

Glossary of Key Terms

Term/Key Concept	Definition	Crossword (A: Across D: Down)	Matching	Word Search
4R Nutrient Stewardship	Helps farmers apply the right source of nutrients at the right rate, time and place on their fields			
Agriculture	The science or practice of farming; cultivating the soil, producing crops or raising livestock	D13	X	Yes
Aquaculture	Aquaculture is breeding, raising, and harvesting fish, shellfish, and aquatic plants			
Aquaponics	A system of aquaculture in which the waste produced by farmed fish or other aquatic creatures supplies the nutrients for plants grown hydroponically, which in turn purify the water			
Autonomous	The ability to function independently			
Bacteria	Tiny living things that are found in almost all environments, including soil, water, organic matter and living bodies; most are harmless and many are beneficial	A25	R	Yes
Best Management Practices	The best way to do something; best management practices and technology enable us to grow more with less		E	
Billion	1 000 000 000			Yes
Climate	The usual weather conditions in a particular place or region	D16		Yes
Conserve	To keep something safe from being damaged or destroyed			Yes
Conservation Technologies	Scientific or technical ways to sustainably use and protect natural resources in order to prevent loss or waste	D3	C	
Conservation Tillage	Involves leaving at least 30% of the soil's surface covered with crop residues left after harvesting the previous crop; this helps slow water movement, reducing the risk of erosion, and increases soil organic matter, improving the soil's ability to hold moisture and grow better crops		H (tillage)	
Cooperative (Co-op)	A cooperative is a private business that is owned and controlled by the people who use its products, supplies or services.			
Crops	Plants that are grown by farmers, such as wheat, barley, peas, corn and canola	D22		Yes
Deplete	To use most or all of something; to greatly reduce the amount of something	D4		
Drone	An unmanned aircraft guided by remote control			
Economic	Relating to the process or system by which goods and services are produced, sold and bought (associated with profits, jobs, incomes and community)	D24	O	Yes
Education	Refers to teaching or learning			Yes
Efficient	The ability to achieve desired results without wasting materials, time or energy	A2		Yes



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Entomophagy	The practice of eating insects			
Environment	The natural world (associated with soil health, habitats, water and greenhouse gas emissions)	A28		Yes
Fertilizer	Natural plant nutrients manufactured so farmers can provide the exact minerals crops need to grow, the primary nutrients being nitrogen, phosphorus and potassium	D14	W	
Greenhouse Gas Emissions	The emission into the Earth's atmosphere of various gases, especially carbon dioxide, that contributes to the warming of the Earth's surface and the air above it		G	
Global Positioning System (GPS)	Navigational system using satellite signals; agricultural machinery is guided by GPS to precisely place nutrients, seed and crop protection products			
Habitat	The place where a plant or animal naturally lives	A15	L	Yes
Healthcare	Efforts to maintain or restore a person's health, especially by trained and licensed professionals; nurses and doctors work in this industry	D17	K	Yes
Infrastructure	The basic equipment and structures (such as roads and bridges) that are needed for a country, region or organization to function properly	A23	Q	Yes
Innovation	A new idea, practice or product	A26	S	
Inputs	Things that are put into a machine or system such as fuel, seed and fertilizer	D12		Yes
Irrigation	The artificial application of water to the land or soil to assist plant growth	D20	U	Yes
Investment	An item that is purchased with the hope that it will generate income in the future		B	Yes
Limiting Factor	A social, economic or environmental factor that is the least developed; a community is only as successful as the least developed factor so we must continually try to improve the weakest one			
Malnourished	A health condition resulting from not eating enough food or not eating enough healthy food	A10		
Market	A place where products are bought and sold	D10		
Market Access	The ability of a business owner (e.g., farmer) to sell his or her goods to other people or companies		A	
Native Species	Plants or animals that naturally live in an area; for example, deer are a native species in Canada, zebras are not	A29		
Nearly 10 Billion	Nearly 10 000 000 000 is the estimated world population by the year 2050			Yes (Billion)
Nutrients	Humans consume plants and animals to obtain nourishment from these	A7	P	
Organic	Relating to living things; made without the use of artificial chemicals			
Photosynthesis	The process by which a plant turns water and carbon dioxide into food when the plant is exposed to sunlight	D6	N	

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Precise	To be exact; to be accurate			Yes
Precision Agriculture	The use of precision technology and equipment to attain profitability, efficiency and sustainability on the farm.			
Protect	To care for; to watch over			Yes
Riparian Area	A space between the land and the waterway ideally filled with native grass, bushes and trees	D8	F	
Ripple Effect (long version)	Describes how greater crop yields feed the farm family and allow them to invest in farm supplies and best management practices, which can produce even more yield. When farmers prosper, their communities benefit through investments in education, medical care, infrastructure and environmental improvements. As economic, environmental and social factors improve in a community, more opportunities are created throughout the region, country and eventually the world. The ripple will need to go all around the world if we are to sustainably feed the population.		D	
Profit	Money remaining after all expenses have been paid			Yes
Seed Varieties	Different kinds of the same type of seeds that can be planted to grow crops more successfully in different climates	A21	T	
Social	Relating to people or society in general; the welfare of human beings as members of society (associated with food, education, health and infrastructure)	D11	Y	Yes
Soil	The upper layer of the Earth that may be dug up or plowed, and in which plants grow	A18	M	Yes
Stakeholder	A person or group that has an interest or concern in an area; for example, a business's stakeholders would be customers, employees, investors and government; your parents, teachers and you are all stakeholders in your education			Yes
Stewardship	The management or care of something			Yes
Sustainable	Meeting the economic, social and environmental needs of the present without compromising the needs of the future	A19	J	Yes
Sustainable Agriculture	Using best farming practices to grow the most food and fiber on the land for long term economic, social and environmental success			
Techniques	Ways of doing things by using special knowledge or skill	D9		Yes
Technology	A scientific or industrial process, invention or method			
Tillage	The preparation of the land for growing crops; farmers use conservation tillage to minimize soil erosion and moisture loss	A5	H	Yes
Watershed	All of the land area that drains into the same body of water (e.g. river, lake or wetland), including areas such as parks, fields, schoolyards and even parking lots; watersheds know no political borders, whether national or international			Yes

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Wetlands	These marshy bodies of water are the kidneys of the environmental wetlands, filtering excess nutrients and helping prevent or reduce floods	A27	I	
Yield	To produce or provide something; a measurement of the amount of a crop that was harvested per unit of land (e.g., if 3 grains are harvested for each grain planted, that is a 1:3 yield)	D1	V	Yes

