

Independent Study on Major Events in Ecology by Professor Robberecht

There have been many events and scientists that have influenced the development of ecology. Ecology developed from natural science and plant geography in the 1700s, to a science that examines the interrelations of organisms and their environment. The science of ecology spans the scale from the individual organism to the ecosystem. The crossword puzzle below examines your mastery of the major events and scientists that have shaped the science of ecology.

Learning tip Print and solve the crossword puzzle. Alternate your study with repeated work on the puzzle until you can readily complete the puzzle without assistance of the learning materials.

Study materials for this crossword puzzle:

Textbooks

Chapters 1, *Elements of Ecology*, Smith & Smith, 8th edition
Section A (Optional), Instant Notes in Ecology, Mackenzie et al.

Course internet site

[Landmarks in Ecology](#) (with Table 1) The Science of Ecology, Brewer 1994 ([Reading Assignments](#))
Lecture presentation on *Course Introduction*
Interactive lesson on *Introduction to Ecology*, including the study questions and review section
Resources/Course references: *Summary of professional societies*

Across		Down	
3	Australian ecologist who published significant book in on animal population biology with L.C. Birch	1	Scientist who made significant contributions to the study of how species respond to competition
6	Journal devoted to ornithology	2	Ecologist who authored the highly influential book, 'Fundamentals of Ecology'
7	German scientist of the 1800s, whose 1903 book linked plant distribution to the environment	4	Forest type in Lucy Braun's work
10	The habitat in Henry Cowles investigations	5	Ecologist whose book, Silent Spring had great influence on the environmental movement in America
14	Ecologist who, with F.E. Clements, wrote Plant Ecology, a significant ecological book of the early 1900s	8	Danish ecologist credited with the first textbook on the science of ecology
16	Scientist who studied the nature of species	9	Ecologist in the field of population ecology
17	Word root meaning 'self'	11	American animal ecologist and first president of the Ecological Society of America
19	Ecologist who made significant advances in the area of interactions among species	12	The plant type of Clements and Weaver's studies
21	Abbreviation for the American professional society devoted to applied ecology of semi-arid lands	13	Scientist who developed the 'competitive exclusion principle'
23	Ecologist whose studies on sand dunes significantly influenced our understanding of succession	15	English scientist of the 1700s who developed theories on population growth
24	Ecologist whose studies on the interaction between butterflies and plants greatly influenced ecology	18	An ecologist who, with G.E. Likens, made significant contributions in the area ecosystem nutrient dynamics
25	Abbreviation for the oldest ecological society in Britain	20	The focus of Darwin's investigations
27	German naturalist and explorer of the 1700s who contributed to the early development of ecology	22	Influential American animal ecologist of the 1950s who studied community stability and diversity
31	Swiss ecologist who made significant contributions in the area of vegetation analysis	26	International research program of the mid-1960s on world biomes
33	American ecologist of the 1970s who authored a major book on evolutionary ecology	28	One of two scientists who developed a mathematical model of interspecific competition
35	The study of the interrelationships among organisms and their environment	29	British ecologist who greatly influenced the field of vegetation ecology
37	Premier American journal on the science of ecology	30	German scientist credited with the first use of the word 'ecology'
40	American ecologist whose work greatly influenced other studies on how communities are organized	32	A major division of ecology devoted to the study of communities and ecosystems
43	Greek word meaning 'home'	34	The division of ecology devoted to the study of individual species and their response to the environment
44	An American ecologist credited as the founder of physiological plant ecology	36	Noted ecologist who significantly advanced the study of succession and community development
45	Abbreviation for the largest ecological society in the world	38	Journal devoted to ecology
46	Focused in Clements and Weaver's work	39	The physical and biological factors which with an organism interacts
47	Abbreviation for the scientific society, started in the 1800s, devoted to the study of nature	41	Focused in Rachel Carson's book
48	American ecologist who made significant contributions in the area of ecosystems and biomes	42	One of two scientists who developed a mathematical model area of ecosystems and biomes of interspecific competition
		44	American ecologist who published a major book on the deciduous forest ecosystem of North America

