PLANT LIFE IN YEAR 2000 THREATENED by EXHAUST

By Dr. R. A. Wood

n-

si

1-

year 2000, as far as plant life in the feedlot. is concerned, may be caused by chemical reactions created when motor vehicle exhaust ingredients are exposed to sunlight.

Sunlight triggers a chemical reaction among exhaust mixtures and creates air pollutants called photochemicals. Compounds originating from industrial sources may also react in this manner.

Such photochemicals pollutants will increase three-fold by the year 2000, caused by gases developing mainly from hydrocarbons and oxides of nitrogen. By the year of 2000 over 87 million pounds of hydrocarbons and oxides of nitrogen will be emitted into the atmosphere annually from motor vehicles alone.

Ironically, if all motor vehicles were powered by batteries, the increasd electricity needed to charge the batteries would at least double the present air pollutlon from coal-burning generators used to make electricity. In short, one form of air pollution could replace another.

The damage to trees and other vegetation from photochemicals can be more severe than with most other air pollutants, he states. The most serious air pollutants now injuring trees and other vegetation are sulfur dioxide, fluoride, ozone, and a gas known as PAN (peroxyacetylnitrate). The latter two are photochemical air pollutnats. Fluorides are increas. ing in the atmosphere, and are the most toxic to plants of all air pollutants. Fluorides originate from impurities in raw materials used to make aluminum, steel, oil, brick, and pottery—as well as from rocket fuel combus-

Ozone, one of the most harmful photochemical air pollutants to plants, originates in polluted atmospheres. Oxides of nitrogen, emitted into the atmosphere by motor vehicles and a variety of industries and utilities, react in the presence of sunlight and oxygen to form ozone.

PAN, another photochemical air pollutant harmful to the plants, resudts from similar reactions between hydrocarbons and oxides of nitrogen.

BEST BEEF CATTLE GAINS BOTH RAPID AND EFFICIENT

By Lowell L. Wilson

Beef cattle with the genetic ability to gain rapidly also have the ability to gain effi-

Sixty per cent of the differences in weight gain within a group of cattle fed in the same feedlot are due to genetics. A progeny test is the "acid test" of a beef buil's true ability to produce fast-gaining, meaty, quality calves. In progeny testing, a bull to be evaluated is bred to a random group of cows. Then the live and carcass qualities of the bull's calves are assessed.

He averaged the results of numerous research trials at Penn State and other univer-

WANTED

Country Places

homes with large lots, and small and large farms for waiting city buyers who often pay more than local buyers.

> TO SELL NOW PHONE 394-3763

Stanley M. Wentzel REALTOR

401 WEST ORANGE ST. LANCASTER, PA. 17603

Tir signification

sities and found that one of cattle.

not as strongly determined by Cold, drafty, wet farrowtenth pound-per-day increase Studies by other Agricul- inheritance as carcass traits ing pens cause troubles with

in a beef cattle herd's ability tural Experiment Station sci- and post-weaning weights baby pigs. This is why about for rate of gain could save entists at Penn State have gains. For example, weaning one-third of all pigs born 35 pounds of feed for each found that the carcass traits weight is only 30 per cent never reach market. The high The major problem by the 100 pounds of weight added of cattle, the meatiness of heritable. Yearling weight is death rate among baby pigs

feed, interest, labor, and oth- gains.

the rib eye area and the eat- 45 per cent heritable while can often be reduced by good

er feedlot costs for 1,000 head Certain other factors are Patronize Our Advertisers versity.

Such superlor cattle can ability of meat, are at least live conformation is 35 per management, says Lester Amean a saving of \$6,420 for as highly heritable as weight cent heritable.

Burdette, extension livestock specialist at Penn State up specialist at Penn State uni-

OUR BIGGEST BARGAIN

JAMES SALD

JANE'S DRESS SHOP

63 SOUTH MAIN STREET

MANHEIM, PENNA.

DRESSES, sizes 5 to 15, 6 to 20, 12½ to 24½ Reg. 17.95 to 34.95 NOW \$10.00 to \$20.00 FEW KNIT SUITS, Half Sizes to 54.95 NOW \$35.00

SUITS AND VEST SETS Reg. 31.95 to 62.95 NOW \$20.00 to \$40.00 Some have matching slacks

SKIRTS AND CULOTTES Reg. 7.00 to 14.95 NOW \$4.00 to \$9.00

SLACKS 20% OFF SWEATERS 20% OFF

COATS AND CAR COATS By WEATHERBEE 20% OFF

JACKETS, LEATHER & SUEDE LEATHER 20% OFF

LARGE GROUP SLIPPER SHOES Reg. 3.00, 4.00 and 5.00 NOW \$1.50, \$2.00 AND \$2.50

EXTRA SPECIAL'! GROUP OF NYLONS 50c PAIR - Reg. 1.15 to 1.35

ALL WINTER NIGHTWEAR FOR JAMBOREE SALE 20% OFF INCLUDING HOUSE COATS

EXTRA SPECIAL!! EXTRA SPECIAL!!

WEATHERBEE COAT All Wool Checked one size 10 and one size 14 Reg. 49.95 NOW \$15.00

1 SUEDE CLOTH WEATHERBEE Orlon pile lined, Coat size 14 Reg. 54.95 NOW \$20.00

1 ALL WEATHER TRENCH COAT Size 12 - Reg. 35.00 NOW \$10.00

2 Multi Color SUEDE LEATHER JACKETS Zip-out lining, Sizes 12 & 14 59.95 NOW 1/2 PRICE

MAIDENFORM BRAS

Sizes 32 to 42 A, B, and C cup

GROUP HALF SLIPS to 5.00 - \$1.00

VINYL SKIRTS

FEW VINYL VEST SUITS 13.95 NOW \$5.00

GROUP HAND BAGS

GREATLY REDUCED

2 LEATHER ZIP-OUT JACKETS Sizes 10 and 14

Were 59.95 NOW ONE-HALF PRICE

GIANT PLAYTEX SALE

\$2.00 Off on Magic Controller Girdles with Finger-Tip-Control Styles Nos. 2715 - 2716 - 2717 - 2718 - 2725 2726 - 2727 and 2738

> PLAYTEX LYCRA GIRDLE \$2.00 Off Firm 'N Flatter Styles Nos. 2850-51 - 2852 - 2854-55

PLAYTEX BRAS Regular or Long Line - Selected Styles 66c to \$1.00 Off

MAIDENFORM SALE

Concerting Girdles WITH ACTION BACK - ALL STYLES Regular 9.00, 11.00 and 12.00 NOW \$7.39, \$8.99 and \$9.99

TRICK-O-LASTIC BRAS

Reg. 4.00 to 5.00 NOW \$3.19 and \$3.99

UNDERLINE BRAS

Perm Press - Reg. 2.50 NOW \$1.99

MANY, MANY, OTHER ITEMS GREATLY REDUCED INCLUDING JEWELRY AND LOLLIPOP STRETCH PANTS

WE GIVE JAMBOREE TICKETS