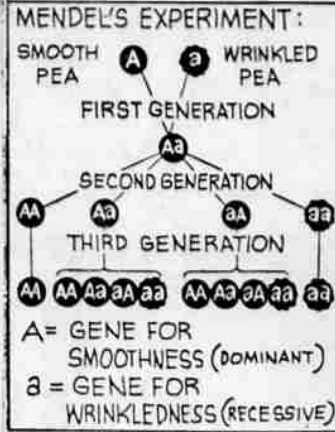


Earth, Stars and Man (12) The Key Is Found

by Don Oakley and John Lane



The rediscovery of Mendel's laws of heredity was another of those strange, but not rare, coincidences of science. In 1900, three men independently arrived at Mendel's conclusions—that the characteristics of parents are passed on to their offspring in regular, numerical, predictable ways. The science of genetics was born. The basic units of heredity are the genes, thousands of chemical molecules strung along the threadlike substances called chromosomes inside cells. (There are 46 chromosomes in humans. The known record is 520 chromosomes in a plant recently discovered in Peru.) In sexual reproduction, each parent contributes half the chromosomes. In place of the

ages-old belief that heredity was a "blending" of the traits of the parents, each new generation is now seen to be a reshuffling of the genetic deck of cards. It was one of the three scientists, the Dutchman Hugo de Vries, who linked genetics to evolution. He had previously discovered the phenomenon he called "mutation" in the evening primrose. He observed that from time to time new plants appeared that were sharply different from their parents—new species. These mutations were caused by abrupt rearrangements or changes in the chromosomes and genes. Since then, mutations have been found to occur (at varying rates) in every spe-

cies that has ever been studied. De Vries pointed out that new forms must come about first through mutations. They are then sifted for survival value by the demands of environment. In the words of J. B. S. Haldane of England: "New species may arise suddenly. . . . When they have arisen they must justify their existence before the tribunal of natural selection." Today the world of living things is viewed as an infinite number of "adaptive peaks," some millions of them occupied by various organisms. The story of man, and his climb to his present peak, is another chapter.

NEXT: Men of the Ice Age

New President-Elect Calls For National Unity

HYANNIS PORT, Mass. (UPI)—President-elect John F. Kennedy Wednesday called on all Americans to close ranks and join him in meeting the "difficult and challenging times" facing the nation.



The Democratic victor in Tuesday's presidential election appeared in the National Guard Armory in the village of Hyannis at 10:47 a.m. PST. A crowd cheered and applauded him. He had received messages of congratulation from his opponent, Vice President Richard M. Nixon and President Eisenhower.

"To all Americans, I say that the next four years are going to be difficult and challenging years for us all," the newly elected chief executive said. "It was a close election but there is general agreement by all citizens that a supreme national effort will be needed in the years ahead to move safely ahead in the 1960s."

"I ask your help in this effort," he also sent a message to Eisenhower saying "the whole country is hopeful that your long experience in the service of your country can be drawn upon further in the years to come."

Kennedy had been convinced before he went to bed at 4 a.m. Wednesday that he had defeated Nixon, but he refused to engage in any

public discussion of victory until he received the actual message from the vice president expressing "congratulations and best wishes" and promising the support of all Americans in the cause of "peace and freedom."

After making his brief victory statement, Kennedy looked at his wife by his side on the flag-draped stage and said, "And now my wife and I prepare for a new administration and for a new baby." His wife, Jackie, blushed noticeably and blinked into the glaring movie and television lights.

His father, Joseph P. Kennedy, who was not seen in public during the presidential campaign, stood proudly at his son's side in victory, while the president-elect spoke.

Kennedy's mother, unusually youthful looking in stylish red wool dress and double strand of pearls, also flanked the election

winner, along with his brothers, sisters, and in-laws. Kennedy, in responding briefly to questions, said he did not expect to have anything to say on appointments in his new administration until Thanksgiving or later. He said, however, that within the next 24 hours he expected to announce his arrangements for liaison with the Eisenhower administration on problems of transition during the interim between election and inauguration.

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ALASKA'S RICHES

Alaska's mineral-rich soil has yielded more than a billion dollars' worth of coal, copper, gold, lead, mercury, platinum, silver and tin.

Most expensive yearling purchase of 1960 was a \$75,000

Nashua-Pashmina colt bought by John Olim. Next costliest was a Nasrullah-Banish colt for which Raymon Guest paid \$74,000.

LOTS OF HEADACHES?

During 1958, the U.S. production of acetylsalicylic acid (better known as aspirin) reached a high of 20 million pounds, or enough for 28 billion tablets.



JET UMBRELLA—An innovation in the flight test line at Chance Vought Aircraft's plant in Dallas is this umbrella for Crusader jet cockpits. It is designed to protect the pilot from the Texas sun until the plane's air conditioning unit is working. The umbrella is mounted on a mobile dolly and is easily moved after use.

Oregon Election Returns

By THE ASSOCIATED PRESS	President
Unofficial totals from 2,874 of Oregon's 2,896 precincts:	
John F. Kennedy	354,890
Richard M. Nixon	392,409
U.S. Senate (short term)	
Unofficial totals from 2,874 of Oregon's 2,896 precincts:	
Maurine Neuberger	405,175
Elmo Smith	330,704
U.S. Senate (6-year term)	
Unofficial totals from 2,874 of Oregon's 2,896 precincts:	
Maurine Neuberger	397,755
Elmo Smith	330,174
Congress	
Unofficial totals from 734 of the 1st District's 748 precincts:	
Marv Owens	74,439
Walter Norblad	137,464
Unofficial totals from 443 of the 2nd District's 445 precincts:	
Al Ullman	62,284
Ron Phair	42,324
Unofficial totals from 1,000 of the 3rd District's 1,003 precincts:	
Edith Green	151,589
Wallace Lee	86,236
Unofficial totals from 696 of the 4th District's 700 precincts:	
Charles O. Porter	87,863
Dr. Edwin Durno	91,133
Secretary of State	
Unofficial totals from 2,874 of Oregon's 2,896 precincts:	
Monroe Sweetland	332,117
Howell Appling Jr.	398,473
State Treasurer	
Unofficial totals from 2,874 of Oregon's 2,896 precincts:	
Ward Cook	341,970
Howard Belton	375,716
Attorney General	
Unofficial totals from 2,874 of Oregon's 2,896 precincts:	
Robert Y. Thornton	374,309
Carl Francis	344,965
MEASURES	
Unofficial totals from 2,836 of Oregon's 2,896 precincts:	
1. Legislators' terms: Yes 535, 612; No 89,446	
2. Daylight saving time: Yes 536,964; No 373,786	
3. Urban renewal financing: Yes 310,642; No 290,323	
4. Prosecution by information: Yes 284,244; No 314,960	

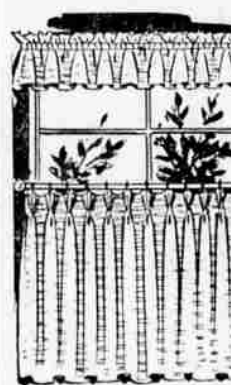
WORSHIP IN SONG

KNOXVILLE, Tenn. (AP)—Music is "the most important ingredient in worship," says the Rev. W. Morris Ford, a Longview, Tex., Baptist. He told a church music clinic here that singing "can be an act of worship itself."

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Single widths, 84-inches long	6.98

Ready-Made Pattern Draperies

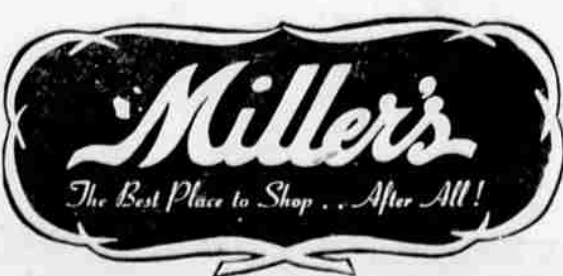
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Triple width, 84-inches long	29.95
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1 1/2 widths, 84-inches long	16.95
Single widths, 84-inches long	9.95

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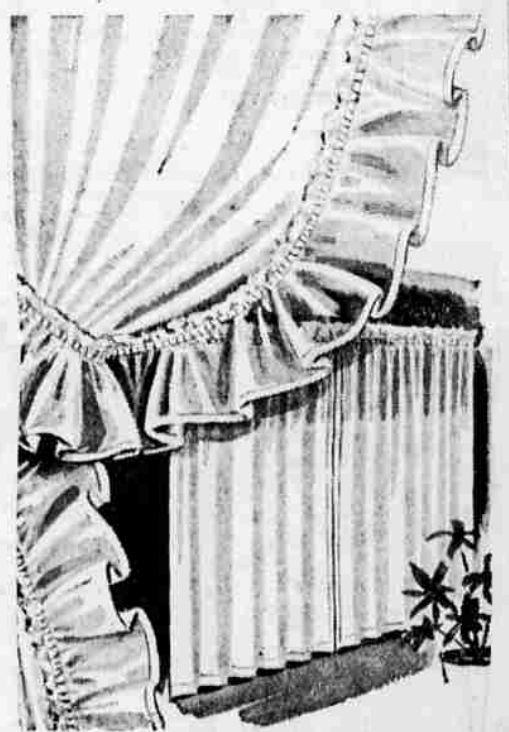
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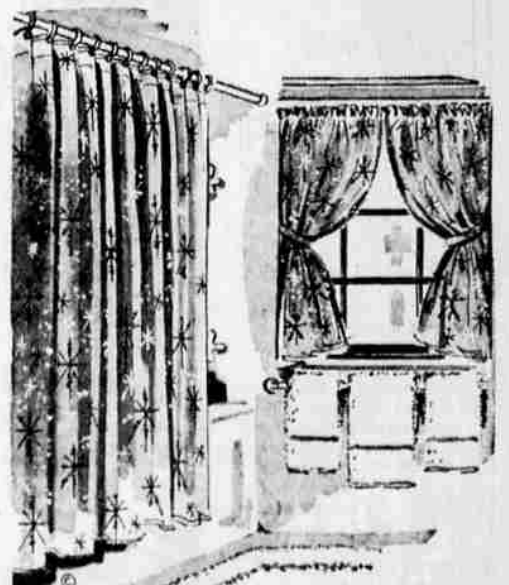
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Dacron Panels, 42x81"	1.49



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