

1 Chapter 5
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4 **Short-Run Output and Employment Effects**
5 **Arising from Assistance to Tourism SMEs:**
6 **Evidence from Israel**
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14 **Introduction**
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16 To a great extent, tourism small firms share much in common the general small business
17 population. Barriers to entry are low, activities generally center on niche markets, the
18 entrepreneur is the center of the small firm universe and personal equity capital is likely
19 to form the initial resources of the business. Furthermore, tourism SME's like other
20 small firms invariably have a distinct local orientation. They are likely to be locally
21 owned, consume local inputs and generate larger local multipliers than larger enterprises.
22 More than anything else however, interest in tourism SME's has been centered on their
23 perceived employment benefits (Hudson & Townsend 1992; Wanhill 2000). Public support
24 for small tourism enterprises is often couched in terms of creating job opportunities to
25 deal with cyclical unemployment, diversifying economic opportunities and generating
26 supplementary income. Small tourism enterprises ranging from family lodgings, through
27 low-investment recreation operators (jeep rides, cycling trails) to traditional food and
28 transportation activities (country restaurants, guided tours, etc.) are often viewed as having
29 under-utilized capacity. When demand picks up they can easily assimilate under-used
30 resources, accommodating extra labor without the need for extra investment. In this way,
31 assistance for small tourism business should yield positive employment effects.
32

33 But do small tourism firms really warrant a plethora of dedicated assistance programs
34 aside from the regular arsenal available to small firms? Is their response to public support
35 schemes any more pronounced than that of the general small firm population? This chapter
36 endeavors to answer these questions by comparing the short-run effects of an assistance
37 program on small tourism firms and a sample of other similar (non-tourism) small firms.

38 The attention given in the literature to the employment effects of small firms (for a
39 review and critique see Davis *et al.* 1996), often means a neglect of other indicators of
40 SME performance such as output growth and productivity. In the context of assistance
41 programs, the effects on different performance measures, such as employment and output
42

1 are of course linked. Capital assistance to small firms can result in differing short-run
 2 impacts on firm output and employment. This chapter investigates whether these effects are
 3 more pronounced in the context of small tourism firms. Our a-priori hypothesis is that small
 4 tourism firms respond even more vigorously than other small firms to assistance programs
 5 in the area of employment over the short run because of the immediate absorption capacity
 6 of small scale tourism activity. In terms of output however, we do not expect to find any
 7 differences in short-run effects. Assuming a u-shaped short run cost function common to all
 8 small firms, there is no reason to believe that a small tourism firm's output rate will respond
 9 any differently to a sudden injection of capital to that of any other small firm.

10 These hypotheses are tested empirically below using a unique data set of small firms that
 11 were recipients of public assistance via a nation-wide small firms loan guarantee program,
 12 over the period 1993–1995. Distinguishing between small tourism firms and other small
 13 firms, the data set includes performance indicators collected from the firms on the basis of
 14 site visits both before and after receipt of assistance thereby adding a measure of actual
 15 short-run performance change. The chapter proceeds by setting up a simple model of output
 16 and employment response to capital assistance and estimating its results.

19 **Assistance Programs for Tourism SMEs**

21 The promotion of tourism small business is inevitably linked to the creation of local
 22 employment and output. However, the case for public support of tourism SME's is not
 23 unequivocal. On the one hand the typical tourism SME such as a bed and breakfast operation
 24 is perceived as having low barriers to entry and employing existing and under-utilized
 25 capital. This relates to both fixed and human capital. Assisting such an effort would
 26 seem to be promoting the highest and best use for local resources. On the other hand,
 27 the small-scale character of these operations can often render them marginal in terms of
 28 effecting any real local or regional economic change (Fleischer & Felsenstein 2000).

29 Furthermore, while much of the public rhetoric for assisting tourism SME's is bound
 30 up with employment creation, small-scale tourism is also charged with creating low-wage
 31 and seasonal employment in weak and unstable markets (Fredrick 1993; Shaw & Williams
 32 1990). The same is true for claims relating to new tourism SME output. Some claim that
 33 new tourism small firms simply serve to displace or uproot existing output in the tourism
 34 market (Hoy 1996). In fact, nearly all the arguments for assisting small tourism activities are
 35 met with counter arguments opposing such activity. Small scale tourism as a local revenue
 36 source is challenged by claims that it is revenue-draining and a burden on the local service
 37 base. The claim that much small-scale tourism is environmentally sustainable is matched
 38 with the charge that it depletes valuable and finite resources.

39 A familiar array of instruments is available for assisting small tourism enterprises. On the
 40 supply side, capital assistance (grants and loans), tax concessions, business and management
 41 advice and tourism incubators are available (Fleischer 1999; Wanhill 2000). On the demand
 42 side, marketing efforts, local vacation campaigns, preferences for local content and input
 43 suppliers and the development of "export" (i.e. non-local markets) through visitor exchange
 44 programs are all utilized (Gibson 1993). While all of these mediate the failure of markets in
 45 the tourism sector in one way or another (failure in capital markets, asymmetric information

1 and so on), none of them directly address the issue of risk associated with the small firm.
2 Intuitively, this factor is considered a barrier to assisting small firms, which are perceived
3 as likely to fail over time. However, Wren (1998) has shown that in fact smaller and newer
4 firms are more responsive to assistance and that the risk involved in supporting them is
5 therefore minimized.

6 One financial assistance instrument that directly addresses the small firm risk issue
7 is the loan guarantee. Using this instrument, the onus of loan recovery is shifted to the
8 loan guarantor (generally a public agency) and in this way the risk associated with small
9 firm lending is mediated. The stereotypical small tourism enterprise operating in unstable
10 markets, invariably under-capitalized and with weak management skills is particularly
11 exposed to risk with all the concomitant difficulties in capital markets. Rather than attach
12 a subsidy directly to the borrower (the small firm), the loan guarantee program changes the
13 behavior of lenders encouraging them to lend to firms they would not otherwise consider.
14 In this respect, the program represents the operation of a “second best” decision rule under
15 conditions of market failure.

16 Analyses of the effectiveness of loan guarantee programs point to their relative cost-
17 effectiveness and their ability to deliver assistance on the basis of area targeting (Cowling
18 & Clay 1994; Harrison & Mason 1986). However, as in all assistance schemes, the litmus
19 test lies in the true “additionality” of the subsidy and the extent to which the small firm
20 would not have found any alternative in the absence of the assistance. The higher risk the
21 market, the more likely this condition will be fulfilled. High levels of uncertainty associated
22 with small tourist enterprises imply that assistance is less likely to be “deadweight.”
23
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25 **Modeling the Output and Employment Effects of a Capital** 26 **Assistance Program**

27
28 While a firm receiving capital subsidy is expected to register an increase in output, the
29 impact of assistance on employment is ambiguous. The standard approach to looking at
30 the effect of a capital subsidy is to assume a substitution effect. Upon receipt of assistance
31 labor becomes relatively more expensive than capital and firms will tend use relatively
32 less workers per unit of capital. An output effect can arise if the capital subsidy reduces
33 average costs allowing the firm to produce additional output at a fixed cost level. While the
34 substitution effect clearly reduces demand for labor, the effect of additional capital is less
35 clear. If the output effect is greater than the substitution effect a capital assistance program
36 can result in increased demand for labor. If the opposite is the case and the substitution
37 effect is greater than the output effect, the result is less determinate: employment may both
38 increase and decrease with capital assistance program (Swales 1981).

39 Our approach is to model output and employment effects as separate but structurally
40 linked phenomena. By modeling the optimum output level of the firm with respect to
41 capital and labor, we estimate the adjustment in output resulting from the capital assistance
42 program. This is done while distinguishing between tourism firms and all “other” firms. We
43 then proceed to model new employment as a function of previous employment and additional
44 capital (i.e. the assistance program), differentiating again between tourism SME’s and the
45 other recipients of assistance. These models can be empirically tested and enable us to

1 investigate the differences in the adjustment processes between tourism firms and other
2 small firms.

3 4 5 **Output Effects**

6
7 In order to estimate the impact of the assistance on output we assume the following
8 production function:

$$9 \quad Q_{ij} = f(K_{ij}, E_{ij}) \quad (1)$$

10
11 where: Q_{ij} is the level of output for firm i in sector j , $j = 1, \dots, m$ (in our case $m = 2$, i.e.
12 tourism and other firms), K_{ij} is the level of capital for firm i in sector j , E_{ij} is the level of
13 employment for firm i in sector j .

14 Change in the output level, dQ_{ij} can be written as follows:

$$15 \quad dQ_{ij} = f_j^k dK_{ij} + f_j^e dE_{ij} \quad (2)$$

16
17 where f_j^k and f_j^e are the partial derivatives of Q with respect to K and E respectively. f_j^k and f_j^e
18 are constant for each sector in competitive markets. Under the assumption of a competitive
19 market, firms from all sectors face same price for capital (r) and labor (w) while firms from
20 sector j face the same product price (p_j). In equilibrium, the value of the marginal product
21 of input equals the input price. Thus, the following equations hold:

$$22 \quad f_j^k = \frac{r}{p_j} \quad (3)$$

$$23 \quad f_j^e = \frac{w}{p_j} \quad (4)$$

24
25 Based on Equations (1)–(4), Equation (5) is estimated. For our purpose, we assume two
26 sectors, tourism and other. Accordingly, the dummy variable (D) equals 1 if the firm
27 belongs to the tourism sector and 0 otherwise. The coefficients in Equation (5) are the
28 partial derivatives of the output with respect to capital and labor. The dummy variable
29 allows variability of the coefficient between the two sectors. In our case, a significant
30 positive (negative) coefficient of the dummy variables means that the marginal product of
31 labor or capital in the tourism sector is higher (lower) than the other sectors. In order to
32 get values per worker, both sides of the equation are divided by E .

$$33 \quad \frac{dQ}{E} = f^k \left(\frac{dK}{E} \right) + f^k D \left(\frac{dK}{E} \right) + f^e \left(\frac{dE}{E} \right) + f^e D \left(\frac{dE}{E} \right) \quad (5)$$

34 35 36 37 38 39 40 **Employment Effects**

41
42 Equation (5) allows us to assess the contribution of the assistance program to output. Since
43 one of the major justifications for assistance programs such as the current is the need
44 to create jobs, it is also necessary to focus on the employment impacts of SME support
45 programs.

1 Wren & Waterson (1991) develop a framework to compare the employment impact of dif-
 2 ferent industrial assistance programs. This is based on a combination of two frequently-used
 3 approaches. The first, in line with the current paper, is based on modeling the optimization
 4 problem of the firm. The second specifies the employment level as a loosely defined
 5 function including variables that theory dictates are likely to affect the level of employment.

6 Starting from the second approach we can write the partial adjustment model for firm
 7 employment in any sector j in the following form:

$$8 \quad E_t - E_{t-1} = \lambda(E_t^* - E_{t-1}) + u_t \quad (6)$$

9 where: E_t is the level of employment in time t , E_t^* is the planned level of employment, λ is
 10 an adjustment coefficient, $0 \leq \lambda \leq 1$, u_t is random error.

11 The difference between E_t^* and E_{t-1} is comprised of L^* and some proportion of E_{t-1} :

$$12 \quad E_t^* - E_{t-1} = L_t^* - \delta E_{t-1} \quad (7)$$

13 where: L^* is the planned level of employment to be induced by the assistance program, δ
 14 is the proportion of redundant employment expected to be absorbed due to the assistance
 15 program.

16 The relationship between L^* and the receipt of financial assistance is derived from the
 17 structural model depicted in Equation (1). Dividing Equation (3) by Equation (4) produces
 18 the following relationship between additional labor and level of assistance.

$$19 \quad \frac{f_j^k}{f_j^e} = \frac{r}{w} \quad (8)$$

20 Using our notation where L^* is the additional labor and K^* additional capital and assuming
 21 a homothetic production function leads to the following:

$$22 \quad \frac{K^*}{L^*} = \alpha \quad (9)$$

23 where α is a constant ratio between the capital and labor since in a homothetic production
 24 function the firm expands along a ray. α is a parameter that depends on r , w and the firm's
 25 production technology.

26 Additional capital (K^*) can come from the assistance program (AP) and/or private funds.
 27 Since we want to investigate the impact of the assistance program we assume that additional
 28 capital comes solely from the program and thus K^* equals AP.

$$29 \quad K^* = AP \quad (10)$$

30 By substituting (10) into (9), (9) into (7) and (7) into (6) and rearranging, we get the following
 31 equation:

$$32 \quad E_t = \left(\frac{\lambda}{\alpha}\right) AP + (1 - \lambda\delta)E_{t-1} + u_t \quad (11)$$

33 Following Wren & Waterson (1991), the equation for estimation equation takes the following
 34 form:

$$35 \quad E_t = a + bAP + cE_{t-1} + dD + u_t \quad (12)$$

1 where a , b , c and d are the estimated coefficients and D is a dummy variable with a value
2 of 1 if the firm is in the tourism sector and 0 otherwise.

5 **The Assistance Program and Data**

7 The small firms assistance program examined here is the national small firms Loan Guarante
8 Program (LGP). This was initiated in 1991 in response to the mass immigration of Jews
9 from the former USSR, the specter of large-scale unemployment and a general public sector
10 infatuation with the role of SME's as job generators. The program was administered jointly
11 by the national Small Business Authority and a local commercial bank. Loan terms offered
12 up to \$165,000 over a 5-year period with 100% loan guarantee provided by the government
13 (80%) and the commercial bank (20%), respectively. Cost-of-living linked interest rates
14 rose over the period 1993–1995 from 3.75 to 5.35%. All authorized loans needed to be
15 backed by personal funds to the extent of 25% of the loan with assets of the small business
16 acting as loan collateral.

17 Table 1 presents basic indicators of the operation of the loan guarantee scheme over the
18 period 1993–1995. This is the period covered in our empirical analysis and represents the
19 most active years of the program. As can be seen, the average size of the loan was less than
20 half of the loan ceiling. While more than 5,500 loan applications were submitted, some
21 44% were authorized. The level of actual loan utilization (loan materializations as a share
22 of loan authorizations) was even lower and stood over the study period at 39%. The sectoral
23 distribution of loan authorizations closely reflected the sectoral distribution of small firms
24 in the economy (42–46% of authorizations) industry (33–39%) with tourism SME's in third
25 place (8–10%).

26 The empirical data used below represents a unique longitudinal sample of 285 firms that
27 received assistance over the period 1993–1995. The data were collected by a management
28 consulting firm mandated by the government to monitor the program. All firms that received
29 government guarantees were visited at least once by the consulting company, subsequent to
30 having received assistance. This visit took place roughly two years after receiving the loan
31 guarantee and represents our short-run time frame. The data set therefore contains output
32 and employment observations for each firm both before and after receiving assistance.

34 Table 1: National small firms loan guarantee fund — basic indicators 1993–1995.

| | 1993 | 1994 | 1995 |
|-------------------------------------------------|-------------|-------------|-------------|
| 38 Requests submitted | 1529 | 2265 | 1767 |
| 39 No. of guarantees authorized | 588 | 1190 | 665 |
| 40 Total value of guarantees authorized | 140 | 265 | 170 |
| 41 Total value of guarantees materialized (\$m) | 26.5 | 31.4 | 19.1 |
| 42 Average value of guarantee (\$ Th) | 83.5 | 74.3 | 75 |
| 43 Anticipated employment increase | 2596 | 6109 | 2950 |
| 44 Loan period (months) | 60 | 60 | 60 |

1 While the loans were administered over the period 1993–1995, the monitoring process for
2 this period extended up to 1998.

3 Table 2 presents a description of these variables and their summary statistics for the entire
4 sample and for the sub-groups of tourism SME's and others. The variables relate to output
5 and employment before and after receipt of assistance, level of assistance and period of
6

7 Table 2: variable description and summary statistics by sectors.
8

| 9 Variable | Description | Total Sample | Tourism | Other |
|---------------|---------------------------------------------------------------------------------------------------------|----------------|---------------|----------------|
| 11 emp_t-1 | Number of employees 12 before receiving 13 assistance | 5.78 (8.2) | 6.16 (9.5) | 5.74 (8.1) |
| 14 emp_t* | Number of employees 15 after receiving 16 assistance | 10.77 (15.6) | 19.84 (19.3) | 9.91 (15.0) |
| 17 emp_d* | Increase (decrease) in 18 number of employees 19 after receiving 20 assistance | 5.69 (7.1) | 12.57 (15.0) | 5.08 (5.6) |
| 21 Assist | Level of assistance 22 (000' \$) | 82.7 (61.6) | 89.4 (61.2) | 82.0 (61.6) |
| 23 emp_d_w | Rate of increase 24 (decrease) in 25 employees after 26 receiving assistance | 0.56 (1.6) | 1.06 (1.4) | 0.53 (1.6) |
| 27 assist_w | Level of assistance 28 per worker | 49.32 (63.5) | 21.58 (17.0) | 50.91 (46.7) |
| 29 output_t-1 | Annual output before 30 receiving assistance 31 (000'\$) | 252.8 (424.6) | 160.6 (296.3) | 262.1 (516.6) |
| 32 output_t | Annual output after 33 receiving assistance 34 (000'\$) | 733.3 (1042.6) | 695.3 (856.0) | 736.6 (1195.6) |
| 35 output_d_w | Increase (decrease) in 36 annual output after 37 receiving assistance, 38 per employ (000' \$) | 74.1 (131.4) | 36.1 (31.8) | 76.5 (135.0) |
| 39 No_months | Number of months 40 between receiving 41 assistance to 42 monitoring visit | 26.9 (12.6) | 25.1 (14.3) | 27.1 (12.5) |

44 Note: Standard deviations are in parentheses.

45 *Means are significantly different at 5%.

1 time that elapsed between receipt of assistance and the post-assistance monitoring visit. A
 2 difference of means test was also performed to see if statistical differences exist across mean
 3 values for the tourism small firms vs. the rest. As can be seen, ex ante, there are no significant
 4 differences across the two sets of firms in terms of employment output and size of assistance.
 5 The only significant difference relates to the ex-poste employment size of the firm.

8 **Results**

10 In the first instance, we estimate Equation (5) (above), empirically testing the adjustment of
 11 output per worker as a function of the marginal product of capital and labor. The estimated
 12 coefficients appear in Table 3. They show that while the marginal product of labor is lower in
 13 the tourism firms than in the rest (the coefficient of the dummy is negative and significant),
 14 the marginal product of capital is the same. Under the assumption of competitive labor
 15 market, i.e. all sectors face the same price of labor and decreasing marginal product, lower
 16 marginal product in the tourism sector means that it employs more workers than the other
 17 sectors. However, the marginal product of capital is the same. Thus, if we expect the capital
 18 assistance program to increase output, tourism small firms do not seem to have any advantage
 19 over other firms. Public assistance may increase output, but there is no a priori case for
 20 assuming this will be more pronounced in the tourism sector than in any other sector.

21 The role of the “number of months” variable is to normalize the time frame for the
 22 different firms. The time period between receiving the assistance and the follow up visit
 23 varies across firms and since we assume there is an adjustment or maturation process we
 24 expect that the longer the time period the greater the increase in output. As to be expected
 25 this is positive and significant. It can also be interpreted as the time period for absorbing

27 Table 3: Model estimates for change in output per worker.

| 29 Variable | 30 Coefficient |
|--------------------------------|-----------------------|
| 31 emp_d_w | 126.8* |
| 32 emp_d_w_dummy ^a | -143.7* |
| 33 assist_w | 2.06* |
| 34 assist_w_dummy ^b | 0.9 |
| 35 no_months | 5.3* |
| 36 Constant | -896* |
| 37 | |
| 38 No. of observations | 165 |
| 39 R^2 | 0.6 |

41 ^aemp_d_w multiplied by the sector dummy variable; this receives the value of 1 if the firm is in the
 42 tourism sector and 0 otherwise.

43 ^bassist_w multiplied by the sector dummy variable; this receives the value of 1 if the firm is in the
 44 tourism sector and 0 otherwise.

45 *Significant at 5%.

Table 4: Model estimates for change in employment level.

| Variable | Coefficient |
|---------------------|-------------|
| emp_t-1 | 1.01* |
| Assist | 0.01* |
| Dummy ^a | 9.6* |
| no_months | 0.13* |
| Constant | -2.2 |
| No. of observations | 285 |
| R ² | 0.42 |

^aSector dummy: 1 if firm is in the tourism sector and 0 otherwise.

*Significant at 5%.

public assistance. The coefficient seems to suggest that it is not simply the magnitude of assistance that is important for increasing SME output but also the way this resource is utilized.

The results of the effect of the capital assistance program on employment change (Equation (12)) are presented in Table 4. This estimates, ex poste, employment as a function of the pre-assistance employment level, additional capital (assumed to come solely from the assistance program) a sector dummy and the amount of time elapsed since receipt of assistance. As can be seen, all coefficients are positive and significant. This means the larger the firm (in employment terms) at the time of filing the request, the greater the level of assistance and the longer the time interval between request and follow up visit, the greater the employment effect. The positive and significant coefficient for the tourism dummy implies that *ceteris paribus*, capital assistance to tourism firms has a greater employment impact than to other firms. This result is in accordance with the smaller magnitude of marginal product of labor reported in Table 3. In both cases, but from different angles, we can see that in the short-run adjustment process, tourism firms will increase their labor input faster than other firms and thus register higher impacts on employment.

Similar to the output adjustment process, the change in employment level is found to be significantly related to the time-frame over which the capital assistance is absorbed by the firm. As above, while the main object of this variable is to standardize the time frame while estimating the capital and labor impacts, it does convey information on the adjustment process. Just as an increase in output does not adjust immediately to the stimulus of additional capital, a similar result is likely in employment which will increasing over time.

Conclusions

This chapter has endeavored to address the question of whether tourism SME's respond any more vigorously to public assistance than other small firms over the short run. Our hypotheses relating to the employment and output effects of tourism enterprises would

1 seem to be upheld. Capital assistance seems to simulate a greater reaction in the tourism
 2 firms in employment than it does in output. Assuming no other sources of additional capital,
 3 a public sector subsidy will increase tourism small firm employment more than employment
 4 in other firms but will not simulate any significant differences in output. This could be due
 5 to two reasons. First, tourism is a labor-intensive industry and customers expect to be served
 6 by people rather than machines. Second, the seasonal nature of tourism forces small firms
 7 to choose a technology which enables them to costlessly adjust to fluctuations in customer
 8 demand. Adjustments to labor, especially non-skilled labor, seem to be best suited for this
 9 purpose and thus tourism SME's opt for labor-intensive technology.

10 These findings also have bearing on the wider issue of justification for special assistance
 11 programs for tourism SME's outside the framework of general small business support.
 12 Based on the loan guarantee program examined here, our results indicate that public support
 13 enables those small firms to increase capital, that otherwise would not have been able to
 14 do so. This additional capital induces a higher increase in the level of employment in the
 15 tourism sector than in the other sectors. The impact on level of output however is the same
 16 across sectors. Thus, in a situation where the employment is a major public policy concern,
 17 preference for a dedicated tourism small firm assistance program may be warranted. This
 18 assumes that firms are small enough and that there is demand for their expansion.

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