

## **Social Health Profile**

*Grade 4/Year 5*

### **FAST Track Project Technical Report Anne Maumary-Gremaud December 2000**

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#### **Citation**

##### *Instrument*

Kellam, S. (1990). Prevention Center Training Manual. Unpublished technical report.

Werthamer, Larsson, L., Kellam, S. & Wheeler, L. (1991). Effect of first-grade classroom on shy behavior, aggressive behavior, and concentration problems. American Journal of Community Psychology, 19, 585-602.

##### *Report*

Anne Maumary-Gremaud (2000) Social Health Profile (Grade 4/Year 5) (Technical Report) [Online]  
Available: <http://www.fasttrackproject.org/>

#### **Data Sources**

*Raw:* t5f

*Scored:* shs5

#### **I. Scale Description**

On the Social Health Profile form are items comprising two measures. Twenty-six of the behavior rating items are from the TOCA-R, developed by Shep Kellam and his colleagues, reflecting three dimensions of behavioral adjustment to school (Cognitive Concentration, Authority Acceptance, and Social Contact). Nine behavior-rating items were added by CPPRG to assess social competence for the Fast Track Project. In addition, two items on this form request teacher ratings of the degree of peer liking and peer disliking toward each child, and four items ask about specific aspects of adjustment (days absent, substance use, and likelihood of school promotion in the coming year.)

The TOCA-R scales are described in a technical report available from Kellam and his colleagues at Johns Hopkins and in a published study (Werthamer-Larsson, Kellam & Wheeler, 1991). The scales assess attentional skills and academic performance (Cognitive Concentration), aggressive and disruptive behavior (Authority Acceptance), and shyness/social withdrawal (Social Contact).

In addition, nine items were drawn from the Social Competence Scale developed by the CPPRG for Fast Track. Five of these items reflect prosocial behaviors and four represent emotion regulation. The measure is administered in a face-to-face interview with each classroom teacher. Typically, ratings are collected on all children in the classroom.

The measure also contains the following items: Has IEP, Placement outside regular class, Chapter 1 Services, School Counseling, Medication for behavior/attn, Times in this grade, Principal for behavior problems, Suspended for behavior problems, Number of Last 15 Days Absent, Percent of Last 15 Days absent.

## **II. Report Sample**

Primary analyses were conducted on Cohort 1 year 5 normative (n=387) and high risk control samples (n=155, overlap is 79). 47 students were missing the entire measure, 37 in the normative sample and 18 in the control sample. Out of these, 11 were from the Durham site, 11 from Nashville, 10 from Pennstate and 15 from Seattle, 27 were white and 15 were african-american, 22 were girls and 25 were boys.

## **III. Scaling**

### **A.) TOCA-R Scoring Method**

Kellam and colleagues report a 3-factor solution for the TOCA-R. The items loading on each factor are as follows (note that items that require reversed scoring are noted with an R):

Cognitive Concentration: 2R (self-reliant), 4R (works hard), 7R (learns up to ability), 8 (distractible), 9R (concentrates), 14 R (completes assignments), 16 (poor effort), 17R (eager to learn), 20R (stays on task), 22R (pays attention), 32 (mind wanders), 34R (works well alone).

Authority Acceptance: 3 (takes property), 5(yells at others), 6 (fights), 10 (stubborn), 12 (lies), 15 (breaks rules), 19 (teases others), 21 (breaks things), 23 (harms others), 24 (disobedient).

Social Contact: 25R (initiates interactions), 26R (plays with others), 28R (social contact with others), 31 (avoids contact).

### **B.) Social Competence Items**

The items selected from the Social Competence Scale (teacher version) to reflect two dimensions of social competence are as follows:

- Prosocial: 1R (friendly), 13R (helpful), 18R (resolves peer problems), 33R (understands others), 35R (suggests without bossiness);

- Emotional regulation: 11R (controls temper in a disagreement), 27R (appropriate expression of needs/feelings), 29R (thinks before acting), 30R (can calm down).

Although the two aspects of social competence (prosocial and emotional regulation) are separate conceptually, the correlation between the two scales is high (.86 on the normative sample). The two scales should be scored separately only when a strong theoretical rationale supports making this distinction. For most research purposes, these items will be combined to score a single social competence scale.

With a strong conceptual justification, it may be appropriate in some research studies to score smaller groups of items to reflect the narrow-band dimensions of behavior problems identified on other measures. Note that these narrow-band dimensions of behavior problems are comprised of only a few items each and are not supported by the factor analysis of this measure. The possible narrow-band dimensions that could be scored from the measure are:

1. Overt Aggression: 5 (yells), 6 (fights), 19 (teases), 21 (breaks things), 23 (harms others)
2. Oppositional: 10 (stubborn), 15 (breaks rules), 24 (has trouble accepting authority)
3. Covert Antisocial: 3 (takes people's property), 12 (lies)

Finally, the single items 36 and 37 (liking and disliking items) can be used as single items to assess teacher

estimations of peer status.

Reliability coefficients for the scales:

| <u>Scale</u>            | <u>Normative sample</u> | <u>Control sample</u> |
|-------------------------|-------------------------|-----------------------|
| Cognitive concentration | .97                     | .95                   |
| Authority acceptance    | .93                     | .91                   |
| Social contact          | .88                     | .87                   |
| Overt aggression        | .86                     | .84                   |
| Oppositional            | .88                     | .86                   |
| Covert antisocial       | .73                     | .74                   |
| Prosocial               | .87                     | .85                   |
| Emotional regulation    | .89                     | .85                   |
| Social competence       | .93                     | .91                   |

#### **IV. Differences Between Groups**

T-tests of mean comparisons were conducted between the normative (non-high-risk) and the high-risk control group. The tests were all found significant at the .05 significance level. The students in the control group evidenced higher occurrence of conduct problems and lower social competence skills than the students in the normative sample.

#### **V. Recommendations for Use**

The TOCA-R and SHP Social Competence Scales have demonstrated strong internal consistency, and good concurrent and predictive validity. When all children in a classroom are assessed, the measure provides information about classroom group characteristics, as well as child characteristics.

#### **VI. Item and Scale Means and SD's**

Normative sample:

Item means:

| <u>Variable</u> | <u>Label</u>                    | <u>N</u> | <u>Mean</u> | <u>Std Dev</u> |
|-----------------|---------------------------------|----------|-------------|----------------|
| T5F1            | Friendly                        | 350      | 3.6514286   | 1.1598269      |
| T5F2            | Self-Reliant                    | 350      | 3.1000000   | 1.3472885      |
| T5F3            | Takes Others Property           | 350      | 0.5885714   | 0.9881160      |
| T5F4            | Works Hard                      | 350      | 3.0400000   | 1.3870461      |
| T5F5            | Yells at Others                 | 350      | 1.3314286   | 1.3259092      |
| T5F6            | Fights                          | 348      | 1.0775862   | 1.2508270      |
| T5F7            | Learns Up to Ability            | 347      | 2.9711816   | 1.4036614      |
| T5F8            | Easily Distracted               | 350      | 2.3285714   | 1.5672273      |
| T5F9            | Concentrates                    | 350      | 2.9228571   | 1.3208892      |
| T5F10           | Stubborn                        | 350      | 1.7742857   | 1.5653561      |
| T5F11           | Controls Temper in Disagreement | 350      | 3.0485714   | 1.4680692      |
| T5F12           | Lies                            | 350      | 0.9457143   | 1.2530405      |
| T5F13           | Helpful to Others               | 350      | 3.1942857   | 1.2721263      |
| T5F14           | Completes Assignments           | 350      | 3.2257143   | 1.5835550      |
| T5F15           | Breaks Rules                    | 350      | 1.4514286   | 1.3717100      |
| T5F16           | Shows Poor Effort               | 350      | 1.7714286   | 1.4812237      |
| T5F17           | Eager to Learn                  | 350      | 3.0800000   | 1.3368911      |
| T5F18           | Resolves Peer Problems Alone    | 349      | 2.6160458   | 1.4147724      |
| T5F19           | Teases                          | 350      | 1.4800000   | 1.3724260      |
| T5F20           | On-Task                         | 350      | 2.9085714   | 1.4473316      |
| T5F21           | Breaks Things                   | 350      | 0.3914286   | 0.7855688      |

|       |                                    |     |           |            |
|-------|------------------------------------|-----|-----------|------------|
| T5F22 | Pays Attention                     | 350 | 3.0457143 | 1.3190999  |
| T5F23 | Harms Others                       | 350 | 0.5542857 | 0.9028268  |
| T5F24 | Disobedient                        | 350 | 1.2257143 | 1.4335007  |
| T5F25 | Initiates Interactions             | 350 | 3.2457143 | 1.2263447  |
| T5F26 | Plays With Others                  | 350 | 3.8142857 | 1.1640860  |
| T5F27 | Appropr. Needs/Feelings Expression | 350 | 2.9428571 | 1.3337767  |
| T5F28 | Social Contact With Others         | 350 | 3.8885714 | 1.1082580  |
| T5F29 | Thinks Before Acting               | 350 | 2.8742857 | 1.36954043 |
| T5F30 | Can Calm Down                      | 349 | 2.9856734 | 1.3571102  |
| T5F31 | Avoids Social Contact              | 350 | 0.8428571 | 0.9817199  |
| T5F32 | Mind Wanders                       | 350 | 2.0285714 | 1.4220070  |
| T5F33 | Understands Others's Feelings      | 350 | 2.8171429 | 1.2303436  |
| T5F34 | Works Well Alone                   | 350 | 2.9914286 | 1.4091131  |
| T5F35 | Suggests w/out Bossiness           | 350 | 2.9314286 | 1.3224470  |
| T5F36 | Liked                              | 350 | 3.4771429 | 1.2928247  |
| T5F37 | Disliked                           | 350 | 1.1314286 | 1.1968850  |

Scale means:

| Variable | Label                             | N   | Mean      | Std Dev   |
|----------|-----------------------------------|-----|-----------|-----------|
| SHS5CCN  | Cognitive Concentration SHP       | 349 | 1.9843275 | 1.2288852 |
| SHS5AAC  | Authority Acceptance SHP          | 349 | 1.0810570 | 0.9677517 |
| SHS5SCN  | Social Contact SHP                | 349 | 1.2206304 | 0.9695604 |
| SHS5OAG  | Overt Aggression SHP Narrow Band  | 349 | 0.9653295 | 0.9194427 |
| SHS5OPP  | Oppositional SHP Narrow Band      | 349 | 1.4842407 | 1.3094691 |
| SHS5CAS  | Covert Antisocial SHP Narrow Band | 349 | 0.7650430 | 1.0010534 |
| SHS5PSC  | Prosocial SHP                     | 349 | 1.9591691 | 1.0476858 |
| SHS5REG  | Emotional Regulation SHP          | 349 | 2.0348615 | 1.1966332 |
| SHS5SCT  | Social Competence Total SHP       | 349 | 1.9928139 | 1.0714885 |

Control sample:

Item means:

| Variable | Label                           | N   | Mean      | Std Dev   |
|----------|---------------------------------|-----|-----------|-----------|
| T5F1     | Friendly                        | 137 | 3.2189781 | 1.2048635 |
| T5F2     | Self-Reliant                    | 137 | 2.5474453 | 1.2542329 |
| T5F3     | Takes Others Property           | 137 | 0.9489051 | 1.0454465 |
| T5F4     | Works Hard                      | 137 | 2.6277372 | 1.3004937 |
| T5F5     | Yells at Others                 | 137 | 1.9635036 | 1.4266825 |
| T5F6     | Fights                          | 137 | 1.8540146 | 1.4273595 |
| T5F7     | Learns Up to Ability            | 137 | 2.5547445 | 1.2829178 |
| T5F8     | Easily Distracted               | 137 | 3.1605839 | 1.2961117 |
| T5F9     | Concentrates                    | 137 | 2.3722628 | 1.1376401 |
| T5F10    | Stubborn                        | 137 | 2.6423358 | 1.4739763 |
| T5F11    | Controls Temper in Disagreement | 137 | 2.2408759 | 1.4477444 |
| T5F12    | Lies                            | 137 | 1.5474453 | 1.3502222 |
| T5F13    | Helpful to Others               | 137 | 2.6131387 | 1.1897119 |
| T5F14    | Completes Assignments           | 137 | 2.8467153 | 1.5477237 |
| T5F15    | Breaks Rules                    | 137 | 2.1970803 | 1.3275332 |
| T5F16    | Shows Poor Effort               | 137 | 2.2919708 | 1.3835195 |
| T5F17    | Eager to Learn                  | 137 | 2.6861314 | 1.2588033 |
| T5F18    | Resolves Peer Problems Alone    | 137 | 1.9781022 | 1.2917564 |

|       |                                   |     |           |           |
|-------|-----------------------------------|-----|-----------|-----------|
| T5F19 | Teases                            | 137 | 2.1167883 | 1.4197436 |
| T5F20 | On-Task                           | 137 | 2.3065693 | 1.2459466 |
| T5F21 | Breaks Things                     | 137 | 0.7226277 | 1.0553082 |
| T5F22 | Pays Attention                    | 137 | 2.5693431 | 1.1869116 |
| T5F23 | Harms Others                      | 137 | 1.0875912 | 1.2803633 |
| T5F24 | Disobedient                       | 137 | 2.0000000 | 1.5339300 |
| T5F25 | Initiates Interactions            | 137 | 3.1313869 | 1.1428648 |
| T5F26 | Plays With Others                 | 137 | 3.4452555 | 1.1240663 |
| T5F27 | Apprpr. Needs/Feelings Expression | 137 | 2.3284672 | 1.1764196 |
| T5F28 | Social Contact With Others        | 137 | 3.5985401 | 1.0534248 |
| T5F29 | Thinks Before Acting              | 137 | 2.1678832 | 1.1855090 |
| T5F30 | Can Calm Down                     | 137 | 2.3430657 | 1.2092654 |
| T5F31 | Avoids Social Contact             | 137 | 0.9489051 | 1.0383894 |
| T5F32 | Mind Wanders                      | 137 | 2.5912409 | 1.2922549 |
| T5F33 | Understands Others's Feelings     | 137 | 2.1751825 | 1.2241312 |
| T5F34 | Works Well Alone                  | 137 | 2.4014599 | 1.4775768 |
| T5F35 | Suggests w/out Bossiness          | 137 | 2.3941606 | 1.1717111 |
| T5F36 | Liked                             | 137 | 2.8686131 | 1.2708121 |
| T5F37 | Disliked                          | 137 | 1.7518248 | 1.2472383 |

Scale means:

| Variable | Label                             | N   | Mean      | Std Dev   |
|----------|-----------------------------------|-----|-----------|-----------|
| SHS5CCN  | Cognitive Concentration SHP       | 138 | 2.5018116 | 1.0641178 |
| SHS5AAC  | Authority Acceptance SHP          | 138 | 1.7028986 | 1.0009442 |
| SHS5SCN  | Social Contact SHP                | 138 | 1.4329710 | 0.9312792 |
| SHS5OAG  | Overt Aggression SHP Narrow Band  | 138 | 1.5434783 | 1.0314724 |
| SHS5OPP  | Oppositional SHP Narrow Band      | 138 | 2.2753623 | 1.2729088 |
| SHS5CAS  | Covert Antisocial SHP Narrow Band | 138 | 1.2427536 | 1.0760083 |
| SHS5PSC  | Prosocial SHP                     | 138 | 2.5202899 | 0.9637336 |
| SHS5REG  | Emotional Regulation SHP          | 138 | 2.7155797 | 1.0568650 |
| SHS5SCT  | Social Competence Total SHP       | 138 | 2.6070853 | 0.9493014 |

**VII. Scale Correlations**

Normative sample:

|   | SHS5CCN           | SHS5AAC           | SHS5SCN           | SHS5OAG           | SHS5OPP           |
|---|-------------------|-------------------|-------------------|-------------------|-------------------|
| SHS5CCN<br>Cognitive Concentration SHP      | 1.00000           | 0.58660<br><.0001 | 0.41926<br><.0001 | 0.51362<br><.0001 | 0.57542<br><.0001 |
| SHS5AAC<br>Authority Acceptance SHP         | 0.58660<br><.0001 | 1.00000           | 0.24367<br><.0001 | 0.95452<br><.0001 | 0.93512<br><.0001 |
| SHS5SCN<br>Social Contact SHP               | 0.41926<br><.0001 | 0.24367<br><.0001 | 1.00000           | 0.15044<br>0.0049 | 0.27699<br><.0001 |
| SHS5OAG<br>Overt Aggression SHP Narrow Band | 0.51362<br><.0001 | 0.95452<br><.0001 | 0.15044<br>0.0049 | 1.00000           | 0.82579<br><.0001 |
| SHS5OPP<br>Oppositional SHP Narrow Band     | 0.57542<br><.0001 | 0.93512<br><.0001 | 0.27699<br><.0001 | 0.82579<br><.0001 | 1.00000           |

|                                   |         |         |         |         |         |
|-----------------------------------|---------|---------|---------|---------|---------|
|                                   | SHS5CAS | SHS5PSC | SHS5REG | SHS5SCT |         |
| SHS5CCN                           | 0.52747 | 0.69004 | 0.72646 | 0.73543 |         |
| Cognitive Concentration SHP       | <.0001  | <.0001  | <.0001  | <.0001  |         |
| SHS5AAC                           | 0.80661 | 0.72936 | 0.80986 | 0.79819 |         |
| Authority Acceptance SHP          | <.0001  | <.0001  | <.0001  | <.0001  |         |
| SHS5SCN                           | 0.28931 | 0.52831 | 0.44170 | 0.50623 |         |
| Social Contact SHP                | <.0001  | <.0001  | <.0001  | <.0001  |         |
| SHS50AG                           | 0.69702 | 0.65895 | 0.75029 | 0.73037 |         |
| Overt Aggression SHP Narrow Band  | <.0001  | <.0001  | <.0001  | <.0001  |         |
| SHS50PP                           | 0.66139 | 0.74350 | 0.79670 | 0.79934 |         |
| Oppositional SHP Narrow Band      | <.0001  | <.0001  | <.0001  | <.0001  |         |
|                                   | SHS5CCN | SHS5AAC | SHS5SCN | SHS50AG | SHS50PP |
| SHS5CAS                           | 0.52747 | 0.80661 | 0.28931 | 0.69702 | 0.66139 |
| Covert Antisocial SHP Narrow Band | <.0001  | <.0001  | <.0001  | <.0001  | <.0001  |
| SHS5PSC                           | 0.69004 | 0.72936 | 0.52831 | 0.65895 | 0.74350 |
| Prosocial SHP                     | <.0001  | <.0001  | <.0001  | <.0001  | <.0001  |
| SHS5REG                           | 0.72646 | 0.80986 | 0.44170 | 0.75029 | 0.79670 |
| Emotional Regulation SHP          | <.0001  | <.0001  | <.0001  | <.0001  | <.0001  |
| SHS5SCT                           | 0.73543 | 0.79819 | 0.50623 | 0.73037 | 0.79934 |
| Social Competence Total SHP       | <.0001  | <.0001  | <.0001  | <.0001  | <.0001  |
|                                   | SHS5CAS | SHS5PSC | SHS5REG | SHS5SCT |         |
| SHS5CAS                           | 1.00000 | 0.55333 | 0.62856 | 0.61258 |         |
| Covert Antisocial SHP Narrow Band |         | <.0001  | <.0001  | <.0001  |         |
| SHS5PSC                           | 0.55333 | 1.00000 | 0.85031 | 0.96528 |         |
| Prosocial SHP                     | <.0001  |         | <.0001  | <.0001  |         |
| SHS5REG                           | 0.62856 | 0.85031 | 1.00000 | 0.95826 |         |
| Emotional Regulation SHP          | <.0001  | <.0001  |         | <.0001  |         |
| SHS5SCT                           | 0.61258 | 0.96528 | 0.95826 | 1.00000 |         |
| Social Competence Total SHP       | <.0001  | <.0001  | <.0001  |         |         |

Control sample:

|                                   |         |         |         |         |         |
|-----------------------------------|---------|---------|---------|---------|---------|
|                                   | SHS5CCN | SHS5AAC | SHS5SCN | SHS50AG | SHS50PP |
| SHS5CCN                           | 1.00000 | 0.39781 | 0.31577 | 0.30024 | 0.41337 |
| Cognitive Concentration SHP       |         | <.0001  | 0.0002  | 0.0003  | <.0001  |
| SHS5AAC                           | 0.39781 | 1.00000 | 0.21907 | 0.95686 | 0.89785 |
| Authority Acceptance SHP          | <.0001  |         | 0.0098  | <.0001  | <.0001  |
| SHS5SCN                           | 0.31577 | 0.21907 | 1.00000 | 0.13242 | 0.24915 |
| Social Contact SHP                | 0.0002  | 0.0098  |         | 0.1215  | 0.0032  |
| SHS50AG                           | 0.30024 | 0.95686 | 0.13242 | 1.00000 | 0.77913 |
| Overt Aggression SHP Narrow Band  | 0.0003  | <.0001  | 0.1215  |         | <.0001  |
| SHS50PP                           | 0.41337 | 0.89785 | 0.24915 | 0.77913 | 1.00000 |
| Oppositional SHP Narrow Band      | <.0001  | <.0001  | 0.0032  | <.0001  |         |
|                                   | SHS5CAS | SHS5PSC | SHS5REG | SHS5SCT |         |
| SHS5CCN                           | 0.39725 | 0.52530 | 0.59555 | 0.59095 |         |
| Cognitive Concentration SHP       | <.0001  | <.0001  | <.0001  | <.0001  |         |
| SHS5AAC                           | 0.76483 | 0.63237 | 0.77824 | 0.74174 |         |
| Authority Acceptance SHP          | <.0001  | <.0001  | <.0001  | <.0001  |         |
| SHS5SCN                           | 0.25947 | 0.48685 | 0.40738 | 0.47616 |         |
| Social Contact SHP                | 0.0021  | <.0001  | <.0001  | <.0001  |         |
| SHS50AG                           | 0.67144 | 0.55995 | 0.70461 | 0.66446 |         |
| Overt Aggression SHP Narrow Band  | <.0001  | <.0001  | <.0001  | <.0001  |         |
| SHS50PP                           | 0.53439 | 0.66698 | 0.76716 | 0.75577 |         |
| Oppositional SHP Narrow Band      | <.0001  | <.0001  | <.0001  | <.0001  |         |
|                                   | SHS5CCN | SHS5AAC | SHS5SCN | SHS50AG | SHS50PP |
| SHS5CAS                           | 0.39725 | 0.76483 | 0.25947 | 0.67144 | 0.53439 |
| Covert Antisocial SHP Narrow Band | <.0001  | <.0001  | 0.0021  | <.0001  | <.0001  |
| SHS5PSC                           | 0.52530 | 0.63237 | 0.48685 | 0.55995 | 0.66698 |
| Prosocial SHP                     | <.0001  | <.0001  | <.0001  | <.0001  | <.0001  |
| SHS5REG                           | 0.59555 | 0.77824 | 0.40738 | 0.70461 | 0.76716 |
| Emotional Regulation SHP          | <.0001  | <.0001  | <.0001  | <.0001  | <.0001  |
| SHS5SCT                           | 0.59095 | 0.74174 | 0.47616 | 0.66446 | 0.75577 |
| Social Competence Total SHP       | <.0001  | <.0001  | <.0001  | <.0001  | <.0001  |
|                                   | SHS5CAS | SHS5PSC | SHS5REG | SHS5SCT |         |
| SHS5CAS                           | 1.00000 | 0.41579 | 0.56984 | 0.51646 |         |
| Covert Antisocial SHP Narrow Band |         | <.0001  | <.0001  | <.0001  |         |
| SHS5PSC                           | 0.41579 | 1.00000 | 0.78309 | 0.95148 |         |
| Prosocial SHP                     | <.0001  |         | <.0001  | <.0001  |         |

|                             |         |         |         |         |
|-----------------------------|---------|---------|---------|---------|
| SHS5REG                     | 0.56984 | 0.78309 | 1.00000 | 0.93647 |
| Emotional Regulation SHP    | <.0001  | <.0001  |         | <.0001  |
| SHS5SCT                     | 0.51646 | 0.95148 | 0.93647 | 1.00000 |
| Social Competence Total SHP | <.0001  | <.0001  | <.0001  |         |



**Appendix:**  
(Scoring program removed)