

***Personal Reemployment Accounts:
Simulations for Planning Implementation***

Upjohn Institute Staff Working Paper 04-110

This paper is available as U.S. Department of Labor, Employment and Training Administration, Occasional Paper 2004-08. It can be found on the Internet at: <http://www.doleta.gov/reports/searcheta/occ/papers/final2004-08.pdf>.

Christopher J. O'Leary
Randall W. Eberts
W.E. Upjohn Institute for Employment Research
300 South Westnedge Avenue
Kalamazoo, Michigan 49007

Tel: 269-343-5541

Fax: 269-343-3308

e-mail: oleary@upjohninstitute.org
eberts@upjohninstitute.org

May 2004

JEL Classification Codes: J65, J68, H43

Abstract

The proposed Back to Work Incentive Act of 2003 recommended personal reemployment accounts (PRAs) that would provide each eligible unemployment insurance (UI) claimant with a special account of up to \$3,000 to finance reemployment activities. Account funds could be used to purchase intensive, supportive, and job training services. Any funds remaining in the PRA could be paid as a cash bonus for reemployment within 13 weeks, or drawn as extended income maintenance for exhaustees of regular UI benefits. Personal reemployment account offers would be targeted to UI beneficiaries most likely to exhaust their UI entitlements using state Worker Profiling and Reemployment Services (WPRS) models. The draft legislation called for a budget of \$3.6 billion for PRAs, with the money to be committed over a two-year period. This report provides a simulation analysis of questions relevant to implementation of PRAs by states. The analysis is done using data for the state of Georgia. Simulations rely on recent patterns of intensive, supportive, and training services use. Simulations for alternative rules setting the PRA amount and varying behavioral responses are examined. Like the legislative proposal, simulated PRA offers are targeted using WPRS models. The key question examined is, how many PRA offers can a state make given a fixed budget? Proposed and alternative rules for substate budget allocation are also examined. The framework presented in this paper allows the exploration of several behavioral responses to incentives created by the PRA.

EXECUTIVE SUMMARY

Proposed legislation called the Back to Work Incentive Act of 2003 introduced a new model for customer choice among publicly funded reemployment services. The Bush administration recommended a two-year federal budget of \$3.6 billion to provide each eligible unemployment insurance (UI) claimant a personal reemployment account (PRA) of up to \$3,000. Personal reemployment account funds could be used for three things: 1) to purchase reemployment services, 2) as a reemployment bonus, and 3) as extended income maintenance for exhaustees of regular UI benefits. Personal reemployment account offers would be targeted to UI beneficiaries most likely to exhaust their UI entitlements using state Worker Profiling and Reemployment Services (WPRS) models.

If PRAs are enacted, core services at one-stop career centers would remain free to all customers, but PRA recipients wishing to use intensive, supportive, and job training services would be required to use account funds to purchase them from a qualified public or private vendor. Additionally, PRA recipients who return to work within 13 weeks of their UI claim date may receive the unused balance in the PRA as a cash reemployment bonus. Sixty percent of the balance would be paid upon reemployment with the remainder payable after six months steady employment. Those failing to gain reemployment and exhausting regular UI entitlement could draw support payments from their PRAs at the rate of their weekly benefit amounts (WBAs).

The PRA proposal combines several employment initiatives in an innovative way, but legislation authorizing PRAs has not yet been enacted. However, the proposal remains active and has the president's continued support. The W.E. Upjohn Institute has investigated aspects of how the proposed PRAs would work under a grant from the U.S. Department of Labor. The Institute

conducted PRA simulation analyses using a unique data set for the state of Georgia linking UI claims and employment services records. To be forward looking, our simulations used the new WPRS model now being implemented in Georgia.

PRA Budgets and Service Prices

The proposed \$3.6 billion for PRA enrollments over two years requires that funds be distributed to states in proportion to their share of national unemployment. Based on 2002 unemployment figures, Georgia's share would be 2.37 percent, or \$85.32 million. The proposal also requires that PRA funds be allocated within states in proportion to regional shares of state unemployment. Given that offers are to be targeted using WPRS scores to those most likely to exhaust their benefit entitlements, nearly all offers would be made to UI claimants in the top 30 percent of the state WPRS distribution of claimant scores. Consequently, we focus our simulations on that group of claimants.

Since the simulation analysis required monetary values for services, hypothetical prices were set based on statewide service expenditures, service usage rates, and relative valuations for services. Based on our sample for analysis, Table E.1 summarizes imputed prices for services as well as usage rates during the two PRA relevant time periods: the first 13 weeks and the remaining 39 weeks in the UI benefit year. In addition to supportive and training services, Georgia one-stop centers offer five types of intensive services. The most popular intensive services among those potentially eligible for a PRA are customer service plan and counseling. The table shows that among those profiled, 18.9 and 20.3 percent of claimants used these services, respectively, during the first 13 weeks. The table further shows that the bulk of service use occurs in that earlier time frame. Relatively small

proportions of UI claimants use either supportive or training services, which are imputed to be most costly.

PRA Simulations

Our simulations focus on estimating the average expected cost per \$3,000 PRA offer, and the number of offers possible over two years given the budget. Estimates of these magnitudes are critical for states planning for PRA enrollment over a two-year cycle. The simulations also provide evidence on the pattern of service use, bonus receipt, and income maintenance payments likely to result under PRAs.

To span the range of possible responses to PRA offers, our simulations include a baseline of no change in behavior regarding service use and UI benefit receipt, as well as impacts shortening UI duration by 1 and 2 weeks. These alternatives encompass the range of responses observed in the UI reemployment bonus experiments (Robins and Spiegelman 2001). The simulation grants a first bonus payment for UI duration of less than 13 weeks, and a second bonus payment when there are also positive earnings in the first and third quarters following the claim and at least \$2,000 in earnings the second quarter. Under the proposal, a second bonus is not paid if reemployment services are purchased after a first bonus payment. Table E.2 shows that for the baseline simulation, 26.7 percent of the sample could be paid both bonuses—provided funds remained in the PRA after purchase of services—while a total of 40.2 percent of those potentially offered a bonus appear to qualify for a first bonus payment. Since they did not gain employment during the first 13 weeks, 58.8 percent of the sample would not qualify for either bonus but could use PRA funds for services or income support payments after benefit exhaustion.

If every UI claimant offered a PRA accepted, and every recipient spent the entire \$3,000 grant, then 28,440 offers could be made over two years with the Georgia budget of \$85.32 million. However, it is unlikely that all account recipients will spend their entire grants. Table E.3 summarizes the average cost per offer given the prices and usage pattern for services observed in Georgia. Since there is uncertainty about what elements of PRAs may emerge from current deliberations or future proposals, the table presents results for three combinations: 1) bonus, purchase of services, and exhaustee payments; 2) bonus and purchase of services; and 3) bonus only with free services.

The Average Cost of PRA Offers

The top row of Table E.3 reports that offers with all three elements would cost an average of \$2,475 in the absence of any behavioral response. If durations for those offered PRAs are 1 week shorter, the average cost per offer rises by \$40; if the response is 2 weeks the cost rises by \$76 per offer from the baseline. The increased cost results from more beneficiaries becoming employed soon enough to qualify for bonus payments. The average cost increases resulting from responses to the PRA offer are modest.

If the extended jobless benefits feature of PRAs is eliminated, the average baseline cost of a \$3,000 account drops more than \$1,000 to \$1,452. Accounting for 1- and 2-week behavioral responses increases the average cost by \$39 and \$76, respectively.

The bottom row of Table E.3 shows costs associated with simplified PRAs involving only a targeted reemployment bonus. Simulations for Georgia indicate the baseline \$3,000 bonus offer would cost \$1,040 in payments, and if insured durations declined by 1 or 2 weeks the costs would

rise by \$46 and \$91, respectively. Previous analysis of targeted reemployment bonuses suggested that cash offers as large as \$3,000 would not be cost effective, but smaller offers could be cost effective while still encouraging quicker return to work (O’Leary, Decker, and Wandner forthcoming).

The Number of PRA Offers Possible

Table E.4 translates the PRA average cost figures into estimates of the number of offers that could be made assuming 100 percent acceptance of PRA offers. An 80 percent acceptance rate was observed in the Illinois bonus experiment, which required a formal acceptance of the offer (Woodbury and Spiegelman 1987). Assuming that acceptance is not correlated with factors systematically influencing the rate of spending from PRAs, enrollment estimates could be adjusted by a factor equal to the reciprocal of the take-up rate. Our simulations indicate that the baseline PRA with all three elements could be offered to 34,473 Georgia UI claimants over two years. That is about 17,000 per year, or about 6.3 percent of Georgia UI claimants based on 2001 data. The PRA proposal targets WPRS profiled claimants most likely to exhaust benefits who are initially eligible for at least 20 weeks of benefits, and 17,000 offers constitute about 13 percent of this target group in Georgia. Even with a 1- or 2-week behavioral response, the Georgia budget would permit nearly 17,000 offers per year.

If the PRA included only the bonus and purchase of services, not the extended benefits feature, more than 31,000 offers per year could be made with the Georgia budget regardless of the behavioral response. For offers that were simply \$3,000 targeted bonuses, more than 43,000 offers per year could be made with the PRA grant to Georgia.

Additional Program Design Considerations

Our simulation results are very robust relative to the assumed service prices. Cutting service prices in half would increase the number of offers possible by only about 20 percent. However, there is uncertainty about how charging for services would affect the pattern of services chosen.

Under what conditions would a PRA recipient either purchase services or take their chances and pursue bonus payments? To investigate this question, we identified the reemployment outcomes that would make a participant financially indifferent toward the following two extremes: 1) purchasing no services with the hope of receiving the full PRA amount in bonus payments, or 2) spending the entire PRA amount to purchase services with the hope of speeding up reemployment or receiving a higher reemployment wage. To spend the entire budget on services, the UI beneficiary must expect either earnings to be nearly 14 percent higher or that employment will occur at least 6 weeks sooner. Research on employment and earnings effects of employment services and job training suggests effects are more modest (Leigh 1995). PRA recipients might therefore reduce use of services in hopes of receiving larger reemployment bonuses.

We also checked to see if \$3,000 would be sufficient to purchase the bundles of services chosen given the assumed prices. If no PRA money was spent on bonuses and all on services, about one-half of 1 percent of the UI claimants in our Georgia sample would have a budget shortfall. Among these claimants the mean budget shortfall was \$551 in the first 13 weeks and \$637 during the remainder of the UI benefit year.

The PRA proposal requires that the amount of the PRA be uniform throughout the state and not exceed \$3,000. Since the UI reemployment experiments set bonus offers as multiples of the WBA we simulated setting PRAs as 10 times the WBA, with a minimum of \$1,500. The maximum

WBA in Georgia is \$300. This design would permit about 15 percent more bonus offers, and it also may moderate the incentive for some claimants to accept low-paying jobs simply to qualify for the first bonus paid upon reemployment.

The UI reemployment experiments paid bonuses only after at least 16 weeks of continuous reemployment. In these experiments, the reemployment earnings of those offered bonuses were at least as high as the control groups. The timing of bonus payments under the proposed PRAs might yield a different impact on wages.

The proposed formula for PRA budget allocations to states and local service delivery regions within states is determined by the estimated share of unemployment. This formula will yield a disproportionate share of PRA dollars to qualified UI claimants in states with relatively exclusionary UI eligibility conditions. The total unemployment rate exceeds the insured unemployment rate by a greater margin in such areas. Since PRAs are only offered to UI claimants, the allocation could more equitably be based on the state and local share of insured unemployment. Changing the allocation rule to be based on insured unemployment would not penalize states that have higher rates.

Summary

Economists have long touted the merits of incentives, pricing, and targeting in social programs, particularly reemployment programs. These features have been tried in demonstration programs and some are now used in Individual Training Accounts and the WPRS system. However, all three features previously have not been combined in the same program. Simulations suggest that successful implementation of such a program requires an understanding of the possible responses

by participants. Simulations also point to the range of behavioral responses necessary for PRAs to function well. While findings from past studies indicate that measured responses to reemployment bonuses and expected wage gains from services fall short of what is necessary for participants to choose services over the bonus, final assessment of PRAs awaits implementation or demonstration of the program.

Table E.1 Estimated Services Usage Rates and Prices for Intensive, Supportive, and Training Services among WPRS Profiled UI Claimants in Georgia, Program Year 2001

| Services | Up to 13 weeks (%) | After 13 weeks (%) | Hypothetical prices (\$) |
|-----------------------|-----------------------|-----------------------|-----------------------------|
| Intensive services | | | |
| Service coordination | 0.5 | 0.2 | 356 |
| Customer service plan | 18.9 | 4.6 | 356 |
| In-Depth assessment | 0.1 | 0.0 | 712 |
| Counseling | 20.3 | 5.1 | 712 |
| Expanded workshop | 0.4 | 0.3 | 712 |
| Supportive services | 1.7 | 0.6 | 1,068 |
| Training services | 2.7 | 1.8 | 1,424 |

Table E.2 Sample Percentages by Employment Status in PRA Time Periods among Recipients Profiled to be Most Likely to Exhaust UI Benefits

| Employed in first 13 weeks | Employed after 13 weeks | |
|-------------------------------|-------------------------|------|
| | Yes | No |
| Yes | 26.7 | 13.5 |
| No | 9.9 | 49.9 |

Table E.3 Average Cost per PRA Offer for Alternative Combinations of Features (\$)

| PRA scenario | Baseline | 1-week impact | 2-week impact |
|---|----------|---------------|---------------|
| Bonus, purchase services, and UI exhaustee payments | 2,475 | 2,515 | 2,551 |
| Bonus and purchase services | 1,452 | 1,491 | 1,528 |
| Bonus only with free services | 1,040 | 1,086 | 1,131 |

Table E.4 Number of PRA Offers Possible in Georgia over Two Years for Alternative Combinations of Features Assuming All Offers Are Accepted

| PRA scenario | Baseline | 1-week impact | 2-week impact |
|---|----------|---------------|---------------|
| Bonus, purchase services, and UI exhaustee payments | 34,473 | 33,924 | 33,446 |
| Bonus and purchase services | 65,149 | 63,538 | 62,111 |
| Bonus only with free services | 93,403 | 89,473 | 85,929 |

1. Introduction

In January 2003, Congress introduced draft legislation for the Back to Work Incentive Act of 2003 that proposed a new way to help dislocated workers become reemployed.¹ Under this approach, each eligible unemployment insurance (UI) claimant would be offered a personal reemployment account (PRA) of up to \$3,000. Funds in the PRA could be used for three things: 1) to purchase reemployment services, 2) as a reemployment bonus, and 3) as continued income support after exhaustion of the regular UI entitlement. PRA offers were to be targeted to claimants most likely to exhaust UI by state Worker Profiling and Reemployment Services (WPRS) models.

The draft legislation proposed a budget of \$3.6 billion, with the money to be committed over a two-year period and all disbursements from PRAs completed within three years from the start date. Funds were to be allocated among states according to each state's share of national unemployment. By this rule the Georgia budget allocation would be \$85.3 million. The proposal also requires within-state allocations to be based on the same criterion. Since PRA offers must be targeted using WPRS profiling scores, this raises particular challenges for states planning for implementation.

The Back to Work Incentive Act did not become law, but the provisions for PRAs were added to the proposal for reauthorization of the Workforce Investment Act (WIA). "Due to uncertainty relating to the outcome of House-Senate negotiations on the FY 2004 Budget Resolution," in March 2003 PRAs were removed from WIA reauthorization legislation known as the Workforce Reinvestment and Adult Education Act of 2003.² Nonetheless, the administration continues to advocate the creation of PRAs.³ So states must be prepared to act quickly.

¹<http://thomas.loc.gov/cgi-bin/query/z?c108:h.r.444>: (accessed November 24, 2004).

²<http://edworkforce.house.gov/press/press108/03mar/wiipc032703.htm> (accessed October 12, 2003).

³<http://www.whitehouse.gov/news/releases/2003/06/20030617-3.html> (accessed October 12, 2003).

Effective implementation of PRAs requires advance planning, monitoring of the use of funds by early PRA enrollees, and adjustment of state PRA plans during the course of enrollment. Critical participant response parameters include rates of PRA offer acceptance, intensive and training service use rates, the rate of qualification for first bonus payments, and the rate of qualification for second bonus payment. Cost data for intensive and training services are also required for planning and implementation of PRAs.

This paper examines issues relating to PRA implementation based on simulations performed using administrative data provided by the state of Georgia. The W.E. Upjohn Institute for Employment Research investigated these questions under a grant from the U.S. Department of Labor. The data from Georgia constitute a rare sample linking UI claims and employment services records. To be forward looking, our simulations used the new WPRS model now being implemented in Georgia.

The next section provides an overview of how PRAs would work as proposed by HR 444 in January, 2003. Section 3 lays the foundation for simulation analysis of PRAs by examining the pattern of service use in our sample for analysis. Section 4 estimates prices for intensive, supportive, and training services as a basis for simulation. Section 5 gives a conceptual framework for PRA simulations by providing a theoretical model of choice under PRAs. Section 6 partitions the PRA eligible UI claimants into groups based on their pattern of UI benefit receipt and service usage. Section 7 presents statewide PRA simulation results. Section 8 presents a stark example of the choice between buying services and receiving bonus payments under the PRA. Section 9 examines substate budget allocation alternatives. The final section presents a summary and suggests some extensions for the simulation analysis.

2. PRAs Under HR 444

The proposed PRA combines several innovative features. Each has been tried separately before, but no previous program or demonstration project has brought them all together in quite the same way. The first novel component of the PRA is the requirement that participants directly pay for intensive and training services. Employment services provided by one-stop career centers under the Workforce Investment Act (WIA) are divided into three levels: core, intensive, and training. Services within each level are characterized by the amount of staff involvement and the extent to which customers can access the service independently. Core services typically have the broadest access and the least staff involvement of the three categories. Many core services are accessible on a self-serve basis.

Intensive services require a greater level of staff involvement and, consequently, access is more limited than for core services. Services within the intensive category include individual and group counseling, case management, aptitude and skill proficiency testing, job finding clubs, creation of a job search plan, and career planning. Training services, the third and highest level of service intensity, are usually available to customers only through referrals.

Core services are free for everyone, intensive and training services are free to the general public, but PRA recipients would be required to pay for such services. Service providers would determine the fees to charge. PRA recipients would choose whether or not to purchase such services and whether to purchase the services from public or private providers. Therefore, service providers are faced with determining prices and with understanding how those prices may affect the demand for their services. Some evidence about customer behavior in such an environment is being provided by the individual training account evaluation (Decker and Perez-Johnson forthcoming).

The second component is the bonus payment. Under the PRA, UI claimants would be given lump-sum payments from their accounts if they return to work within a specified time period. The purpose of the bonus is to provide an incentive for dislocated workers to return to work as quickly as possible. A bonus incentive system has been incorporated in several demonstration projects sponsored by the U.S. Department of Labor, but it has never been put in practice on a statewide or programwide basis. Based upon evaluations of these demonstration projects, we expect that a bonus, if of sufficient size relative to a claimant's weekly benefit amount (WBA), will shorten the average duration of UI compensated unemployment by as much as a week (Robins and Spiegelman 2001).

PRA account recipients who become reemployed within 13 weeks of their UI claim date would be paid 60 percent of their PRA account balance upon reemployment. The remaining 40 percent would be paid six months later if employment is maintained and no additional services are purchased.

The third possible use of PRA funds permits UI benefit year recipients who exhaust their regular benefit entitlements to draw funds from their PRAs at the rate of their WBA. This PRA feature would act like an extended UI benefits program, and as does the availability of those programs, it introduces the risk of prolonging unemployment durations (Woodbury and Rubin 1997).

The PRA proposal requires that offers be targeted to UI claimants who are most likely to exhaust their regular UI benefits, and that WPRS models be used to target offers (O'Leary, Decker, and Wandner forthcoming). The WPRS system evaluates the exhaustion likelihood of UI claimants who are neither union hiring hall members, nor on employer standby awaiting recall to their previous job on a definite date. Such claimants are not expected to conduct an independent job search while receiving benefits. PRAs would be offered to claimants with a high profiling score, and

who are eligible for at least 20 weeks of UI benefits. Given that offers are to be targeted using WPRS scores to those most likely to exhaust their benefit entitlement, nearly all offers would be made to UI claimants in the top 30 percent of the state WPRS distribution of claimant scores. Consequently, we focus our simulation analysis on that group of claimants.

3. The Sample and Services Chosen

The data used to simulate implementation of PRAs in Georgia were originally provided for work on the Frontline Decision Support System (FDSS) (Eberts and O’Leary 2002). The data record participation in intensive, supportive, and training services were provided by Georgia Career Centers. Claimant information includes UI benefit entitlement, WBA, total benefit payments, limited demographic information, and quarterly UI wage records. The wage record data provides a way to examine the employment history of each UI beneficiary.

Complete benefit year data were drawn on all observations entering the system for UI claims during the period January 1, 1996, through September 30, 2001. As summarized in Table 1, these data included 851,054 observations. To focus on UI claims activity and service use since the start of WIA implementation and one-stop career center operations, we restricted our UI claim inflow period to the five quarters available after July 1, 2000. This yielded a sample size of 318,837.

Since PRA offers are to be made to claimants near the top end of the distribution of WPRS profiling scores, we restricted our analysis to the 232,617 claimants assigned a profiling score in Georgia during our inflow period. This implicitly excludes those with a definite recall date and members of union hiring halls; members of these groups are not expected to conduct an independent job search to maintain UI benefit eligibility. An additional PRA eligibility condition is that claimants

must be initially eligible for at least 20 weeks of benefits. Imposing this condition reduces the sample size to 156,220. A handful of other observations were excluded to assure complete data on all variables needed for analysis. A sample of 156,181 observations was used in this analysis.

For our analysis sample of 156,181 the pattern of service use is summarized in Table 2, which shows the use of intensive, supportive, and training services that would be paid for out of the PRA.⁴ The number of participants and the participation rate are split into two time periods: the first 13 weeks of claims, and the weeks in the benefit year remaining after 13 weeks. The most popular services in both periods are customer service plan and counseling, with 18.86 percent, respectively, and 20.31 percent of profiled claimants using these services in the first period and 4.6 and 5.1 percent, respectively in the second period.

Table 3 expands on Table 2 by adding additional rows at the bottom showing the use of core services that are free to all customers regardless of whether or not they are granted a PRA. Among the core services, in the first 13 weeks specific labor market information (LMI) is the most popular, with 72.54 percent using this service. Other popular core services for this group are job order search (54.18%) and service needs evaluation (41.61%). Near the bottom of Table 3, the service with variable name C20 described as REU/Profiled had 30.21 percent of profiled claimants participating in the first 13 weeks. This is the WPRS referral indicator showing a claimant was sent to the reemployment unit (REU) for profiling reemployment services. Of those referred to WPRS, about

⁴Our count of training service participants is the sum of referrals to training and formal WIA training registrations, correcting for any double counting. The widespread use of Hope grants and scholarships in Georgia funded by the state lottery probably results in lower observed training participation rates for Georgia than are typical in other states. However, Georgia has significant levels of training, and the Hope money permits WIA funds to be used more aggressively for supportive and intensive services.

25 percent were excused after reporting.⁵ Georgia has a state-based program similar to WPRS, called the Claimant Assistance Program (CAP). CAP is the Georgia UI eligibility review program (ERP), which requires periodic visits to a Georgia Career Center for services by those who continuously remain on a UI benefit claim. More than 37 percent of claimants in our analysis sample were referred to the REU because of selection through either WPRS, CAP, or both programs.

Table 4 presents service use data in the first 13 weeks and remainder of the benefit year for the top 30 percent of the WPRS distribution. This is the strata of claimants most likely to be offered a PRA. Use of the intensive services Customer Service Plan and Counseling are higher for this targeted group, with 31.7 and 33.3 percent of profiled claimants using these services in the first period and 7.8 and 8.4 percent, respectively, in the second period. The core services information shows that 69.84 percent of these claimants near the top of the predicted exhaustion distribution were sent to the REU. Referral to services by the WPRS mechanism probably explains the higher use rate of intensive services. It is this targeted sample on which we conducted simulation analysis of PRAs.

4. Prices for Services

Under the proposed PRA legislation, states must charge those UI beneficiaries who accept a PRA offer for receiving intensive, supportive, and training services. States must also deduct the cost of services used from the individual's PRA balance before any cash bonus is determined. Therefore, states must set prices for services. Information on service costs, which could be used as

⁵Claimants referred to WPRS reemployment services can be excused if they have a definite date to report to work. They may also be excused because of illness, injury, or to care for dependent children, however in these cases UI benefit entitlement is suspended because of failure to satisfy the "able and available" continuing UI eligibility requirements.

a basis for service prices, is not readily available. The only commonly published WIA service cost data are total expenditures by state. These state reports are part of the WIA performance measurement system, and they include data on the number of WIA participants in the program year. Average costs per participant can therefore be computed for services overall. However, the average cost of the separate categories of intensive, supportive, and training services is not available.

The simulations presented in this report are based on Georgia UI claimants entering the system between July 1, 2000, and September 30, 2001. This is the first five quarters of WIA program operation. We therefore use WIA cost data for the 2001 program year (PY) as the basic data for service cost prices. In that year, WIA program expenditures in Georgia were \$56.4 million, and average per participant costs were \$3,140.⁶ These participants included adults, youth, and dislocated workers enrolled in WIA programs delivering training, intensive, and core services.

To perform PRA simulations we need estimates of average costs for separate intensive, supportive, and training services. We therefore decompose the WIA grant by the proportions of customers using each type of service statewide in our sample of UI claimants.⁷ Our computations are based only on claimants who would be eligible for a PRA under the rules of the original HR 444 proposal. That is, those with a profiling score (meaning they were neither union hiring hall members, nor waiting employer recall) and having 20 or more weeks of UI entitlement. Additionally, we required that complete UI wage records be available.

The computations leading to our service prices are summarized in Table 5, which also reports the use of intensive, supportive, and training services by the 156,181 UI claimants in the sample.

⁶http://www.doleta.gov/usworkforce/performance/State_1-Page_AR_Summaries/georgia.xls (accessed September 25, 2003).

⁷Many of the core and intensive services provided to UI claimants are financed by Wagner-Peyser grants to the state Employment Service. Our approach is simply to use the shares of participants in intensive, supportive, and training services to decompose the WIA grant.

Georgia provides five types of intensive services: 1) service coordination, 2) customer service plan, 3) in-depth assessment, 4) counseling, and 5) expanded workshop. There are supportive services as well. A total of 89,257 services were recorded for the claimants examined.⁸ The most popular intensive services are customer service plan and counseling, with observed participation rates during the first 13 weeks of claim being of 18.9 and 20.3 percent, respectively. A total of 7,024 training services were received in the UI benefit year by claimants in our sample. For both intensive and training services, the bulk of service inflows takes place during the first 13 weeks of the UI claim, while for supportive services the majority is provided after 13 weeks into the claim.

In the absence of hard data on service costs, based on informal discussions with one-stop center staff in Georgia, we impose relative prices on the intensive and supportive services. Two intensive services—service coordination and customer service plan—are assumed to have the lowest cost, and they are assigned a single unit value, a type of numéraire for employment services. Twice the unit value is assigned to the other three intensive services: in-depth assessment, counseling, and expanded workshop. Supportive services per recipient are assumed to cost three times the unit value. Finally, training services are priced at four times the unit value.

To arrive at our cost estimates, we split the total WIA budget among services based on the number of participants and the relative value in comparison to the numéraire. There were 37,648 services with a unit value, 40,962 with twice the unit value, 3,623 with three times the unit value, and 7,024 with four times the unit value. The resulting unit price for lower cost intensive services is therefore \$356 per participant, the higher cost intensive services average twice that or \$712 per participant. By this approach supportive services are estimated to cost \$1,068 on average per

⁸Based on advice from Georgia Department of Labor field Career Center staff, we count participation in a service only once during the first 13 weeks of a claim, even if the data indicate multiple occurrences of the same code in the time period. The same rule is applied for counting service participation after the first 13 weeks.

participant. The remaining budget is evenly divided among the 7,024 training participants to arrive at an average cost of \$1,424 per participant. These average service cost prices are consistent with the average service cost per participant of \$3,140, since many service participants use more than one service.

5. A Choice Model for PRA Simulations

To design PRA simulations that are relevant for state administrators, it is useful to frame the context of claimant choice by a decision model incorporating the variables governing choices resulting in withdrawals from PRAs—employment and services use. We consider a simple two-period model. The first period includes the first 13 weeks of a claimant’s benefit year. We proxy this by the first 13 UI payments to a PRA participant. This period is the time frame within which a PRA participant must find a job to qualify for a reemployment bonus payment. During this period, the participant can engage in one or more of several activities. He or she can look for a job, find a job (and thus be eligible for the bonus), receive core services, and purchase intensive, supportive, and training services. The second period is the time span a person must remain employed (given that they found a job in the first period) in order to collect the second part of the reemployment bonus. During this period, a PRA participant can receive core services, purchase intensive, supportive, and training services, continue with employment, find new or alternate employment, and exhaust benefits.

The choice to purchase services or engage in the other activities depends upon the expected returns from those decisions. Therefore, we need to delineate the costs and benefits of each decision. Costs include the out-of-pocket costs of purchasing intensive or supportive services (c_s) and training

services (cT), as well as the opportunity cost of spending time receiving services and engaging in search efforts (cz). Benefits include the earnings received from working (w), the bonus payments (b), and the UI benefits received (x). The future expected net benefits depend upon the choice of services and the probability of finding employment.

Therefore, a person in period one who accepts a PRA offer faces several combinations of costs and benefits. For simplicity, we assume that the benefits from actions in a period accrue in the same period. For example, if a person is employed in the first period the wages and the bonus are received during that period. Similarly, the costs accrue in the period in which the actions take place. Note that the wage may differ depending upon whether or not a person receives training. In addition to increasing the likelihood of receiving a job offer, training may increase the reemployment wage and increase the retention rate.

From Figure 1, it is clear that a person's decision to purchase services is complex and is based on their own choices and the ability to find a job, which depends in part on the local economic conditions. For example, the benefits accrued in the first period for those employed and choose to purchase services depend upon several decisions. Since the bonus depends upon the amount of the account left over after purchasing services ($b_1 - cs - cT$), the first decision is how much of their PRA account will they use to purchase intensive and training services? This decision, in turn, depends upon the participant's perception of how much these services will increase his or her probability of finding and retaining a job. The probability of finding a job and the time it takes to become reemployed and start to receive earnings will determine the amount of benefits (wages, bonus, and UI benefits) the participants will receive that first period. Changing the cost of services and the perception of the effectiveness of services may change the choices that PRA participants make.

6. PRA Participant Groups

UI claimants who accept a PRA will be faced with decisions to purchase services based on the prices set and their employment prospects. Since we are not able to simulate what services would be bought if customers were charged for them, we examine the pattern of service use observed under the current WIA program, and assume as a first approximation that it would not change. In addition, we delineate the service usage by different employment outcomes. This pattern mimics, to the extent possible, the choices of services that UI claimants might make under different employment situations. In reality, the patterns observed in the data are the result of both choices by UI claimants and the referrals to services by program staff.

Two time periods are relevant for decisions about spending on services from a PRA. The first time period is based on the length of time within which an eligible UI claimant must find employment in order to qualify for the first part of the cash bonus. Consequently, period one is the first 13 weeks after a claim. The second period is based on the length of time the UI claimant must maintain a job in order to qualify for the second bonus payment—26 weeks. In each of these two periods a claimant may either be employed or not, and may either use services or not. Figure 2 summarizes the four alternative possible employment states, and Figure 3 shows the 16 possible employment and service use states in the two time periods.

The rows Figure 2 represent the employment status in period one and the columns show the status in period two. We denote employment status (E) by a 1 for employment and 0 for nonemployment. Accounting for employment status in the two periods, we use the first numeral to indicate employment status in period one and the second numeral to indicate employment status in period two. For example, E10 represents the group of UI claimants employed in the first 13 weeks,

but not employed after 13 weeks. The numbers in parentheses are the proportion of sample in each employment group. The first number is the share in the full sample, and the second number is the share in the top 30 percent of the WPRS distribution. Introducing a PRA would be most likely to move UI claimants from either E10 or E01 to E11. There could also be movement from the largest cell, E00 to either E10 or perhaps E11. Our simulations inducing quicker return to work investigate the cost impacts of such movements.

To create the employed and not-employed groups in the two periods, we set clear definitions for these concepts based on available administrative data. Our definitions are set to approximate qualification for the first and second bonus payments from a PRA. A claimant is classified as employed in the first period if full-time equivalent weeks of UI benefits drawn is less than or equal to 13.⁹ That is, if total UI compensation paid in the benefit year divided by the weekly benefit amount (WBA) is less than or equal to 13. We adopted this definition since week-by-week UI compensation data were not available to us.

The definition of employment in the second period is based on quarterly wage records. For the second bonus to be paid, a claimant must remain employed at least six months. We examine the three quarters of wage records following the quarter in which the benefit year begin (BYB) date occurred. A client is considered employed in the second period if any wages are present in the first and third quarters following the quarter in which the BYB occurs, and if wages total \$2,000 or more in the second quarter following the BYB. Since a quarter is 13 weeks long, there must be some employment in the first full quarter after the quarter of filing for UI benefits if there is reemployment within 13 weeks and it is maintained for six months. However, it is not necessary to require

⁹Only a small fraction of UI claimants actually have more than one spell of joblessness in a benefit year.

employment for that full quarter, so we require only \$1 in earnings to appear in the wage record for that quarter. We require at least \$2,000 in earnings during the second quarter, since this approximates the minimum wage for 13 weeks at 30 hours per week. Finally, six months continuous employment may be achieved without being employed throughout the third quarter after claiming benefits, so we require only \$1 in earnings during that quarter.

In our simulations, the first bonus will be paid if there is employment in period one by the above definition, provided a PRA has not been exhausted by spending on employment services. However, a second bonus will be paid only if there is employment in both periods. That is, provided money remains in the PRA, a second bonus payment results for those in group E11, but not for those in group E01.

Figure 3 provides a representation of the possibilities for service use in the two time periods of the benefit year. Using notation like that for employment, S11 denotes the group purchasing services in both time periods. S10 represents the group of claimants who purchase services in the first period, but not in the second period. When simulating expenditures from PRAs, it is important to note that receipt of services in the second period disqualifies a claimant from being paid a second bonus.

For each of the four employment groups, E11, E10, E01, and E00, there are four possible service purchase groups. Figure 3 adds the service purchase groups to the employment outcome groups to yield the 16 employment and service groups that are the basis of our simulations. Table 6 presents information about the relative size of each of these 16 groups of profiled UI claimants. The table also provides mean values for each group on important UI program and demographic characteristics. Among the employment groups, about one third are employed in both periods by our

definitions, another third are not employed in either period, and the remaining third are employed in one but not both time periods.

For each of the four major employment groups, Table 6 orders the service receipt groups by the likelihood of bonus payment. That is, bonuses would more likely be paid to those in groups S00 and S10, while those in groups S01 and S11 could be paid a first bonus but not a second bonus. Within each of the four major employment groups, the largest service group is S00—no services used in either period.

In terms of average full time equivalent (FTE) weeks of UI benefits paid in the benefit year, the shortest mean durations are for the employment groups with employment in the first period. Groups E11 and E10 have mean durations of 3.8 and 2.5 weeks respectively. The mean durations of UI receipt for E01 and E00 are 19.3 and 22.9 weeks, respectively.

The entitled duration of UI benefits and the mean weekly benefit amount (WBA) are similar across the employment groups. This is true both for the actual WBA data and assuming the new 2003 maximum WBA in Georgia of \$300 per week.

Workers under age 25 constitute 8.8 percent of our analysis sample. The most common reemployment pattern for these younger workers was to gain reemployment in period one, but not to hold it in period two. For those in the 25 to 45 age group, the most common pattern was employment in both periods. Among workers over age 45, the most common pattern was to be out of work in both periods. The greatest latitude for reemployment response to PRAs may be among younger and older workers.

To group claimants by income, we examined quarterly earnings reported in wage records during the first four of the five quarters preceding the benefit claim, which is known as the “base

period” for UI. From these quarterly wages we selected the highest value as a proxy for earnings in a quarter of full working hours. We then ranked these and identified claimants in the bottom quarter of the distribution as the low-income group. The largest share of low-income claimants were those who found employment in the first period but not in the second. This may have resulted partly from our definition of second period employment that requires at least \$2,000 earnings in the second quarter after claim. However, those not employed in either period had a dramatically lower share in the low-income group.

Table 7 presents a summary of characteristics for the 16 employment and service groups in the top 30 percent of the WPRS distribution. As expected for this targeted group, in the absence of a behavioral response, smaller proportions of the sample would qualify for either a first or second bonus. The average duration of entitled weeks of UI is distributed like the whole sample, but the average number of UI weeks of compensation is uniformly higher. Mean WBAs are somewhat higher, and the sample includes a significantly higher proportion of older workers. The age and earnings results are consistent with the goals of WPRS targeting, which aims to serve dislocated workers.

7. Statewide Simulation Results

The simulations involve applying the prices for services to the patterns of service use by individuals in the 16 employment/service groups defined in the Georgia sample. Since the simulations are based on individual claimant observations, we simply apply the proposed PRA rules to each observation in the data. This approach is preferred to one relying on subgroup averages that could generate misleading results because of imposing PRA rules at an aggregate rather than

individual level. For example, the mean services expenditure for a particular employment/services group could indicate that mean PRA budgets are exhausted before either the second bonus payments can be made or services are purchased in period two. However, for some individuals who used fewer services than average for the group in period one, there may be sufficient funds for services or a bonus in period two.

Even with our rich Georgia data set, we cannot observe the likely response to several features of the proposed PRAs. For example, 1) the proportion of claimants who will accept a PRA offer, 2) the effect of charging for services on choices about participating in services, and 3) the effect of PRA offers on the duration of benefit receipt? We choose simple answers to each of these questions. If a state were actually to implement PRAs, these parameters would be monitored and the simulations updated for purposes of managing enrollment rates. Our approach is to compute baseline PRA enrollment estimates assuming no behavioral response to any of the incentives introduced by PRAs. We then examine the effect of relaxing these assumptions.

Regarding the acceptance rate of PRA offers, only the Illinois reemployment bonus experiment had a similar requirement. In that instance, 80 percent of those offered the chance of qualifying for a bonus payment agreed to participate in the demonstration (Woodbury and Spiegelman 1987). There were no particular claimant characteristics correlated with the decision to participate. Our assumption for the simulations is that everyone offered a PRA accepts. This assumption could be easily adjusted by rescaling our simulated enrollment rates by the reciprocal of the observed participation acceptance rate.

If the imposition of prices reduces the use of services, then our simulation will overestimate service use and perhaps underestimate the bonuses paid. Our simulations assume that the services

chosen in the absence of directly charging for them are the same services that would be chosen if UI claimants were required to pay out of PRAs for intensive, supportive, and training services. Without observing choice in an environment where services must be paid for by participants, it is impossible to make a reasonable alternative assumption. At the extreme, it is possible that given the choice between a PRA and free services, claimants would accept a PRA and the chance of a cash bonus only if they had no intention of using the PRA to buy services. To include this possibility we include simulations where there is no payment for services.

The simulation methodology is summarized in Table 8 for a PRA involving all three components: 1) a reemployment bonus, 2) purchase of services, and 3) extended income maintenance payments. Given the 16 employment/services categories defined for the two PRA decision periods in the benefit year, we set baseline simulations for targeted PRAs by calculating the mean cost of services used and bonuses paid for claimants in each group. These computations assume that PRAs were provided to the top 30 percent of the WPRS profiling distribution of Georgia UI claimants assigned a profiling score and initially eligible for at least 20 weeks of UI benefits. This simulation also assumes that every PRA offered is \$3,000. The mean spending for each of the 16 employment/service groups is the simple row sum of the bonus, costs, spending for services, and extended compensation for the two periods listed in Table 8. The simulations amount to multiplying the mean group spending by the group proportion in the full sample to yield the expected budget impact listed in the far right column of the table for each group listed by row. The mean cost per offer is the sum of these expected budget impacts for the 16 groups, or \$2,475. This result suggests that the actual budgetary cost of making a \$3,000 PRA offer more than \$500 less than that amount.

The proposed legislation would provide \$3.6 billion to fund PRA offers in states for two years. The budget is to be allocated among the states in proportion to their share of the nation's measured unemployment. Based on calendar year 2002 figures, 2.37 percent of the nation's unemployed were in Georgia, meaning the state's share of the PRA budget would be \$85.32 million (Lawrence 2003). If every claimant who was offered a \$3,000 PRA spent his or her full grant, then 28,440 offers could be made. However, under the assumptions of the simulation presented in Table 8, offers could be made to 34,473 claimants. Changing the simulation assumptions will change this result.

Table 9 summarizes a simulation wherein PRAs include bonus offers and spending on services, but there is no provision for extended UI benefits. The expected cost per \$3,000 PRA offer targeted to the top 30 percent most likely to exhaust their UI entitlement is \$1,452. This expected cost figure suggests that 58,760 offers could be made with the planned budget grant to Georgia. That would be more than 29,000 offers in each of two years, or 70 percent more offers than the number possible when the extended compensation feature is part of PRAs.

The simulation summarized in Table 10 presumes the only feature of the PRA is a targeted reemployment bonus (O'Leary, Decker, and Wandner forthcoming). Effectively, this simulation assumes that the prices for services are all zero and there is no extended compensation. The expected cost per \$3,000 targeted bonus offer is simulated as being \$1,040, so that 82,038 such offers could be made given the assumed budget for Georgia.

A complete array of simulation results is presented in Table 11. Simulations were computed on the targeted sample of the top 30 percent most likely to exhaust UI as identified by the new Georgia WPRS profiling model, assuming the PRA offers were a uniform \$3,000. For the three PRA

definitions examined in Tables 8, 9, and 10, simulation results are presented for the baseline case of no behavioral response, and assuming that the PRA offer shortens insured durations by 1 and 2 weeks. A 1-week response is at the very top end of all reemployment bonus offer impacts estimated (Robins and Spiegelman 2001). We consider the 2-week response to ensure that we span the entire range of possible responses to PRA offers. The 1- and 2-week behavioral responses are simulated by simply expanding the period one reemployment definition from 13 weeks to 14 and 15 weeks, respectively. For these simulations, counts of services purchased are also adjusted to the alternate time frames.

For the full feature PRA with all three elements, a 1-week impact raises the average cost by \$40 per offer and a 2-week impact raises the average cost by \$76. These changes translate into relatively modest reductions in the number of offers possible. This result obtains because the bonus payment costs are only a fraction of PRA spending which also includes buying services and drawing extended compensation. The 1- and 2-week response has the same effect on costs and enrollment for the two-feature PRA with a bonus and purchase of services. For the bonus-only offer, the 1-week impact raises the average cost by \$46 and the 2-week impact by \$91. Since these bonus only changes are relative to a smaller average cost per offer than the 2- or 3-feature PRA, the proportionate reduction in offers possible is greater. Nonetheless, even allowing for a sizable behavioral response, the bonus-only offer could be made to a significantly larger group given the available budget.

8. Choosing the Bonus or Services

Imputing effects of positive prices on the bundles of services chosen is a difficult task. However, we offer an example that clearly exposes the alternatives available. Our example answers

the simple question: What reemployment outcomes would make a participant indifferent between either of the two extremes: 1) purchasing no services with the hope of receiving the full PRA amount in bonus payments, or 2) spending the entire PRA amount to purchase services with the hope of speeding up reemployment or receiving a higher reemployment wage? The elements of this decision are summarized in Table 12 by weekly incomes under alternative choices. The example assumes the PRA value is \$3,000, the WBA is \$300, and weekly reemployment earnings are earnings \$800. The bottom row of Table 12 presents net present values of the bonus-only and services-only alternatives assuming an annual discount rate of 3 percent.

Choice between the alternative strategies is made at the time of the PRA offer. The bonus-only column in Table 12 assumes WBA receipt for 12 weeks, with a bonus of \$1,800 paid in week 13 together with \$800 in earnings. Steady employment is then maintained for six months and a \$1,200 bonus and \$800 in earnings accrues in week 39, yielding a net present value of \$27,825.

A PRA recipient could rationally choose to spend the entire budget on services if either earnings were expected to increase or reemployment were expected to occur sooner. Compared to the no services strategy, the third column of Table 12 shows that weekly wages would have to exceed \$911, or nearly 14 percent higher than the assumed \$800 baseline reemployment wage, if the PRA was spent on services and reemployment occurred in the 13th week. Such a large gain in earnings is unlikely to result from reemployment services or short-term job training (Leigh 1995, pp. 88–91).

If reemployment services resulted in no wage gain but did yield quicker reemployment, the fourth column of Table 12 shows that the new job must begin by the 7th week after the PRA is offered—or 6 weeks sooner—to make the PRA recipient as well off as if no services were purchased

and steady employment started in the 13th week and lasted six months. Evidence on the effectiveness of employment services and job training suggests that both improve the chances of reemployment, but neither speeds return to work by as much as 6 weeks. Job training may actually prolong somewhat the time until return to work, while reemployment services shorten unemployment durations of UI recipients by at most 2 weeks (O'Leary 2004).

Reemployment services are cost effective because they are inexpensive to deliver, not because they have large impacts. The structure of the proposed PRA, and the expected impacts of services and training on earnings and reemployment, suggest that claimants will tend to conserve PRA funds in favor of reemployment bonus payments rather than spending on services early in their UI benefit year.

9. Substate Budget Allocation Alternatives

The proposed Back to Work Incentive Act of 2003 allocated \$3.6 billion for PRA enrollments over two years with funds distributed to states in proportion to their share of national unemployment. Based on 2002 unemployment figures, the Georgia share is 2.37 percent, or \$85.32 million. The proposal also required allocation of PRA money within states by the same rule. Table 13 summarizes how money would be distributed to WIA service delivery regions (SDRs) within Georgia based on this rule and an alternate rule with shares depending on counts of UI claims. The latter rule would allocate PRA funding based on the extent to which unemployed workers qualify for UI. Such a rule would be most appropriate for the national allocation to states, since it would provide larger shares to states having UI eligibility rules accommodating the regional unemployment

situation. The current formula allocates PRA money to states based on the level of unemployment regardless of whether state UI law adequately provides for the jobless.

Based on the allocation rule in proposed legislation, Georgia SDR 3, which includes Atlanta, would receive 37.9 percent of the state PRA budget, while SDR 1 in Northern Georgia would get 8.4 percent. Under the alternate rule where the allocation depends on the share of valid initial UI claims, the SDR 3 share would fall to 34.4 percent, while the SDR 1 share would rise to 11.1 percent. As the far right column in Table 13 shows, changing the budget allocation rule would decrease the dollar funding in SDR 3 by 9.2 percent and raise the dollar funding in SDR 1 by 30.8 percent. The change in funding formula would benefit Northern Georgia, leave Coastal Georgia unchanged, and hurt Atlanta and the balance of the state.

Since PRA offers are to be made based on WPRS model predicted probability of UI benefit exhaustion, for any given budget allocation to an SDR the number of offers that can be made depend on the employment probabilities in the two periods and the pattern of service use. Service use patterns vary across regions within the state both because of custom and because the services best suited to local labor market conditions differ. To exhaust the SDR budget allocation for PRAs, the SDRs will enroll differing proportions of the top of the WPRS profiling score distribution.

Based on the new Georgia WPRS model, Table 14 shows the average actual cost of making a \$3,000 PRA offer in each of the 12 Georgia SDRs for the full sample and for offers to top groups in the WPRS score distribution. The PRA simulated includes a bonus and purchase of services, but not extended compensation. Starting with the top 15 percent, costs for five additional groups are

examined by lowering the threshold to include 5 percentage points more of the distribution in each group.¹⁰

The distribution of SDR scores around the state of Georgia is not uniform. High unemployment areas, such as central city Atlanta, tend to have more UI claimants at the top of the state distribution of WPRS scores than low unemployment areas. Consequently, a high-unemployment area would most likely exhaust a PRA budget at a higher threshold of the state WPRS distribution than an area with lower unemployment that would need to go deeper in the distribution. The figures in Table 14 show the numbers of UI claimants in top groups of the state WPRS distribution who could be offered a PRA in each SDR in a given year. Table 14 also shows how far into the statewide profiling distribution each SDR has to go to exhaust its PRA budget under the proposed and alternative budget allocation rules. Results are given for the within-state budget allocations based both on the distribution of unemployment and the distribution of valid initial UI claims. We see that in the Atlanta area, SDR 3 enrollment could be made to claimants in the top 19 percent of the statewide profiling distribution under the proposed budget allocation and claimants in the top 17 percent under the alternative allocation. The similar target groups in SDR 1 are the top 31 and 41 percent, respectively. This table makes it clear that under the proposed funding mechanism, it is impossible to set a single threshold score to be applied statewide in all SDRs.

Table 15 repeats the exercise of Table 14, except that the percentages listed are not the local SDR thresholds based on the statewide distribution of WPRS scores; instead, they are the percentages of the top of the local distribution of WPRS scores. That is, instead of showing the point in the statewide distribution where local enrollment would stop, the numbers in Table 15 indicate

¹⁰In these simulations, totaling the spending figures across SDRs does not yield exactly \$42.66 million, or half of the expected Georgia grant of \$85.32 million, because computations in each SDR are based on costs for targeted groups set by rounding to whole percentile point groups of the profiling distribution.

the share of all profiled claimants in an SDR that could be offered a PRA. The table indicates that, if all those offered a PRA accept, then between 20 and 30 percent of the top of the profiling distribution in each SDR could be offered a PRA.

In Table 15 the enrollment numbers by the unemployment method suggest that SDR 1 should enroll 2,504 per year into PRAs, or about 200 per month. If the PRA acceptance rate is lower, the figures should be rescaled by the reciprocal of the acceptance rate. For example, if 80 percent of offers are accepted, then PRAs should be offered to 125 percent of the target number. For SDR 1, instead of offering 2,500 PRAs, 3,000 offers would be made.

10. Summary and Extensions

Congress proposed PRAs in the Back to Work Incentive Act of 2003. The legislation did not succeed, but features of the PRA may resurface in future proposals. The recommended PRA would provide each eligible UI claimant with a special account of up to \$3,000 that can be used to purchase job training and intensive reemployment and supportive services. Any funds remaining in the PRA could be paid as a cash bonus for reemployment within 13 weeks. Claimants exhausting their regular UI entitlement could draw extended compensation from remaining PRA funds at the rate of their WBAs. The Back to Work bill called for a budget of \$3.6 billion for PRAs, with the money to be committed over a two-year period. The budget for PRAs was to be divided according to the state shares of total unemployment.

This paper provides a simulation analysis of questions relevant to implementation of PRAs by states. The analysis is done using data for the state of Georgia. The simulations rely on recent patterns of intensive, supportive, and training services use. Simulations for alternative rules setting

the PRA amount and varying behavioral responses are examined. Like the legislative proposal, simulated PRA offers are targeted using WPRS models.

Our baseline simulations presume that the pattern of using reemployment services observed in one-stop centers under WIA would continue if PRAs were introduced. These simulations start by asking the question, what would the average PRA offer of \$3,000 actually cost the system under the current pattern of service use and UI benefit receipt observed? The key question examined is how many PRA offers could be made with a fixed budget? Under the proposed legislation, the PRA grant to Georgia would be \$85.32 million. If every PRA recipient spent the entire \$3,000 grant, then 28,440 offers could be made over two years, or 14,220 offers per year. However, our simulations suggest that many more PRAs could be offered in Georgia given this budget.

If there is no behavioral response to the \$3,000 PRA offered to the top 30 percent of those most likely to exhaust UI, our simulation suggests that offers could be made to 34,473 claimants over two years, or 17,236 per year. This number is 20 percent more than the number offered assuming all PRA recipients exhaust their budget. Even assuming that PRA offers induced UI spells that were one or two weeks shorter than usual, the targeted simulations suggest that at least 33,446 PRAs of \$3,000 each could be made over two years in Georgia given the projected budget. A prudent approach to PRA enrollment would be to enroll about 16,000 the first year and monitor the rate of using the PRA budget and then to adjust enrollment in the second year.

Since PRAs involve paying for intensive, supportive, and training services our simulations made assumptions about the prices for these services. We set prices based on total WIA expenditures in 2001 and observed service participation rates. There is uncertainty about what the actual prices would be for services if PRAs were implemented, so we conducted price sensitivity analysis of our

simulation results. We found that doubling the price of services reduced the number of offers possible by about 20 percent. Similarly, halving service prices increased the number of offers possible by about 20 percent. That is, the cost of PRA offers is relatively insensitive to changes in the price of services. Appendix A to this report presents results from a spreadsheet that contains an aggregate version of a simulation cutting services prices in half. State policymakers could use the Microsoft Excel version of the spreadsheet to examine the effect of changing key parameters, such as the price of services, to observe how the change would affect the various outcomes of the simulation.¹¹ The simulations presented in Appendix A assume the PRA provides for services purchases and bonus payments, but not extended income maintenance payments.

Since the extended benefits feature is the most expensive part of PRA offers, we conducted several simulations of PRAs involving only a reemployment bonus and purchase of services. Assuming no behavioral response, the average cost per offer dropped to \$1,452 and the number of offers possible rose to 58,760. Even assuming a two-week response to the offer, nearly 28,000 offers per year are possible with this simplified PRA.

We further simplified the PRA offer and performed simulations under the extreme assumption that service prices are zero. That is, “free services” simulations. This assumes essentially that the PRA is a reemployment bonus offer, and that UI claimants may use intensive, supportive, or training services as they choose. The PRA costs declined and possible enrollments for Georgia increased to about 39,000 per year under our simulations.

An important question in implementing PRAs, in which customers must pay for services from their account that were previously provided at no charge, is whether or not the customers could

¹¹The simulation reported in this document is based on information from the records of individuals 46,855 targeted individuals. Because of space constraints and confidentiality concerns, the spreadsheet is based on data aggregated by subgroups. The results are qualitatively similar but not identical to the micro data based simulations.

still get the same set of services they chose before? We found that under a PRA with only a bonus and purchase of services, only about 1.0 percent of beneficiaries would have a shortfall in purchasing their desired bundle of services. If there were no bonus payments, then only 0.5 percent of claimants could not afford their desired services. Taken together these results suggest that \$3,000 PRAs granted to the top 30 percent of the profiling distribution would be sufficient to buy the preferred set of reemployment services for all but less than 1 percent of claimants.

While we did not simulate how charging for services may change the choice of services used, we did consider a simple example to reveal the choices involved. Given estimates of the likely effect of reemployment services on the speed of reemployment and earnings for reemployment, and the time horizon involved in PRA decisions, most PRA recipients will probably conserve PRA funds by using fewer intensive, supportive, and training services than if they were free. Account recipients will instead seek speedy employment with the aim of cashing out their PRAs as a reemployment bonus.

We also did simulations of an alternative definition of the PRA amount from a fixed cash amount to a multiple of the WBA with a minimum set at \$1,500. Such a rule is similar to the design of reemployment bonus offers in the Pennsylvania and Washington field experiments. Under this design the average cost per PRA offer declined and the number of offers possible increased.

It is important to consider alternatives to the fixed \$3,000 value of the PRA given other design parameters. In particular, the rule specifying that 60 percent of the remaining PRA balance would be paid immediately if reemployment is achieved within the first 13 weeks of claim raises concerns about the PRA effect on reemployment wage rates. All of the offers tested in the four reemployment bonus experiments required at least 16 weeks of continuous reemployment before

a bonus was paid. In none of the experiments did bonus offers induce claimants to accept lower paying jobs (Decker, O’Leary, and Woodbury 2001, p. 164). However, that might not be the case under the proposed PRA design with 60 percent of the balance paid upon reemployment and a fixed \$3,000 grant regardless of prior earnings history. In particular, low-wage workers may be induced to accept any paying job to qualify for a quick \$1,800 payment. A PRA design with the grant set at a multiple of the WBA above a minimum value should be considered.

We also examined the proposed and alternative rules for allocation to SDRs within the state. Under the proposed rule which allocates money based on the SDR share of state unemployment, it will be impossible to set a single threshold for PRA enrollment based on the statewide distribution of WPRS profiling scores. Exhausting SDR budget allocations would require PRA offers to profiled claimants anywhere between the top 20 percent and the top 40 percent of the statewide distribution of WPRS scores. On average, about 27 percent of the WPRS ranking in any SDR would be given an offer with a range from 20 to 36 percent at the top of the distribution. We also report simulation results for SDR allocations based on shares of valid new UI claims.

Finally, it should be reiterated that the simulation results discussed in this report presume that all PRA offers made to targeted UI claimants are accepted, but that might not be the case. If only a fraction of offers are accepted, then the number of offers made can be scaled up accordingly. For example, if an 80 percent acceptance rate occurs, like in the Illinois reemployment bonus experiment, then 25 percent more offers could be made. The PRA acceptance rate is one of the parameters that should be monitored by states during PRA implementation, and first-year enrollment.

The introduction of PRA offers into the UI system may have effects beyond changes in the mean duration of benefit receipt. Two particular cautions have been raised regarding reemployment bonus offers. These are known as entry and displacement effects (Meyer 1995). Under usual conditions in the United States, only about two-thirds of those eligible for UI benefits actually claim and collect them during a spell of joblessness (Blank and Card 1991). The availability of a cash bonus could induce some job-separated people to enter the UI system and claim benefits, while in the absence of a possible bonus offer they otherwise would have quickly accepted a new job. Displacement would occur if a cash bonus offer increases reemployment of those offered the bonus at the expense of some of those not offered the bonus. However, UI entry effects from the bonus are much less likely if bonus offers are “targeted to those workers whose characteristics are highly correlated with long-term unemployment” (Executive Office of the President, Council of Economic Advisers 2003, p. 125). Targeting PRA offers would also mollify any displacement effects since only a fraction of UI claimants would be given offers.

Table 1 Summary of Sample Size for PRA Analysis

| Selection criteria | Resulting sample size |
|---|-----------------------|
| Georgia UI data currently available (*1) | 851,054 |
| Start of WIA to present (7/1/00 - 9/30/01) | 318,837 |
| Clients have a profiling score | 232,617 |
| Clients have 20 or more weeks of entitlement | 156,220 |
| Final sample size (*2) | 156,181 |
| Employed 1st period (E_1 , *3) | 90,299 |
| Employed 2nd period (E_2 , *4) | 66,175 |
| Training/intensive services in 1st period (S_1) | 36,483 |
| Training/intensive services in 2nd period (S_2) | 11,411 |

(*1) Based on clients' most recent UI claim covering benefit year begin dates (BYB) January 1, 1996, through September 30, 2001. Since the analysis requires complete benefit year information, September 30, 2001, marks the latest inflow date for which all UI compensation and services information is known, given the data currently available to the Upjohn Institute.

(*2) Although only monetarily valid claims are included in the sample, 30 observations were excluded because no wage data were found in the five quarters preceding the benefit year begin date. Another 9 observations were excluded due to missing data needed to solve the new Georgia profiling model for the simulations.

(*3) This is the number of persons whose full-time equivalent weeks of unemployment is 13 weeks or less. Full-time equivalent weeks is defined as total UI compensation received in the benefit year divided by the weekly benefit amount. Since week-by-week UI compensation data are not available, this is meant to proxy the first spell of unemployment.

(*4) Based on the three quarters of wage data following the quarter in which the benefit year begin date occurred. A client is considered employed in the second period if some wages are present in the first and third quarters following the quarter in which the BYB occurs and wages total \$2,000 or more in the second quarter following the BYB.

**Table 2 Intensive, Supportive, and Training Service Usage
during the First 13 weeks and the Remainder of the UI Benefit Year
Georgia UI Claimants July 1, 2000, to September 30, 2001**

| Service type | Service description | First 13 weeks | | After 13 weeks | |
|--------------|-----------------------|----------------|--------|----------------|--------|
| | | Participants | Rate | Participants | Rate |
| Intensive | Service coordination | 773 | 0.0049 | 278 | 0.0018 |
| Intensive | Customer service plan | 29,456 | 0.1886 | 7,141 | 0.0457 |
| Intensive | In-depth assessment | 159 | 0.0015 | 68 | 0.0006 |
| Intensive | Counseling | 31,722 | 0.2031 | 7,939 | 0.0508 |
| Intensive | Expanded workshop | 588 | 0.0038 | 486 | 0.0031 |
| Supportive | Supportive services | 2,617 | 0.0168 | 1,006 | 0.0064 |
| Training | Job skill training | 4,229 | 0.0207 | 2,795 | 0.0179 |

Table 3 Statewide Service Participation Rate Summary

| Variable | Service description | Sample size | First 13 weeks | | After 13 weeks | |
|-------------------------------------|------------------------|-------------|----------------|--------|----------------|--------|
| | | | Participants | Rate | Participants | Rate |
| <i>i1</i> | Service coordination | 156,181 | 773 | 0.0049 | 278 | 0.0018 |
| <i>i2</i> | Customer service plan | 156,181 | 29,456 | 0.1886 | 7,141 | 0.0457 |
| <i>i3</i> | In-depth assessment | 107,126 | 159 | 0.0015 | 68 | 0.0006 |
| <i>i4</i> | Counseling | 156,181 | 31,722 | 0.2031 | 7,939 | 0.0508 |
| <i>i5</i> | Expanded workshop | 156,181 | 588 | 0.0038 | 486 | 0.0031 |
| <i>c18</i> | Supportive services | 156,181 | 2,617 | 0.0168 | 1,006 | 0.0064 |
| <i>t</i> | Training | 156,181 | 4,229 | 0.0207 | 2,795 | 0.0179 |
| Total Intensive/Supportive/Training | | 156,181 | 36,483 | 0.2336 | 11,411 | 0.0731 |
| <i>c00</i> | Job referral | 156,181 | 34,308 | 0.2197 | 26,305 | 0.1684 |
| <i>c01</i> | Order search | 156,181 | 84,616 | 0.5418 | 31,987 | 0.2048 |
| <i>c02</i> | Job search planning | 156,181 | 40,549 | 0.2596 | 18,752 | 0.1201 |
| <i>c03</i> | Service needs eval | 156,181 | 64,987 | 0.4161 | 8,627 | 0.0552 |
| <i>c04</i> | Orientation | 156,181 | 56,767 | 0.3635 | 4,114 | 0.0263 |
| <i>c04W</i> | Orientation w/workshop | 107,126 | 23,104 | 0.2157 | 1,982 | 0.0185 |
| <i>c05</i> | ERP | 156,181 | 57,609 | 0.3689 | 27,730 | 0.1776 |
| <i>c07</i> | Specific LMI | 156,181 | 113,288 | 0.7254 | 38,118 | 0.2441 |
| <i>c08</i> | Resume preparation | 156,181 | 11,193 | 0.0717 | 4,334 | 0.0277 |
| <i>c10</i> | Workshops ^a | 156,181 | 38,425 | 0.2460 | 10,992 | 0.0704 |
| <i>c101</i> | RePlace Yourself | 107,126 | 7,354 | 0.0686 | 582 | 0.0054 |
| <i>c102</i> | Financial/stress | 107,126 | 2,240 | 0.0209 | 874 | 0.0082 |
| <i>c103</i> | Resume | 107,126 | 3,032 | 0.0283 | 1,284 | 0.0120 |
| <i>c104</i> | Internet | 107,126 | 1,838 | 0.0172 | 1,109 | 0.0104 |
| <i>c105</i> | Interviewing | 107,126 | 3,683 | 0.0344 | 1,831 | 0.0171 |
| <i>c106</i> | Retention | 107,126 | 134 | 0.0013 | 99 | 0.0009 |
| <i>c107</i> | Applications | 107,126 | 1,159 | 0.0108 | 564 | 0.0053 |
| <i>c108</i> | Networking | 107,126 | 2,625 | 0.0245 | 1,342 | 0.0125 |
| <i>c10A</i> | Other workshop | 107,126 | 4,969 | 0.0464 | 3,660 | 0.0342 |
| <i>c11</i> | Job search assistance | 156,181 | 37,211 | 0.2383 | 19,714 | 0.1262 |
| <i>c12</i> | Call-in | 156,181 | 6,561 | 0.0420 | 4,561 | 0.0292 |
| <i>c13</i> | Job development | 156,181 | 6,976 | 0.0447 | 3,809 | 0.0244 |
| <i>c14</i> | Job finding club | 156,181 | 86 | 0.0006 | 54 | 0.0003 |
| <i>c15</i> | Test | 156,181 | 858 | 0.0055 | 626 | 0.0040 |
| <i>c16</i> | Bonding assistance | 156,181 | 150 | 0.0010 | 70 | 0.0004 |
| <i>c20</i> | REU/profiled | 156,181 | 47,177 | 0.3021 | 65 | 0.0004 |
| <i>pro</i> | Profiling/CAP | 156,181 | 57,837 | 0.3703 | 11,571 | 0.0741 |

^a For participation after January 1, 2001 data on the specific type of workshop is also available.

Table 4 Statewide Service Participation Rate Summary for Top 30 Percent of Profiling Scores

| Variable | Description | Sample size | First 13 weeks | | After 13 weeks | |
|-------------|--------------------------|-------------|----------------|--------|----------------|--------|
| | | | Participants | Rate | Participants | Rate |
| <i>i1</i> | Service coordination | 46,855 | 283 | 0.0060 | 83 | 0.0018 |
| <i>i2</i> | Customer service plan | 46,855 | 14,836 | 0.3166 | 3,674 | 0.0784 |
| <i>i3</i> | In-depth assessment | 34,431 | 63 | 0.0018 | 24 | 0.0007 |
| <i>i4</i> | Counseling | 46,855 | 15,610 | 0.3332 | 3,920 | 0.0837 |
| <i>i5</i> | Expanded workshop | 46,855 | 94 | 0.0020 | 96 | 0.0020 |
| <i>c18</i> | Ref to support services | 46,855 | 983 | 0.0210 | 311 | 0.0066 |
| <i>t</i> | Training | 46,855 | 2,289 | 0.0489 | 1,122 | 0.0239 |
| Total | Total intensive/training | 46,855 | 17,777 | 0.3794 | 5,221 | 0.1114 |
| <i>c00</i> | Job referral | 46,855 | 9,642 | 0.2058 | 7,395 | 0.1578 |
| <i>c01</i> | Order search | 46,855 | 27,301 | 0.5827 | 11,152 | 0.2380 |
| <i>c02</i> | Job search planning | 46,855 | 15,024 | 0.3206 | 6,668 | 0.1423 |
| <i>c03</i> | Service needs eval | 46,855 | 33,617 | 0.7175 | 2,851 | 0.0608 |
| <i>c04</i> | Orientation | 46,855 | 30,939 | 0.6603 | 1,350 | 0.0288 |
| <i>c04W</i> | Orientation w/workshop | 34,431 | 13,449 | 0.3906 | 736 | 0.0214 |
| <i>c05</i> | ERP | 46,855 | 32,126 | 0.6856 | 15,124 | 0.3228 |
| <i>c07</i> | Specific LMI | 46,855 | 35,317 | 0.7538 | 13,025 | 0.2780 |
| <i>c08</i> | Resume preparation | 46,855 | 4,858 | 0.1037 | 1,601 | 0.0342 |
| <i>c10</i> | Workshops | 46,855 | 20,852 | 0.4450 | 5,633 | 0.1202 |
| <i>c101</i> | RePlace Yourself | 34,431 | 3,717 | 0.1080 | 247 | 0.0072 |
| <i>c102</i> | Financial/stress | 34,431 | 1,280 | 0.0372 | 486 | 0.0141 |
| <i>c103</i> | Resume | 34,431 | 1,915 | 0.0556 | 704 | 0.0204 |
| <i>c104</i> | Internet | 34,431 | 1,026 | 0.0298 | 583 | 0.0169 |
| <i>c105</i> | Interviewing | 34,431 | 2,272 | 0.0660 | 922 | 0.0268 |
| <i>c106</i> | Retention | 34,431 | 58 | 0.0017 | 34 | 0.0010 |
| <i>c107</i> | Applications | 34,431 | 770 | 0.0224 | 312 | 0.0091 |
| <i>c108</i> | Networking | 34,431 | 1,492 | 0.0433 | 701 | 0.0204 |
| <i>c10A</i> | Other workshop | 34,431 | 2,944 | 0.0855 | 1,948 | 0.0566 |
| <i>c11</i> | Job search assistance | 46,855 | 16,241 | 0.3466 | 8,582 | 0.1832 |
| <i>c12</i> | Call-in | 46,855 | 2,124 | 0.0453 | 1,374 | 0.0293 |
| <i>c13</i> | Job development | 46,855 | 2,614 | 0.0558 | 1,363 | 0.0291 |
| <i>c14</i> | Job finding club | 46,855 | 26 | 0.0006 | 17 | 0.0004 |
| <i>c15</i> | Test | 46,855 | 485 | 0.0104 | 334 | 0.0071 |
| <i>c16</i> | Bonding assistance | 46,855 | 39 | 0.0008 | 17 | 0.0004 |
| <i>c20</i> | REU/profiled | 46,855 | 30,620 | 0.6535 | 24 | 0.0005 |
| <i>pro</i> | Profiling/CAP | 46,855 | 32,725 | 0.6984 | 5,812 | 0.1240 |

Table 5 Prices for Intensive, Supportive, and Training Services

| Georgia UI claims 7/1/2000 to 9/30/2001 | Total services | Cost factor | Service price (\$) |
|--|-------------------|----------------|-----------------------|
| Intensive services | | | |
| Service coordination | 1,051 | 1.0 | 356 |
| Customer service plan | 36,597 | 1.0 | 356 |
| In-depth assessment | 227 | 2.0 | 712 |
| Counseling | 39,661 | 2.0 | 712 |
| Expanded workshop | 1,074 | 2.0 | 712 |
| Supportive services | 3,623 | 3.0 | 1,068 |
| Training services | 7,024 | 4.0 | 1,424 |

Table 6 UI and Demographic Summary by Bonus Qualification / Service Receipt Group

| Group | Size | Proportion of total sample | Entitled weeks | FTE weeks | Mean WBA (new max) | Age < 25 | Age > 45 | Income, bottom 25% |
|------------------------|---------------|----------------------------------|-------------------|--------------|-----------------------|--------------|--------------|--------------------------|
| E11S00 | 42,517 | 0.272 | 23.8 | 3.3 | 252 | 0.102 | 0.226 | 0.235 |
| E11S10 | 10,329 | 0.066 | 24.1 | 5.7 | 258 | 0.070 | 0.263 | 0.203 |
| E11S01 | 436 | 0.003 | 23.4 | 4.3 | 243 | 0.062 | 0.230 | 0.298 |
| E11S11 | 325 | 0.002 | 23.9 | 6.4 | 256 | 0.052 | 0.269 | 0.206 |
| Group E11 Total | 53,607 | 0.343 | 23.8 | 3.8 | 253 | 0.095 | 0.234 | 0.230 |
| E10S00 | 30,179 | 0.193 | 23.3 | 2.1 | 231 | 0.135 | 0.244 | 0.368 |
| E10S10 | 5,474 | 0.035 | 23.6 | 5.0 | 234 | 0.100 | 0.296 | 0.344 |
| E10S01 | 683 | 0.004 | 22.7 | 1.9 | 200 | 0.204 | 0.201 | 0.564 |
| E10S11 | 356 | 0.002 | 23.0 | 3.6 | 213 | 0.141 | 0.220 | 0.461 |
| Group E10 Total | 36,692 | 0.235 | 23.3 | 2.5 | 231 | 0.131 | 0.251 | 0.369 |
| E01S00 | 8,624 | 0.055 | 23.9 | 19.4 | 263 | 0.057 | 0.281 | 0.163 |
| E01S10 | 2,656 | 0.017 | 24.0 | 18.8 | 261 | 0.057 | 0.283 | 0.179 |
| E01S01 | 263 | 0.002 | 23.9 | 19.8 | 259 | 0.057 | 0.313 | 0.205 |
| E01S11 | 1,025 | 0.007 | 23.9 | 19.9 | 258 | 0.049 | 0.326 | 0.185 |
| Group E01 Total | 12,568 | 0.080 | 23.9 | 19.3 | 262 | 0.056 | 0.286 | 0.169 |
| E00S00 | 34,976 | 0.224 | 24.0 | 22.9 | 258 | 0.061 | 0.347 | 0.202 |
| E00S10 | 10,015 | 0.064 | 24.0 | 22.7 | 257 | 0.056 | 0.375 | 0.207 |
| E00S01 | 2,020 | 0.013 | 23.7 | 23.1 | 252 | 0.059 | 0.326 | 0.238 |
| E00S11 | 6,303 | 0.040 | 23.9 | 23.2 | 253 | 0.047 | 0.414 | 0.232 |
| Group E00 Total | 53,314 | 0.341 | 24.0 | 22.9 | 257 | 0.058 | 0.360 | 0.208 |
| Total | 156,181 | 1.000 | 23.8 | 11.3 | 250 | 0.088 | 0.285 | 0.250 |

Table 7 UI and Demographic Summary by Bonus Qualification/Service Receipt Group for the Top 30 Percent of the Profiling Distribution

| Group | Size | Proportion of total sample | Entitled weeks | FTE weeks | Mean WBA (original) | Mean WBA (new max) | Age < 25 | Age > 45 | Income, bottom 25% |
|------------------------|---------------|----------------------------|----------------|-------------|---------------------|--------------------|--------------|--------------|--------------------|
| E11S00 | 7,501 | 0.160 | 24.2 | 5.3 | 256 | 270 | 0.047 | 0.338 | 0.143 |
| E11S10 | 4,830 | 0.103 | 24.1 | 6.2 | 245 | 261 | 0.060 | 0.305 | 0.209 |
| E11S01 | 53 | 0.001 | 23.7 | 5.2 | 248 | 263 | 0.000 | 0.245 | 0.245 |
| E11S11 | 110 | 0.002 | 24.1 | 7.7 | 250 | 266 | 0.055 | 0.282 | 0.136 |
| Group E11 Total | 12,494 | 0.267 | 24.2 | 5.7 | 252 | 266 | 0.052 | 0.324 | 0.169 |
| E10S00 | 3,983 | 0.085 | 24.2 | 4.7 | 250 | 264 | 0.052 | 0.417 | 0.184 |
| E10S10 | 2,195 | 0.047 | 23.8 | 6.2 | 232 | 246 | 0.082 | 0.384 | 0.293 |
| E10S01 | 81 | 0.002 | 24.2 | 3.3 | 244 | 261 | 0.086 | 0.321 | 0.235 |
| E10S11 | 88 | 0.002 | 23.5 | 6.8 | 228 | 240 | 0.103 | 0.333 | 0.341 |
| Group E10 Total | 6,347 | 0.135 | 24.1 | 5.2 | 243 | 257 | 0.064 | 0.403 | 0.225 |
| E01S00 | 2,730 | 0.058 | 23.8 | 19.3 | 255 | 268 | 0.037 | 0.327 | 0.142 |
| E01S10 | 1,288 | 0.027 | 23.8 | 18.6 | 247 | 261 | 0.058 | 0.323 | 0.190 |
| E01S01 | 72 | 0.002 | 23.8 | 20.4 | 247 | 261 | 0.056 | 0.394 | 0.194 |
| E01S11 | 533 | 0.011 | 23.8 | 19.9 | 248 | 263 | 0.047 | 0.323 | 0.167 |
| Group E01 Total | 4,623 | 0.099 | 23.8 | 19.2 | 252 | 265 | 0.044 | 0.326 | 0.159 |
| E00S00 | 13,856 | 0.296 | 24.1 | 23.2 | 253 | 266 | 0.037 | 0.427 | 0.168 |
| E00S10 | 5,249 | 0.112 | 24.0 | 22.8 | 245 | 260 | 0.047 | 0.431 | 0.206 |
| E00S01 | 802 | 0.017 | 23.9 | 23.5 | 250 | 263 | 0.024 | 0.406 | 0.176 |
| E00S11 | 3,484 | 0.074 | 23.9 | 23.1 | 241 | 255 | 0.042 | 0.475 | 0.233 |
| Group E00 Total | 23,391 | 0.499 | 24.0 | 23.1 | 249 | 263 | 0.040 | 0.434 | 0.186 |
| Total | 46,855 | 1.000 | 24.1 | 15.6 | 249 | 263 | 0.046 | 0.390 | 0.184 |

Table 8 Breakdown of PRA Costs per Offer, Top 30 Percent, Baseline Scenario, All Features

| Group | Proportion of sample | Bonus Costs (\$) | | Spending for Services (\$) | | Extended Compensation (\$) | Spending for group (\$) | Expected budget impact (\$) |
|--------------|----------------------|------------------|------------|----------------------------|------------|----------------------------|-------------------------|-----------------------------|
| | | 1st period | 2nd period | 1st period | 2nd period | | | |
| E11S00 | 0.160 | 1,800 | 1,200 | 0 | 0 | 0 | 3,000 | 480 |
| E11S10 | 0.103 | 1,118 | 745 | 1,137 | 0 | 0 | 3,000 | 309 |
| E11S01 | 0.001 | 1,800 | 0 | 0 | 1,113 | 0 | 2,913 | 3 |
| E11S11 | 0.002 | 970 | 0 | 1,383 | 629 | 0 | 2,982 | 7 |
| E10S00 | 0.085 | 1,800 | 0 | 0 | 0 | 0 | 1,800 | 153 |
| E10S10 | 0.047 | 1,109 | 0 | 1,151 | 0 | 0 | 2,261 | 106 |
| E10S01 | 0.002 | 1,800 | 0 | 0 | 1,036 | 0 | 2,836 | 5 |
| E10S11 | 0.002 | 1,017 | 0 | 1,305 | 668 | 0 | 2,990 | 6 |
| E01S00 | 0.058 | 0 | 0 | 0 | 0 | 998 | 998 | 58 |
| E01S10 | 0.027 | 0 | 0 | 1,181 | 0 | 472 | 1,652 | 45 |
| E01S01 | 0.002 | 0 | 0 | 0 | 1,324 | 643 | 1,968 | 3 |
| E01S11 | 0.011 | 0 | 0 | 1,168 | 1,060 | 249 | 2,476 | 28 |
| E00S00 | 0.296 | 0 | 0 | 0 | 0 | 2,438 | 2,438 | 721 |
| E00S10 | 0.112 | 0 | 0 | 1,180 | 0 | 1,396 | 2,576 | 289 |
| E00S01 | 0.017 | 0 | 0 | 0 | 1,323 | 1,515 | 2,838 | 49 |
| E00S11 | 0.074 | 0 | 0 | 1,195 | 1,062 | 606 | 2,862 | 213 |
| Total | 1.000 | 618 | 269 | 444 | 121 | 1,023 | 2,475 | 2,475 |

Table 9 Breakdown of PRA Costs per Offer, Top 30 Percent, Baseline Scenario Bonus and Purchase Services

| Group | Proportion of total sample | Bonus Costs (\$) | | Spending for Services (\$) | | Spending for group (\$) | Expected budget impact (\$) |
|--------------|----------------------------|------------------|------------|----------------------------|------------|-------------------------|-----------------------------|
| | | 1st period | 2nd period | 1st period | 2nd period | | |
| E11S00 | 0.160 | 1,800 | 1,200 | 0 | 0 | 3,000 | 480 |
| E11S10 | 0.103 | 1,118 | 745 | 1,137 | 0 | 3,000 | 309 |
| E11S01 | 0.001 | 1,800 | 0 | 0 | 1,113 | 2,913 | 3 |
| E11S11 | 0.002 | 970 | 0 | 1,383 | 629 | 2,982 | 7 |
| E10S00 | 0.085 | 1,800 | 0 | 0 | 0 | 1,800 | 153 |
| E10S10 | 0.047 | 1,109 | 0 | 1,151 | 0 | 2,261 | 106 |
| E10S01 | 0.002 | 1,800 | 0 | 0 | 1,036 | 2,836 | 5 |
| E10S11 | 0.002 | 1,017 | 0 | 1,305 | 668 | 2,990 | 6 |
| E01S00 | 0.058 | 0 | 0 | 0 | 0 | 0 | 0 |
| E01S10 | 0.027 | 0 | 0 | 1,181 | 0 | 1,181 | 32 |
| E01S01 | 0.002 | 0 | 0 | 0 | 1,324 | 1,324 | 2 |
| E01S11 | 0.011 | 0 | 0 | 1,168 | 1,060 | 2,228 | 25 |
| E00S00 | 0.296 | 0 | 0 | 0 | 0 | 0 | 0 |
| E00S10 | 0.112 | 0 | 0 | 1,180 | 0 | 1,180 | 132 |
| E00S01 | 0.017 | 0 | 0 | 0 | 1,323 | 1,323 | 23 |
| E00S11 | 0.074 | 0 | 0 | 1,195 | 1,062 | 2,256 | 168 |
| Total | 1.000 | 618 | 269 | 444 | 121 | 1,452 | 1,452 |

Table 10 Breakdown of PRA Costs per Offer, Top 30 Percent, Baseline Scenario, Bonus Only

| Group | Proportion of total sample | Bonus costs (\$) | | Services spending (\$) | | Spending for group (\$) | Expected budget impact (\$) |
|--------------|----------------------------|------------------|------------|------------------------|------------|-------------------------|-----------------------------|
| | | 1st period | 2nd period | 1st period | 2nd period | | |
| E11S00 | 0.160 | 1,800 | 1,200 | 0 | 0 | 3,000 | 480 |
| E11S10 | 0.103 | 1,800 | 1,200 | 0 | 0 | 3,000 | 309 |
| E11S01 | 0.001 | 1,800 | 0 | 0 | 0 | 1,800 | 2 |
| E11S11 | 0.002 | 1,800 | 0 | 0 | 0 | 1,800 | 4 |
| E10S00 | 0.085 | 1,800 | 0 | 0 | 0 | 1,800 | 153 |
| E10S10 | 0.047 | 1,800 | 0 | 0 | 0 | 1,800 | 84 |
| E10S01 | 0.002 | 1,800 | 0 | 0 | 0 | 1,800 | 3 |
| E10S11 | 0.002 | 1,800 | 0 | 0 | 0 | 1,800 | 3 |
| E01S00 | 0.058 | 0 | 0 | 0 | 0 | 0 | 0 |
| E01S10 | 0.027 | 0 | 0 | 0 | 0 | 0 | 0 |
| E01S01 | 0.002 | 0 | 0 | 0 | 0 | 0 | 0 |
| E01S11 | 0.011 | 0 | 0 | 0 | 0 | 0 | 0 |
| E00S00 | 0.296 | 0 | 0 | 0 | 0 | 0 | 0 |
| E00S10 | 0.112 | 0 | 0 | 0 | 0 | 0 | 0 |
| E00S01 | 0.017 | 0 | 0 | 0 | 0 | 0 | 0 |
| E00S11 | 0.074 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 1.000 | 724 | 316 | 0 | 0 | 0 | 1,040 |

Table 11 Average Cost per PRA Offer and Total Number of Potential PRA Offers over Two Years Given the Georgia PRA Budget

| PRA scenario | Average cost (\$) | Number of offers |
|-------------------------------------|-------------------|------------------|
| Bonus, services, exhaustee payments | 2,475 | 34,473 |
| 1-week impact | 2,515 | 33,924 |
| 2-week impact | 2,551 | 33,446 |
| Bonus and purchase services | 1,452 | 58,760 |
| 1-week impact | 1,491 | 57,223 |
| 2-week impact | 1,528 | 55,838 |
| Bonus only with free services | 1,040 | 82,038 |
| 1-week impact | 1,086 | 78,564 |
| 2-week impact | 1,131 | 75,438 |

Table 12 Net Present Value (NPV) of Alternative PRA Use Choices (\$)

| Week | Bonus only | Services only | |
|------|------------|---------------|-------------|
| | | Earnings gain | Quicker job |
| 1 | 300 | 300 | 300 |
| 2 | 300 | 300 | 300 |
| 3 | 300 | 300 | 300 |
| 4 | 300 | 300 | 300 |
| 5 | 300 | 300 | 300 |
| 6 | 300 | 300 | 300 |
| 7 | 300 | 300 | 800 |
| 8 | 300 | 300 | 800 |
| 9 | 300 | 300 | 800 |
| 10 | 300 | 300 | 800 |
| 11 | 300 | 300 | 800 |
| 12 | 300 | 300 | 800 |
| 13 | 2,600 | 911 | 800 |
| 14 | 800 | 911 | 800 |
| 15 | 800 | 911 | 800 |
| 16 | 800 | 911 | 800 |
| 17 | 800 | 911 | 800 |
| 18 | 800 | 911 | 800 |
| 19 | 800 | 911 | 800 |
| 20 | 800 | 911 | 800 |
| 21 | 800 | 911 | 800 |
| 22 | 800 | 911 | 800 |
| 23 | 800 | 911 | 800 |
| 24 | 800 | 911 | 800 |
| 25 | 800 | 911 | 800 |
| 26 | 800 | 911 | 800 |
| 27 | 800 | 911 | 800 |
| 28 | 800 | 911 | 800 |
| 29 | 800 | 911 | 800 |
| 30 | 800 | 911 | 800 |
| 31 | 800 | 911 | 800 |
| 32 | 800 | 911 | 800 |
| 33 | 800 | 911 | 800 |
| 34 | 800 | 911 | 800 |
| 35 | 800 | 911 | 800 |
| 36 | 800 | 911 | 800 |
| 37 | 800 | 911 | 800 |
| 38 | 800 | 911 | 800 |
| 39 | 2,000 | 911 | 800 |
| NPV | 27,825 | 27,818 | 27,849 |

Table 13 Distribution of State PRA Budget Allocation to Service Delivery Regions (SDRs)

| SDR | Region | Proportion of Georgia | | Budget based on (\$) | | Percent difference in budgets |
|-----|--------------------|-----------------------|--------------|----------------------|--------------|----------------------------------|
| | | Unemployed | UI claimants | Unemployed | UI claimants | |
| 1 | Northern Georgia | 0.084 | 0.111 | 7,207,242 | 9,427,818 | 30.8 |
| 2 | Northern Georgia | 0.042 | 0.051 | 3,621,775 | 4,330,839 | 19.6 |
| 3 | Atlanta | 0.379 | 0.344 | 32,349,487 | 29,369,643 | -9.2 |
| 4 | Northern Georgia | 0.060 | 0.066 | 5,099,734 | 5,665,896 | 11.1 |
| 5 | Northern Georgia | 0.047 | 0.050 | 4,005,444 | 4,287,221 | 7.0 |
| 6 | Balance of Georgia | 0.050 | 0.050 | 4,279,412 | 4,273,305 | -0.1 |
| 7 | Balance of Georgia | 0.065 | 0.063 | 5,555,561 | 5,395,353 | -2.9 |
| 8 | Balance of Georgia | 0.051 | 0.054 | 4,314,201 | 4,599,510 | 6.6 |
| 9 | Balance of Georgia | 0.049 | 0.045 | 4,218,304 | 3,850,765 | -8.7 |
| 10 | Balance of Georgia | 0.059 | 0.053 | 5,055,091 | 4,552,948 | -9.9 |
| 11 | Coastal Georgia | 0.059 | 0.061 | 4,991,047 | 5,215,258 | 4.5 |
| 12 | Coastal Georgia | 0.054 | 0.051 | 4,622,701 | 4,351,445 | -5.9 |
| | State total | 1.000 | 1.000 | 85,320,000 | 85,320,000 | |

Table 14 Service Delivery Region Top Percentages of Profiling Distribution to Receive PRA Offers to Exhaust Budgets Based on the State-wide Profiling Distribution

| SDR | Top percentage to enroll | | Total enrolled | |
|--------------|--------------------------|------------|------------------|---------------|
| | Total unemployed | UI clients | Total unemployed | UI clients |
| 1 | 31 | 41 | 2,494 | 3,199 |
| 2 | 32 | 36 | 1,294 | 1,501 |
| 3 | 19 | 17 | 11,577 | 10,332 |
| 4 | 30 | 33 | 1,958 | 2,126 |
| 5 | 30 | 32 | 1,404 | 1,506 |
| 6 | 30 | 30 | 1,480 | 1,480 |
| 7 | 30 | 29 | 1,945 | 1,883 |
| 8 | 29 | 31 | 1,625 | 1,714 |
| 9 | 41 | 37 | 1,360 | 1,229 |
| 10 | 29 | 24 | 1,585 | 1,396 |
| 11 | 36 | 38 | 1,570 | 1,636 |
| 12 | 27 | 25 | 1,523 | 1,426 |
| Total | | | 29,813 | 29,429 |

Table 15 Service Delivery Region Top Percentages of Profiling Distribution to Receive PRA Offer to Exhaust Budgets Based on the within-SDR Profiling Distribution

| SDR | Top percentage to enroll | | Total enrolled | |
|-----|--------------------------|------------|------------------|------------|
| | Total unemployed | UI clients | Total unemployed | UI clients |
| 1 | 26 | 34 | 2,504 | 3,274 |
| 2 | 24 | 28 | 1,276 | 1,489 |
| 3 | 20 | 18 | 11,305 | 10,174 |
| 4 | 28 | 31 | 1,930 | 2,138 |
| 5 | 24 | 25 | 1,450 | 1,510 |
| 6 | 25 | 25 | 1,488 | 1,488 |
| 7 | 29 | 28 | 1,933 | 1,866 |
| 8 | 28 | 30 | 1,610 | 1,726 |
| 9 | 36 | 33 | 1,349 | 1,236 |
| 10 | 29 | 26 | 1,584 | 1,420 |
| 11 | 27 | 28 | 1,563 | 1,622 |
| 12 | 21 | 20 | 1,510 | 1,438 |
| | | | 29,502 | 29,380 |

Figure 1 Matrix of Costs and Benefits for PRA Participants

| Employment | Services | Period 1 | | Period 2 | |
|--------------------|-------------|-----------------------------------|----------------------|----------------|----------------------|
| | | Benefits | Costs | Benefits | Costs |
| Employed (=1) | Yes (=1) | x w_1 $(b_1 - cs - cT)$ | cz cs cT | w_2 b_2 | cz cs cT |
| | No (=0) | x w_1 b_1 | cz | w_2 b_2 | cz |
| Unemployed (=0) | Yes (=1) | x | cz cs cT | x w_2 | cz cs cT |
| | No (=0) | x | cz | x w_2 | cz |

Figure 2 Employment Status in PRA Time Periods (Sample Share/Targeted Sample Share)

| Employed period 1—first 13 weeks | Employed period 2—after 13 weeks | |
|----------------------------------|----------------------------------|-------------------|
| | Yes = 1 | No = 0 |
| Yes = 1 | E11 (0.343/0.267) | E10 (0.235/0.135) |
| No = 0 | E01 (0.080/0.099) | E00 (0.341/0.499) |

Figure 3 Employment and Services Use Status in PRA Time Periods

| Employed period 1—first 13 weeks | Employed period 2—after 13 weeks | | | |
|----------------------------------|----------------------------------|--------|---------------------|--------|
| | Yes = 1 | | No = 0 | |
| Yes = 1 | Services use if E11 | | Services use if E10 | |
| | | E11S11 | E11S10 | E10S11 |
| | E11S01 | E11S00 | E10S01 | E10S00 |
| No = 0 | Services use if E01 | | Services use if E00 | |
| | E01S11 | E01S10 | E00S11 | E00S10 |
| | E01S01 | E01S00 | E00S01 | E00S00 |

Appendix A

A Spreadsheet for Simulations of Alternative Personal Reemployment Account Designs at the Sample Means

**Table A.1 PRA Simulation Based on Top 30 Percent According to New Profiling Model
(Items in Bold May be Changed to Compute Alternate Simulations)**

| Service variable | Description | Baseline prices (\$) | Enter alternative (\$) | Change |
|------------------|---------------------------------------|----------------------|------------------------|-------------|
| <i>i1</i> | Service coordination | 356 | 356 | 0 |
| <i>i2</i> | Customer service plan | 356 | 356 | 0 |
| <i>i3</i> | In-depth assessment | 712 | 712 | 0 |
| <i>i4</i> | Counseling | 712 | 712 | 0 |
| <i>i5</i> | Expanded workshop | 712 | 712 | 0 |
| <i>c18</i> | Referred to supportive services | 1,068 | 1,068 | 0 |
| Training | Training | 1,424 | 1,424 | 0 |
| | PRA offer amount or WBA Multiple (*1) | 3,000 | 3,000 | 0 |
| | Georgia PRA budget allocation amount | 85,320,000 | 85,320,000 | 0 |
| | Simulation results: | Baseline (\$) | Alternative (\$) | Change (\$) |
| | Total cost per offer (no impact) | 1,463 | 1,463 | 0 |
| | Total cost per offer (1-week impact) | 1,502 | 1,502 | 0 |
| | Total cost per offer (2-week impact) | 1,538 | 1,538 | 0 |
| | Maximum offers (no impact) | 58,317 | 58,317 | 0 |
| | Maximum offers (1-week impact) | 56,801 | 56,801 | 0 |
| | Maximum offers (2-week impact) | 55,467 | 55,467 | 0 |

(*1) When entering a dollar amount, minimum offer is \$1,500 and maximum is \$3,000. If amount entered does not fall within that range, no simulation will be performed. If entering WBA multiple and resulting PRA offer does not fall within that range, no simulation will be performed.

Table A.2 Services Participation Rates and Other Data Needed for Simulations

| Service categories and cost items | E11 | | E10 | | E01 | | E00 | | E00 | | E00 | | E00 | | | |
|--------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | S00 | S10 | S01 | S11 | S00 | S10 | S01 | S11 | S00 | S10 | S01 | S11 | S00 | S10 | S01 | S11 |
| <i>i1</i> | 0.000 | 0.014 | 0.000 | 0.045 | 0.000 | 0.017 | 0.000 | 0.057 | 0.000 | 0.013 | 0.000 | 0.011 | 0.000 | 0.014 | 0.000 | 0.020 |
| <i>i2</i> | 0.000 | 0.888 | 0.000 | 0.727 | 0.000 | 0.870 | 0.000 | 0.716 | 0.000 | 0.790 | 0.000 | 0.908 | 0.000 | 0.736 | 0.000 | 0.898 |
| <i>i3</i> | 0.000 | 0.007 | 0.000 | 0.000 | 0.000 | 0.012 | 0.000 | 0.000 | 0.000 | 0.004 | 0.000 | 0.029 | 0.000 | 0.008 | 0.000 | 0.019 |
| <i>i4</i> | 0.000 | 0.925 | 0.000 | 0.818 | 0.000 | 0.919 | 0.000 | 0.818 | 0.000 | 0.839 | 0.000 | 0.934 | 0.000 | 0.799 | 0.000 | 0.916 |
| <i>i5</i> | 0.000 | 0.003 | 0.000 | 0.000 | 0.000 | 0.007 | 0.000 | 0.023 | 0.000 | 0.008 | 0.000 | 0.008 | 0.000 | 0.006 | 0.000 | 0.004 |
| <i>c18</i> | 0.000 | 0.042 | 0.000 | 0.036 | 0.000 | 0.055 | 0.000 | 0.170 | 0.000 | 0.061 | 0.000 | 0.043 | 0.000 | 0.072 | 0.000 | 0.046 |
| Training | 0.000 | 0.080 | 0.000 | 0.355 | 0.000 | 0.087 | 0.000 | 0.205 | 0.000 | 0.163 | 0.000 | 0.092 | 0.000 | 0.186 | 0.000 | 0.121 |
| Group proportion (no impact) | 0.160 | 0.103 | 0.001 | 0.002 | 0.085 | 0.047 | 0.002 | 0.002 | 0.058 | 0.027 | 0.002 | 0.011 | 0.296 | 0.112 | 0.017 | 0.074 |
| Group proportion (1-week impact) | 0.167 | 0.107 | 0.001 | 0.003 | 0.089 | 0.050 | 0.002 | 0.002 | 0.051 | 0.024 | 0.001 | 0.011 | 0.291 | 0.109 | 0.017 | 0.074 |
| Group proportion (2-week impact) | 0.173 | 0.111 | 0.001 | 0.004 | 0.093 | 0.052 | 0.002 | 0.003 | 0.046 | 0.020 | 0.001 | 0.010 | 0.287 | 0.106 | 0.017 | 0.073 |
| Group WBA (no impact) | 269 | 259 | 259 | 264 | 265 | 248 | 256 | 241 | 267 | 259 | 260 | 261 | 266 | 259 | 263 | 255 |
| Group WBA (1-week impact) | 269 | 259 | 259 | 263 | 265 | 248 | 255 | 244 | 268 | 259 | 260 | 261 | 266 | 259 | 263 | 255 |
| Group WBA (2-week impact) | 269 | 259 | 255 | 266 | 265 | 248 | 254 | 245 | 268 | 259 | 264 | 260 | 266 | 260 | 263 | 255 |
| Alternative group PRA offer amounts: | | | | | | | | | | | | | | | | |
| No impact | 3,000 | 3,000 | 3,000 | 3,000 | 3,000 | 3,000 | 3,000 | 3,000 | 3,000 | 3,000 | 3,000 | 3,000 | 3,000 | 3,000 | 3,000 | 3,000 |
| 1-week impact | 3,000 | 3,000 | 3,000 | 3,000 | 3,000 | 3,000 | 3,000 | 3,000 | 3,000 | 3,000 | 3,000 | 3,000 | 3,000 | 3,000 | 3,000 | 3,000 |
| 2-week impact | 3,000 | 3,000 | 3,000 | 3,000 | 3,000 | 3,000 | 3,000 | 3,000 | 3,000 | 3,000 | 3,000 | 3,000 | 3,000 | 3,000 | 3,000 | 3,000 |
| Baseline costs for group, 1st period | | | | | | | | | | | | | | | | |
| Service costs, no impact | 0 | 1,145 | 0 | 1,401 | 0 | 1,165 | 0 | 1,347 | 0 | 1,189 | 0 | 1,196 | 0 | 1,188 | 0 | 1,218 |
| Service costs, 1-week impact | 0 | 1,145 | 0 | 1,401 | 0 | 1,165 | 0 | 1,347 | 0 | 1,189 | 0 | 1,196 | 0 | 1,188 | 0 | 1,218 |
| Service costs, 2-week impact | 0 | 1,145 | 0 | 1,401 | 0 | 1,165 | 0 | 1,347 | 0 | 1,189 | 0 | 1,196 | 0 | 1,188 | 0 | 1,218 |
| 1st bonus, no impact | 1,800 | 1,113 | 1,800 | 959 | 1,800 | 1,101 | 1,800 | 992 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1st bonus, 1-week impact | 1,800 | 1,113 | 1,800 | 959 | 1,800 | 1,101 | 1,800 | 992 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1st bonus, 2-week impact | 1,800 | 1,113 | 1,800 | 959 | 1,800 | 1,101 | 1,800 | 992 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Alternative costs 1st period | | | | | | | | | | | | | | | | |
| Service costs, no impact | 0 | 1,145 | 0 | 1,401 | 0 | 1,165 | 0 | 1,347 | 0 | 1,189 | 0 | 1,196 | 0 | 1,188 | 0 | 1,218 |
| Service costs, 1-week impact | 0 | 1,145 | 0 | 1,401 | 0 | 1,165 | 0 | 1,347 | 0 | 1,189 | 0 | 1,196 | 0 | 1,188 | 0 | 1,218 |
| Service costs, 2-week impact | 0 | 1,145 | 0 | 1,401 | 0 | 1,165 | 0 | 1,347 | 0 | 1,189 | 0 | 1,196 | 0 | 1,188 | 0 | 1,218 |
| 1st bonus, no impact | 1,800 | 1,113 | 1,800 | 959 | 1,800 | 1,101 | 1,800 | 992 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1st bonus, 1-week impact | 1,800 | 1,113 | 1,800 | 959 | 1,800 | 1,101 | 1,800 | 992 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1st bonus, 2-week impact | 1,800 | 1,113 | 1,800 | 959 | 1,800 | 1,101 | 1,800 | 992 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

Table A.3 Services Participation Rates AFTER First 13 Weeks, by Group

| | E11 S00 | E11 S10 | E11 S11 | E10 S00 | E10 S10 | E10 S11 | E10 S00 | E10 S10 | E10 S11 | E01 S00 | E01 S10 | E01 S11 | E00 S00 | E00 S10 | E00 S11 | E00 S00 | E00 S10 | E00 S11 | |
|---|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|-------|
| <i>i1</i> | 0.000 | 0.000 | 0.019 | 0.045 | 0.000 | 0.000 | 0.000 | 0.049 | 0.023 | 0.000 | 0.000 | 0.028 | 0.000 | 0.000 | 0.006 | 0.000 | 0.000 | 0.029 | 0.012 |
| <i>i2</i> | 0.000 | 0.000 | 0.358 | 0.491 | 0.000 | 0.000 | 0.000 | 0.309 | 0.477 | 0.000 | 0.000 | 0.111 | 0.000 | 0.000 | 0.833 | 0.000 | 0.000 | 0.278 | 0.821 |
| <i>i3</i> | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.029 | 0.000 | 0.000 | 0.000 | 0.032 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.016 | 0.017 |
| <i>i4</i> | 0.000 | 0.000 | 0.358 | 0.609 | 0.000 | 0.000 | 0.000 | 0.395 | 0.636 | 0.000 | 0.000 | 0.292 | 0.000 | 0.000 | 0.886 | 0.000 | 0.000 | 0.334 | 0.857 |
| <i>i5</i> | 0.000 | 0.000 | 0.019 | 0.000 | 0.000 | 0.000 | 0.000 | 0.086 | 0.068 | 0.000 | 0.000 | 0.056 | 0.000 | 0.000 | 0.002 | 0.000 | 0.000 | 0.064 | 0.007 |
| <i>c18</i> | 0.000 | 0.000 | 0.132 | 0.064 | 0.000 | 0.000 | 0.000 | 0.123 | 0.182 | 0.000 | 0.000 | 0.236 | 0.000 | 0.000 | 0.030 | 0.000 | 0.000 | 0.141 | 0.036 |
| Training | 0.000 | 0.000 | 0.528 | 0.400 | 0.000 | 0.000 | 0.000 | 0.444 | 0.227 | 0.000 | 0.000 | 0.542 | 0.000 | 0.000 | 0.105 | 0.000 | 0.000 | 0.545 | 0.133 |
| Baseline costs for group, 2nd period | | | | | | | | | | | | | | | | | | | |
| Service costs, no impact | 0 | 0 | 1,200 | 639 | 0 | 0 | 1,200 | 661 | 661 | 0 | 0 | 1,343 | 1,112 | 0 | 0 | 1,330 | 1,153 | 1,330 | 1,153 |
| Service costs, 1-week impact | 0 | 0 | 1,200 | 639 | 0 | 0 | 1,200 | 661 | 661 | 0 | 0 | 1,343 | 1,112 | 0 | 0 | 1,330 | 1,153 | 1,330 | 1,153 |
| Service costs, 2-week impact | 0 | 0 | 1,200 | 639 | 0 | 0 | 1,200 | 661 | 661 | 0 | 0 | 1,343 | 1,112 | 0 | 0 | 1,330 | 1,153 | 1,330 | 1,153 |
| 2nd bonus, no impact | 1,200 | 742 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2nd bonus, 1-week impact | 1,200 | 742 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2nd bonus, 2-week impact | 1,200 | 742 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Alternative costs for group, 2nd period | | | | | | | | | | | | | | | | | | | |
| Service costs, no impact | 0 | 0 | 1,200 | 639 | 0 | 0 | 1,200 | 661 | 661 | 0 | 0 | 1,343 | 1,112 | 0 | 0 | 1,330 | 1,153 | 1,330 | 1,153 |
| Service costs, 1-week impact | 0 | 0 | 1,200 | 639 | 0 | 0 | 1,200 | 661 | 661 | 0 | 0 | 1,343 | 1,112 | 0 | 0 | 1,330 | 1,153 | 1,330 | 1,153 |
| Service costs, 2-week impact | 0 | 0 | 1,200 | 639 | 0 | 0 | 1,200 | 661 | 661 | 0 | 0 | 1,343 | 1,112 | 0 | 0 | 1,330 | 1,153 | 1,330 | 1,153 |
| 2nd bonus, no impact | 1,200 | 742 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2nd bonus, 1-week impact | 1,200 | 742 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2nd bonus, 2-week impact | 1,200 | 742 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total group PRA spending | | | | | | | | | | | | | | | | | | | |
| Baseline (no impact) | 3,000 | 3,000 | 3,000 | 3,000 | 1,800 | 2,266 | 3,000 | 3,000 | 3,000 | 0 | 1,189 | 1,343 | 2,308 | 0 | 1,188 | 1,330 | 2,371 | 2,371 | 2,371 |
| Baseline (1-week impact) | 3,000 | 3,000 | 3,000 | 3,000 | 1,800 | 2,266 | 3,000 | 3,000 | 3,000 | 0 | 1,189 | 1,343 | 2,308 | 0 | 1,188 | 1,330 | 2,371 | 2,371 | 2,371 |
| Baseline (2-week impact) | 3,000 | 3,000 | 3,000 | 3,000 | 1,800 | 2,266 | 3,000 | 3,000 | 3,000 | 0 | 1,189 | 1,343 | 2,308 | 0 | 1,188 | 1,330 | 2,371 | 2,371 | 2,371 |
| Alternative (no impact) | 3,000 | 3,000 | 3,000 | 3,000 | 1,800 | 2,266 | 3,000 | 3,000 | 3,000 | 0 | 1,189 | 1,343 | 2,308 | 0 | 1,188 | 1,330 | 2,371 | 2,371 | 2,371 |
| Alternative (1-week impact) | 3,000 | 3,000 | 3,000 | 3,000 | 1,800 | 2,266 | 3,000 | 3,000 | 3,000 | 0 | 1,189 | 1,343 | 2,308 | 0 | 1,188 | 1,330 | 2,371 | 2,371 | 2,371 |
| Alternative (2-week impact) | 3,000 | 3,000 | 3,000 | 3,000 | 1,800 | 2,266 | 3,000 | 3,000 | 3,000 | 0 | 1,189 | 1,343 | 2,308 | 0 | 1,188 | 1,330 | 2,371 | 2,371 | 2,371 |
| Baseline cost (no impact) | 480 | 309 | 3 | 7 | 153 | 106 | 5 | 6 | 6 | 0 | 33 | 2 | 26 | 0 | 133 | 23 | 176 | 23 | 176 |
| Baseline cost (1-week impact) | 501 | 321 | 4 | 9 | 161 | 112 | 5 | 7 | 7 | 0 | 28 | 2 | 25 | 0 | 130 | 23 | 175 | 23 | 175 |
| Baseline cost (2-week impact) | 518 | 332 | 4 | 11 | 168 | 119 | 6 | 9 | 9 | 0 | 24 | 2 | 23 | 0 | 126 | 23 | 173 | 23 | 173 |
| Alternative cost (no impact) | 480 | 309 | 3 | 7 | 153 | 106 | 5 | 6 | 6 | 0 | 33 | 2 | 26 | 0 | 133 | 23 | 176 | 23 | 176 |
| Alternative cost (1-week impact) | 501 | 321 | 4 | 9 | 161 | 112 | 5 | 7 | 7 | 0 | 28 | 2 | 25 | 0 | 130 | 23 | 175 | 23 | 175 |
| Alternative cost (2-week impact) | 518 | 332 | 4 | 11 | 168 | 119 | 6 | 9 | 9 | 0 | 24 | 2 | 23 | 0 | 126 | 23 | 173 | 23 | 173 |

Table A.4 PRA Simulation Based on Top 30 Percent According to New Profiling Model Alternative with Prices set at Half (Items in Bold May be Changed to Compute Alternate Simulations)

| Service variable | Description | Baseline prices (\$) | Enter alternative (\$) | Change (\$) |
|------------------|---------------------------------------|----------------------|------------------------|-------------|
| <i>i1</i> | Service coordination | 356 | 178 | -178 |
| <i>i2</i> | Customer service plan | 356 | 178 | -178 |
| <i>i3</i> | In-depth assessment | 712 | 356 | -356 |
| <i>i4</i> | Counseling | 712 | 356 | -356 |
| <i>i5</i> | Expanded workshop | 712 | 356 | -356 |
| <i>c18</i> | Referred to supportive services | 1,068 | 534 | -534 |
| Training | Training | 1,424 | 712 | -712 |
| | PRA offer amount or WBA Multiple (*1) | 3,000 | 3,000 | 0 |
| | Georgia PRA budget allocation amount | 85,320,000 | 85,320,000 | 0 |
| | Simulation results: | Baseline (\$) | Alternative | Change |
| | Total cost per offer (no impact) | 1,463 | 1,253 | -210 |
| | Total cost per offer (1-week impact) | 1,502 | 1,296 | -206 |
| | Total cost per offer (2-week impact) | 1,538 | 1,337 | -202 |
| | Maximum offers (no impact) | 58,317 | 68,111 | 9,794 |
| | Maximum offers (1-week impact) | 56,801 | 65,841 | 9,039 |
| | Maximum offers (2-week impact) | 55,467 | 63,833 | 8,366 |

(*1) When entering a dollar amount, minimum offer is \$1500 and maximum is \$3000. If amount entered does not fall within that range, no simulation will be performed. If entering WBA multiple and resulting PRA offer does not fall within that range, no simulation will be performed.

References

- Blank, Rebecca, and David Card. 1991. "Recent Trends in Insured and Uninsured Unemployment: Is There and Explanation?" *Quarterly Journal of Economics* 106 (4): 1157–1189.
- Decker, Paul T., Christopher J. O'Leary, and Stephen A. Woodbury. 2001. "Impacts on Employment and Earnings." In *Reemployment Bonuses in the Unemployment Insurance System: Evidence from Three Field Experiments*, Philip K. Robins and Robert G. Spiegelman, eds. Kalamazoo, MI: W.E. Upjohn Institute for Employment Research, pp: 151–174.
- Decker, Paul T., and Irma Perez-Johnson. 2004. "Individual Training Accounts." In *Job Training Policy in the United States*, Christopher J. O'Leary, Robert A. Straits, and Stephen A. Wandner, eds. Kalamazoo, MI: W.E. Upjohn Institute for Employment Research.
- Eberts, Randall W., and Christopher J. O'Leary. 2002. "A Frontline Decision Support System for Georgia Career Centers." Upjohn Institute working paper 02-84. Kalamazoo, MI: W.E. Upjohn Institute for Employment Research.
- Executive Office of the President, Council of Economic Advisers. 2003. *Economic Report of the President*. Washington DC: U.S. Government Printing Office.
- Lawrence, John K. 2003. "Georgia Share of PRA," February 3, 2003 memorandum to Milton Martin and Helen Parker from the Deputy Director of Workforce Information and Analysis Division. Atlanta: Georgia Department of Labor.
- Leigh, Duane E. 1995. *Assisting Workers Displaced by Structural Change: An International Perspective*. Kalamazoo, MI: W.E. Upjohn Institute for Employment Research.
- Meyer, Bruce D. 1995. "Lessons from the U.S. Unemployment Insurance Experiments." *Journal of Economic Literature* 33(1): 91–131.
- O'Leary, Christopher J. 2004. "Effectiveness of Labor Exchange Services." In *Labor Exchange Policy in the United States*, David E. Balducchi, Randall W. Eberts, and Christopher J. O'Leary, eds. Kalamazoo, MI: W.E. Upjohn Institute for Employment Research, pp. 135–177.
- O'Leary, Christopher J., Paul T. Decker, and Stephen A. Wandner. Forthcoming. "Cost-Effectiveness of Targeted Reemployment Bonuses." *Journal of Human Resources*.
- Robins, Philip K., and Robert G. Spiegelman, eds. 2001. *Reemployment Bonuses in the Unemployment Insurance System: Evidence from Three Field Experiments*. Kalamazoo, MI: W.E. Upjohn Institute for Employment Research.

Woodbury, Stephen A., and Robert G. Spiegelman. 1987. "Bonuses to Workers and Employers to Reduce Unemployment: Randomized Trials in Illinois." *American Economic Review* 77 (4): 513–530.

Woodbury, Stephen A., and Murray Rubin. 1997. "The Duration of Benefits." In *Unemployment Insurance in the United States: Analysis of Policy Issues*, Christopher J. O'Leary and Stephen A. Wandner, eds. Kalamazoo, MI: W.E. Upjohn Institute for Employment Research, pp: 211–283.