Farewell, bushes and pecks

Metric? It's the new wave

Despite some opposition and conster-nation at the "grassroots" level, "going metric" is becoming a way of life across the United States. You've already seen it in the grocery store, along the highway, at work. The reasons for converting to the European-based system from the tradi-tional inches, pounds, bushels and pecks are, well, the intricacies of un-derstanding inches, pounds, bushels and pecks.

pecks.
People in this country understand them, all right.
But the United States' measurement

becoming more homogenized and inter-related, especially in the field of big

retates, especially the future of Michigan—and suburban Detroit, in particular—is tightly tied to big business, especially the highly-competitive automobile industry and related enter-

attoniouse prises.

Usually a leader in all things industrial, the United States finds itself in the position of being the only major nation in the world that still officially utilizes a non-metric measurement sys-

Even staid, economically-troubled England, where our ponderous system Even staid, economically-troubled England, where our ponderous system got its roots, succumbed to the one-world philosophy of standardization in 1965 and adopted the metric system as its official method of measurement. It took the United States Congress, on the other hand, until 1975 to adopt the Metric Conversion Act, which states that it shall be the policy of the nation to convert to the standardized system.

The only problem—or boon, if you're on the other side of the issue—sis that no timetable was established and the act leaves going metric or staying with the

leaves going metric or staying with the present system up to involved sectors

present system up to involved sectors of the nation.

The act called for creation of what is known as the National Metric Board, a 17-member panel which will oversee conversion as sectors feel such moves will be beneficial and attempt to make Ame act caused not creation of what is known as the National Metric Board, a 17-member panel which will oversect conversion as sectors feel such moves will be beneficial and attempt to make them 'as effective and painless as possible," in the words of a spokesperson for the board on the board of the post of the post of the board of the post of the post

government finally got into the act.

Michigan educational leaders saw
that it was going to be a fact of life as
far back as 1974 when the state board

far back as 1974 when the state board of education adopted a resolution, calling for all mathematics and science textbooks to be used after June 1976, to contain the metric system as the dominant system of measurement.

Leaders in the automotive industry away the web effore that, thanks to the international nature of their business, and were in the forefront of the move to standardize measurement methods. Why?

and were in the forefront of the move to standardize measurement methods. Why?
For one thing, they say, it will save money in the long run.
And when you're in a business as competitive as manufacturing automobiles and trucks, that's an important reason for doing anything.
This is not to say that the conversion is an inexpensive process. It costs a bundle, But manufacturers have found that it is only costing them about four per cent of original estimates to make the changeover.
Some of the long-term benefits:
Standardization of tools and tooling methods:

**Change the cross-use of components the components of the components of specifications and in understanding of specifications.

The whole movement was not into

of specifications and more common use of those specifications.

The whole movement was put into perspective by Stan Mallen of Farm-ington, who serves as metrication plan-ning manager at Ford Motor Compa-ny's international headquarters in Dearborn.

Dearborn.

"The thing to understand is the primary benefits (of metrication) are in international commerce.

"The world is shrinking and the best way to communicate internationality is to standardize methods." When it comes to making a choice of methods," he said, "the simplest method is the one you choose, especially when the other nations of the world use it."

_

METRIC/U.S. CUSTOMARY UNIT EQUIVALENTS

by:

to get: Multiply:

ACCELERATION (Standard gravity = 9.807 m/s²) [est/sec² X 0.3048 = metres/sec² (m/s²) X 3.281 = iest/sec² inches/sec² X 0.0254 = metres/sec² (m/s²) X 39.37 = inches/sec²

ENERGY OR WORK (with-second- joid = metivan-metrs) [sot-pounds x 1.3558 = joides (i) x 0.7376 = [sot-pounds x 1.4558 = joides (i) x 0.7376 = [sot-pounds x 1.857 = joides (i) x 0.7388 = calorises[soft*]] BB [sot-pounds x 1.855 = joides (i) x 0.000948 = Bey [sot*] S80 = joides (i) x 0.000948 = Bey [sot*] S80 = joides (i) x 0.000778 = witt-bours kidwwitt-burs x 3.600 = joides (i) x 0.02778 = kidwwitt-burs x 1.600 = wgsjoides (iki) x 0.2778 = kidwwitt-burs x 1.600 = wgsjoides (iki) x 0.2778 = kidwwitt-burs x 1.600 = wgsjoides (iki) x 0.2778 = kidwwitt-burs x 1.600 = wgsjoides (iki) x 0.2778 = kidwwitt-burs x 1.600 = wgsjoides (iki) x 0.2778 = kidwwitt-burs x 1.600 = wgsjoides (iki) x 0.2778 = kidwwitt-burs x 1.600 = wgsjoides (iki) x 0.2778 = kidwwitt-burs x 1.600 = wgsjoides (iki) x 0.2778 = kidwwitt-burs x 1.600 = wgsjoides (iki) x 0.2778 = kidwwitt-burs x 1.600 = wgsjoides (iki) x 0.2778 = kidwwitt-burs x 1.600 = wgsjoides (iki) x 0.2778 = kidwwitt-burs x 1.600 = wgsjoides (iki) x 0.2778 = kidwwitt-burs x 0.600 = wgsjoides (iki) x 0.600 = wgsj

X 10.78 = lumens/metre² (lm/m²) X 0.0929 = footcandles

FUEL ECONOMY AND FUEL CONSUMPTION
miss/gal X 0.42514 = Islometres/filtre (am/L) X 2.3522
Note:
255.2/(ml/gal) = L/100 km
245.2/(L/100 km) = mi/gal

LIGHT

bolts.

"It also lends itself to interchanges."

"It also lends itself to interchangea-billy of parts, such as piston rings, fan belts and pulleys. These things are re-ally functional, rather than esthetic. "What we want to do is give the cus-tomer the advantages of mass produc-tion and still give him a product that suits his needs.

suits his needs.
"Buyers want some individuality.
But, by the same token, they don't want
individuality in every single component
of their cars because that runs up the

Mailen termed the switch to metrics in the automotive industry "a long-term thing. We're not going to achieve these benefits over the nort couple of years and people shouldn't expect that the change will be sudden, or even rap-

"It's going to take a generation," he

For Motor Company has had metric components in its automobiles since the early 1970s, he said.

General Motors' 1976 Chevette was the first domestically produced automobile that is was all metric in measurement.

moune that is was all metric in measurement.

Malien said Ford is now about 10 per cent metric in its domestic automobile production, while its international operation is near the 30 per cent mark.

"Henry Ford has already announced that we'll be close to 50 per cent metric, domestically, by 1985," added Mallen.

Libb. "Libb."

areas which are going or which will be going metric over the next few years:

Temperatures will be figured in Celsius, rather than Fahrenheit, and precipitation will be given in centimeters and millimeters. Distance, height and the control of the metric of the metric

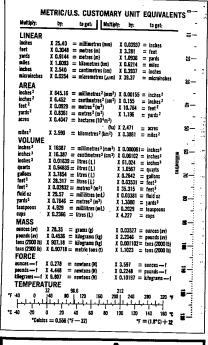
grams, rather than in ounces.

Recipes, measures and utensils used in cooking will be retained. New metric-marked utensils will be available for metric recipes.

Sports fans, take heart.

ICII still be Irist down and 10 yards to go in football, the Indianapolis 500 will remain the same and baseball will remain a earne of inches.

Some things, you know, are sacred.





COMPUTER AIDED DRAFTING

• MECHANICAL LAYOUTS

ARCHITECTURAL RENDERINGS

MATRIX ANALYSIS

 PROCESS SCHEMATICS • RETURN ON INVESTMENT

(313) 334-7122

2300 DIXIE HIGHWAY P.O. BOX 1166 PONTIAC, MICHIGAN 48056

Johnson & Anderson, Inc.
Consulting Engineers

PONTIAC, MICHIGAN 48056 @ (313) 334-9901 TORONTO OFFICE (416) 883-1859



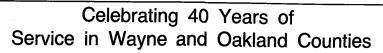
You're secure in a **HOW** home

Security in a new HOW home begins with the knowledge that you are protected by America's first 10-year, nationally insured home owners protection plan. HOW-Home Owners Warranty - assures you protection against workmanship and materials defects that don't meet, the HOW hallfold quality standards with the control of the c

rmation about HOW, con-tact your local Home Owners Warranty

Southern Michigan Home Owners Warranty Corporation

569-0644





Royal Oak

Highland Park Rochester Area

Member Federal Deposit Insurance Corporation

Berkley