**Chapter 11, *Feeding the World***

**Part 1: Food Production (pp. 283-292)**

1. Why have farmer Joel Salatin’s farming practices attracted attention from across the nation?
2. What principles does Salatin follow when running his farm?
3. What is the significance of farms producing foods they way that Salatin’s does?
4. What has been the recent trend in world hunger in recent decades?
5. How much food does the average adult require, and what are the effects of undernutrition?
6. What is the distinction between undernutrition and malnourishment?
7. What is overnutrition, and what are its effects on individuals and societies?
8. Which type of food dominates human energy intake, accounting for 60% of our raw calories?
9. Even though the world produces enough food to feed every human, why do undernutrition and malnutrition persist?
10. Experts disagree on why worldwide per capita grain production has flattened off. What factors may be to blame?
11. What impact did the invention of agriculture have on human population growth?
12. What major changes took place in farming practices during the 20th century?
13. How can we calculate the **energy subsidy** of a food?
14. Using Figure 11.4 on p.287, what types of agricultural practices require the greatest energy subsidies? What types of activities require the least energy subsidy?
15. What role do fossil fuels play in modern agriculture?
16. What changes did the Green Revolution bring, and what were its positive and negative effects?
17. Complete the chart below with information about modern agricultural practices

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|  | **Role in Modern Agriculture?** | **Benefits?** | **Drawbacks?** |
| **Mechanization** |  |  |  |
| **Irrigation** |  |  |  |
| **Fertilizers** |  |  |  |
| **Monocropping** |  |  |  |
| **Pesticides** |  |  |  |

1. Why has production shifted from small-scale farms to large-scale farms in modern agriculture?
2. How do salinization and waterlogging of soil occur?
* *salinization:*
* *water logging:*

**Chapter 11 Vocabulary List**

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| **Term** | **Description** | **Example** | **Illustration** |
| Undernutrition |  |  |  |
| Malnutrition |  |  |  |
| Food security |  |  |  |
| Famine |  |  |  |
| Anemia |  |  |  |
| Overnutrition |  |  |  |
| Industrial agriculture |  |  |  |
| Energy subsidy |  |  |  |
| Green revolution |  |  |  |
| Mechanization |  |  |  |
| Irrigation |  |  |  |
| Waterlogging |  |  |  |
| Soil salinization |  |  |  |
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