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Washington State Department of Social & Health Services

Division of Developmental Disabilities

Using the Supports Intensity Scale to Predict Residential Service Rates

Presented by

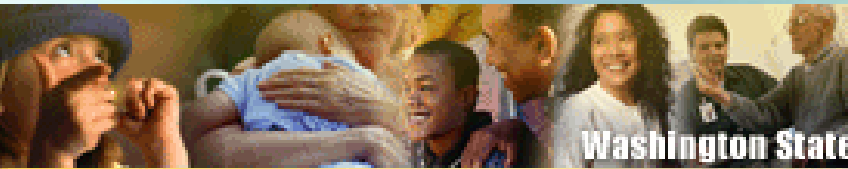
Lisa Weber

WA State Division of Developmental Disabilities

**AAIDD Conference
May 22, 2007**

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The New Assessment Tool for Residential Services and Supports

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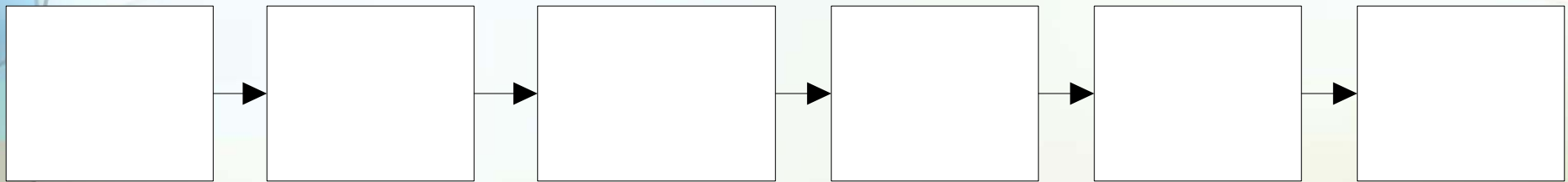
Vision for the Rate Setting Process

Develop a Certified Residential Services rates system that meets client needs, reflects the Residential Service Guidelines, makes equitable payments to vendors, is rational, is fiscally responsible, and has a standardized structure.

Model for the New Rate Setting Process

- **Our current service system is inherently efficient and effective; however, we need a way to ensure that it is consistently applied and easily explained.**
- **Intent of the new rate setting process is to capture what we're currently doing.**

Design and Flow of the Residential Rate Setting Process



Assessment
Predicts Level of
Support and Base

RM Applies
**ECONOMIES OF
SCALE**

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System Calculates or
RM Sets **ADMIN
RATE**

Information Needed for Setting Residential Rates

- **Supports Intensity Scale**
- **Sleep**
- **Seizure**
- **Level of Medical Support**
- **Level of Behavior Support**
- **Protective Supervision**

How did we determine rates for residential services based on the new assessment tool?

Residential Rates Study

- Assessments were given to 271 persons currently receiving Supported Living Services
- Responses to the draft assessment tool were compared to what we know about the support needs of these individuals.

Assumption: New persons who respond similarly to the assessment tool will likely require similar levels of support.

Residential Rates Study

Sampling

- **Random sample of persons currently receiving Supported Living Services and their housemates**
- **Broad range of levels of support**
- **Statewide**
- **Plus 20 persons participating the in the Community Protection Program**

Residential Rates Study

Why sample by household?

- **Allows us to explore persons both as individuals and as members of a household.**
- **Current process for rate setting considers entire household when setting individual rates.**
- **Allows us to verify that households will remain relatively intact under the new rate setting system.**

Residential Rates Study Data Collection Plan

A

Assessment Tool



B

Test Review Group
(clinical judgment)



How do these two sources of data compare?

Residential Rates Study Clinical Judgment

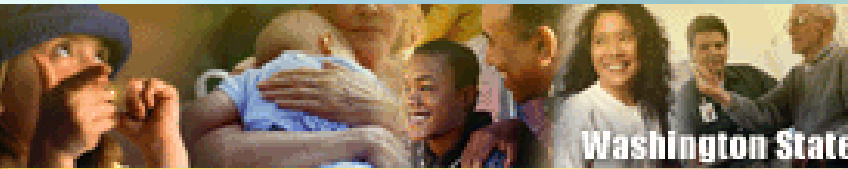
Test Review Group (TRG)

- Resource Manager
- Case Manager
- Residential Agency
- Project Staff (*for first few households per region to ensure consistency*)

Residential Rates Study Results

- **The New Assessment Tool can accurately predict an individual's level of support needs for residential services (“Validity”).**
- **The New Assessment Tool can be administered consistently across assessors (“Reliability”).**
- **Results were also used to develop algorithms for predicting support needs.**

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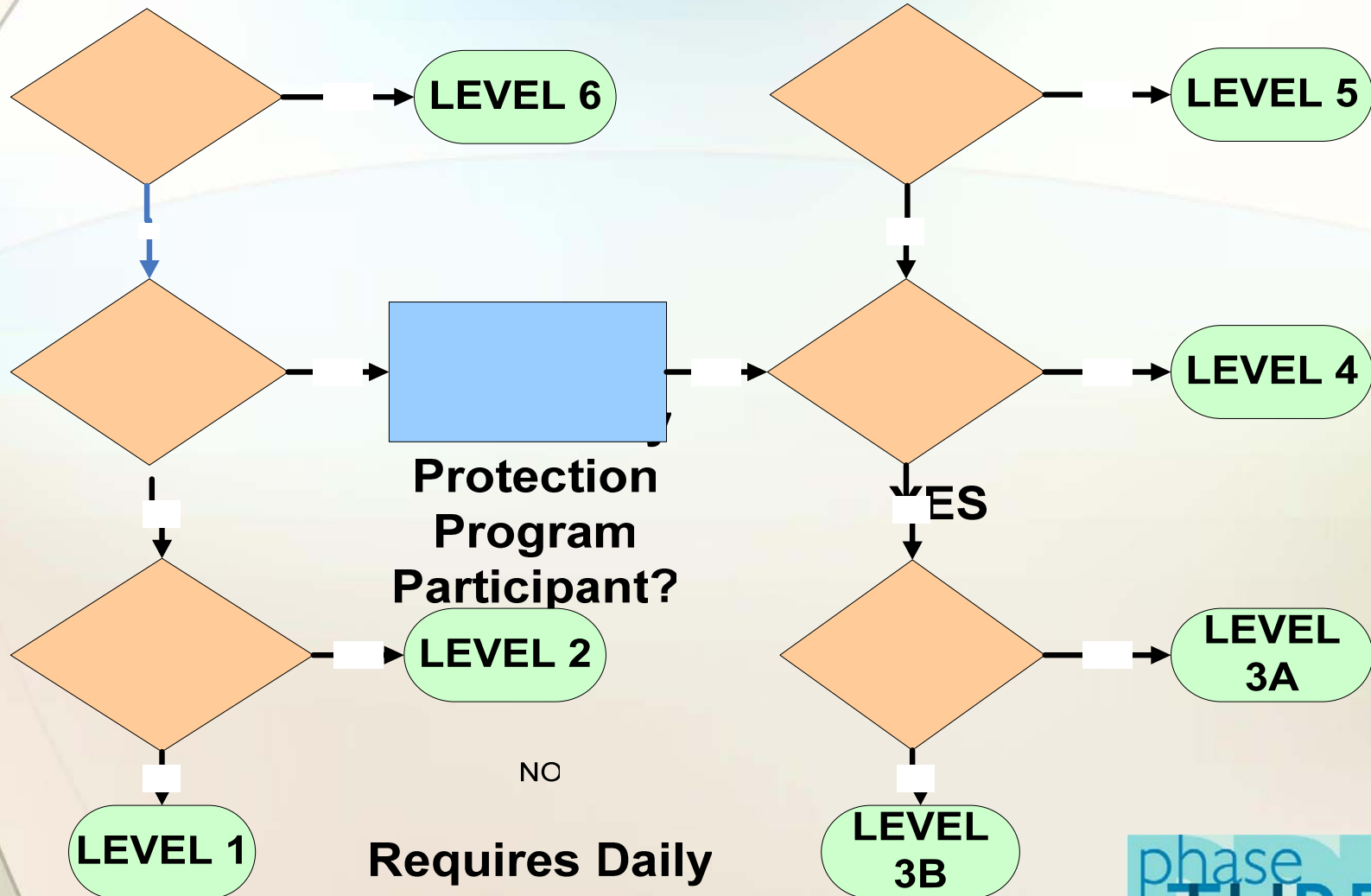
The Rate Setting Process

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Support Levels for Persons receiving Residential Services

- **Level 1. Weekly or less**
- **Level 2. Several Times per Week**
- **Level 3. Daily Intermittent**
 - **Sublevel 3A. Needs support with not more than a few daily activities AND can handle unusual/unexpected situations independently or with remote help.**
 - **Sublevel 3B. Needs support with several daily activities OR needs staff to be present to resolve unusual/unexpected situations.**
- **Level 4. Daily – daytime continuous plus nighttime periodic**
- **Level 5. Daily – daytime continuous plus nighttime continuous**
- **Level 6. Community Protection Program participant**

Determining the Support Level



NO
Requires Daily Support OR is some who you should check on every day (e.g.

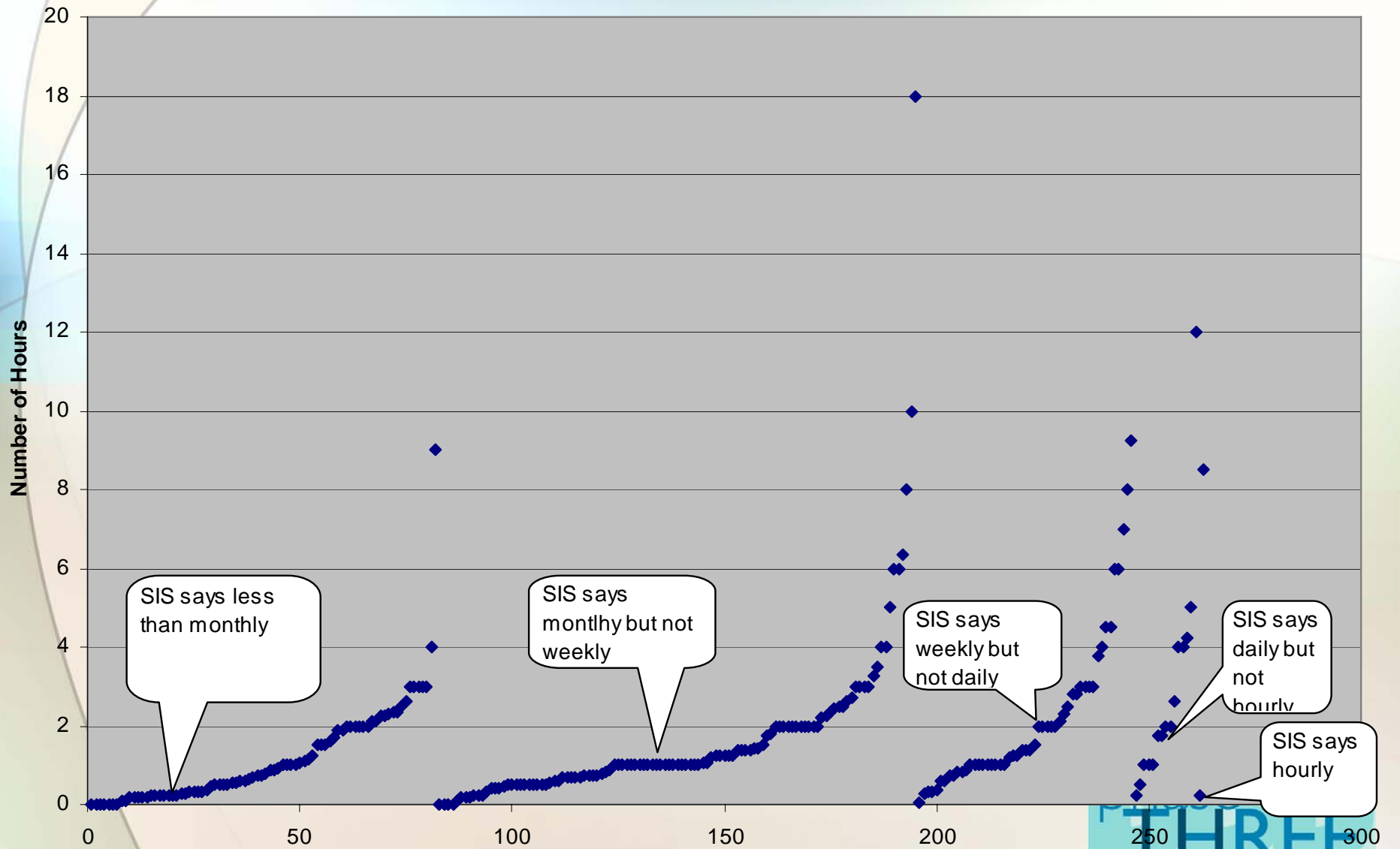
YES

Process for Daily

Determining the Default Base Rate

| Areas of Support | | 1 | 2 | 3A | 3B | 4 | 5 | 6 |
|------------------|---------------------------|--|--------------|-------------------------------|--|--------------|--------------|--------------|
| Sleep | Nighttime Support | 0 | 0 | 0 | 0 if night support is less than daily; 56 if needs daily/hourly night support | 56 | 56 | 56 |
| Empl/School | Res Provider Support | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Community | Medical | .25 if freq is < monthly; 1 if freq is monthly; 2 if freq is weekly or more frequently | | | | | | |
| | Shopping | .5 if freq is < monthly; 2 if freq is monthly or more frequently | | | | | | |
| | Integration/Public Access | prediction B | prediction B | prediction B | prediction B | prediction C | prediction C | prediction C |
| In Home | Habilitation/Pers Asst | 6.87 - Other | 8.27 - other | prediction A or (8.27 - comm) | prediction A or 27.75 - comm | prediction A | prediction A | prediction A |
| | Unscheduled Prot Sup | 0 | 0 | 0 | 0 | 168 - sum | 168 - sum | 168 - sum |
| Non-SIS | | .08 + 2.77% | .35 + 2.77% | .38 + 2.77% | .45 + 2.77% | .75 + 2.77% | .75 + 2.77% | .88 + 2.77% |

TRG estimates of weekly medical/therapy time

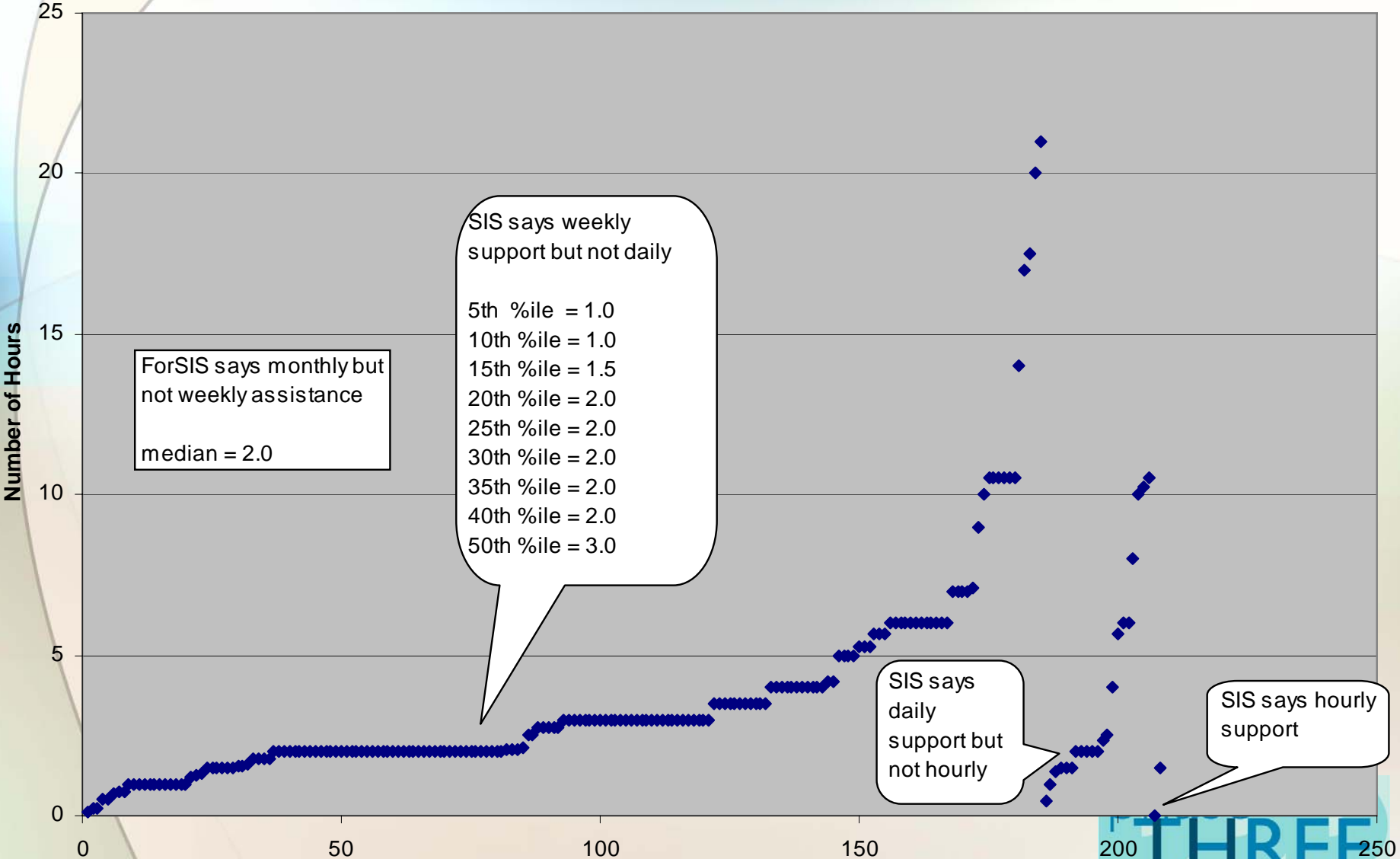


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Determining the Default Base Rate

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|------------------|---------------------------|--|--------------|-------------------------------|--|--------------|--------------|--------------|
| Sleep | Nighttime Support | 0 | 0 | 0 | 0 if night support is less than daily; 56 if needs daily/hourly night support | 56 | 56 | 56 |
| Empl/School | Res Provider Support | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Community | Medical | .25 if freq is < monthly; 1 if freq is monthly; 2 if freq is weekly or more frequently | | | | | | |
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TRG estimates of weekly shopping time



Determining the Default Base Rate

| Areas of Support | | 1 | 2 | 3A | 3B | 4 | 5 | 6 |
|------------------|---------------------------|--|--------------|-------------------------------|--|--------------|--------------|--------------|
| Sleep | Nighttime Support | 0 | 0 | 0 | 0 if night support is less than daily; 56 if needs daily/hourly night support | 56 | 56 | 56 |
| Empl/School | Res Provider Support | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Community | Medical | .25 if freq is < monthly; 1 if freq is monthly; 2 if freq is weekly or more frequently | | | | | | |
| | Shopping | .5 if freq is < monthly; 2 if freq is monthly or more frequently | | | | | | |
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Predictors of Community Support Time

| Prediction B (<24 hrs/day) | Prediction C (24 hrs/day) |
|--|---|
| Getting from place to place throughout the community (transportation) – F, DST | Getting from place to place throughout the community (transportation) – T, F |
| Using public services in the community – F | Going to visit friends and family – F, DST |
| Interacting with others in learning activities – DST | Participating in preferred community activities (church, volunteer, etc.) – F |
| Learning and using problem-solving strategies – T, F | Interacting with community members – T, F, DST |
| Learning self-management strategies – F | Accessing public buildings and settings – F |
| Avoiding health and safety hazards – T, DST | Interacting with others in learning activities – F |
| Maintaining physical health and fitness – T, F | Learning and using problem-solving strategies – DST |
| Participating in recreation/leisure activities with others – F, DST | Learning self-management strategies – DST |
| Socializing outside the household – F, DST | Interacting with co-workers – T, F, DST |
| Communicating with others about personal needs – F | Interacting with supervisors/coaches – F, DST |
| Engaging in loving and intimate relationships – F | Seeking information and assistance from an employer – F, DST |
| Advocating for self – T | Maintaining physical health and fitness – T |
| Protecting self from exploitation – DST | Maintaining emotional well-being – F |
| Making choices and decisions -- F | Making and keeping friends – DST |
| | Engaging in loving and intimate relationships – F |
| | Engaging in volunteer work - F |

Determining the Default Base Rate

| Areas of Support | | 1 | 2 | 3A | 3B | 4 | 5 | 6 |
|------------------|---------------------------|--|--------------|-------------------------------|--|--------------|--------------|--------------|
| Sleep | Nighttime Support | 0 | 0 | 0 | 0 if night support is less than daily; 56 if needs daily/hourly night support | 56 | 56 | 56 |
| Empl/School | Res Provider Support | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Community | Medical | .25 if freq is < monthly; 1 if freq is monthly; 2 if freq is weekly or more frequently | | | | | | |
| | Shopping | .5 if freq is < monthly; 2 if freq is monthly or more frequently | | | | | | |
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Predictors of Habilitation/Personal Assistance Time

| Prediction A |
|---|
| Taking care of clothes (includes laundering) -- F |
| Preparing food – T, F |
| Eating food – T, DST |
| Dressing – F |
| Learning and using problem-solving strategies – F |
| Taking medications – F |
| Maintaining a nutritious diet – F |
| Maintaining physical health and fitness – F |
| Maintaining emotional well-being – T |
| Advocating for self – T, DST |
| Managing money and personal finances – F |
| Protecting self from exploitation – F |
| Making choices and decisions – T, F |
| Medical Acuity Level |
| Behavior Acuity Level |

Determining the Default Base Rate

| Areas of Support | | 1 | 2 | 3A | 3B | 4 | 5 | 6 |
|------------------|---------------------------|--|--------------|-------------------------------|--|--------------|--------------|--------------|
| Sleep | Nighttime Support | 0 | 0 | 0 | 0 if night support is less than daily; 56 if needs daily/hourly night support | 56 | 56 | 56 |
| Empl/School | Res Provider Support | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Community | Medical | .25 if freq is < monthly; 1 if freq is monthly; 2 if freq is weekly or more frequently | | | | | | |
| | Shopping | .5 if freq is < monthly; 2 if freq is monthly or more frequently | | | | | | |
| | Integration/Public Access | prediction B | prediction B | prediction B | prediction B | prediction C | prediction C | prediction C |
| In Home | Habilitation/Pers Asst | 6.87 - Other | 8.27 - other | prediction A or (8.27 - comm) | prediction A or 27.75 - comm | prediction A | prediction A | prediction A |
| | Unscheduled Prot Sup | 0 | 0 | 0 | 0 | 168 - sum | 168 - sum | 168 - sum |
| Non-SIS | | .08 + 2.77% | .35 + 2.77% | .38 + 2.77% | .45 + 2.77% | .75 + 2.77% | .75 + 2.77% | .88 + 2.77% |

The Economy of Scale Calculator

The Rate Setting Calculator

- **Step 1: Economies of Scale**
- **Step 2: Administrative Rate Adjustment**
- **Step 3: Transportation Rate**
- **Step 4: Residential Professional Services (therapy, admin)**
- **Summary**

Residential Rates Calculator



Step 1: Economies of Scale

| Need | Assmt Hrs/Wk | RM Adjust | Support By Others | Support Refused | Rec. Hrs/Wk | Indiv. Hrs | Addtl. Clients | Hrs/Wk |
|---------------------|--------------|-----------|-------------------|-----------------|-------------|------------|----------------|--------|
| Night Sup. | 0.00 | 0 | 0 | 0 | 0.00 | 0 | 0 | 0.00 |
| Employ/School | 0.00 | 0 | 0 | 0 | 0.00 | 0 | 0 | 0.00 |
| Medical | 2.00 | 0 | 0 | 0 | 2.00 | 0 | 0 | 2.00 |
| Essntl. Shopping | 2.00 | 0 | 0 | 0 | 2.00 | 0 | 0 | 2.00 |
| Integration/PS | 7.94 | 0 | 0 | 0 | 7.94 | 0 | 0 | 7.94 |
| Habilitation | 154.73 | 0 | 0 | 0 | 154.73 | 0 | 0 | 154.73 |
| Unsched. Prot. Sup. | 0.00 | 0 | 0 | 0 | 0.00 | 0 | 0 | 0.00 |
| Non-SIS | 7.77 | 0 | 0 | 0 | 7.77 | 0 | 0 | 7.77 |

Residential Level:
Proposed ISS Hrs/Week:
Proposed ISS Hrs/Day:
Current ISS Hrs/Day:
New ISS Hrs/Day: *

Comments/Justification



Residential Rates Calculator



Step 2: Administrative Rate Adjustment - Client in Agency

Admin Rate Method: *

Administrative Rate Standard:

Provider Rate Status: *

New ISS Hrs/Day:

Service County: *

New Admin Rate: *

Community Protection Program?: *

Current Administrative Rate: *

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Finish

Cancel

Help

CA Residential Rates Calculator



Step 3: Transportation Rate

Average Miles per Week

1. Employment (if over 300, enter actual miles): *

Miles: * Additional Clients: *

2. Community Activities (if over 100, enter actual miles): *

Miles: * Additional Clients: *

3. Medical Appointments *

Miles: * Additional Clients: * Frequency: *

4 Vehicle Type: *

Miles driven on client's behalf (if over 100 enter actual miles): *

Miles: *

Vehicle Type: *

Current Transportation Rate:

Calculated Transportation Rate:

New Transportation Rate: *

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Finish

Cancel

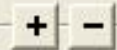
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Residential Rates Calculator



Step 4: Residential Professional Services

ISS Therapy *



| # | Description * | Daily Hours * | Rate * | Total |
|---|---------------|---------------|--------|-------|
| | | | | |

Admin



| # | Desc | Total |
|---|------|-------|
| | | |

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Finish

Cancel

Help

Residential Rates Calculator

Summary:

New ISS Hrs/Day:

25.00

ISS Base Rate:

370.50

Admin:

5.00

Transportation:

2.60

RPS Rate:

0.00

Other Rate:

0.00

Total Daily Rate:

373.10

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Finish

Cancel

Help

Residential Rates

-- Reliability & Validity --

Criterion Validity of Support Level Predictions

- **Prediction of Support Level versus clinical assessment of Support Level**

| | |
|------------------------|---------------|
| Exact Match | 72.72% |
| Within 1 level | 95.83% |
| Within 2 levels | 99.24% |
| Within 3 levels | 99.62% |

Interrater Reliability of Support Level Predictions

- **Match of calculated level based on assessment administered by two separate assessors**

| | |
|------------------------|----------------|
| Exact Match | 64.00% |
| Within 1 level | 92.00% |
| Within 2 levels | 100.00% |

Criterion Validity of Base Hour Predictions

- **Percent of variation in hours reported by TRG that can be explained by the Regression formulas**

Prediction A **89.91%**

(Habilitation/Personal Assistance)

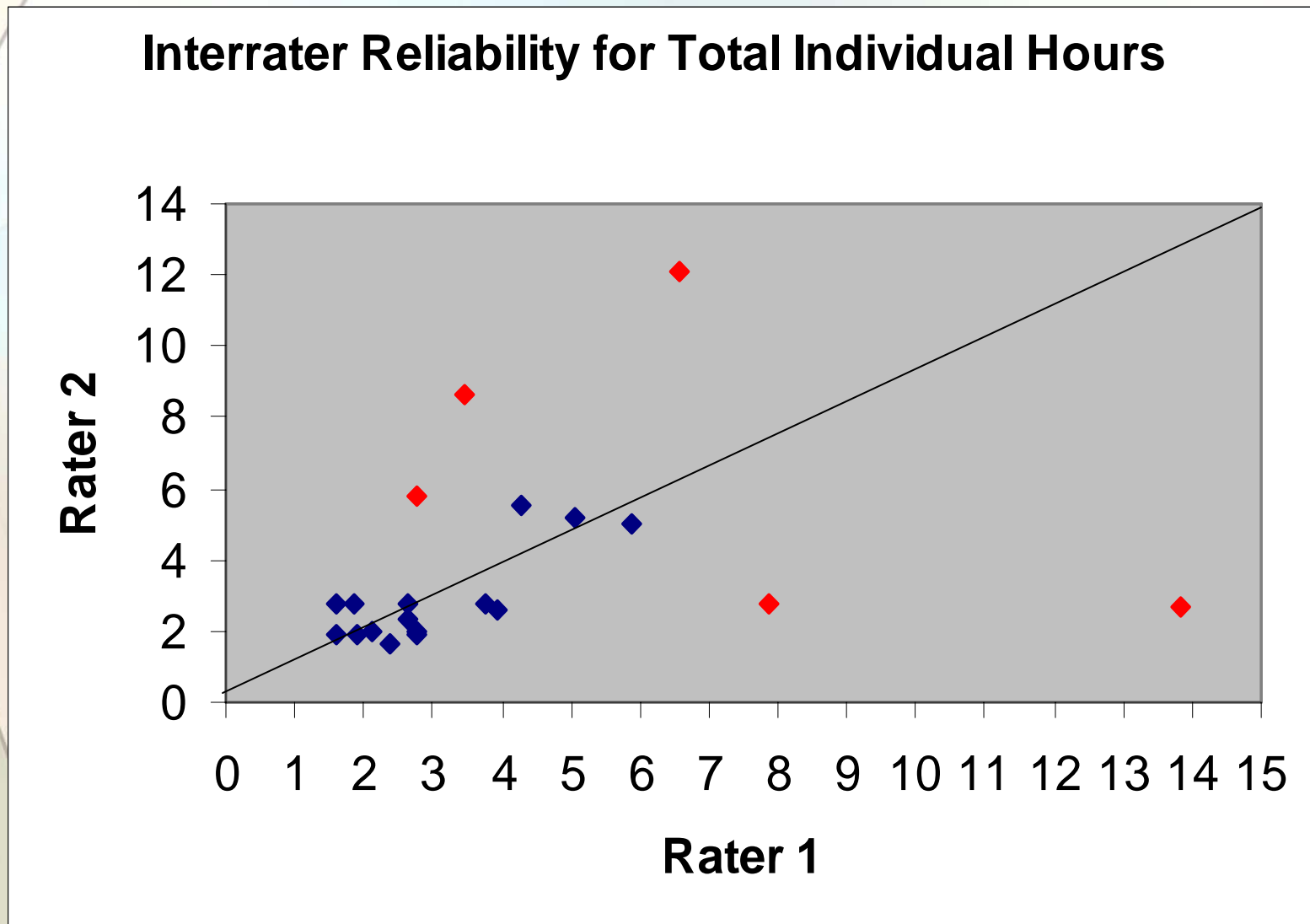
Prediction B **82.92%**

(Integration/Public Services -- <24 hrs/day)

Prediction C **80.93%**

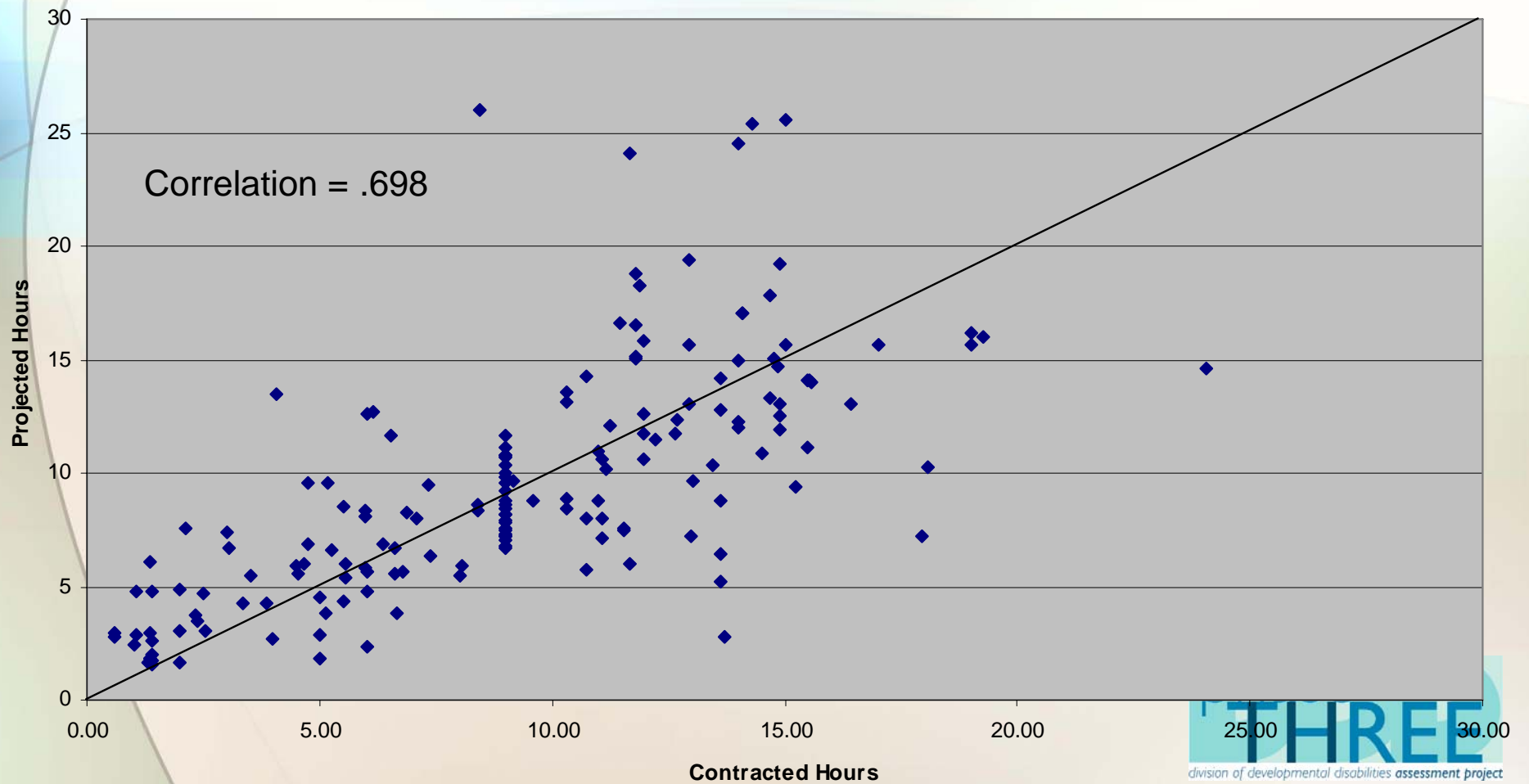
(Integration/Public Services -- 24+ hrs/day)

Interrater Reliability of Total Base Hour Predictions



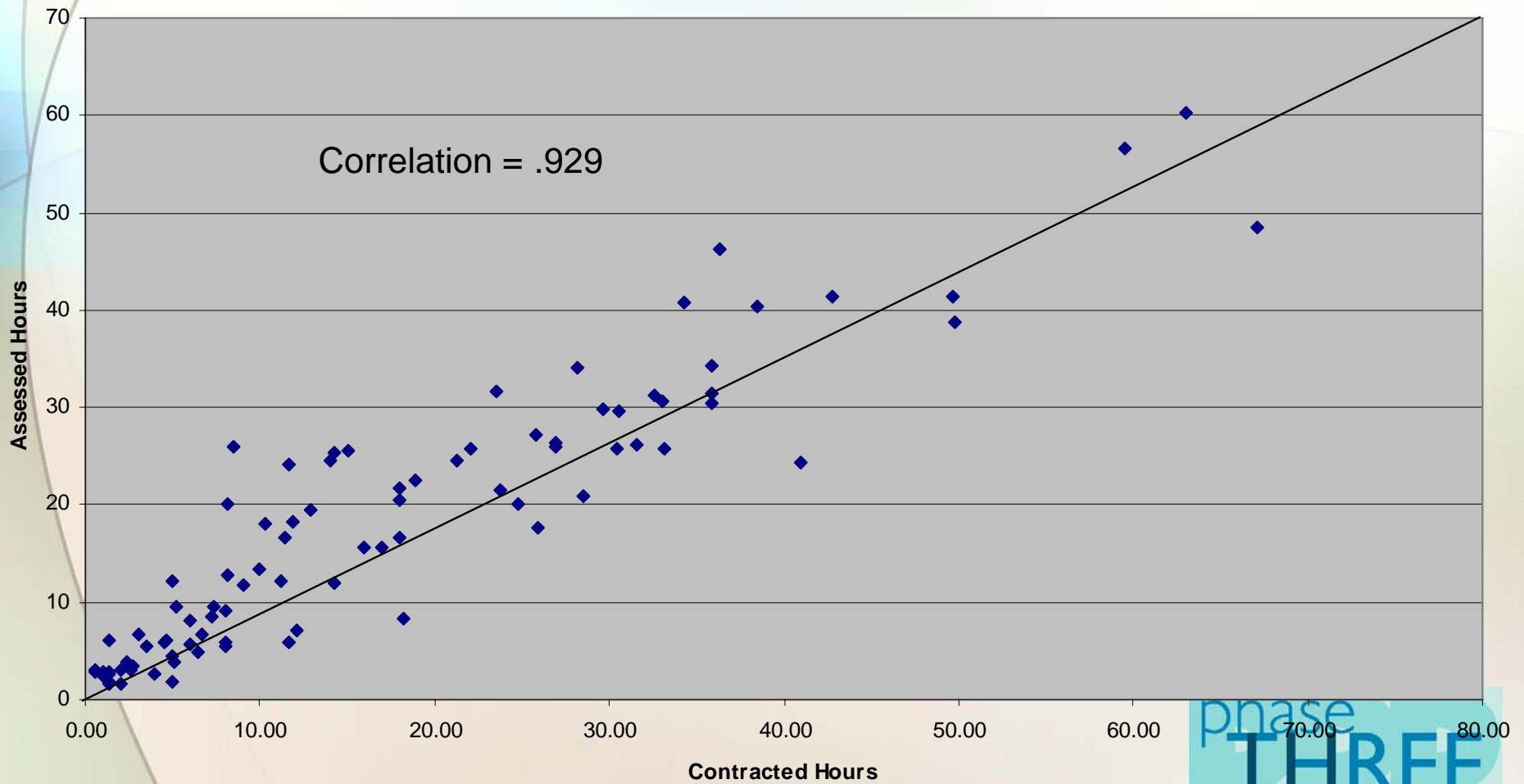
Projected ISS Hours vs. Contracted Hours by Person

Projected ISS Hours vs Contracted on an Individual Basis

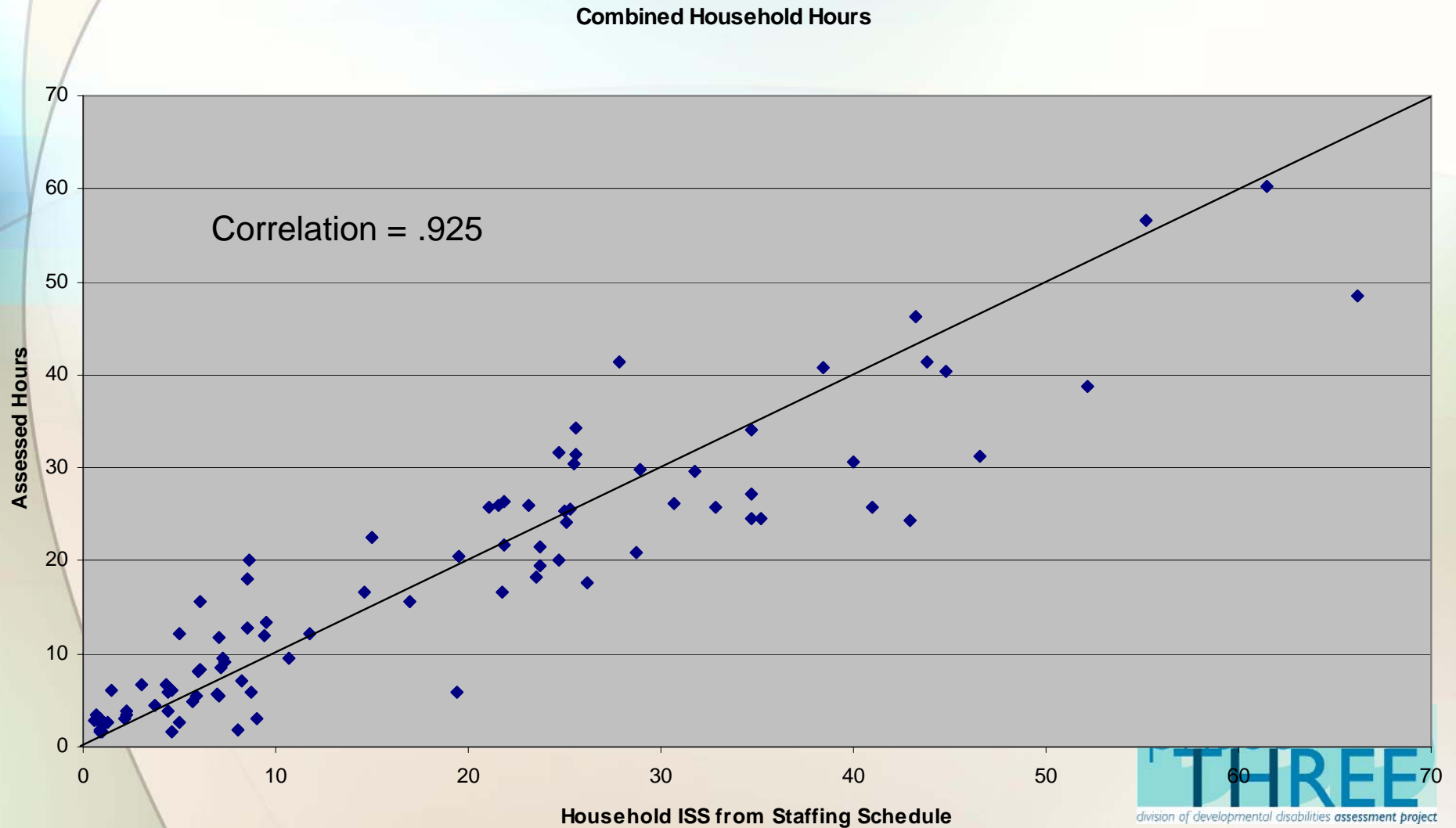


Projected ISS Hours vs. Contracted Hours by Household

Combined Household Hours



Projected Direct Care Hours vs. Staffing Hours by Household



Where to get more information

- **SIS Website**

<http://www.siswebsite.org>

- **DDD Internet**

<http://www1.dshs.wa.gov/ddd/>

- **Lisa Weber,
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