

Social Problem Solving Scale

Grade 2 /Year 3

Fast Track Project Technical Report

Anne Corrigan

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Citation

Instrument

Conduct Problems Prevention Research Group (CPPRG). (1991). *Social Problem Solving Scale*. Available from the Fast Track Project Web site, <http://www.fasttrackproject.org>

Report

Corrigan, A. (2003). *Social Problem Solving Scale, Grade 2 /Year 3* (Fast Track Project Technical Report). Available from the Fast Track Project Web site, <http://www.fasttrackproject.org>

Data Sources

Unscored: C3B

Scored: SPS3

I. Scale Description

The Social Problem Solving Scale assesses the way a child resolves problems encountered in typical social settings with other children. The Social Problem Solving Scale contains eight drawings of social situations with children. An interviewer elicits information from the child that expresses how the child would interact with the children in each picture. The interviewer records a code for the child's response. The code represents one of six response categories.

The drawings depict two types of social situations. Four of the situations show a solitary child who would like to join in an activity with other children; for example, playing on a jungle gym, or joining in a game of tag. In these situations the child's task is to *solicit social involvement*. The other four drawings show a child who is being teased or frustrated by another child; for example, the other child will not share a swing, or the other child pushes a child out of a line. In these situations the respondent's task is to *resolve a social conflict*. The drawings use stick figures so that race and gender are neutral.

The interviewer reads a script describing each social situation, and asks the respondent to take the role of one of the children in the drawing. The interviewer prompts the child for three responses to each situation. Following is an example of an interview.

Sample Interview for a Social Problem Solving Picture

Drawing: Several children playing on a jungle gym. Another child stands apart from those playing on the gym, looking at those playing.

Interviewer: "Pretend that this is YOU..." [Interviewer points to solitary child]
"...and that this is COLLEEN/JOSH" [interviewer points to one of the children on the jungle gym]. "COLLEEN/JOSH and some other kids are playing on the jungle gym at school. YOU would like to play with COLLEEN/JOSH and the other kids, but they haven't asked you. What could YOU say or do to get to play with COLLEEN/JOSH and the other kids?"

After the child answers, the interviewer prompts for two more responses:

Prompt 1:

"What's another thing you could do or say so that YOU could get to play with COLLEEN/JOSH and the other kids?"

Prompt 2:

"Can you think of anything else that YOU could do or say so that YOU could get to play with COLLEEN/JOSH and the other kids?"

Interviewers probe for more information in cases where the child says he/she would seek out an adult. Responses that involve an adult must be clarified to determine how to categorize them. Similarly, interviewers probe for clarification when the response is vague; for example: "I'd be nice," or "I'd be mad".

Incomplete and vague responses

If the child gives fewer than three answers, the interviewer repeats Prompt 2. If the child again fails to give a valid answer, the interviewer enters a code indicating that the child did not provide further novel responses. If the child repeats a previous answer verbatim, the interviewer does not record the verbatim response and repeats Prompt 1. If the child again repeats a previous response, the interviewer proceeds to the next picture in the series without recording any of the repeated responses.

A similar situation occurs when the child gives the same response worded in different ways. For example, the child may say "I'd be nice," followed by "I'd be really nice" as the next response. After two such answers, the interviewer attempts to elicit a different response, using a comment such as: "Well, being nice is one thing you could do, what's something different you could say or do?" If the child gives a different response, the interviewer records it. If the child again gives the same response, the interviewer codes the multiple, repeated responses as one response, and proceeds to the next picture in the series.

Scoring

Scoring for the Social Problem Solving Scale is conducted as follows:

1. The interviewer assigns the code for a response category to each verbal response for each picture. The categories and codes are: Aggressive (0), Competent (1), Authority/Punish (2), Authority/Intervene (3), Passive/Inept (4), Irrelevant/Other (5). (Detailed descriptions of each category are in the following table.) If a response fits more than one category, it is assigned to the category with the lowest code number.

Social Problem Solving Scale Response Categories

Code	Category	Description
0	Aggressive	All forms of physical or verbal aggression, also threats of any kind.
1	Competent	All responses that suggest a direct, socially appropriate way of handling the situation. Some forms that competent responses can take are: asking, making deals, bribing, assertively telling, sharing, trading, and joining in.
2	Authority/Punish	Appeals to some authority figure to punish the provocateur in some way. Authority figures include parents, teachers, other school personnel, and older relatives.
3	Authority/Intervene	Appeals to authority figures to intervene on the child's behalf, rather than punishing the provocateur.
4	Passive/Inept	Passive or nonassertive responses to the depicted situation.
5	Irrelevant/Other	Nonsense responses and other answers that do not fit into the other categories
6	Unable to Provide Further Responses	The child has been issued both prompts and cannot come up with a novel response.

2. The total number of valid responses for each picture is calculated. A valid response is a response that can be assigned to a category. Inept or irrelevant responses are valid. Repetitive responses are an example of invalid responses.
3. The percent of responses in each category for each picture is calculated by dividing the number of responses in each category by the total number of valid responses. This calculation yields *Picture response percentages*.
4. The mean of each response category percentage over the eight pictures is calculated to yield *Mean-percentages across pictures*.

II. Report Sample

This report contains data collected on Cohort 1, Year 3. The data include a high-risk control sample (n=155) and a normative sample (n = 387) for a total N = 463, including overlap. Of the 463 subjects, 44 are missing coded responses for all pictures, including 31 from the normative group (6 from Durham, 8 from Washington, 7 from Pennsylvania, and 10 from Nashville), and 13 from the control group (4 from Durham, 2 from Nashville, 3 from Pennsylvania, and 4 from Washington), with overlap between the normative and control groups. None of these measures was used in the analyses.

III. Scaling

For each response category, the alpha coefficients for *picture response percentages* are in the table below.

	Normative Sample	Control Sample
Aggressive	0.71	0.75
Competent	0.70	0.74
Authority- Punish	0.41	0.36
Authority/Intervene	0.56	0.51
Passive/Inept	0.58	0.59
Irrelevant/Other	0.40	0.51

IV. Differences Between Groups

T-tests of means of the *mean percentages across pictures* between the normative and control samples yielded the following results:

	Normative Sample		Control Sample		DF	t Value	Pr > |t|
	Mean	SD	Mean	SD			
Aggressive	0.10	0.11	0.13	0.14	423	2.38	0.028
Competent	0.75	0.15	0.69	0.16	423	-3.86	0.0001
Authority/Punish	0.03	0.05	0.04	0.05	423	2.41	0.02
Authority/Intervene	0.05	0.06	0.06	0.06	423	1.39	0.16
Passive/Inept	0.06	0.08	0.07	0.09	423	1.01	0.31
Irrelevant/Other	0.002	0.01	0.004	0.02	423	1.07	0.29

V. Recommendations for Use

T-tests of mean percentages across pictures (MPAs) show a significant difference between the normative and control groups for the Aggressive category, the Competent category and the Authority/Punish category. Coefficient alphas are modest among the six categories, except for the Authority/Punish category, which is low. However, given that multiple interviewers administered the measure for Year 3, and that the category assigned to each response is subject to the interviewer's judgment and interpretation, modest alphas are not surprising.

For the control sample, the distribution of each mean percentage across pictures shows a floor effect for the Aggressive category (49% of scores ≤ 0.06), the Irrelevant category (97% of scores ≤ 0.06), the Authority/Punish category (71% of scores ≤ 0.06), the Authority/Intervene category (62% of scores ≤ 0.06), and the Passive/Inept category (60% of scores ≤ 0.06),

In the normative sample, the distribution of each mean percentage score shows a floor effect for the Aggressive category (48% of scores ≤ 0.06), the Authority/Intervene category (66% of scores ≤ 0.06), the Irrelevant category (99% of scores ≤ 0.06), the Authority/Punish category (79% of scores ≤ 0.06), and the Passive/Inept category (62% of scores ≤ 0.06).

As an estimate of difficulty, the mean number of responses per picture for the combined normative and control groups is in the table below. None of the eight pictures stands out as unusually difficult, compared to the other pictures.

Variable	Label	Mean	N	Minimum	Maximum
sps3NT1	Mean number of responses, Picture 1	2.89	425	1.00	3.00
sps3NT2	Mean number of responses, Picture 2	2.92	422	1.00	3.00
sps3NT3	Mean number of responses, Picture 3	2.90	425	1.00	3.00
sps3NT4	Mean number of responses, Picture 4	2.84	425	1.00	3.00
sps3NT5	Mean number of responses, Picture 5	2.90	423	1.00	3.00
sps3NT6	Mean number of responses, Picture 6	2.78	423	1.00	3.00
sps3NT7	Mean number of responses, Picture 7	2.92	423	1.00	3.00
sps3NT8	Mean number of responses, Picture 8	2.87	423	1.00	3.00

VI, Item and Scale Means and SDs

**Means and Standard Deviations
Mean Percentages Across Pictures
Cohort 1, Year 3, Normative Sample**

Variable	Label	Mean	N	Std Dev	Minimum	Maximum
sps3MPA	Aggression Across Pictures-Normative	0.10	356	0.11	0.00	0.79
sps3MPC	Competence Across Pictures-Normative	0.73	356	0.15	0.00	1.00
sps3MPI	Authority/Intervene Across Pictures-Normative	0.06	356	0.06	0.00	0.38
sps3MPR	Irrelevant Across Pictures-Normative	0.00	356	0.02	0.00	0.17
sps3MPP	Passive-Inept Across Pictures-Normative	0.07	356	0.08	0.00	0.50
sps3MPU	Authority/Punish Across Pictures-Normative	0.03	356	0.05	0.00	0.29

**Means and Standard Deviations
Mean percentages Across Pictures
Cohort 1, Year 3, Control Sample**

Variable	Label	Mean	N	Std Dev	Minimum	Maximum
sps3MPA	Aggression Across Pictures-Control	0.13	142	0.14	0.00	0.92
sps3MPC	Competence Across Pictures-Control	0.69	142	0.16	0.08	1.00
sps3MPI	Authority/Intervene Across Pictures-Control	0.06	142	0.07	0.00	0.29
sps3MPR	Irrelevant Across Pictures-Control	0.00	142	0.02	0.00	0.17
sps3MPP	Passive-Inept Across Pictures-Control	0.07	142	0.09	0.00	0.35
sps3MPU	Authority/Punish Across Pictures-Control	0.04	142	0.05	0.00	0.29

VII. Item and Subscale Correlations

**Correlations
Mean Percentages Across Pictures
Combined Normative and Control Sample, Year 3**

Pearson Correlation Coefficients, N = 425 Prob > |r| under H0: Rho=0						
	sps3MPA	sps3MPC	sps3MPI	sps3MPR	sps3MPP	sps3MPU
sps3MPA Mean pct of Agg resps all pics SPS Y3	1.000 0.000	-0.721 0.000	-0.126 0.009	0.167 0.001	-0.101 0.037	0.068 0.163
sps3MPC Mean pct of Com resps all pics SPS Y3	-0.721 0.000	1.000	-0.249 0.000	-0.213 0.000	-0.411 0.000	-0.319 0.000
sps3MPI Mean pct of Int resps all pics SPS Y3	-0.126 0.009	-0.249 0.000	1.000	-0.062 0.202	-0.020 0.678	-0.108 0.026
sps3MPR Mean pct of Irr resps all pics SPS Y3	0.167 0.001	-0.213 0.000	-0.062 0.202	1.000	-0.051 0.290	0.107 0.028
sps3MPP Mean pct of Pas resps all pics SPS Y3	-0.101 0.037	-0.411 0.000	-0.020 0.678	-0.051 0.290	1.000	-0.037 0.443
sps3MPU Mean pct of Pun resps all pics SPS Y3	0.068 0.163	-0.319 0.000	-0.108 0.026	0.107 0.028	-0.037 0.443	1.000

Correlations
Picture Response Percentages.
Combined Normative and Control Samples, Year 3

Pearson Correlation Coefficients, N = 420 Prob > |r| under H0: Rho=0												
	sps3PA1	sps3PC1	sps3PU1	sps3PI1	sps3PP1	sps3PR1	sps3PA2	sps3PC2	sps3PU2	sps3PI2	sps3PP2	sps3PR2
sps3PA1 Pct Agg resps to pic I SPS Y3	1.000	-0.593 0.000	-0.042 0.393	-0.030 0.540	-0.163 0.001	-0.009 0.850	0.241 0.000	-0.264 0.000	0.083 0.091	0.019 0.695	0.140 0.004	0.049 0.316
sps3PC1 Pct Com resps to pic I SPS Y3	-0.593 0.000	1.000	-0.125 0.010	-0.411 0.000	-0.443 0.000	-0.152 0.002	-0.170 0.000	0.211 0.000	-0.045 0.359	-0.090 0.067	-0.117 0.017	-0.010 0.846
sps3PU1 Pct Pun resps to pic I SPS Y3	-0.042 0.393	-0.125 0.010	1.000	-0.097 0.047	-0.108 0.026	0.033 0.499	0.066 0.179	-0.067 0.167	0.146 0.003	-0.033 0.498	0.033 0.498	-0.027 0.583
sps3PI1 Pct Int resps to pic I SPS Y3	-0.030 0.540	-0.411 0.000	-0.097 0.047	1.000	-0.114 0.019	-0.004 0.933	0.060 0.221	-0.051 0.301	-0.050 0.306	0.082 0.095	-0.023 0.633	0.039 0.431
sps3PP1 Pct Pas resps to pic I SPS Y3	-0.163 0.001	-0.443 0.000	-0.108 0.026	-0.114 0.019	1.000	-0.009 0.848	-0.080 0.100	0.038 0.432	-0.041 0.407	0.067 0.169	0.021 0.661	-0.057 0.246
sps3PR1 Pct Irr resps to pic I SPS Y3	-0.009 0.850	-0.152 0.002	0.033 0.499	-0.004 0.933	-0.009 0.848	1.000	-0.021 0.661	0.008 0.867	-0.011 0.825	-0.019 0.703	0.029 0.557	-0.015 0.757
sps3PA2 Pct Agg resps to pic J SPS Y3	0.241 0.000	-0.170 0.000	0.066 0.179	0.060 0.221	-0.080 0.100	-0.021 0.661	1.000	-0.695 0.000	0.076 0.118	0.074 0.129	0.018 0.711	0.097 0.047
sps3PC2 Pct Com resps to pic J SPS Y3	-0.264 0.000	0.211 0.000	-0.067 0.167	-0.051 0.301	0.038 0.432	0.008 0.867	-0.695 0.000	1.000	-0.256 0.000	-0.331 0.000	-0.590 0.000	-0.300 0.000
sps3PU2 Pct Pun resps to pic J SPS Y3	0.083 0.091	-0.045 0.359	0.146 0.003	-0.050 0.306	-0.041 0.407	-0.011 0.825	0.076 0.118	-0.256 0.000	1.000	-0.012 0.800	0.080 0.102	-0.010 0.837
sps3PI2 Pct Int resps to pic J SPS Y3	0.019 0.695	-0.090 0.067	-0.033 0.498	0.082 0.095	0.067 0.169	-0.019 0.703	0.074 0.129	-0.331 0.000	-0.012 0.800	1.000	-0.030 0.540	-0.017 0.723
sps3PP2 Pct Pas resps to pic J SPS Y3	0.140 0.004	-0.117 0.017	0.033 0.498	-0.023 0.633	0.021 0.661	0.029 0.557	0.018 0.711	-0.590 0.000	0.080 0.102	-0.030 0.540	1.000	-0.024 0.620
sps3PR2 Pct Irr resps to pic J SPS Y3	0.049 0.316	-0.010 0.846	-0.027 0.583	0.039 0.431	-0.057 0.246	-0.015 0.757	0.097 0.047	-0.300 0.000	-0.010 0.837	-0.017 0.723	-0.024 0.620	1.000
sps3PA3 Pct Agg resps to pic K SPS Y3	0.409 0.000	-0.264 0.000	0.006 0.909	0.061 0.210	-0.104 0.032	-0.001 0.978	0.240 0.000	-0.236 0.000	0.039 0.424	-0.020 0.688	0.105 0.032	0.095 0.052
sps3PC3 Pct Com resps to pic K SPS Y3	-0.232 0.000	0.287 0.000	-0.082 0.092	-0.106 0.029	-0.055 0.261	-0.013 0.788	-0.166 0.001	0.255 0.000	-0.091 0.063	-0.033 0.498	-0.177 0.000	-0.090 0.065
sps3PU3 Pct Pun resps to pic K SPS Y3	-0.025 0.610	-0.006 0.900	0.144 0.003	-0.052 0.286	0.038 0.437	-0.075 0.123	-0.034 0.491	-0.024 0.620	0.104 0.032	-0.014 0.769	0.045 0.355	0.022 0.646
sps3PI3 Pct Int resps to pic K SPS Y3	-0.077 0.114	-0.052 0.292	0.012 0.811	0.147 0.002	0.013 0.791	0.110 0.024	-0.038 0.441	-0.020 0.677	0.004 0.929	0.028 0.573	0.046 0.346	0.030 0.541
sps3PP3 Pct Pas resps to pic K SPS Y3	-0.108 0.027	-0.040 0.413	-0.058 0.236	-0.006 0.905	0.211 0.000	-0.005 0.925	0.008 0.873	-0.039 0.421	-0.036 0.461	0.082 0.094	0.049 0.317	-0.050 0.302
sps3PR3 Pct Irr resps to pic K SPS Y3	.	.	.	.	.	.	.	.	.	.	.	.
sps3PA4 Pct Agg resps to pic L SPS Y3	0.273 0.000	-0.131 0.007	0.005 0.912	-0.003 0.947	-0.108 0.027	0.020 0.682	0.477 0.000	-0.367 0.000	-0.019 0.695	0.109 0.026	0.079 0.105	-0.027 0.583
sps3PC4 Pct Com resps to pic L SPS Y3	-0.143 0.003	0.209 0.000	-0.038 0.437	-0.088 0.071	-0.071 0.144	-0.002 0.964	-0.305 0.000	0.347 0.000	0.004 0.932	-0.099 0.042	-0.182 0.000	-0.084 0.086
sps3PU4 Pct Pun resps to pic L SPS Y3	0.054 0.269	-0.086 0.080	0.137 0.005	0.055 0.263	-0.026 0.592	-0.020 0.687	0.116 0.018	-0.179 0.000	-0.013 0.789	0.120 0.014	-0.032 0.518	0.348 0.000
sps3PI4 Pct Int resps to pic L SPS Y3	-0.037 0.454	-0.115 0.018	0.231 0.000	0.090 0.065	0.053 0.274	-0.025 0.616	0.009 0.857	-0.068 0.166	0.136 0.005	0.055 0.262	0.049 0.318	-0.023 0.641

Pearson Correlation Coefficients, N = 420 Prob > |r| under H0: Rho=0												
	sps3PA1	sps3PC1	sps3PU1	sps3PI1	sps3PP1	sps3PR1	sps3PA2	sps3PC2	sps3PU2	sps3PI2	sps3PP2	sps3PR2
sps3PP4 Pct Pas resps to pic L SPS Y3	-0.008 0.874	-0.107 0.029	-0.082 0.093	0.074 0.132	0.144 0.003	0.008 0.875	0.033 0.497	-0.110 0.024	-0.038 0.440	-0.003 0.953	0.174 0.000	-0.016 0.745
sps3PR4 Pct Irr resps to pic L SPS Y3	0.020 0.688	0.000 0.998	-0.018 0.711	-0.047 0.335	0.027 0.588	-0.010 0.835	-0.013 0.784	-0.015 0.762	-0.007 0.890	-0.012 0.811	-0.016 0.738	0.144 0.003
sps3PA5 Pct Agg resps to pic M SPS Y3	0.230 0.000	-0.177 0.000	0.038 0.434	0.053 0.275	-0.078 0.112	0.132 0.007	0.249 0.000	-0.284 0.000	0.036 0.467	0.024 0.630	0.136 0.005	0.139 0.004
sps3PC5 Pct Com resps to pic M SPS Y3	-0.162 0.001	0.192 0.000	-0.072 0.143	-0.076 0.120	-0.002 0.965	-0.081 0.096	-0.199 0.000	0.265 0.000	0.003 0.952	-0.086 0.079	-0.155 0.001	-0.094 0.055
sps3PU5 Pct Pun resps to pic M SPS Y3	-0.026 0.593	0.032 0.512	0.046 0.342	-0.037 0.448	-0.002 0.973	-0.030 0.539	0.015 0.753	-0.029 0.557	-0.020 0.683	-0.034 0.481	0.070 0.154	-0.028 0.568
sps3PI5 Pct Int resps to pic M SPS Y3	-0.020 0.687	-0.063 0.197	0.125 0.010	0.136 0.005	-0.033 0.495	-0.046 0.343	-0.018 0.709	-0.012 0.799	-0.031 0.529	0.098 0.045	-0.006 0.909	0.008 0.870
sps3PP5 Pct Pas resps to pic M SPS Y3	-0.047 0.337	-0.046 0.344	-0.050 0.307	-0.020 0.690	0.163 0.001	-0.015 0.761	-0.033 0.496	-0.012 0.811	-0.035 0.471	0.087 0.076	0.042 0.388	-0.049 0.313
sps3PR5 Pct Irr resps to pic M SPS Y3	-0.033 0.496	-0.037 0.455	-0.016 0.749	-0.041 0.404	0.135 0.006	-0.009 0.857	-0.012 0.812	0.022 0.657	-0.006 0.905	-0.010 0.836	-0.014 0.772	-0.008 0.867
sps3PA6 Pct Agg resps to pic N SPS Y3	0.317 0.000	-0.239 0.000	0.107 0.028	-0.020 0.684	-0.010 0.840	-0.029 0.551	0.323 0.000	-0.215 0.000	-0.019 0.692	0.055 0.262	0.012 0.808	-0.027 0.579
sps3PC6 Pct Com resps to pic N SPS Y3	-0.150 0.002	0.223 0.000	-0.165 0.001	0.012 0.799	-0.115 0.018	0.005 0.916	-0.220 0.000	0.222 0.000	0.050 0.305	-0.185 0.000	-0.053 0.275	-0.017 0.728
sps3PU6 Pct Pun resps to pic N SPS Y3	0.013 0.792	0.027 0.576	0.104 0.033	-0.042 0.392	-0.061 0.209	-0.016 0.738	0.143 0.003	-0.139 0.004	-0.011 0.824	-0.019 0.701	-0.026 0.591	0.280 0.000
sps3PI6 Pct Int resps to pic N SPS Y3	-0.035 0.481	-0.121 0.013	0.237 0.000	0.110 0.024	0.040 0.411	-0.025 0.607	-0.033 0.499	-0.011 0.828	-0.017 0.733	0.139 0.004	-0.005 0.924	-0.023 0.633
sps3PP6 Pct Pas resps to pic N SPS Y3	-0.019 0.700	-0.055 0.263	-0.018 0.707	-0.061 0.211	0.155 0.001	0.030 0.535	0.022 0.651	-0.081 0.096	-0.039 0.423	0.148 0.002	0.073 0.133	-0.055 0.263
sps3PR6 Pct Irr resps to pic N SPS Y3	0.075 0.125	-0.139 0.004	0.146 0.003	0.109 0.025	-0.017 0.729	-0.014 0.775	0.122 0.012	-0.097 0.047	-0.009 0.849	-0.016 0.743	-0.022 0.646	0.155 0.001
sps3PA7 Pct Agg resps to pic O SPS Y3	0.279 0.000	-0.195 0.000	-0.003 0.955	0.037 0.453	-0.052 0.288	0.040 0.417	0.169 0.001	-0.172 0.000	0.154 0.002	0.024 0.627	0.017 0.723	0.089 0.070
sps3PC7 Pct Com resps to pic O SPS Y3	-0.256 0.000	0.269 0.000	-0.053 0.278	-0.139 0.004	0.015 0.759	-0.021 0.669	-0.146 0.003	0.178 0.000	-0.104 0.033	-0.048 0.321	-0.053 0.275	-0.088 0.072
sps3PU7 Pct Pun resps to pic O SPS Y3	0.041 0.397	-0.117 0.016	0.083 0.089	0.114 0.019	-0.014 0.780	0.079 0.107	0.015 0.754	-0.093 0.058	-0.046 0.349	-0.022 0.653	0.132 0.007	0.080 0.104
sps3PI7 Pct Int resps to pic O SPS Y3	-0.016 0.741	-0.049 0.313	0.042 0.394	0.137 0.005	-0.016 0.740	-0.080 0.102	-0.060 0.222	0.057 0.241	0.003 0.951	0.054 0.273	-0.047 0.337	-0.038 0.436
sps3PP7 Pct Pas resps to pic O SPS Y3	-0.045 0.358	0.004 0.942	-0.049 0.317	-0.058 0.236	0.122 0.012	-0.041 0.407	-0.015 0.755	0.029 0.559	-0.027 0.582	0.030 0.535	-0.024 0.621	-0.038 0.441
sps3PR7 Pct Irr resps to pic O SPS Y3	0.118 0.016	-0.073 0.134	0.119 0.015	-0.041 0.404	-0.033 0.499	-0.009 0.857	0.321 0.000	-0.186 0.000	-0.006 0.905	-0.010 0.836	-0.014 0.772	-0.008 0.867
sps3PA8 Pct Agg resps to pic P SPS Y3	0.263 0.000	-0.185 0.000	0.119 0.015	-0.003 0.947	-0.049 0.315	-0.029 0.555	0.383 0.000	-0.294 0.000	0.154 0.002	0.061 0.210	0.004 0.937	0.029 0.552
sps3PC8 Pct Com resps to pic P SPS Y3	-0.136 0.005	0.225 0.000	-0.146 0.003	-0.062 0.208	-0.095 0.051	0.060 0.221	-0.272 0.000	0.305 0.000	-0.030 0.539	-0.091 0.063	-0.145 0.003	-0.068 0.167
sps3PU8 Pct Pun resps to pic P SPS Y3	-0.009 0.861	-0.020 0.690	0.043 0.382	0.034 0.490	-0.002 0.967	-0.017 0.734	0.217 0.000	-0.108 0.027	-0.011 0.821	-0.019 0.697	-0.027 0.586	-0.015 0.752
sps3PI8 Pct Int resps to pic P SPS Y3	0.023 0.635	-0.117 0.017	0.228 0.000	0.085 0.081	-0.004 0.935	-0.033 0.501	0.016 0.748	-0.085 0.083	-0.022 0.655	0.081 0.096	0.105 0.031	-0.031 0.532

Pearson Correlation Coefficients, N = 420 Prob > |r| under H0: Rho=0												
	sps3PA1	sps3PC1	sps3PU1	sps3PI1	sps3PP1	sps3PR1	sps3PA2	sps3PC2	sps3PU2	sps3PI2	sps3PP2	sps3PR2
sps3PP8 Pct Pas resps to pic P SPS Y3	0.001 0.989	-0.107 0.028	-0.045 0.363	0.041 0.397	0.156 0.001	-0.034 0.481	0.046 0.343	-0.110 0.025	-0.043 0.376	0.044 0.371	0.140 0.004	-0.025 0.603
sps3PR8 Pct Irr resps to pic P SPS Y3	-0.015 0.756	0.011 0.815	0.144 0.003	-0.057 0.245	-0.011 0.816	-0.012 0.802	-0.016 0.741	-0.109 0.026	-0.008 0.867	-0.014 0.773	-0.020 0.687	0.522 0.000

Pearson Correlation Coefficients, N = 420 Prob > |r| under H0: Rho=0												
	sps3PA3	sps3PC3	sps3PU3	sps3PI3	sps3PP3	sps3PR3	sps3PA4	sps3PC4	sps3PU4	sps3PI4	sps3PP4	sps3PR4
sps3PA1 Pct Agg resps to pic I SPS Y3	0.409 0.000	-0.232 0.000	-0.025 0.610	-0.077 0.114	-0.108 0.027	.	0.273 0.000	-0.143 0.003	0.054 0.269	-0.037 0.454	-0.008 0.874	0.020 0.688
sps3PC1 Pct Com resps to pic I SPS Y3	-0.264 0.000	0.287 0.000	-0.006 0.900	-0.052 0.292	-0.040 0.413	.	-0.131 0.007	0.209 0.000	-0.086 0.080	-0.115 0.018	-0.107 0.029	0.000 0.998
sps3PU1 Pct Pun resps to pic I SPS Y3	0.006 0.909	-0.082 0.092	0.144 0.003	0.012 0.811	-0.058 0.236	.	0.005 0.912	-0.038 0.437	0.137 0.005	0.231 0.000	-0.082 0.093	-0.018 0.711
sps3PI1 Pct Int resps to pic I SPS Y3	0.061 0.210	-0.106 0.029	-0.052 0.286	0.147 0.002	-0.006 0.905	.	-0.003 0.947	-0.088 0.071	0.055 0.263	0.090 0.065	0.074 0.132	-0.047 0.335
sps3PP1 Pct Pas resps to pic I SPS Y3	-0.104 0.032	-0.055 0.261	0.038 0.437	0.013 0.791	0.211 0.000	.	-0.108 0.027	-0.071 0.144	-0.026 0.592	0.053 0.274	0.144 0.003	0.027 0.588
sps3PR1 Pct Irr resps to pic I SPS Y3	-0.001 0.978	-0.013 0.788	-0.075 0.123	0.110 0.024	-0.005 0.925	.	0.020 0.682	-0.002 0.964	-0.020 0.687	-0.025 0.616	0.008 0.875	-0.010 0.835
sps3PA2 Pct Agg resps to pic J SPS Y3	0.240 0.000	-0.166 0.001	-0.034 0.491	-0.038 0.441	0.008 0.873	.	0.477 0.000	-0.305 0.000	0.116 0.018	0.009 0.857	0.033 0.497	-0.013 0.784
sps3PC2 Pct Com resps to pic J SPS Y3	-0.236 0.000	0.255 0.000	-0.024 0.620	-0.020 0.677	-0.039 0.421	.	-0.367 0.000	0.347 0.000	-0.179 0.000	-0.068 0.166	-0.110 0.024	-0.015 0.762
sps3PU2 Pct Pun resps to pic J SPS Y3	0.039 0.424	-0.091 0.063	0.104 0.032	0.004 0.929	-0.036 0.461	.	-0.019 0.695	0.004 0.932	-0.013 0.789	0.136 0.005	-0.038 0.440	-0.007 0.890
sps3PI2 Pct Int resps to pic J SPS Y3	-0.020 0.688	-0.033 0.498	-0.014 0.769	0.028 0.573	0.082 0.094	.	0.109 0.026	-0.099 0.042	0.120 0.014	0.055 0.262	-0.003 0.953	-0.012 0.811
sps3PP2 Pct Pas resps to pic J SPS Y3	0.105 0.032	-0.177 0.000	0.045 0.355	0.046 0.346	0.049 0.317	.	0.079 0.105	-0.182 0.000	-0.032 0.518	0.049 0.318	0.174 0.000	-0.016 0.738
sps3PR2 Pct Irr resps to pic J SPS Y3	0.095 0.052	-0.090 0.065	0.022 0.646	0.030 0.541	-0.050 0.302	.	-0.027 0.583	-0.084 0.086	0.348 0.000	-0.023 0.641	-0.016 0.745	0.144 0.003
sps3PA3 Pct Agg resps to pic K SPS Y3	1.000	-0.574 0.000	-0.098 0.045	-0.202 0.000	-0.189 0.000	.	0.347 0.000	-0.189 0.000	0.085 0.082	-0.073 0.138	0.001 0.984	0.037 0.452
sps3PC3 Pct Com resps to pic K SPS Y3	-0.574 0.000	1.000	-0.349 0.000	-0.175 0.000	-0.283 0.000	.	-0.177 0.000	0.148 0.002	-0.077 0.116	0.032 0.510	-0.067 0.172	0.038 0.436
sps3PU3 Pct Pun resps to pic K SPS Y3	-0.098 0.045	-0.349 0.000	1.000	-0.363 0.000	-0.070 0.153	.	-0.043 0.384	0.034 0.491	0.029 0.549	-0.004 0.942	-0.011 0.816	-0.047 0.334
sps3PI3 Pct Int resps to pic K SPS Y3	-0.202 0.000	-0.175 0.000	-0.363 0.000	1.000	-0.047 0.340	.	-0.109 0.026	0.010 0.845	0.002 0.974	0.121 0.013	0.021 0.669	-0.031 0.532
sps3PP3 Pct Pas resps to pic K SPS Y3	-0.189 0.000	-0.283 0.000	-0.070 0.153	-0.047 0.340	1.000	.	-0.051 0.300	-0.025 0.609	-0.035 0.472	-0.082 0.094	0.115 0.018	-0.034 0.487
sps3PR3 Pct Irr resps to pic K SPS Y3	.	.	.	.	.	.	.	.	.	.	.	.
sps3PA4 Pct Agg resps to pic L SPS Y3	0.347 0.000	-0.177 0.000	-0.043 0.384	-0.109 0.026	-0.051 0.300	.	1.000	-0.509 0.000	0.100 0.040	-0.044 0.373	-0.042 0.394	0.043 0.378
sps3PC4 Pct Com resps to pic L SPS Y3	-0.189 0.000	0.148 0.002	0.034 0.491	0.010 0.845	-0.025 0.609	.	-0.509 0.000	1.000	-0.245 0.000	-0.216 0.000	-0.726 0.000	-0.177 0.000

Pearson Correlation Coefficients, N = 420 Prob > |r| under H0: Rho=0												
	sps3PA3	sps3PC3	sps3PU3	sps3PI3	sps3PP3	sps3PR3	sps3PA4	sps3PC4	sps3PU4	sps3PI4	sps3PP4	sps3PR4
sps3PU4 Pct Pun resps to pic L SPS Y3	0.085 0.082	-0.077 0.116	0.029 0.549	0.002 0.974	-0.035 0.472	.	0.100 0.040	-0.245 0.000	1.000	-0.030 0.543	-0.069 0.159	-0.012 0.801
sps3PI4 Pct Int resps to pic L SPS Y3	-0.073 0.138	0.032 0.510	-0.004 0.942	0.121 0.013	-0.082 0.094	.	-0.044 0.373	-0.216 0.000	-0.030 0.543	1.000	-0.060 0.222	-0.015 0.753
sps3PP4 Pct Pas resps to pic L SPS Y3	0.001 0.984	-0.067 0.172	-0.011 0.816	0.021 0.669	0.115 0.018	.	-0.042 0.394	-0.726 0.000	-0.069 0.159	-0.060 0.222	1.000	-0.036 0.467
sps3PR4 Pct Irr resps to pic L SPS Y3	0.037 0.452	0.038 0.436	-0.047 0.334	-0.031 0.532	-0.034 0.487	.	0.043 0.378	-0.177 0.000	-0.012 0.801	-0.015 0.753	-0.036 0.467	1.000
sps3PA5 Pct Agg resps to pic M SPS Y3	0.333 0.000	-0.276 0.000	-0.003 0.950	0.001 0.981	-0.022 0.653	.	0.292 0.000	-0.225 0.000	0.201 0.000	-0.030 0.546	0.030 0.538	0.034 0.493
sps3PC5 Pct Com resps to pic M SPS Y3	-0.303 0.000	0.343 0.000	-0.049 0.312	-0.043 0.382	-0.036 0.465	.	-0.258 0.000	0.231 0.000	-0.192 0.000	-0.055 0.258	-0.039 0.427	0.003 0.955
sps3PU5 Pct Pun resps to pic M SPS Y3	-0.010 0.840	-0.085 0.081	0.208 0.000	-0.081 0.098	-0.002 0.962	.	0.078 0.111	-0.054 0.265	0.070 0.155	0.001 0.987	-0.001 0.984	-0.019 0.700
sps3PI5 Pct Int resps to pic M SPS Y3	-0.017 0.730	-0.069 0.155	-0.007 0.893	0.189 0.000	-0.058 0.239	.	-0.041 0.399	-0.007 0.888	0.026 0.592	0.235 0.000	-0.054 0.271	-0.029 0.553
sps3PP5 Pct Pas resps to pic M SPS Y3	0.050 0.304	-0.108 0.027	-0.028 0.569	-0.016 0.750	0.178 0.000	.	-0.007 0.890	-0.040 0.412	-0.029 0.552	-0.019 0.703	0.080 0.103	-0.033 0.497
sps3PR5 Pct Irr resps to pic M SPS Y3	-0.012 0.813	-0.024 0.629	0.067 0.170	0.004 0.942	-0.029 0.548	.	-0.016 0.749	0.040 0.411	-0.011 0.827	-0.013 0.786	-0.031 0.529	-0.006 0.910
sps3PA6 Pct Agg resps to pic N SPS Y3	0.290 0.000	-0.156 0.001	0.003 0.945	-0.122 0.013	-0.041 0.407	.	0.367 0.000	-0.221 0.000	0.112 0.021	-0.007 0.883	0.009 0.861	-0.018 0.709
sps3PC6 Pct Com resps to pic N SPS Y3	-0.134 0.006	0.170 0.000	-0.059 0.229	0.047 0.338	-0.081 0.097	.	-0.263 0.000	0.430 0.000	-0.163 0.001	-0.094 0.055	-0.265 0.000	-0.070 0.151
sps3PU6 Pct Pun resps to pic N SPS Y3	0.097 0.047	-0.091 0.064	0.011 0.822	-0.016 0.749	0.017 0.736	.	0.286 0.000	-0.206 0.000	0.324 0.000	-0.025 0.613	-0.023 0.645	-0.010 0.834
sps3PI6 Pct Int resps to pic N SPS Y3	-0.040 0.419	-0.045 0.361	0.045 0.353	0.091 0.062	-0.019 0.695	.	-0.045 0.362	-0.068 0.167	0.098 0.045	0.409 0.000	-0.067 0.172	-0.016 0.748
sps3PP6 Pct Pas resps to pic N SPS Y3	-0.054 0.273	-0.064 0.187	0.063 0.196	-0.005 0.918	0.133 0.006	.	0.045 0.355	-0.304 0.000	0.011 0.822	-0.041 0.402	0.357 0.000	0.038 0.442
sps3PR6 Pct Irr resps to pic N SPS Y3	0.133 0.006	-0.037 0.444	-0.065 0.185	-0.051 0.292	-0.001 0.982	.	-0.025 0.612	-0.076 0.118	-0.017 0.729	-0.021 0.666	0.040 0.415	0.360 0.000
sps3PA7 Pct Agg resps to pic O SPS Y3	0.493 0.000	-0.310 0.000	0.049 0.313	-0.122 0.012	-0.145 0.003	.	0.211 0.000	-0.065 0.185	0.056 0.249	0.016 0.739	-0.104 0.033	0.093 0.058
sps3PC7 Pct Com resps to pic O SPS Y3	-0.400 0.000	0.386 0.000	-0.077 0.113	-0.041 0.399	0.078 0.112	.	-0.161 0.001	0.079 0.105	-0.103 0.035	-0.040 0.417	0.070 0.155	-0.064 0.191
sps3PU7 Pct Pun resps to pic O SPS Y3	-0.016 0.748	-0.086 0.079	0.192 0.000	0.011 0.827	-0.079 0.108	.	0.040 0.414	-0.001 0.986	0.128 0.009	-0.033 0.504	-0.062 0.204	0.031 0.529
sps3PI7 Pct Int resps to pic O SPS Y3	-0.050 0.307	-0.023 0.636	-0.145 0.003	0.195 0.000	0.087 0.075	.	-0.098 0.044	-0.049 0.317	-0.024 0.627	0.134 0.006	0.096 0.049	-0.050 0.306
sps3PP7 Pct Pas resps to pic O SPS Y3	-0.051 0.293	-0.109 0.026	0.012 0.813	0.122 0.012	0.130 0.008	.	-0.035 0.468	0.033 0.499	-0.049 0.315	-0.061 0.211	0.027 0.586	-0.025 0.604
sps3PR7 Pct Irr resps to pic O SPS Y3	0.162 0.001	-0.061 0.210	-0.041 0.403	-0.056 0.248	-0.029 0.548	.	0.196 0.000	-0.125 0.010	0.203 0.000	-0.013 0.786	-0.031 0.529	-0.006 0.910
sps3PA8 Pct Agg resps to pic P SPS Y3	0.288 0.000	-0.133 0.006	-0.020 0.686	-0.109 0.026	-0.066 0.178	.	0.441 0.000	-0.276 0.000	0.100 0.040	0.035 0.473	0.003 0.959	0.043 0.378
sps3PC8 Pct Com resps to pic P SPS Y3	-0.166 0.001	0.165 0.001	-0.036 0.463	0.015 0.764	-0.009 0.850	.	-0.239 0.000	0.390 0.000	-0.128 0.009	-0.107 0.028	-0.223 0.000	-0.130 0.008

Pearson Correlation Coefficients, N = 420 Prob > |r| under H0: Rho=0												
	sps3PA3	sps3PC3	sps3PU3	sps3PI3	sps3PP3	sps3PR3	sps3PA4	sps3PC4	sps3PU4	sps3PI4	sps3PP4	sps3PR4
sps3PU8 Pct Pun resps to pic P SPS Y3	0.130 0.008	-0.105 0.031	0.039 0.423	-0.042 0.394	-0.017 0.732	.	0.256 0.000	-0.221 0.000	0.210 0.000	0.075 0.124	-0.020 0.677	0.146 0.003
sps3PI8 Pct Int resps to pic P SPS Y3	-0.020 0.682	-0.018 0.717	0.020 0.681	0.125 0.010	-0.110 0.025	.	-0.030 0.539	-0.026 0.589	0.074 0.130	0.297 0.000	-0.077 0.113	-0.021 0.674
sps3PP8 Pct Pas resps to pic P SPS Y3	-0.012 0.804	-0.076 0.121	0.027 0.580	0.007 0.894	0.120 0.014	.	-0.017 0.724	-0.233 0.000	-0.051 0.301	-0.049 0.318	0.332 0.000	0.036 0.461
sps3PR8 Pct Irr resps to pic P SPS Y3	0.091 0.061	-0.068 0.165	0.052 0.291	-0.041 0.397	-0.041 0.403	.	-0.022 0.656	-0.089 0.068	0.283 0.000	-0.019 0.705	-0.043 0.381	0.351 0.000

Pearson Correlation Coefficients, N = 420 Prob > |r| under H0: Rho=0												
	sps3PA5	sps3PC5	sps3PU5	sps3PI5	sps3PP5	sps3PR5	sps3PA6	sps3PC6	sps3PU6	sps3PI6	sps3PP6	sps3PR6
sps3PA1 Pct Agg resps to pic I SPS Y3	0.230 0.000	-0.162 0.001	-0.026 0.593	-0.020 0.687	-0.047 0.337	-0.033 0.496	0.317 0.000	-0.150 0.002	0.013 0.792	-0.035 0.481	-0.019 0.700	0.075 0.125
sps3PC1 Pct Com resps to pic I SPS Y3	-0.177 0.000	0.192 0.000	0.032 0.512	-0.063 0.197	-0.046 0.344	-0.037 0.455	-0.239 0.000	0.223 0.000	0.027 0.576	-0.121 0.013	-0.055 0.263	-0.139 0.004
sps3PU1 Pct Pun resps to pic I SPS Y3	0.038 0.434	-0.072 0.143	0.046 0.342	0.125 0.010	-0.050 0.307	-0.016 0.749	0.107 0.028	-0.165 0.001	0.104 0.033	0.237 0.000	-0.018 0.707	0.146 0.003
sps3PI1 Pct Int resps to pic I SPS Y3	0.053 0.275	-0.076 0.120	-0.037 0.448	0.136 0.005	-0.020 0.690	-0.041 0.404	-0.020 0.684	0.012 0.799	-0.042 0.392	0.110 0.024	-0.061 0.211	0.109 0.025
sps3PP1 Pct Pas resps to pic I SPS Y3	-0.078 0.112	-0.002 0.965	-0.002 0.973	-0.033 0.495	0.163 0.001	0.135 0.006	-0.010 0.840	-0.115 0.018	-0.061 0.209	0.040 0.411	0.155 0.001	-0.017 0.729
sps3PR1 Pct Irr resps to pic I SPS Y3	0.132 0.007	-0.081 0.096	-0.030 0.539	-0.046 0.343	-0.015 0.761	-0.009 0.857	-0.029 0.551	0.005 0.916	-0.016 0.738	-0.025 0.607	0.030 0.535	-0.014 0.775
sps3PA2 Pct Agg resps to pic J SPS Y3	0.249 0.000	-0.199 0.000	0.015 0.753	-0.018 0.709	-0.033 0.496	-0.012 0.812	0.323 0.000	-0.220 0.000	0.143 0.003	-0.033 0.499	0.022 0.651	0.122 0.012
sps3PC2 Pct Com resps to pic J SPS Y3	-0.284 0.000	0.265 0.000	-0.029 0.557	-0.012 0.799	-0.012 0.811	0.022 0.657	-0.215 0.000	0.222 0.000	-0.139 0.004	-0.011 0.828	-0.081 0.096	-0.097 0.047
sps3PU2 Pct Pun resps to pic J SPS Y3	0.036 0.467	0.003 0.952	-0.020 0.683	-0.031 0.529	-0.035 0.471	-0.006 0.905	-0.019 0.692	0.050 0.305	-0.011 0.824	-0.017 0.733	-0.039 0.423	-0.009 0.849
sps3PI2 Pct Int resps to pic J SPS Y3	0.024 0.630	-0.086 0.079	-0.034 0.481	0.098 0.045	0.087 0.076	-0.010 0.836	0.055 0.262	-0.185 0.000	-0.019 0.701	0.139 0.004	0.148 0.002	-0.016 0.743
sps3PP2 Pct Pas resps to pic J SPS Y3	0.136 0.005	-0.155 0.001	0.070 0.154	-0.006 0.909	0.042 0.388	-0.014 0.772	0.012 0.808	-0.053 0.275	-0.026 0.591	-0.005 0.924	0.073 0.133	-0.022 0.646
sps3PR2 Pct Irr resps to pic J SPS Y3	0.139 0.004	-0.094 0.055	-0.028 0.568	0.008 0.870	-0.049 0.313	-0.008 0.867	-0.027 0.579	-0.017 0.728	0.280 0.000	-0.023 0.633	-0.055 0.263	0.155 0.001
sps3PA3 Pct Agg resps to pic K SPS Y3	0.333 0.000	-0.303 0.000	-0.010 0.840	-0.017 0.730	0.050 0.304	-0.012 0.813	0.290 0.000	-0.134 0.006	0.097 0.047	-0.040 0.419	-0.054 0.273	0.133 0.006
sps3PC3 Pct Com resps to pic K SPS Y3	-0.276 0.000	0.343 0.000	-0.085 0.081	-0.069 0.155	-0.108 0.027	-0.024 0.629	-0.156 0.001	0.170 0.000	-0.091 0.064	-0.045 0.361	-0.064 0.187	-0.037 0.444
sps3PU3 Pct Pun resps to pic K SPS Y3	-0.003 0.950	-0.049 0.312	0.208 0.000	-0.007 0.893	-0.028 0.569	0.067 0.170	0.003 0.945	-0.059 0.229	0.011 0.822	0.045 0.353	0.063 0.196	-0.065 0.185
sps3PI3 Pct Int resps to pic K SPS Y3	0.001 0.981	-0.043 0.382	-0.081 0.098	0.189 0.000	-0.016 0.750	0.004 0.942	-0.122 0.013	0.047 0.338	-0.016 0.749	0.091 0.062	-0.005 0.918	-0.051 0.292
sps3PP3 Pct Pas resps to pic K SPS Y3	-0.022 0.653	-0.036 0.465	-0.002 0.962	-0.058 0.239	0.178 0.000	-0.029 0.548	-0.041 0.407	-0.081 0.097	0.017 0.736	-0.019 0.695	0.133 0.006	-0.001 0.982
sps3PR3 Pct Irr resps to pic K SPS Y3	.	.	.	.	.	.	.	.	.	.	.	.

Pearson Correlation Coefficients, N = 420 Prob > |r| under H0: Rho=0												
	sps3PA5	sps3PC5	sps3PU5	sps3PI5	sps3PP5	sps3PR5	sps3PA6	sps3PC6	sps3PU6	sps3PI6	sps3PP6	sps3PR6
sps3PA4 Pct Agg resps to pic L SPS Y3	0.292 0.000	-0.258 0.000	0.078 0.111	-0.041 0.399	-0.007 0.890	-0.016 0.749	0.367 0.000	-0.263 0.000	0.286 0.000	-0.045 0.362	0.045 0.355	-0.025 0.612
sps3PC4 Pct Com resps to pic L SPS Y3	-0.225 0.000	0.231 0.000	-0.054 0.265	-0.007 0.888	-0.040 0.412	0.040 0.411	-0.221 0.000	0.430 0.000	-0.206 0.000	-0.068 0.167	-0.304 0.000	-0.076 0.118
sps3PU4 Pct Pun resps to pic L SPS Y3	0.201 0.000	-0.192 0.000	0.070 0.155	0.026 0.592	-0.029 0.552	-0.011 0.827	0.112 0.021	-0.163 0.001	0.324 0.000	0.098 0.045	0.011 0.822	-0.017 0.729
sps3PI4 Pct Int resps to pic L SPS Y3	-0.030 0.546	-0.055 0.258	0.001 0.987	0.235 0.000	-0.019 0.703	-0.013 0.786	-0.007 0.883	-0.094 0.055	-0.025 0.613	0.409 0.000	-0.041 0.402	-0.021 0.666
sps3PP4 Pct Pas resps to pic L SPS Y3	0.030 0.538	-0.039 0.427	-0.001 0.984	-0.054 0.271	0.080 0.103	-0.031 0.529	0.009 0.861	-0.265 0.000	-0.023 0.645	-0.067 0.172	0.357 0.000	0.040 0.415
sps3PR4 Pct Irr resps to pic L SPS Y3	0.034 0.493	0.003 0.955	-0.019 0.700	-0.029 0.553	-0.033 0.497	-0.006 0.910	-0.018 0.709	-0.070 0.151	-0.010 0.834	-0.016 0.748	0.038 0.442	0.360 0.000
sps3PA5 Pct Agg resps to pic M SPS Y3	1.000	-0.786 0.000	-0.043 0.377	-0.071 0.149	-0.104 0.034	-0.013 0.783	0.272 0.000	-0.216 0.000	0.138 0.005	-0.045 0.361	0.060 0.218	0.100 0.040
sps3PC5 Pct Com resps to pic M SPS Y3	-0.786 0.000	1.000	-0.229 0.000	-0.255 0.000	-0.311 0.000	-0.109 0.026	-0.197 0.000	0.269 0.000	-0.179 0.000	-0.116 0.018	-0.108 0.027	-0.043 0.376
sps3PU5 Pct Pun resps to pic M SPS Y3	-0.043 0.377	-0.229 0.000	1.000	-0.062 0.208	-0.036 0.456	0.108 0.027	0.020 0.686	-0.087 0.074	0.216 0.000	-0.046 0.343	0.067 0.171	-0.026 0.597
sps3PI5 Pct Int resps to pic M SPS Y3	-0.071 0.149	-0.255 0.000	-0.062 0.208	1.000	-0.103 0.035	-0.025 0.608	-0.064 0.191	-0.050 0.310	0.001 0.979	0.335 0.000	-0.031 0.526	-0.040 0.415
sps3PP5 Pct Pas resps to pic M SPS Y3	-0.104 0.034	-0.311 0.000	-0.036 0.456	-0.103 0.035	1.000	0.054 0.269	-0.046 0.346	-0.085 0.083	-0.012 0.799	0.092 0.060	0.111 0.023	-0.046 0.351
sps3PR5 Pct Irr resps to pic M SPS Y3	-0.013 0.783	-0.109 0.026	0.108 0.027	-0.025 0.608	0.054 0.269	1.000	-0.016 0.746	0.041 0.403	-0.009 0.856	-0.014 0.781	-0.032 0.514	-0.008 0.877
sps3PA6 Pct Agg resps to pic N SPS Y3	0.272 0.000	-0.197 0.000	0.020 0.686	-0.064 0.191	-0.046 0.346	-0.016 0.746	1.000	-0.494 0.000	0.069 0.159	-0.045 0.357	-0.042 0.391	0.101 0.039
sps3PC6 Pct Com resps to pic N SPS Y3	-0.216 0.000	0.269 0.000	-0.087 0.074	-0.050 0.310	-0.085 0.083	0.041 0.403	-0.494 0.000	1.000	-0.207 0.000	-0.264 0.000	-0.742 0.000	-0.193 0.000
sps3PU6 Pct Pun resps to pic N SPS Y3	0.138 0.005	-0.179 0.000	0.216 0.000	0.001 0.979	-0.012 0.799	-0.009 0.856	0.069 0.159	-0.207 0.000	1.000	-0.025 0.605	-0.027 0.576	-0.014 0.773
sps3PI6 Pct Int resps to pic N SPS Y3	-0.045 0.361	-0.116 0.018	-0.046 0.343	0.335 0.000	0.092 0.060	-0.014 0.781	-0.045 0.357	-0.264 0.000	-0.025 0.605	1.000	-0.052 0.285	-0.022 0.659
sps3PP6 Pct Pas resps to pic N SPS Y3	0.060 0.218	-0.108 0.027	0.067 0.171	-0.031 0.526	0.111 0.023	-0.032 0.514	-0.042 0.391	-0.742 0.000	-0.027 0.576	-0.052 0.285	1.000	-0.010 0.842
sps3PR6 Pct Irr resps to pic N SPS Y3	0.100 0.040	-0.043 0.376	-0.026 0.597	-0.040 0.415	-0.046 0.351	-0.008 0.877	0.101 0.039	-0.193 0.000	-0.014 0.773	-0.022 0.659	-0.010 0.842	1.000
sps3PA7 Pct Agg resps to pic O SPS Y3	0.273 0.000	-0.206 0.000	0.073 0.134	-0.049 0.316	-0.083 0.088	0.022 0.660	0.206 0.000	-0.055 0.258	-0.018 0.710	-0.038 0.432	-0.060 0.221	0.084 0.086
sps3PC7 Pct Com resps to pic O SPS Y3	-0.301 0.000	0.338 0.000	-0.076 0.119	-0.103 0.035	-0.017 0.735	-0.073 0.135	-0.205 0.000	0.124 0.011	-0.040 0.418	-0.081 0.097	0.033 0.500	-0.060 0.220
sps3PU7 Pct Pun resps to pic O SPS Y3	0.162 0.001	-0.197 0.000	0.150 0.002	0.044 0.364	-0.040 0.413	0.155 0.001	0.110 0.024	-0.081 0.099	0.081 0.096	0.028 0.567	0.001 0.978	-0.019 0.703
sps3PI7 Pct Int resps to pic O SPS Y3	-0.129 0.008	0.018 0.716	-0.097 0.048	0.209 0.000	0.104 0.032	-0.043 0.376	-0.089 0.068	-0.033 0.506	0.022 0.659	0.206 0.000	0.002 0.973	0.018 0.706
sps3PP7 Pct Pas resps to pic O SPS Y3	0.053 0.277	-0.113 0.020	-0.054 0.274	0.043 0.385	0.152 0.002	-0.022 0.653	-0.013 0.789	-0.026 0.596	0.002 0.969	-0.011 0.824	0.053 0.282	-0.035 0.476
sps3PR7 Pct Irr resps to pic O SPS Y3	0.157 0.001	-0.109 0.026	-0.016 0.739	-0.025 0.608	-0.029 0.556	-0.005 0.922	0.133 0.006	-0.035 0.470	-0.009 0.856	-0.014 0.781	-0.032 0.514	-0.008 0.877

Pearson Correlation Coefficients, N = 420 Prob > |r| under H0: Rho=0												
	sps3PA5	sps3PC5	sps3PU5	sps3PI5	sps3PP5	sps3PR5	sps3PA6	sps3PC6	sps3PU6	sps3PI6	sps3PP6	sps3PR6
sps3PA8 Pct Agg resps to pic P SPS Y3	0.301 0.000	-0.219 0.000	-0.027 0.581	-0.062 0.207	-0.024 0.620	-0.016 0.749	0.492 0.000	-0.231 0.000	0.023 0.632	-0.013 0.794	-0.023 0.641	-0.025 0.612
sps3PC8 Pct Com resps to pic P SPS Y3	-0.341 0.000	0.304 0.000	0.012 0.807	-0.004 0.937	-0.025 0.612	0.046 0.351	-0.228 0.000	0.455 0.000	-0.104 0.033	-0.107 0.029	-0.337 0.000	-0.095 0.053
sps3PU8 Pct Pun resps to pic P SPS Y3	0.146 0.003	-0.115 0.018	0.103 0.035	-0.047 0.334	-0.054 0.268	-0.009 0.854	0.077 0.116	-0.142 0.004	0.251 0.000	-0.026 0.600	0.079 0.108	-0.014 0.770
sps3PI8 Pct Int resps to pic P SPS Y3	0.029 0.553	-0.100 0.041	-0.028 0.573	0.241 0.000	-0.019 0.697	-0.018 0.716	-0.019 0.693	-0.111 0.023	0.033 0.499	0.430 0.000	-0.033 0.498	-0.028 0.563
sps3PP8 Pct Pas resps to pic P SPS Y3	0.161 0.001	-0.149 0.002	-0.005 0.919	-0.057 0.242	0.078 0.110	-0.035 0.471	-0.038 0.438	-0.310 0.000	-0.033 0.505	-0.061 0.215	0.439 0.000	0.071 0.149
sps3PR8 Pct Irr resps to pic P SPS Y3	0.146 0.003	-0.089 0.070	-0.023 0.643	-0.035 0.475	-0.040 0.413	-0.007 0.892	0.039 0.421	-0.140 0.004	0.334 0.000	-0.019 0.698	-0.005 0.926	0.384 0.000

Pearson Correlation Coefficients, N = 420 Prob > |r| under H0: Rho=0												
	sps3PA7	sps3PC7	sps3PU7	sps3PI7	sps3PP7	sps3PR7	sps3PA8	sps3PC8	sps3PU8	sps3PI8	sps3PP8	sps3PR8
sps3PA1 Pct Agg resps to pic I SPS Y3	0.279 0.000	-0.256 0.000	0.041 0.397	-0.016 0.741	-0.045 0.358	0.118 0.016	0.263 0.000	-0.136 0.005	-0.009 0.861	0.023 0.635	0.001 0.989	-0.015 0.756
sps3PC1 Pct Com resps to pic I SPS Y3	-0.195 0.000	0.269 0.000	-0.117 0.016	-0.049 0.313	0.004 0.942	-0.073 0.134	-0.185 0.000	0.225 0.000	-0.020 0.690	-0.117 0.017	-0.107 0.028	0.011 0.815
sps3PU1 Pct Pun resps to pic I SPS Y3	-0.003 0.955	-0.053 0.278	0.083 0.089	0.042 0.394	-0.049 0.317	0.119 0.015	0.119 0.015	-0.146 0.003	0.043 0.382	0.228 0.000	-0.045 0.363	0.144 0.003
sps3PI1 Pct Int resps to pic I SPS Y3	0.037 0.453	-0.139 0.004	0.114 0.019	0.137 0.005	-0.058 0.236	-0.041 0.404	-0.003 0.947	-0.062 0.208	0.034 0.490	0.085 0.081	0.041 0.397	-0.057 0.245
sps3PP1 Pct Pas resps to pic I SPS Y3	-0.052 0.288	0.015 0.759	-0.014 0.780	-0.016 0.740	0.122 0.012	-0.033 0.499	-0.049 0.315	-0.095 0.051	-0.002 0.967	-0.004 0.935	0.156 0.001	-0.011 0.816
sps3PR1 Pct Irr resps to pic I SPS Y3	0.040 0.417	-0.021 0.669	0.079 0.107	-0.080 0.102	-0.041 0.407	-0.009 0.857	-0.029 0.555	0.060 0.221	-0.017 0.734	-0.033 0.501	-0.034 0.481	-0.012 0.802
sps3PA2 Pct Agg resps to pic J SPS Y3	0.169 0.001	-0.146 0.003	0.015 0.754	-0.060 0.222	-0.015 0.755	0.321 0.000	0.383 0.000	-0.272 0.000	0.217 0.000	0.016 0.748	0.046 0.343	-0.016 0.741
sps3PC2 Pct Com resps to pic J SPS Y3	-0.172 0.000	0.178 0.000	-0.093 0.058	0.057 0.241	0.029 0.559	-0.186 0.000	-0.294 0.000	0.305 0.000	-0.108 0.027	-0.085 0.083	-0.110 0.025	-0.109 0.026
sps3PU2 Pct Pun resps to pic J SPS Y3	0.154 0.002	-0.104 0.033	-0.046 0.349	0.003 0.951	-0.027 0.582	-0.006 0.905	0.154 0.002	-0.030 0.539	-0.011 0.821	-0.022 0.655	-0.043 0.376	-0.008 0.867
sps3PI2 Pct Int resps to pic J SPS Y3	0.024 0.627	-0.048 0.321	-0.022 0.653	0.054 0.273	0.030 0.535	-0.010 0.836	0.061 0.210	-0.091 0.063	-0.019 0.697	0.081 0.096	0.044 0.371	-0.014 0.773
sps3PP2 Pct Pas resps to pic J SPS Y3	0.017 0.723	-0.053 0.275	0.132 0.007	-0.047 0.337	-0.024 0.621	-0.014 0.772	0.004 0.937	-0.145 0.003	-0.027 0.586	0.105 0.031	0.140 0.004	-0.020 0.687
sps3PR2 Pct Irr resps to pic J SPS Y3	0.089 0.070	-0.088 0.072	0.080 0.104	-0.038 0.436	-0.038 0.441	-0.008 0.867	0.029 0.552	-0.068 0.167	-0.015 0.752	-0.031 0.532	-0.025 0.603	0.522 0.000
sps3PA3 Pct Agg resps to pic K SPS Y3	0.493 0.000	-0.400 0.000	-0.016 0.748	-0.050 0.307	-0.051 0.293	0.162 0.001	0.288 0.000	-0.166 0.001	0.130 0.008	-0.020 0.682	-0.012 0.804	0.091 0.061
sps3PC3 Pct Com resps to pic K SPS Y3	-0.310 0.000	0.386 0.000	-0.086 0.079	-0.023 0.636	-0.109 0.026	-0.061 0.210	-0.133 0.006	0.165 0.001	-0.105 0.031	-0.018 0.717	-0.076 0.121	-0.068 0.165
sps3PU3 Pct Pun resps to pic K SPS Y3	0.049 0.313	-0.077 0.113	0.192 0.000	-0.145 0.003	0.012 0.813	-0.041 0.403	-0.020 0.686	-0.036 0.463	0.039 0.423	0.020 0.681	0.027 0.580	0.052 0.291
sps3PI3 Pct Int resps to pic K SPS Y3	-0.122 0.012	-0.041 0.399	0.011 0.827	0.195 0.000	0.122 0.012	-0.056 0.248	-0.109 0.026	0.015 0.764	-0.042 0.394	0.125 0.010	0.007 0.894	-0.041 0.397

Pearson Correlation Coefficients, N = 420 Prob > |r| under H0: Rho=0												
	sps3PA7	sps3PC7	sps3PU7	sps3PI7	sps3PP7	sps3PR7	sps3PA8	sps3PC8	sps3PU8	sps3PI8	sps3PP8	sps3PR8
sps3PP3 Pct Pas resps to pic K SPS Y3	-0.145 0.003	0.078 0.112	-0.079 0.108	0.087 0.075	0.130 0.008	-0.029 0.548	-0.066 0.178	-0.009 0.850	-0.017 0.732	-0.110 0.025	0.120 0.014	-0.041 0.403
sps3PR3 Pct Irr resps to pic K SPS Y3	.	.	.	.	.	.	.	.	.	.	.	.
sps3PA4 Pct Agg resps to pic L SPS Y3	0.211 0.000	-0.161 0.001	0.040 0.414	-0.098 0.044	-0.035 0.468	0.196 0.000	0.441 0.000	-0.239 0.000	0.256 0.000	-0.030 0.539	-0.017 0.724	-0.022 0.656
sps3PC4 Pct Com resps to pic L SPS Y3	-0.065 0.185	0.079 0.105	-0.001 0.986	-0.049 0.317	0.033 0.499	-0.125 0.010	-0.276 0.000	0.390 0.000	-0.221 0.000	-0.026 0.589	-0.233 0.000	-0.089 0.068
sps3PU4 Pct Pun resps to pic L SPS Y3	0.056 0.249	-0.103 0.035	0.128 0.009	-0.024 0.627	-0.049 0.315	0.203 0.000	0.100 0.040	-0.128 0.009	0.210 0.000	0.074 0.130	-0.051 0.301	0.283 0.000
sps3PI4 Pct Int resps to pic L SPS Y3	0.016 0.739	-0.040 0.417	-0.033 0.504	0.134 0.006	-0.061 0.211	-0.013 0.786	0.035 0.473	-0.107 0.028	0.075 0.124	0.297 0.000	-0.049 0.318	-0.019 0.705
sps3PP4 Pct Pas resps to pic L SPS Y3	-0.104 0.033	0.070 0.155	-0.062 0.204	0.096 0.049	0.027 0.586	-0.031 0.529	0.003 0.959	-0.223 0.000	-0.020 0.677	-0.077 0.113	0.332 0.000	-0.043 0.381
sps3PR4 Pct Irr resps to pic L SPS Y3	0.093 0.058	-0.064 0.191	0.031 0.529	-0.050 0.306	-0.025 0.604	-0.006 0.910	0.043 0.378	-0.130 0.008	0.146 0.003	-0.021 0.674	0.036 0.461	0.351 0.000
sps3PA5 Pct Agg resps to pic M SPS Y3	0.273 0.000	-0.301 0.000	0.162 0.001	-0.129 0.008	0.053 0.277	0.157 0.001	0.301 0.000	-0.341 0.000	0.146 0.003	0.029 0.553	0.161 0.001	0.146 0.003
sps3PC5 Pct Com resps to pic M SPS Y3	-0.206 0.000	0.338 0.000	-0.197 0.000	0.018 0.716	-0.113 0.020	-0.109 0.026	-0.219 0.000	0.304 0.000	-0.115 0.018	-0.100 0.041	-0.149 0.002	-0.089 0.070
sps3PU5 Pct Pun resps to pic M SPS Y3	0.073 0.134	-0.076 0.119	0.150 0.002	-0.097 0.048	-0.054 0.274	-0.016 0.739	-0.027 0.581	0.012 0.807	0.103 0.035	-0.028 0.573	-0.005 0.919	-0.023 0.643
sps3PI5 Pct Int resps to pic M SPS Y3	-0.049 0.316	-0.103 0.035	0.044 0.364	0.209 0.000	0.043 0.385	-0.025 0.608	-0.062 0.207	-0.004 0.937	-0.047 0.334	0.241 0.000	-0.057 0.242	-0.035 0.475
sps3PP5 Pct Pas resps to pic M SPS Y3	-0.083 0.088	-0.017 0.735	-0.040 0.413	0.104 0.032	0.152 0.002	-0.029 0.556	-0.024 0.620	-0.025 0.612	-0.054 0.268	-0.019 0.697	0.078 0.110	-0.040 0.413
sps3PR5 Pct Irr resps to pic M SPS Y3	0.022 0.660	-0.073 0.135	0.155 0.001	-0.043 0.376	-0.022 0.653	-0.005 0.922	-0.016 0.749	0.046 0.351	-0.009 0.854	-0.018 0.716	-0.035 0.471	-0.007 0.892
sps3PA6 Pct Agg resps to pic N SPS Y3	0.206 0.000	-0.205 0.000	0.110 0.024	-0.089 0.068	-0.013 0.789	0.133 0.006	0.492 0.000	-0.228 0.000	0.077 0.116	-0.019 0.693	-0.038 0.438	0.039 0.421
sps3PC6 Pct Com resps to pic N SPS Y3	-0.055 0.258	0.124 0.011	-0.081 0.099	-0.033 0.506	-0.026 0.596	-0.035 0.470	-0.231 0.000	0.455 0.000	-0.142 0.004	-0.111 0.023	-0.310 0.000	-0.140 0.004
sps3PU6 Pct Pun resps to pic N SPS Y3	-0.018 0.710	-0.040 0.418	0.081 0.096	0.022 0.659	0.002 0.969	-0.009 0.856	0.023 0.632	-0.104 0.033	0.251 0.000	0.033 0.499	-0.033 0.505	0.334 0.000
sps3PI6 Pct Int resps to pic N SPS Y3	-0.038 0.432	-0.081 0.097	0.028 0.567	0.206 0.000	-0.011 0.824	-0.014 0.781	-0.013 0.794	-0.107 0.029	-0.026 0.600	0.430 0.000	-0.061 0.215	-0.019 0.698
sps3PP6 Pct Pas resps to pic N SPS Y3	-0.060 0.221	0.033 0.500	0.001 0.978	0.002 0.973	0.053 0.282	-0.032 0.514	-0.023 0.641	-0.337 0.000	0.079 0.108	-0.033 0.498	0.439 0.000	-0.005 0.926
sps3PR6 Pct Irr resps to pic N SPS Y3	0.084 0.086	-0.060 0.220	-0.019 0.703	0.018 0.706	-0.035 0.476	-0.008 0.877	-0.025 0.612	-0.095 0.053	-0.014 0.770	-0.028 0.563	0.071 0.149	0.384 0.000
sps3PA7 Pct Agg resps to pic O SPS Y3	1.000	-0.699 0.000	-0.061 0.209	-0.208 0.000	-0.160 0.001	0.061 0.215	0.207 0.000	-0.146 0.003	0.072 0.140	0.028 0.566	0.019 0.698	0.018 0.715
sps3PC7 Pct Com resps to pic O SPS Y3	-0.699 0.000	1.000	-0.357 0.000	-0.157 0.001	-0.217 0.000	-0.073 0.135	-0.205 0.000	0.231 0.000	-0.052 0.287	-0.127 0.009	-0.075 0.127	-0.058 0.236
sps3PU7 Pct Pun resps to pic O SPS Y3	-0.061 0.209	-0.357 0.000	1.000	-0.251 0.000	-0.018 0.718	-0.037 0.445	0.047 0.339	-0.112 0.022	0.016 0.747	0.133 0.006	0.017 0.732	0.116 0.017
sps3PI7 Pct Int resps to pic O SPS Y3	-0.208 0.000	-0.157 0.001	-0.251 0.000	1.000	-0.069 0.156	-0.043 0.376	0.003 0.948	-0.053 0.281	-0.045 0.361	0.104 0.034	0.028 0.568	-0.018 0.716

Pearson Correlation Coefficients, N = 420 Prob > |r| under H0: Rho=0												
	sps3PA7	sps3PC7	sps3PU7	sps3PI7	sps3PP7	sps3PR7	sps3PA8	sps3PC8	sps3PU8	sps3PI8	sps3PP8	sps3PR8
sps3PP7 Pct Pas resps to pic O SPS Y3	-0.160 0.001	-0.217 0.000	-0.018 0.718	-0.069 0.156	1.000	-0.022 0.653	-0.054 0.272	-0.016 0.737	0.005 0.918	-0.059 0.228	0.089 0.068	-0.031 0.532
sps3PR7 Pct Irr resps to pic O SPS Y3	0.061 0.215	-0.073 0.135	-0.037 0.445	-0.043 0.376	-0.022 0.653	1.000	0.196 0.000	-0.060 0.223	-0.009 0.854	-0.018 0.716	-0.035 0.471	-0.007 0.892
sps3PA8 Pct Agg resps to pic P SPS Y3	0.207 0.000	-0.205 0.000	0.047 0.339	0.003 0.948	-0.054 0.272	0.196 0.000	1.000	-0.428 0.000	0.085 0.083	-0.030 0.539	-0.087 0.074	-0.022 0.656
sps3PC8 Pct Com resps to pic P SPS Y3	-0.146 0.003	0.231 0.000	-0.112 0.022	-0.053 0.281	-0.016 0.737	-0.060 0.223	-0.428 0.000	1.000	-0.254 0.000	-0.334 0.000	-0.730 0.000	-0.172 0.000
sps3PU8 Pct Pun resps to pic P SPS Y3	0.072 0.140	-0.052 0.287	0.016 0.747	-0.045 0.361	0.005 0.918	-0.009 0.854	0.085 0.083	-0.254 0.000	1.000	0.038 0.433	0.005 0.918	-0.013 0.798
sps3PI8 Pct Int resps to pic P SPS Y3	0.028 0.566	-0.127 0.009	0.133 0.006	0.104 0.034	-0.059 0.228	-0.018 0.716	-0.030 0.539	-0.334 0.000	0.038 0.433	1.000	-0.061 0.214	-0.025 0.612
sps3PP8 Pct Pas resps to pic P SPS Y3	0.019 0.698	-0.075 0.127	0.017 0.732	0.028 0.568	0.089 0.068	-0.035 0.471	-0.087 0.074	-0.730 0.000	0.005 0.918	-0.061 0.214	1.000	0.033 0.498
sps3PR8 Pct Irr resps to pic P SPS Y3	0.018 0.715	-0.058 0.236	0.116 0.017	-0.018 0.716	-0.031 0.532	-0.007 0.892	-0.022 0.656	-0.172 0.000	-0.013 0.798	-0.025 0.612	0.033 0.498	1.000