### **CRPS B1 Crop Production CSLO #1**

 Upon successful completion of this course the student will be able to use known environmental needs of specific crop species and varieties to determine areas where they can be grown.

### Plan

- Develop or determine the test questions or assignments related to SLO #1
- Calculate % correct for each student
- Calculate number of students that met or exceeded 70% score

1		Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	%	Met Expectations
3	1	В	Е	D	С	А	Α	В	Α	А	В	А	А	Α	В	43%	
4         E         A         B         D         B         A         B         A         A         A         B         B         A         B         B         A         B         B         A         B         B         A         A         B         B         A         A         B         B         A         A         B         B         A         A         B         B         A         A         B         B         A         A         B         B         A         A         B         B         A         A         B         B         A         A         B         B         A         A         B         B         A         A         B         B         A         A         B         B         A         A         B         B         A         A         B         B         A         A         B         B         A         B         B         A         A         B         B         A         A         B         B         A         A         A         B         B         A         A         A         B         B         A         A         A         A	2	E	D	Α	D	А	А	В	А	А	А	В	Α	А	В	71%	X
S         E         A         B         D         A         A         B         A         A         B         B         A         B         B         A         B         B         A         B         B         A         B         B         A         B         B         A         B         B         A         B         A         B         A         B         A         B         A         B         A         B         A         B         A         B         A         B         A         B         A         B         A         B         A         B         A         A         A         A         B         D         A         A         B         A         A         A         A         B         B         A         A         A         A         B         B         A         A         A         B         B         A         A         A         B         B         A         A         A         A         B         B         A         A         A         A         B         B         A         A         A         A         B         B         A         A	3	Е	Α	В	D	В	А	В	А	А	А	А	В	Α	В	86%	X
C	4	Е	Α	В	D	В	А	В	А	А	А	В	В	Α	В	93%	X
7         E         A         B         A         B         A         B         A         B         A         B         A         B         A         B         A         B         A         B         A         B         A         B         A         B         A         A         A         A         A         B         A         A         A         A         A         B         A         A         A         A         A         A         B         A         A         A         B         A         A         A         A         A         A         A         A         A         B         A         A	5	Е	Α	В	D	А	Α	В	А	А	А	В	D	Α	В	86%	X
8         E         C         B         D         A         A         B         A         A         A         A         A         A         A         A         A         A         A         A         A         A         B         B         B         B         B         A         A         A         B         D         A         B         B         B         A         A         A         B         D         A         B         B         A         A         A         B         D         A         B         B         A         A         A         B         B         A         B         B         A         B         B         A         B         B         A         B         A         A         A         B         B         A         B         A         A         A         B         B         A         A         A         B         B         A         A         A         B         B         A         A         A         B         B         A         A         A         B         B         A         A         A         B         B         A         A	6	Е	Α	С	С	А	Α	В	А	А	А	В	В	Α	В	71%	X
9 E A B D B B B B A A A B D A B B 86% X  10 E C C D A A A B A B D A B B 86% X  11 E A B D A A B A B A A A B B C A B 79% X  11 E A B D A A B A B A A A B B D A B 86% X  12 E A B D A A B A B A A A B B D A A B B A A A B B B A B B A B B B A B B B A B B B B A B	7	E	Α	В	D	А	Α	В	А	В	Α	В	В	Α	В	79%	X
10   E   C   C   D   A   A   B   A   A   A   B   C   A   B   79%   X	8	E	С	В	D	А	А	В	А	А	А	А	С	Α	А	71%	X
11   E	9	Е	Α	В	D	В	В	В	А	А	А	В	D	Α	В	86%	X
12   E   A   B   D   B   A   B   A   A   A   B   D   A   A   86%   X     13   E   A   B   D   B   A   B   A   A   A   A   B   C   A   B   100%   X     14   D   D   A   E   A   A   B   A   A   A   A   A   A   A	10	E	С	С	D	А	А	В	А	А	А	В	С	Α	В	79%	X
13   E   A   B   D   B   A   B   A   A   A   B   C   A   B   100%   X     14   D   D   A   E   A   A   B   A   A   A   A   A   A   A	11	E	Α	В	D	А	Α	В	Α	Α	А	В	В	Α	В	86%	X
14         D         D         A         E         A         A         B         A	12	E	Α	В	D	В	Α	В	Α	Α	А	В	D	Α	А	86%	X
15         C         A         B         D         A         A         B         A         A         B         B         B         B         A         B         A         A         B         A         A         B         A         A         A         B         A         A         A         B         A         B         A         A         A         B         B         A         A         A         B         B         A         A         A         B         B         A         A         A         B         A	13	Е	Α	В	D	В	Α	В	Α	А	А	В	С	Α	В	100%	X
16         E         A         B         D         A         A         B         A         A         A         A         A         A         C         A         A         A         A         A         A         B         A         A         A         B         A         A         B         A         A         B         A         A         A         B         A         A         B         A         A         B         A         A         B         A         A         B         A         A         B         B         A         A         B         B         A         B         A         A         B         B         A         B         B         A         B         B         A         B         B         A         B         B         A         A         B         A	14	D	D	А	Е	А	А	В	А	А	А	А	А	А	А	36%	
17         E         A         B         D         A         A         C         A         A         A         B         A         A         B         A         A         B         A         A         B         A         A         B         A         A         B         B         A         A         B         B         A         A         B         B         A         A         B         B         A         A         B         B         A         A         B         B         A         A         B         B         A         A         B         B         A         A         B         B         A         A         A         B         A         A         A         A         A         C         A         B         A	15	С	Α	В	D	А	А	В	А	А	В	В	В	А	В	79%	X
18         E         A         B         A         A         B         A         A         A         B         B         A         A         B         B         A         B         B         A         B         B         A         A         B         B         B         A         A         B         B         B         A         A         A         B         B         A         A         B         B         A	16	Е	Α	В	D	А	А	В	А	А	А	А	D	А	А	71%	X
19         A         C         C         C         A         A         C         B         B         A         B         A         A         29%           20         D         A         C         A         B         A         B         A         A         A         C         A         B         A <td>17</td> <td>Е</td> <td>Α</td> <td>В</td> <td>D</td> <td>А</td> <td>А</td> <td>С</td> <td>Α</td> <td>А</td> <td>А</td> <td>В</td> <td>А</td> <td>А</td> <td>В</td> <td>79%</td> <td>X</td>	17	Е	Α	В	D	А	А	С	Α	А	А	В	А	А	В	79%	X
20         D         A         C         A         B         A         B         A         A         A         A         C         A         B         71%         X           21         E         A         C         A         A         A         A         A         A         B         57%           22         E         A         B         D         A         A         B         A         A         A         A         A         B         57%           23         D         C         B         D         A         A         B         A         A         A         C         A         B         64%           24         C         B         D         C         A         A         A         C         A         B         A         C         A         B         64%           25         C         B         B         D         A         A         C         A         A         A         A         A         A         A         A         B         64%           26         C         A         C         B         A         A	18	Е	Α	В	А	А	А	В	А	А	А	В	С	А	В	86%	X
21         E         A         C         A         A         A         A         A         A         B         57%           22         E         A         B         D         A         A         B         A         A         A         A         C         A         B         86%         X           23         D         C         B         D         A         A         B         A         A         A         C         A         B         64%           24         C         B         D         C         A         A         A         C         A         B         64%           25         C         B         B         D         A         A         C         A         B         36%           25         C         B         B         D         A         A         C         A         B         36%           25         C         B         B         D         A         A         A         A         A         A         A         B         64%           26         C         A         A         A         A         A	19	Α	С	С	С	А	А	С	В	В	А	В	В	А	А	29%	
22         E         A         B         D         A         A         B         A         A         A         A         A         A         B         B         A         A         A         A         C         A         B         B         A         B         B         A	20	D	Α	С	А	В	А	В	А	А	А	А	С	А	В	71%	X
23         D         C         B         D         A         B         A	21	Е	Α	С	А	А	А	С	А	А	А	А	D	А	В	57%	
24         C         B         D         C         A         A         A         C         A         B         A         C         A         B         36%           25         C         B         B         D         A         A         C         A         B         A         A         A         A         A         A         B         A         A         A         A         A         A         B         A         A         A         B         A         A <td>22</td> <td>Е</td> <td>Α</td> <td>В</td> <td>D</td> <td>А</td> <td>А</td> <td>В</td> <td>А</td> <td>А</td> <td>А</td> <td>А</td> <td>С</td> <td>А</td> <td>В</td> <td>86%</td> <td>X</td>	22	Е	Α	В	D	А	А	В	А	А	А	А	С	А	В	86%	X
25         C         B         B         D         A         A         C         A         B         A         A         A         A         A         A         B         A         A         A         A         A         B         A         A         A         B         A         A         A         B         A         A         A         A         B         A         A         A	23	D	С	В	D	А		В	А	А	А	А	С	А	В	64%	
26         C         A         C         E         A         A         A         B         A	24	С	В	D	С	А	А	А	С	Α	В	А	С	А	В	36%	
27         D         E         B         D         A         A         B         C         A         A         A         A         A         B         50%           28         A         C         B         D         B         A         B         A         A         B         D         A         A         71%         X           29         E         A         B         D         B         A         B         A         A         B         D         A         A         86%         X           30         D         C         E         D         A         A         B         A         A         B         A         A         B         64%           31         E         A         C         E         A         A         B         A         A         A         A         A         B         64%           32         E         D         A         A         B         A         A         A         A         A         G         A         A         64%           33         E         A         B         D         A         A	25	С	В	В	D	А	А	С	А	А	А	А	С	А	В	64%	
28         A         C         B         D         B         A         B         A         A         A         B         D         A         A         71%         X           29         E         A         B         D         B         A         B         A         A         B         D         A         A         86%         X           30         D         C         E         D         A         A         B         A         A         B         A         C         A         B         64%           31         E         A         C         E         A         A         B         A         A         A         A         A         D         A         B         64%           32         E         D         A         D         A         A         B         A         A         A         A         A         G         A         A         64%           33         E         A         B         D         A         A         B         A         A         A         A         B         93%         X           34         E	26	С	Α	С	Е	А	А	А	В	А	А	А	A	А	В	36%	
29         E         A         B         D         B         A         B         A         A         B         D         A         A         86%         X           30         D         C         E         D         A         A         B         A         A         B         A         C         A         B         64%           31         E         A         C         E         A         A         B         A         A         A         A         D         A         B         64%           32         E         D         A         D         A         A         B         A         A         A         A         G         A         A         G         A         A         G         A         A         G         A         A         G         A         A         G         A         A         A         A         A         A         A         A         A         A         A         A         A         A         B         G         A         A         B         G         A         B         G         A         A         B         G <td< td=""><td>27</td><td>D</td><td>E</td><td>В</td><td>D</td><td>А</td><td>А</td><td>В</td><td>С</td><td>А</td><td>А</td><td>А</td><td>А</td><td>А</td><td>В</td><td>50%</td><td></td></td<>	27	D	E	В	D	А	А	В	С	А	А	А	А	А	В	50%	
30         D         C         E         D         A         A         B         A         A         B         A         C         A         B         64%           31         E         A         C         E         A         A         B         A         A         A         A         D         A         B         64%           32         E         D         A         D         A         A         B         A         A         A         C         A         A         64%           33         E         A         B         D         A         A         B         A         A         A         B         C         A         B         93%         X           34         E         A         E         D         A         A         B         A         A         A         A         A         A         A         64%           35         E         A         C         C         B         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A	28	Α	С	В	D	В	А	В	А	А	А	В	D	А	А	71%	х
31         E         A         C         E         A         A         B         A         A         A         A         D         A         B         64%           32         E         D         A         D         A         A         B         A         A         A         C         A         A         64%           33         E         A         B         D         A         A         B         A         A         B         C         A         B         93%         X           34         E         A         E         D         A         A         B         A         A         A         A         A         64%           35         E         A         C         C         B         A	29	Е	А	В	D	В	А	В	А	А	А	В	D	Α	А	86%	X
32         E         D         A         D         A         A         B         A         A         A         A         C         A         A         64%           33         E         A         B         D         A         A         B         A         A         B         C         A         B         93%         X           34         E         A         E         D         A         A         B         A         A         A         A         D         A         A         64%           35         E         A         C         C         B         A         A         A         A         A         A         A         A         50%	30	D	С	Е	D	А	А	В	А	А	В	А	С	Α	В	64%	
33 E A B D A A B A A B C A B 93% X 34 E A E D A A B A A A A D A A 64% 35 E A C C B A A A A A A A A A A A A A A A A	31	Е	Α	С	Е	А	А	В	А	А	А	А	D	А	В	64%	
34 E A E D A A B A A A D A A 64% 35 E A C C B A A A A A A A A A A A A A A A A	32	Е	D	А	D	А	А	В	А	А	А	А	С	А	А	64%	
35 E A C C B A A A A A A A 50%	33	Е	Α	В	D	А	А	В	А	А	А	В	С	А	В	93%	Х
	34	Е	Α	Е	D	А	А	В	А	А	А	А	D	А	А	64%	
	35	Е	Α	С	С	В	А	А	А	А	А	А		А	А	50%	
36 E B E A A B A A B B A A 64%	36	Е	Е	В	Е	А	А	В	А	А	А	В	В	А	А	64%	
37 C D B D B A B A A A A G A G 64%	37	С	D		D	В	А	В	А	А	А		С	А			

#### **Assess** CRPSB1 - Principles of Crop Production

CSLO	SLO Performance				
CSLO	Expected	Fall 2019			
1. Upon successful completion of this course, the student will be able to use known environmental needs of specific crop species and varieties to determine areas where they can be grown.	70 %	56.8 %			
2. Upon successful completion of this course, the student will be able to compare and contrast different methods of soil preparation and seeding to select the most appropriate method for a specific crop species and variety.		43.2 %			
3. Upon successful completion of this course, the student will be able to compare and contrast different methods of crop management to select the most appropriate methods for a specific crop species and variety.	70 %	78.4 %			
4. Upon successful completion of this course, the student will be able to plan and complete an agronomic field experiment.	70 %	94.4 %			

# Reflect

- The number of SLOs for this course was reduced from eight in 2017 to four in 2019. A few of the 2017 SLOs were combined to make SLO #1 for this course.
- Only 57% of the students met expectations for SLO #1, which is not much different than the results of the combined SLOs from 2017.
- Unlike in 2017, there is now ample course content related to this new combined SLO.
- After looking at specific test questions related to this SLO that had low performance levels (slide 2), it could be possible that those questions are poorly written and ambiguous.

## Refine

 Scrutinize all test questions and assignments related to SLO #1 for any ambiguity.

Add clarifying materials in lecture and lab related to this SLO

 Flag this SLO for further follow-up because this is the second class in a row that have failed to meet expectations.