

"GIVE US THIS DAY OUR DAILY BREAD"

or

"UNDER-DEVELOPED" NATIONS WILL ALWAYS BE UNDER-DEVELOPED  
until they learn how to get an adequate supply of high-  
quality, low-cost food with a small labor force."

Notes on talk by David S. Weaver, N. C. State, Raleigh, N. C.

1. The history of man - story of hungry animal in search of food.
2. Roamed for 900,000 years and searched for food as all other animals.
3. Only last 7,000 settled down and grew food. Saved and planted seed, domesticating animals and permanent dwellings vs. roaming, hunting, foraging. 3(a) Civilization began, 3(b) Man's dominance due to: a. a reasoning brain; b. a memory (aided by books); early records on stone; c. a prehensile thumb - grasp tools. 3(c) From simple tools and weapons to the mechanical marvels of today. 3(d) The wheel and axle - greatest invention.
4. As skills in food production increased fewer people needed to produce food.
5. Those released from food production could go in manufacturing, commerce, and the hundreds of non-food production occupations; specialization began.
6. This specialization is good for all; a. increased efficiency; b. reduced cost; c. improved quality.
7. America has made greater progress in this direction than any other nation.
8. This accounts for our highest standard of living.
9. Most countries - still over 50% of population in farming. Every 24 hours in U.S. 1,000 farm people leave; 9,000 more people to feed; 4,000 acres go under concrete, steel, and asphalt.
10. In U.S. farmers less than 8% - leaving 92% to other occupations.
11. With 6% land area and 7% world's population - U. S. produces: 1/3 world's coal; 1/2 world's steel; 1/2 world's crude oil; 40% world's milk; 50% world's manufactured products. We own: 90% bathtubs; 48% radios; 30% paved roads; 58% railroads; 60% telephones; 80% autos and trucks; 80% TV sets.
12. Four principal factors in U.S. progress: a. blessed with resources - iron, copper, fertile soil, abundant water, etc.; b. research concept - fundamental truths; c. education - Land Grant Colleges, education for common man - for all; d. action - American vigor - action agencies.
13. Great corporations - use these factors. So does agriculture.
14. What is agriculture? - now considered as 3 groups; 1. produces food & fiber - 8,000,000 farm workers; 2. processes food & fiber - 10,000,000 workers; markets food & fiber; 3. suppliers - fertilizer, fuel, machinery - 6,000,000 workers; 4. 24,000 total or 37% of total labor force works to supply food & fiber.
15. What is farmer's real job? a. deals with biological production; b. most difficult of all; c. living things - life itself - heredity and environment.
16. Ear of corn - one kernel - 1600 fold. a. heredity - through breeding; b. environment - soil and water management; c. protection - weeds - insects - animals.
17. Examples - a. cow - few quarts to 20,000 lbs. (2 in Ill. over 38,000); b. hen - 15 eggs to 200 or 250; c. crop yields - doubled - tripled.
18. Use of power in farming - a. tractor - 1st time in history - enough power; b. electricity; c. sun - why large areas for farming. Can apply fertilizer & water but not light (sunlight for the mysterious processes of nature).
19. Problems of farmers' less understood. A. public relations; b. farming - goes scientific; c. more complex; d. better education managers of the soil; e. one non-replaceable resource; f. "land - they are making no more of it"; g. but they are making more people nearly 3,000,000 per year; h. net increase of 9,000 per day each eating 1600 lbs. per yr.
20. Where are we going to get trained farmers? a. fewer agricultural college graduates; b. few freshmen at State College; c. this is serious.
21. Hazards of farming: a. biological; b. diseases; c. insects - increasing & resistant; d. weather - some progress - irrigation; e. erosion - very disastrous; f. water problems - 100 gallons/ear corn; g. too many farmers (for modern efficiency 2,000,000 - 90% - 1,500,000 - 10% of total tonnage of agricultural commodities.

22. Farmers not able to control production: a. too many - 3,500,000; b. all in competition; c. yields unpredictable; d. vote to have government control - this leads to problem - political, financial and social.
23. Agricultural subsidies - a. not for farmer's benefit alone; b. must insure nation of food and fiber; c. compare to military support for protection of nation.
24. Surplus vs. scarcity - empty shelf idea. (Rather have headache from surplus than belly ache from lack of food.)
25. Why are city people interested in farmer? a. dependent for food, fiber, tobacco, etc.; b. agriculture is very large customer of city producers and services.
26. Farmers as customers - 1.  $\frac{1}{2}$  steel of automobiles - 7,000,000 tons; 2. 320 million lbs. of rubber per year; 3. 15 billion kilowatt hrs. of electricity; 4. 50 million tons of chemicals (fertilizer, etc.); 5.  $1\frac{1}{2}$  billion gallons of petroleum products.
27. How can rural & urban people work together? - a. understand each other & problems; b. meeting of this sort; c. realize each others problems; d. all is not profit - \$5.00 shirt production costs up; e. farmers buy - tractors & gasoline; f. used to raise mules & oats; g. legislators must realize farmers' problems; h. some states going out of agriculture but have 2 senators and LOTS of representatives with only URBAN CONSTITUENTS.
28. This great country of ours - 1. less than 200 years old; 2. highest standard of living known; 3. the envy of the world - foreign visitors; 4. will we always be the leader?; 5. the history of nations in ten words: (1) bondage to; (2) spiritual faith to; (3) courage to; (4) liberty to; (5) abundance to; (6) selfishness to; (7) complacency to; (8) apathy to; (9) dependence to; (10) bondage.
29. Can America remain - No. 5. - Abundance or will we like all before us start downward.
30. Will government with - a. unemployment compensation; b. social security; c. all welfare movements - so weaken us, making us dependent on a "great white father" that we will take steps 6 to 10. Only our best thinking and self sacrifice can keep us from following the pattern.
31. Remember - a government strong enough to give soft people all they want must first be strong enough to take away all they have.
32. Population Explosions - 900,000 years before first BILLION people on earth.

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| From 1830 to 1930 - | only 100 | "  | " | second | "     | " | " | " |
| From 1930 to 1960 - | "        | 30 | " | "      | third | " | " | " |
| From 1960 to 2000 - | "        | 40 | " | "      | sixth | " | " | " |
33. Net migration of people from North Carolina:

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|-------------------------|--|
| Between 1950 and 1960 - | only 13 N.C. counties had NET IN-MIGRATION |
| Between 1950 and 1960 - | 87 N. C. counties had NET OUT-MIGRATION    |

In ten years nearly 300,000 more North Carolinians moved OUT than outsiders moved IN at \$20,000 each - it costs \$6,000,000 per county, per year to raise and educate.
34. Effect of Land-Grant-Colleges on economy of United States.