

**TABLE 1****Number of studies using each instructional setting.**

Classroom only	Classroom and other	Not described
19	57	14

**TABLE 2****Broad areas of focus within biosphere-related studies ( $n = 47$ ).**

Related to carbon cycling				Related to population studies			
Land cover	Carbon cycling	Carbon sequestration	Photosynthesis	Population studies	Biodiversity	Conservation	Historical data
15	12	5	4	13	13	5	5

**TABLE 3****Geographic scale of the study ( $n = 76$ ).**

Global	Regional	Regional and global	Local	Local and regional	Local and global	Local-to-global
26	4	9	15	7	7	8

Note. It was not possible to discern a scale in 14 of the studies.

**TABLE 4****Number of studies using each level of student-directed inquiry ( $n = 90$ ).**

Inquiry process	Level of student-directed inquiry			
	Student (1–2)	Student and instructor (3)	Instructor (4–5)	Not described
Question	2	18	63	7
Investigation design	1	52	23	14
Knowledge construction	3	72	2	13

Note. 1 = fully student-directed, 5 = fully teacher-directed).