

APPENDIX A

How often is it Appropriate to use each of these practices in what is considered a sustainable production system? Always, Sometimes, Never, or Don't Know.

Analysis of responses by stakeholder group

Table A.1 Sustainable Practice?: Use of Organic Seeds

Stakeholder Group	Percentage of Respondents			
	Don't Know	Never	Sometimes	Always
Farm/Ranch Owner	13.48	17.98	50.56	17.98
Farm/Ranch Operator	24.76	7.62	61.9	5.71
Agbusiness/ Support Industry Owner	22.22	0	74.07	3.7
Agbusiness/ Support Industry Employee	17.53	7.22	68.04	7.22
University Instructor	0	0	100	0
University Researcher	1.56	14.06	78.13	6.25
University Extension	4.44	20	71.11	4.44
General Farm Organization	0	6.67	86.67	6.67
Commodity Specific Organization	0	0	100	0
Ag-based Non-profit	0	4.55	40.91	54.55
Other -Non-profit	0	6.67	83.33	10
Student	14.29	2.04	77.55	6.12
Government	10	0	80	10
Total	84	70	420	72
Frequency Missing = 13				

Table A.2 Sustainable Practice? : Use of GMO Seed to Reduce Needs for Inputs

	Percentage of Respondents			
	Don't Know	Never	Sometimes	Always
Farm/Ranch Owner	19.1	15.73	60.67	4.49
Farm/Ranch Operator	41.84	16.33	35.71	6.12
Agbusiness/ Support Industry Owner	66.67	0	28.57	4.76
Agbusiness/ Support Industry Employee	24.44	8.89	65.56	1.11
University Instructor	0	0	100	0
University Researcher	0	1.54	86.15	12.31
University Extension	0	0	89.36	10.64
General Farm Organization	0	35.71	57.14	7.14
Commodity Specific Organization	0	0	100	0
Ag-based Non-profit	0	72.73	27.27	0
Other -Non-profit	0	34.48	55.17	10.34
Student	10.64	38.3	46.81	4.26
Government	11.11	0	77.78	11.11
Total	117	102	369	36
Frequency Missing = 35				

Table A.3 Sustainable Practice? : Use of GMO Seed to Improve Yields

	Percentage of Respondents			
	Don't Know	Never	Sometimes	Always
Farm/Ranch Owner	19.1	15.73	60.11	5.06
Farm/Ranch Operator	30.21	10.42	51.04	8.33
Agbusiness/ Support Industry Owner	60.87	0	26.09	13.04
Agbusiness/ Support Industry Employee	20.43	7.53	70.97	1.08
University Instructor	0	0	100	0
University Researcher	0	4.62	56.92	38.46
University Extension	0	0	59.57	40.43
General Farm Organization	0	21.43	71.43	7.14
Commodity Specific Organization	0	0	100	0
Ag-based Non-profit	0	68.18	31.82	0
Other -Non-profit	37.93	31.03	24.14	6.9
Student	8.51	42.55	40.43	8.51
Government	11.11	0	77.78	11.11
Total	112	95	347	73
Frequency Missing = 32				

Table A.4 Sustainable Practice? : Use of Organic Inputs in Crop Production

	Percentage of Respondents			
	Don't Know	Never	Sometimes	Always
Farm/Ranch Owner	16.85	4.49	69.1	9.55
Farm/Ranch Operator	32.65	14.29	45.92	7.14
Agbusiness/ Support Industry Employee	43.48	4.35	47.83	4.35
Agbusiness/ Support IndustryEmployee	20	6.67	71.11	2.22
University Instructor	0	0	100	0
University Researcher	1.56	15.63	76.56	6.25
University Extension	0	2.22	91.11	6.67
General Farm Organization	0	0	100	0
Commodity Specific Organization	0	0	100	0
Ag-based Non-profit	0	4.55	40.91	54.55
Other -Non-profit	0	7.14	82.14	10.71
Student	11.36	2.27	79.55	6.82
Government	11.11	0	66.67	22.22
Total	97	44	424	54
Frequency Missing = 40				

Table A.5 Sustainable Practice? : Use Organic Feed In Livestock Production

	Percentage of Respondents			
	Don't Know	Never	Sometimes	Always
Farm/Ranch Owner	4.49	21.35	68.54	5.62
Farm/Ranch Operator	17.35	24.49	52.04	6.12
Agbusiness/ Support Industry Employee	8.7	21.74	65.22	4.35
Agbusiness/ Support IndustryEmployee	5.26	17.89	74.74	2.11
University Instructor	0	0	100	0
University Researcher	1.56	14.06	78.13	6.25
University Extension	0	2.22	93.33	4.44
General Farm Organization	0	28.57	57.14	14.29
Commodity Specific Organization	0	0	100	0
Ag-based Non-profit	0	4.55	40.91	54.55
Other -Non-profit	10.34	0	82.76	6.9
Student	11.36	2.27	79.55	6.82
Government	11.11	11.11	55.56	22.22
Total	42	101	436	46
Frequency Missing = 34				

Table A.6 Sustainable Practice? : Use GMO Feed in Livestock Production

	Percentage of Respondents			
	Don't Know	Never	Sometimes	Always
Farm/Ranch Owner	6.21	31.64	61.02	1.13
Farm/Ranch Operator	22.83	25	45.65	6.52
Agbusiness/ Support Industry Employee	13.04	47.83	34.78	4.35
Agbusiness/ Support Industry Employee	31.58	13.68	51.58	3.16
University Instructor	0	0	100	0
University Researcher	18.75	7.81	60.94	12.5
University Extension	0	4.44	64.44	31.11
General Farm Organization	0	28.57	71.43	0
Commodity Specific Organization	0	0	100	0
Ag-based Non-profit	0	54.55	45.45	0
Other -Non-profit	48.28	20.69	24.14	6.9
Student	58.14	11.63	25.58	4.65
Government	11.11	11.11	55.56	22.22
Total	117	138	322	40
Frequency Missing = 42				

Table A.7 Sustainable Practice? : Use Animal Waste as Fertilizer (Recommended Rates)

	Percentage of Respondents			
	Don't Know	Never	Sometimes	Always
Farm/Ranch Owner	3.93	6.18	64.04	25.84
Farm/Ranch Operator	0	1.02	77.55	21.43
Agbusiness/ Support Industry Employee	0	0	44	56
Agbusiness/ Support Industry Employee	2.02	1.01	63.64	33.33
University Instructor	0	0	100	0
University Researcher	0	4.62	75.38	20
University Extension	0	0	48.94	51.06
General Farm Organization	0	0	100	0
Commodity Specific Organization	0	0	100	0
Ag-based Non-profit	0	9.09	40.91	50
Other -Non-profit	0	0	96.55	3.45
Student	0	4.65	81.4	13.95
Government	10	0	50	40
Total	10	20	431	173
Frequency Missing = 25				

Table A.8 Sustainable Practice? : Use Commercial Fertilizers at Recommended Rates

	Percentage of Respondents			
	Don't Know	Never	Sometimes	Always
Farm/Ranch Owner	0	7.26	73.18	19.55
Farm/Ranch Operator	0	9.18	60.2	30.61
Agbusiness/ Support Industry Employee	0	0	24	76
Agbusiness/ Support Industry Employee	1.08	3.23	52.69	43.01
University Instructor	0	0	100	0
University Researcher	0	10.94	50	39.06
University Extension	0	8.51	36.17	55.32
General Farm Organization	0	7.14	92.86	0
Commodity Specific Organization	0	0	100	0
Ag-based Non-profit	0	22.73	77.27	0
Other -Non-profit	0	3.45	89.66	6.9
Student	0	4.65	69.77	25.58
Government	10	0	70	20
Total	2	45	391	190
Frequency Missing = 31				

Table A.9 Sustainable Practice? : Use of Organic Pesticides

	Percentage of Respondents			
	Don't Know	Never	Sometimes	Always
Farm/Ranch Owner	19.66	19.1	43.82	17.42
Farm/Ranch Operator	35.42	10.42	51.04	3.13
Agbusiness/ Support Industry Employee	40	15	45	0
Agbusiness/ Support IndustryEmployee	50	8.33	38.54	3.13
University Instructor	0	0	100	0
University Researcher	0	35.94	64.06	0
University Extension	0	0	93.62	6.38
General Farm Organization	21.43	28.57	50	0
Commodity Specific Organization	0	0	100	0
Ag-based Non-profit	0	4.55	59.09	36.36
Other -Non-profit	0	6.9	82.76	10.34
Student	0	0	76.19	23.81
Government	11.11	11.11	66.67	11.11
Total	129	86	344	62
Frequency Missing = 38				

Table A.10 Sustainable Practice? : Use of Commercial Pesticides

	Percentage of Respondents			
	Don't Know	Never	Sometimes	Always
Farm/Ranch Owner	3.37	6.74	73.6	16.29
Farm/Ranch Operator	5.26	4.21	77.89	12.63
Agbusiness/ Support Industry Employee	0	5	50	45
Agbusiness/ Support Industry Employee	9.38	6.25	75	9.38
University Instructor	0	0	100	0
University Researcher	0	1.56	46.88	51.56
University Extension	0	0	36.17	63.83
General Farm Organization	0	7.14	92.86	0
Commodity Specific Organization	0	0	100	0
Ag-based Non-profit	0	0	100	0
Other -Non-profit	0	13.79	86.21	0
Student	0	0	45.24	54.76
Government	0	0	77.78	22.22
Total	20	29	424	147
Frequency Missing = 39				

Table A.11 Sustainable Practice? : Use of Buffers to Reduce Nutrient Runoff

	Percentage of Respondents			
	Don't Know	Never	Sometimes	Always
Farm/Ranch Owner	2.86	10.29	56.57	30.29
Farm/Ranch Operator	5.26	5.26	72.63	16.84
Agbusiness/ Support Industry Employee	0	14.29	47.62	38.1
Agbusiness/ Support Industry Employee	9.38	6.25	68.75	15.63
University Instructor	0	0	100	0
University Researcher	0	0	73.44	26.56
University Extension	0	0	65.96	34.04
General Farm Organization	0	0	100	0
Commodity Specific Organization	0	0	100	0
Ag-based Non-profit	0	4.55	31.82	63.64
Other -Non-profit	0	0	100	0
Student	2.38	2.38	80.95	14.29
Government	0	0	50	50
Total	20	34	415	150
Frequency Missing = 40				

Table A.12 Sustainable Practice? : Use of Cover Crops to Reduce Soil Loss

	Percentage of Respondents			
	Don't Know	Never	Sometimes	Always
Farm/Ranch Owner	3.45	2.87	60.34	33.33
Farm/Ranch Operator	3.13	14.58	48.96	33.33
Agbusiness/ Support Industry Employee	0	9.52	28.57	61.9
Agbusiness/ Support Industry Employee	9.38	5.21	69.79	15.63
University Instructor	0	0	100	0
University Researcher	0	0	71.88	28.13
University Extension	0	0	72.34	27.66
General Farm Organization	0	0	100	0
Commodity Specific Organization	0	0	100	0
Ag-based Non-profit	0	0	54.55	45.45
Other -Non-profit	0	0	100	0
Student	16.67	7.14	59.52	16.67
Government	0	0	50	50
Total	25	29	394	171
Frequency Missing = 40				

Table A.13 Sustainable Practice?: Use of No Till to Reduce Soil Loss

	Percentage of Respondents			
	Don't Know	Never	Sometimes	Always
Farm/Ranch Owner	2.87	5.17	68.97	22.99
Farm/Ranch Operator	18.48	7.61	64.13	9.78
Agbusiness/ Support Industry Owner	10.53	0	84.21	5.26
Agbusiness/ Support Industry Employee	10.31	6.19	70.1	13.4
University Instructor	0	0	100	0
University Researcher	0	0	81.25	18.75
University Extension	0	0	91.49	8.51
General Farm Organization	0	0	100	0
Commodity Specific Organization	0	0	100	0
Ag-based Non-profit	0	0	77.27	22.73
Other -Non-profit	0	0	100	0
Student	2.38	2.38	85.71	9.52
Government	0	0	80	20
Total	35	23	466	90
Frequency Missing = 45				

Table A.14 Sustainable Practice? : Use of Conventional Till to Increase Yield/Weed Control

	Percentage of Respondents			
	Don't Know	Never	Sometimes	Always
Farm/Ranch Owner	3.47	5.78	63.58	27.17
Farm/Ranch Operator	5.49	6.59	79.12	8.79
Agbusiness/ Support Industry Employee	4.76	0	80.95	14.29
Agbusiness/ Support IndustryEmployee	11.34	5.15	73.2	10.31
University Instructor	0	0	100	0
University Researcher	0	0	81.25	18.75
University Extension	0	0	100	0
General Farm Organization	0	0	100	0
Commodity Specific Organization	0	0	100	0
Ag-based Non-profit	0	13.64	86.36	0
Other -Non-profit	0	0	100	0
Student	2.38	2.38	76.19	19.05
Government	0	0	77.78	22.22
Total	24	25	474	90
Frequency Missing = 46				

Table A.15 Sustainable Practice? : Use of Manure Management to Reduce Nutrient Runoff

	Percentage of Respondents			
	Don't Know	Never	Sometimes	Always
Farm/Rancher Owner	10.98	2.89	68.79	17.34
Farm/Ranch Operator	4.49	1.12	65.17	29.21
Agbusiness/ Support Industry Employee	0	0	65	35
Agbusiness/ Support Industry Employee	10.2	5.1	72.45	12.24
University Instructor	0	0	100	0
University Researcher	0	1.56	79.69	18.75
University Extension	0	0	97.87	2.13
General Farm Organization	0	0	85.71	14.29
Commodity Specific Organization	0	0	100	0
Ag-based Non-profit	0	4.55	95.45	0
Other -Non-profit	0	0	82.76	17.24
Student	2.38	4.76	71.43	21.43
Government	11.11	0	44.44	44.44
Total	35	15	453	108
Frequency Missing = 48				

Table A.16 Sustainable Practice? : Recycle/capture Water for Use in Production/Processing

	Percentage of Respondents			
	Don't Know	Never	Sometimes	Always
Farm/Ranch Owner	2.86	5.14	63.43	28.57
Farm/Ranch Operator	26.04	10.42	50	13.54
Agbusiness/ Support Industry Employee	19.05	0	57.14	23.81
Agbusiness/ Support Industry Employee	9.09	6.06	66.67	18.18
University Instructor	0	0	66.67	33.33
University Researcher	0	4.69	70.31	25
University Extension	0	0	61.7	38.3
General Farm Organization	0	0	71.43	28.57
Commodity Specific Organization	0	0	100	0
Ag-based Non-profit	0	13.64	86.36	0
Other -Non-profit	17.24	6.9	75.86	0
Student	2.38	23.81	64.29	9.52
Government	0	0	60	40
Total	49	43	398	133
Frequency Missing = 36				