School District
San Jose, California

Anne Arundel County Public Schools
Annapolis, Maryland

Beaverton School District
Beaverton, Oregon

California Department of Education
Sacramento, California

Campbell Union High School District
San Jose, California

Cupertino Union School District
Cupertino, California

Evergreen Elementary School District
San Jose, California

Fairfax County Public
Fairfax, Virgina

Los Altos School District
Los Altos, California

Mt. View School District
Mt. View, California

Oak Grove School District
San Jose, California

San Jose State University
San Jose, California

Santa Clara County Office of Education
San Jose, California

Saratoga Union School District
Saratoga, California

Scotts Valley School District
Scotts Valley, California

Travis Unified School District
Travis Air Force Base, California

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