# Measurement of Human Service Staff Satisfaction: Development of the Job Satisfaction Survey:

Paul E. Spector<sup>2</sup>

University of South Florida

The development of the Job Satisfaction Survey (JSS), a nine-subscale measure of employee job satisfaction applicable specifically to human service, public, and nonprofit sector organizations, is described. The item selection, item analysis, and determination of the final 36-item scale are also described, and data on reliability and validity and the instrument's norms are summarized. Included are a multitrait-multimethod analysis of the JSS and the Job Descriptive Index (JDI), factor analysis of the JSS, and scale intercorrelations. Correlation of JSS scores with criteria of employee perceptions and behaviors for multiple samples were consistent with findings involving other satisfaction scales and with findings from the private sector. The strongest correlations were with perceptions of the job and supervisor, intention of quitting, and organizational commitment. More modest correlations were found with salary, age, level, absenteeism, and turnover.

Job satisfaction of employees is a topic that has received considerable attention by researchers and practitioners alike. Locke (1976) has calculated that at least 3,350 articles had been written on the topic by 1972. Extending his calculations to 1985 yields an estimate of 4,793. In all of these writings, relatively little can be found about the human service employee. Sarata in 1974 was able to find fewer than 20 studies concerned with human services, mostly with nurses. Several years later Dehlinger and Perlman (1978) could find only a few others and called human service employees "industry's forgotten

<sup>&</sup>lt;sup>1</sup>The author extends his appreciation to Charles E. Michaels who collected several of the samples described in this paper. The author would appreciate Job Satisfaction Survey users sharing results.

<sup>&</sup>lt;sup>2</sup>All correspondence should be addressed to Paul E. Spector, Department of Psychology, University of South Florida, Tampa, Florida 33620.

Measurement of Satisfaction

staff," at least as far as their job satisfaction is concerned. During the late 1970s interest in human service workers' job satisfaction began to increase with research concerned with comparisons to industrial workers (e.g., Cherniss & Egnatios, 1978; Frontz, 1978; Zaharia & Baumeister, 1979) and causes of satisfaction (e.g., Dorr, Honea, & Pozner, 1980; Folkins, O'Reilly, Roberts, & Miller, 1977; Sarata, 1977; Spector & Marlowe, 1983).

sion based on available evidence that job satisfaction is not consistently asresults generalize to human services. For example, it is a widely held conclusatisfaction in their human service samples than the norms of the instruments, and Zaharia and Baumeister (1979) using the Job Descriptive Index, JDI tion to human service organizations in general. Cherniss and Egnatios (1978) services, making it impossible to compare a given human service organizaganizations, generalizations must still be made from industrial findings in ployee performance (Wiggins & Moody, 1983) and client outcomes (Buffum services, however, there is evidence that satisfaction is associated with emsociated with job performance (e.g., Locke, 1976; Vroom, 1964). In human with many variables studied in industrial organizations, it is unclear how well but it is difficult to know how typical these results might be. Furthermore, faction Questionnaire (Weiss, Davis, England, & Lofquist, 1967) found lower (Smith, Kendall, & Hulin, 1969), and Frontz (1978) using the Minnesota Satismany areas. Norms for existing job satisfaction scales do not reflect human & Konick, 1982; Schwartz & Will, 1961). It is indeed possible that findings with other variables will also be found to differ with human services. Despite the increased attention to job satisfaction in human service or-

cifically for human service, public, and nonprofit sector organizations, scale measures nine aspects of job satisfaction, which were chosen from a although it may be applicable to others as well. Although an existing scale review of the literature on job satisfaction dimensions. It was designed spefaction instrument, the Job Satisfaction Survey (JSS) was developed. This adequately cover all the areas of interest; for example, the JDI covers five subscales that were clearly distinct in their content. Existing scales did not in other types of organizations, and some items may not be directly applicaplicable specifically to human services. Most existing scales were developed reasons. First, it was intended that the content of the items should be apmight have been used in this research, a new scale was developed for three of the scale was a concern, and it was decided to keep the JSS under 40 items. that are included in the JSS but fails to cover four others. Finally the length the scale was intended to cover the major aspects of job satisfaction, with ly used JDI, a problem also noted by Buffum and Konick (1982). Second, ble. The current author has encountered difficulties of this type with the wide-To fill the need for an instrument for human services, a new job satis-

The development of the JSS was predicated on the theoretical position that job satisfaction represents an affective or attitudinal reaction to a job.

In the literature, job satisfaction is typically referred to as an emotional-affective response to a job or specific aspects of a job (Locke, 1976; Smith et al., 1969). Smith et al. postulated that satisfaction with various job aspects are derived from a cognitive process of comparing the existing job aspect with an individual's frame of reference. Locke (1976) distinguished three major approaches to the causes of job attitudes. They can derive from discrepancies between what the job offers and what the person expects, from the degree to which jobs fulfill individual needs, or from the degree of the exact causal mechanism, job attitudes arise from an interaction certain aspects of jobs should lead to satisfaction of particular job aspects. For example, level of pay should be related to satisfaction with pay, job scope should be related to satisfaction with pay, job scope

The attitudinal nature of satisfaction implies that an individual would tend to approach (or stay with) a satisfying job and avoid (or quit) a dissatisfying job. In the general attitudinal literature, attitudes have shown to relate to behavior, although correlations are typically modest. Withdrawal behavior, turnover and absenteeism, and withdrawal intentions are expected to correlate with satisfaction (Hom, Katerberg, & Hulin, 1979) and in fact do, as shown in research described below.

In the current research, job satisfaction was assumed to represent a cluster of evaluative feelings about the job, and the JSS was designed to measure them individually. It was also designed to give an overall attitude score as a combination of individual facets. Although it is not universally accepted that the overall attitude about a job is a combination of specific aspect attitudes, there is considerable empirical evidence that a linear combination of satisfaction aspects is an adequate overall satisfaction measure (Aldag & Brief, 1978; Quinn & Mangione, 1973; Wanous & Lawler, 1972).

This paper discusses the development of the JSS, including evidence for reliability and validity, provides norms for the instrument across 19 human service samples, and summarizes correlations of job satisfaction with other variables, which have been found in the literature to relate to job satisfaction. These variables include turnover (see reviews by Mobley, Griffeth, Hand, & Meglino, 1979; Porter & Steers, 1973), intentions of quitting the job (Kraut, 1975; Michaels & Spector, 1982; Mobley et al., 1979), perceived job characteristics (Hackman & Lawler, 1971; Hackman & Oldham, 1975), leadership style, specifically consideration (Downey, Sheridan, & Slocum, 1975), and absenteeism (Porter & Steers, 1973), although there is some controversy about absenteeism (Nicholson, Brown, & Chadwick-Jones, 1976). Personal characteristics also have been shown to relate to job satisfaction, but relationships have been weak and variable (Seashore & Taber, 1975). Age (Ronen, 1978), pay (Lawler, 1971), and organizational level (Locke & Whiting, 1974; Porter, 1961) are all included.

697

Measurement of Satisfaction

The remainder of this paper summarizes the research that has been done with the JSS in human service organizations. Additional work that has been done in other types of organizations is not discussed, with one exception. A multitrait-multimethod analysis with the JDI, conducted on a municipal public works sample is described briefly. Discussed as a single sample are administrations to 19 samples representing several dozen human service organizations. Several thousand employees in the public and nonprofit sectors participated in a large-scale study of job satisfaction with the JSS.

### METHOD

#### Subjects

8.8% of respondents omitted 1 or more JSS items) sample sizes varied across respondents who constituted 19 separate samples. Due to missing data (e.g., analyses, as will be indicated. Each sample represented a single study or adwere taken from the same organizations, between 12 and 18 months apart. al samples represented multiple organizations, and three pairs of samples ministration of the JSS, usually in combination with other instruments. Severand support personnel, including nurses, mental health counselors, social represented all levels from administrators and department managers to line hospitals, state social service departments, and nursing homes. They ganizations, including community mental health centers, state psychiatric Employees were all from human service, public, and nonprofit sector orand source of each sample. Table II indicates the additional variables colpersonnel. Table I summarizes the size, response rate, organizational type workers, clerks, secretaries, trainers, research specialists, and maintenance lected from each sample. The primary data summarized in this paper were collected from 3,148

One additional nonhuman service sample is presented to indicate discriminant and convergent validity. This sample consisted of 101 municipal public works employees. Both the JSS and JDI were administered to this sample.

#### Measures

Organizational Commitment. Commitment to the organization was measured with the Organizational Commitment Questionnaire (Mowday, Steers, & Porter, 1979). This instrument is a 15-item summated rating scale that measures an employee's commitment to the organization. For half the

		Cardinac of parishing	Carriface	
Cample	į.			Retu
Sample	"	Description	Source	rati
_	241	State welfare office	Michaels 1983	
2	92	Public health department	1717	0
ıs (	3	r work treatin department	Michaels, 1983	_
	63,	Mental nealth facility (state)	Michaels, 1983	ر ح
4	42	State juvenile detention department	Michaels, 1983	3 9
S	73	Food-stamp office		3 5
6	788	State social service office	Michael 1093	
7	83	Mental health clinic (nonprofit)	Michael 1000	. 0
<b>∞</b>	124	Mental health clinic (nonprofit)	Michaels, 1960	n/a
9	8	Mental health clinic (nonprout)	iviicnaeis & Spector, 1982	67
5	157	Mental health family (month only)	Author	62
- :	9 5	Mental health facility (state)	Author	71
ວ໌ 🗀	. 0	viental health clinic (nonprofit)	Spector & Michaels, 1983	49
; ;	110	State welfare office	Michaels, 1979	n/2
: 5	32	Mental health clinic (nonprofit)	Author	2 ;
14	93	Mental health facility (state)	Author	<b>3</b> 9
5	94	Mental health conference	Weinberg & Marlowe,	63 ;
<u></u>			1983	
i 5	193	State psychiatric hospital	Marlowe & Weinberg, 1983	100
1/	480	Nursing homes	Nelson, Mullins, Weiner,	00 100
6	3		& Busciglio, 1983	
5 6	2 0	Mental health clinic (nonprofit)	Author	63
<u>a</u>		Meillai lleath clinic (nonprofit)	Author	63

sample only two items from the scale were used. High scores represent high commitment.

Job Characteristics. The Job Diagnostic Survey (JDS; Hackman & Oldham, 1975) measures perceived characteristics of jobs. Six subscales were used including Skill Variety, Task Identity, Task Significance, Autonomy, Feedback from the Job, Feedback from Agents, and the composite Motivation Potential Score. High Scores on each of these subscales represent high levels of that characteristic.

Leader Behavior. The Leader Behavior Description Questionnaire (LBDQ; Stogdill, 1963) was used to measure perceptions of supervisory consideration. This subscale contains 10 descriptive statements, which indicate the level of supervisory concern with employee feelings and welfare. High

scores represent high levels of consideration.

Employee Withdrawal. Employee withdrawal was measured as turnover, intentions of quitting the job, and absenteeism. Intention of quitting was assessed with one question, "How often have you seriously considered quitting your present job?" Responses were made on a 6-point scale ranging from "never" (coded 1) to "extremely often" (coded 6). In two samples, individual turnover or actual quitting was measured as well. Absenteeism was

Table II. Summary of Variables Correlated with JSS by Sample

Variable	Samples*
Skill variety	3, 6, 9, 14
Task identity	3, 6, 9, 14
Task significance	3, 6, 9, 14
Autonomy	3, 6, 9, 14, 15
Feedback from the job	
Feedback from agents	3, 6, 9, 14
MPS	3, 6, 9, 14
Age	1-6, 8, 11, 12
Level	7-11, 14, 15, 17, 18, 19
Absenteeism	1-6, 9, 14
Salary	
Commitment	7, 8, 14, 19
LBDQ	7, 8, 19
Intent to quit	1-14, 18, 19
Turnover	8, 11
8C - T-11- I	

See Table 1.

assessed in two ways, by self-report or organizational records. In all cases, number of days absent in a specified time period was measured, since these were the only data available in the records of participating organization.

Personal Characteristics. Three personal characteristics were measured including age (in years), annual salary (in dollars), and level in the organization (1 = nonsupervisor, 2 = supervisor). Each of these were gathered with a single self-report question.

#### Procedure

Data from all samples were collected with typical organizational survey procedures, except one of the samples which was collected in a training workshop. The remaining samples were from surveys of employee attitudes conducted at work settings. In most cases questionnaires were distributed to employees through interoffice mail, by supervisors, or at staff meetings. Employees returned them to the researchers by interoffice mail, by placing them in a central collection box, or by having the researchers collect them in person. Several of the samples were collected by students or colleagues for their own research and are acknowledged in Table I.

For the samples in which objective turnover or absenteeism was assessed, the last four digits of the subject's social security number was requested. These partial social security numbers were matched to absence and turnover records within a specified time period. All subjects were informed of the research purpose to which the data and partial social security numbers would be used.

### Measurement of Satisfaction

### RESULTS

# Initial Development and Item Selections

in the first version of the scale. sions. Some dimensions had more items than others because the areas varied in specificity and breadth. A total of 74 items were compiled for inclusion cation, and work conditions. Items were written to tap each of the nine dimenand recognition), supervision, co-workers, nature of work itself, communipromotional opportunities, fringe benefits, contingent rewards (appreciation good measure of overall satisfaction. These included satisfaction with pay, satisfaction so that a combined score (sum of all subscales) would yield a scale. It was felt that these nine items adequately sample the domain of job common and conceptually meaningful (to the author) were chosen for the tion facets. From each study a list of dimensions was made and the nine most ing dimensions of satisfaction. Others were conceptual analyses of satisfacincluding studies of job satisfaction dimensions. Many of these studies were terest was defined. To accomplish this, a literature review was conducted tion techniques for summated (Likert) rating scales. First, the domain of infactor analyses of existing or ad hoc instruments to determine the underly-The development of the JSS proceeded using attitude scale construc-

It was decided to use the summated rating scale format with six agree-disagree response choices: disagree very much, disagree moderately, disagree slightly, agree slightly, agree moderately, and agree very much. These response choice intervals were approximately equal psychologically according to the scale values generated by Spector (1976) and were scored from 1 to 6, respectively. Approximately half of the items were written in a positively worded direction and about half in a negatively worded direction. Each item was an evaluative statement, agreement with which would indicate either a positive or negative attitude about the job.

The initial item pool was administered to a small pilot sample of 49 employees of a community mental health center in the southeastern United States. Part-whole correlations were calculated for each item with its subscale. Those items were retained that had a part-whole of at least .45. This left 34 items with no more than 4 per subscale; 2 additional items were written to equalize the items per subscale at 4 each, and this became the final scale.

All subscales remained as conceptualized originally, except for work conditions. This subscale originally contained the most items and included both physical conditions, such as equipment and the physical environment, and operational conditions, such as rules, procedures, and red tape. Only the latter items were retained and this subscale was renamed Operational Procedures. The JSS is contained in the Appendix.

### Reliability and Norms

subscale and the total scale on a sample of 2,870 (see Table III), and each shown in the table. Part-whole correlations were all acceptable (r > .26). over .70 and the total scale was .91. Mean interitem correlations are also was above the .50 minimum suggested by Nunnally (1967). All but two were Internal consistency reliability (coefficient alpha) was computed for each

als, who were represented in Samples 8 and 11 (see Table I), 18 months apart. relatively small sample. JSS scores were calculated on the same 43 individutional changes and events. considerably higher with a shorter span and with fewer intervening organiza-Of course the test-retest reliabilities of this scale would be expected to be They ranged from .37 to .74 for the subscales and was .71 for the entire scale. in the organization (reorganization, layoffs, and new top administration). III) were surprisingly high, considering the long time span and many changes Correlation coefficients between subscales at both points in time (see Table A test-retest reliability estimate for the JSS was available from one

a single missing item within a subscale was replaced by the mean of responses to the remaining three items. These statistics are the norms for the instruhuman service employees who completed the scale. For these calculations southeastern United States. ment, based on employees from several dozen organizations in the Table III also contains the means and standard deviations from 3,067

Table III. Means, Standard Deviations, and Reliabilities for the JSS

Communication Total satisfaction n	Pay Promotion Supervision Benefits Contingent rewards Operating procedures Co-workers Nature of work	Subscale
14.0 133.1 3,067	10.5 11.5 19.9 13.1 13.4 12.5 18.8 19.2	Mean
5.0 27.9 3,067	5.1 5.1 4.6 5.0 5.1 4.6 3.7 4.4	SD
38 21 2,870	43 40 53 40 44 44 29 33	Mean interitem correlation
71 91 2,870	75 73 82 73 76 62 60	Coefficient alpha
43 43	55 55 57 54 54 54	Test-retest reliability

## Measurement of Satisfaction

701

Table IV. Multitrait-Multimethod Matrix for JSS and JDI Subscales <sup>a</sup>	ultitrait	-Multi	method	Matr	ix for	JSS and	ī	Subscal	esa	
Scale	_	2	w	4	7	6	7		٥	10
IDI										
1. Work	7									
2. Pay	27/									
3. Promotion	47	25/								
<ol> <li>Supervision</li> </ol>	31	23	<u>3</u> /	/						
5. Co-workers	37	30	37	28/	V					
ISS										
6. Work	) (S)	24	32	24	23	7				
7. Pay	33/	(S)	<u>/S</u>	34	30	29/				
<ol><li>Promotion</li></ol>	34	3/	(1)	27	34	20	6/			
<ol><li>Supervision</li></ol>	25	27	26/	/8/	24	22	34	28/		
0. Co-workers	32	18	30	26/	/ <u>P</u> /	25	20	25	30/	V
3enefits	28	29	35	07	17	21	49	46	01	19
Contingent rewards	34	37	57	45	43	28	58	58	46	47
Operating procedures	07	-08	14	-14	20	8	15	17	-22	15
Communication	40	20	50	38	45	37	40	40	37	55
n = 102, r > .19  for $p < .05.$	20. > a									

# Discriminant and Convergent Validity

provided by a multitrait-multimethod analysis of the JSS and JDI. Table five common subscales and additional JSS subscales at the bottom. multitrait-multimethod matrix at the top, and the correlations between the IV summarizes the intercorrelations of the JSS and JDI subscales, with the The major evidence for discriminant and convergent validities was

instrument, as shown in the hetero-trait, mono-method triangles. Finally, shown in the hetero-trait, hetero-method triangles. Third, the validity correof reasonable magnitude, .61 to .80. Second, these values were all higher scales from both instruments (underlined) were significantly larger than zero and bell and Fiske (1959). First, the validity correlations between equivalent subreasonably consistent, with all but one correlation from each instrument rangthe pattern of interrelationships among subscales for both instruments were lations were all higher than the intercorrelations among subscales within each than correlations between noncorresponding subscales across instruments, As can be seen in the table, the results meet all four criteria of Camp-

Spector

Intercorrelations Among Subscales"

120	He v. In	ercorre	Table V. Intercorrelations Among Subscares	ne Snon	Uscarcs			
Subscale	-	2	ω	4	s	6	7	∞
1. Pay								
2. Promotion	.53							
3. Supervision	.19	.25						
4. Benefits	45	.36	.10					
5. Contingent rewards	.54	.58	.46	.38				
6. Operating procedures	.31	.31	.17	.29	.46			
7. Co-workers	.19	.23	.42	.16	.39	.22		
8. Nature of work	.25	.32	.31	.20	.47	.30	.32	;
9 Communication	.40	.45	.39	.30	.59	.44	.42	.43

 $<sup>^{</sup>a}n = 3,067$ . All are significant at p < .001.

ing from .20 to .37. In addition, the validity correlations were all higher than relationships between each common subscale and the additional JSS subscales.

If the JSS does indeed measure conceptually distinct facets of job satisfaction, which is implied by discriminant validity, one would expect small to moderate correlations among the subscales. These correlations ranged from .11 to .59 with a median correlation of .35 (see Table V).

evenly between supervision and pay factors. Two items, which related to recomprised all four subscale items) with Contingent Rewards items splitting mine if the empirically derived factors were similar to the conceptual facets there are nine subscales in the instrument. All nine were rotated to detered similar results). Nine eigenvalues were greater than 1.0, encouraging since components witth varimax rotation (oblique rotation was also used and yield and supervision subscales, as suggested by the factor analysis, actually had litwhich did not form a distinct factor. Unfortunately, adding them to the pay different constructs. The one exception was the Contingent Reward items (loaded) more highly with other items measuring the same construct than be considered alternate measures of their own subscale construct, clustered are suggestive of convergent validity in that the individual items, which can recognition and appreciation, loaded with Supervision items. These results wards in general, loaded with Pay items, and two items, which related to formed. The eight factors matched perfectly eight of the subscales (each factor There were eight interpretable factors, so an eight-factor rotation was pertle effect on the internal consistency of the scales. The individual items of the JSS were factor analyzed using principal

Measurement of Satisfaction

703

# Relationships With Other Variables

ple variation in reliability, or by moderator variables. be caused by artifacts, such as range restriction in some samples, intersamlation variation among samples is due to sampling error. A significant U might differs from the others significantly. A nonsignificant U suggests that correproximately as chi square and indicates for set of correlations if one or more tic, a measure of correlation homogeneity. This statistic is distributed apof samples providing correlation data, the total sample size and the  $\it U$  statisfor weighted mean correlations between JSS and each criterion, the number used. Presented in Table VI are the magnitude and statistical significance and Jackson (1982) meta-analysis procedure for combining correlations was several samples for each criterion variable, a variation of the Hunter, Schmidt, tics, commitment, absenteeism, and turnover. Since data were available from JSS and employee characteristics, perceived job and supervisor characteristo human services. Included here is a summary of the relationship between that are shown in the literature to relate to satisfaction with samples other than human service. These tests, then, are tests of the generalizability of these results JSS data have been collected with several other scales and variables

Employee Characteristics. Age was found to relate to Total Satisfaction (r = .16) and was most highly related to Nature of Work and Pay (r = .24, .21, respectively). There was little intersample variation in these correlations that could not be accounted for totally by measurement error. These were for Communication and Total Satisfaction.

There were small but significant relationships between Level and Pay, Promotion, and Nature of Work, and most other scales, although in seven cases there was significant variation among correlations. For these subscales, satisfaction was associated with higher organizational levels. However, for Operating Procedures the relationship was reversed, with nonsupervisors being more satisfied.

Salary was significantly related to Pay and Operating Procedures, and in both cases there were nonsignificant U statistics. The direction of relationship, however, was opposite with high pay being associated with high scores on Pay and low scores on Operating Procedures.

Leadership. It was expected that supervisory consideration would be most strongly related to Supervision and Contingent Rewards, which are under control of supervisors. The data presented in Table VI supported this contention. Across three samples the consideration subscale of the LBDQ was significantly correlated with Supervision (r = .70) and Contingent Rewards (r = .42). It was related to all but one of the other subscales but with smaller correlation coefficients. For all but Supervision the correlations were homogeneous across samples.

Measurement of Satisfaction

at least some of the subscales. In fact, every subscale was significantly relatall samples there were significant correlations between Total Satisfaction and correlations across samples. tion between Total Satisfaction and intention was -.41. In all cases high satisfrom -.16 for Benefits to -.36 for Contingent Rewards. The mean correlaed to intention in most samples. Mean correlations for the subscales ranged faction was associated with low intent. In no case were there homogeneous Turnover. In 16 samples intention of quitting the job was assessed. In

tude of correlation was not particularly large (.20). There were small but statistically significant correlations with Contingent Rewards, Co-workers, Promotion, and Supervision. All were homogeneous across samples. Total satisfaction was related to actual turnover, although the magni-

correlations were homogeneous across samples for three of the scales. Comministered in five samples and was correlated with all JSS subscales. The Contingent Rewards. mitment was most strongly related to Communication, Nature of Work, and Organizational Commitment Questionnaire. The OCQ was ad-

visor is the most likely source of this type of feedback and contingent restrongly related to Supervisor and Contingent Rewards, because the superrelationship with Nature of Work. Feedback from Agents would be most nificance, Autonomy, and Feedback from the Job) would show the strongest volving the job tasks themselves (Skill Variety, Task Identity, Task Sigwere gathered in five samples. It was expected that those characteristics inwards are given by supervisors for good work, certainly a form of feed-Perceived Job Characteristics. Data on perceived job characteristics

of Work was correlated most strongly with task related characteristics and with Supervision (r = .52) and Contingent Rewards (r = .55). Overall the with the composite MPS. Feedback from Agents was most highly correlated differed greatly among the subscales. Homogeneity of samples occurred for Total Satisfaction, although the magnitude and frequencies of significance six job characteristics were related to other job satisfaction subscales and most of the analyses. The JSS results supported these hypotheses. Of all subscales Nature

subscales were homogeneous. Of particular note is the homogeneous correnificant correlations and those were quite small. The results for most of the self-report and two objective measures. As can be seen, there were few siglation of -.12 for Total Satisfaction. The negative correlations suggested that high satisfaction was associated with low absenteeism. Absenteeism. Absenteeism data were available from eight samples, six

showed remarkable consistency in job satisfaction. and disruptions (a new top administrative staff, reorganization, and layoffs) these data collected 18 months apart, spanning a period of many changes cy, and the limited test-retest data indicate good reliability over time. In fact, suggest that the total scale and subscales have reasonable internal consistenscales were created to represent the satisfaction domain. Reliability data faction. Through an analysis of the literature of job dimensions, nine suband nonprofit organizations to measure the major dimensions of job satis-The Job Satisfaction Survey was developed in human service, public

as aspects of supervision and general contingent rewards as monetary. two. It may well be that appreciation and recognition are seen by employees ternal consistency, Contingent Rewards seemed to tap aspects of the other dependence of eight subscales of the JSS. Contingent Rewards split evenly sionality of job satisfaction. The factor analysis supported the relative inabout different aspects of the job was strong evidence for the multidimenand convergent validity. That employees were able to hold varying attitudes scales, and results of the factor analyses provided evidence for discriminant between Supervision and Pay. Although all three scales had reasonable in-The multitrait-multimethod analysis, intercorrelations among the sub-

and absenteeism was based on homogeneous samples. A small population value for this correlation produces just the situation found here and in the particular interest was that the small mean correlation of total satisfaction teristics were more modest and with absenteeism were quite small. Of tics, and perceptions of the supervisor. Relationships with personal characquitting the job, commitment to the organization, perceived job characterisand attitudinal variables. The strongest relationships were with intention of bility of human service and nonhuman service employee reactions. Consisliterature of a sometimes significant and sometimes nonsignificant correlation. tent with the literature, the JSS was most strongly correlated with perceptual The analyses relating the JSS to other variables showed good compara-

strongly related to Supervision in Sample 8, but in Sample 7, Supervision tion of quitting was most strongly related to Contingent Rewards and least which specific subscales correlated with other variables. For example, intencounted for many of these inconsistent results. Although not presented here moderators. That is, there were possibly organizational variables that achad the strongest correlation and Co-workers had the smallest. For the most in detail, there were considerable interorganizational differences concerning level, intention of quitting, and commitment, suggested the possibility of The heterogeneity of results with some criterion variables, particularly Table VI. Summary of Meta-Analyses Relating JSS Scales to Criteria

		. of		D	Somision	Panafita	Contingent	Operating	Co-workers	Nature of work	Communication	Total satisfaction
Variables	sam	ples	Pay	Promotion	Supervision	Benefits	lewards	procedures	CO-WOIKEIS	OI WOIK	Communication	
Skill	4	r	.00 318	.14° 313	.03 318	.07 318	.12 <b>°</b> 319	16° 318	.09 320	.36° 320	.17° 319	.14° 319
variety		n U	0.44	1.84	5.96	0.32	1.70	1.43	0.75	23.92°	3.21	3.85
Task	4	r	.13°	.13°	.17°	.14ª	.27° 315	.18° 315	.31 <b>*</b> 316	.32° 316	.22° 316	.31° 316
identity		n U	314 14.37°	310 5.05	315 3.26	314 1.94	6.48	7.38	1.16	2.28	7.07	5.29
Task sig-	4	r	.05	.184	.04	02	.16°	04	.00 320	.47° 320	.15° 319	.17° 319
nificance		n U	318 2.04	314 3.81	318 5.00	318 1.07	31 <u>9</u> 4.16	318 0.80	.8.44	7.32	4.42	4.97
Autonomy	5	r	.13°	.19°	.18ª	.11•	.24°	.04	.20*	.39°	.24 <u>°</u> 405	.29° 405
		n U	401 4.87	398 0.18	403 7.63	400 2.62	404 5.94	404 9.86⁴	405 1.09	405 12.30°	6.12	4.48
Feedback	4	r	.17"	.23°	.15°	.14°	.334	.09	.18°	.43°	.31° 318	.35° 318
from the job		n U	317 0.81	313 0.62	317 3.45	317 4.01	318 2.74	317 7.65	319 6.25	319 1.54	5.31	2.25
Feedback	4	r	.15°	.36°	.52°	.184	.55*	.18*	.35*	.30°	.39*	.52*
from agents		n U	319 1.16	314 1.55	319 1.93	319 1.25	320 2.21	319 0.79	321 1.98	321 8.30°	320 12.00°	320 3.75
MPS	4	r	.17*	.26°	.21°	.15°	.35°	.10	.12°	.51°	.33° 315	.40° 315
		n U	313 5.42	309 2.58	314 4.07	313 1.11	314 8.88°	314 8.14°	315 23.92*	315 5.35	8.76	4.46
				سيد بيون يويون			···					
Age	9	r	.21ª	04	00	00:						
5-		n U	1696 13.51	.04 1695	.00 1693	.09ª 1692	.09° 1696	.04 1695	.12ª 1696	.24° 1696	.08° 1697	.16° 1693
Level	10			13.41	4.50	7.78	7.52	6.22	10.45	14.41	16.40°	16.15*
Level	10	r n	19° 1320	15° 1306	03 1313	09ª 1315	09° 1317	.14° 1323	.00 1324	11° 1326	07° 1323	10ª 1320
Abanas		U	8.584	27.01°	19.40	10.65	20.31*	30.234	23.70°	32.494	15.16	21.43°
Absentee- ism	8	r n	09° 1352	14° 1351	08° 1349	04 1348	08° 1352	03 1352	04 1352	10° 1352	09ª 1352	12° 1351
		U	6.41	9.61	8.64	4.52	4.45	5.14	4.09	8.49	3.19	3.70
Salary	3	r n	.17° 259	.11 259	05 259	.08 259	.08 259	22 <del>°</del> 259	10 259	.03 259	01 259	.02
		U	2.00	1.50	7.74	0.18	0.10	1.39	1.53	3.03	0.77	259 0.96
Commit- ment	4	r n	.23° 383	.28ª 382	.24° 384	.22 383	.37° 383	.21° 384	.20° 384	.40°	.40°	.45°
		U	8.26	16.71°	4.98	9.09	23.70°	2.99	0.48	384 9.22°	384 8.22°	384 23.67°
LBDQ	3	r n	.20° 287	.30° 287	.70 <del>°</del> 287	.12 287	.42° 287	.13*	.30*	.25°	.34⁴	.47°
		Ü	.33	1.64	13.75*	3.52	1.77	287 0.25	287 0.36	287 0.38	287 0.01	287 3.70
Intent to quit	16	r n	26° 2224	~.29° 2218	24°	16*	36*	21°	23°	32ª	25°	41ª
dan		Ü	47.82°	52.45°	2221 74.65°	2220 37.81°	2225 141.26*	2223 38.60°	2226 65.54°	2226 144.48°	2224 55.50°	2219 169.25°
Turnover	2	r	.11	.15*	.14*	.02	.19•	.10	.19•	.12	.09	.20°
		n U	189 3.65	189 0.12	189 0.91	189 0.07	189 0.00	189 0.65	189 1.71	189 0.16	189 0.00	189 0.08
$^{a}p < .05.$				-	<u></u>		······································					

Spector

Measurement of Satisfaction

9

part, each sample had its own pattern of results. An apparent conclusion ated the relationships between job satisfaction and other variables. Although is that idiosyncratic characteristics of organizations and their staffs moderals and organizations. Thus, interactive models and hypotheses might prove tion and its effects are the result of complex interactions between individumany might consider it self-evident, it bears mentioning that job satisfacuseful in explaining the causes and effects of job satisfaction, at least as it

nonhuman service employees. Even job characteristics results, originally of the scale's reliability and construct validity. It was developed, normed, and relates to some behaviors. ble satisfaction scale for human service employees. Furthermore, satisfacconcern with factory workers, are consistent. The JSS seems to be a reasonaables were consistent with findings in the literature based in most cases on human services. The correlations of job satisfaction with other employee varivalidated on human service personnel, making it of specific applicability to tion results with the variables explored here seem to generalize to human Overall the results summarized here with the JSS present evidence for

### APPENDIX

# Items of the Job Satisfaction Survey

for the work I do.  There is really too little chance for promotion on my job.  My supervisor is quite competent in
for the work I do.

16

17

+

I like doing the things I do at work.

competence of people I work with.

I find I have to work harder at my

job than I should because of the in-

18

1

The goals of this organization are

not clear to me.

15	14	13	12	11	10	9	<b>∞</b>	7	6	S
6	٠,	4	ω	2	<b></b>	9	<b>∞</b>	7	6	vs
+	1	+	I	+	I	+	1	+	1	+
My efforts to do a good job are seldom blocked by red tape.	I do not feel that the work I do is appreciated.	The benefits we receive are as good as most other organizations offer.	My supervisor is unfair to me.	Those who do well on the job stand a fair chance of being promoted.	Raises are too few and far between.	Communications seem good within this organization.	I sometimes feel my job is meaningless.	I like the people I work with.	Many of our rules and procedures make doing a good job difficult.	When I do a good job, I receive the recognition for it that I should receive.

Measurement of Satisfaction

32 5	31 6	30 3	29 4	28 1	27 8	26 9	25 7	24 6	23 5	22 4	21 3	20 2	
1	1	+	. 1	+	+	ì	+	1	1	+	١	+	
I don't feel my efforts are rewarded	I have too much paperwork.	I like my supervisor.	There are benefits we do not have which we should have.	I feel satisfied with my chances for salary increases.	I feel a sense of pride in doing my job.	I often feel that I do not know what is going on with the organization.	I enjoy my co-workers.	I have too much to do at work.	There are few rewards for those who work here.	The benefit package we have is equitable.	My supervisor shows too little interest in the feelings of subordinates.	People get ahead as fast here as they do in other places.	pay me.

	36	35	34	33
	9	∞	7	2
	ı	+	ì	+
explained.	Work assignments are often not fully	My job is enjoyable.	There is too much bickering and fighting at work.	I am satisfied with my chances for promotion.

\*Subscale numbers refer to order in Tables II-IV. Response choices are scored as 1 = disagreevery much, 2 = disagree moderately, 3 = disagree slightly, 4 = agree slightly, 5 = agree moderately, 6 = agree very much. All items with wording directions marked — should be reverse

### REFERENCES

Aldag, R. J., & Brief, A. P. (1978). Examination of alternative models of job satisfaction. Human Relations, 31, 91-98.

Buffum, W. E., & Konick, A. (1982). Employees' job satisfaction, residents' functioning, and

treatment progress in psychiatric institutions. Health & Social Work, 7, 320-327. Campbell, D. T., & Fiske, D. W. (1959). Convergent and discriminant validation by the multitrait-multimethod matrix. Psychological Bulletin, 56, 81-105. Cherniss, C., & Egnatios, E. (1978). Is there job satisfaction in community mental health? Com-

munity Mental Health Journal, 14, 309-318.

Dehlinger, J., & Perlman, B. (1978). Job satisfaction in mental health agencies. Administration in Mental Health, 5, 120-139.

Dorr, D., Honea, S., & Pozner, R. (1980). Ward atmosphere and psychiatric nurses' job satisfaction. American Journal of Community Psychology, 8, 455-461.

Downey, H. K., Sheridan, J. E., & Slocum, J. W., Jr. (1975). Analysis of relationships among

leader behavior, subordinate job performance and satisfaction: a path-goal approach

Academy of Management Journal, 18, 252-262. Folkins, C., O'Reilly, C., III, Roberts, K., & Miller, S. (1977). Physical environment and job satisfaction in a community mental health center. Community Mental Health Journal

13, 24-30.

Frontz, H. O. (1978). Sources of job satisfaction and dissatisfaction among psychiatric aides.

Hackman, J. R., & Lawler, E. E., III. (1971). Employee reactions to job characteristics. Jour-Hospital & Community Psychiatry, 29, 229-230.

nal of Applied Psychology, 55, 259-286.
Hackman, J. R., & Oldham, G. R. (1975). Development of the Job Diagnostic Survey. Journal of Applied Psychology, 60, 159-170.

Hom, P. W., Katerberg, R., Jr., & Hulin, C. L. (1979). Comparative examination of three approaches to the prediction of turnover. *Journal of Applied Psychology*, 64, 280-290.

the way they should be

Hunter, J. E., Schmidt, F. L., & Jackson, G. B. (1982). Meta-analysis: Cumulating research findings across studies. Beverly Hills: Sage.

Kraut, A. I. (1975). Predicting turnover of employees from measured job attitudes. Organiza tional Behavior and Human Performance, 13, 233-243.

Lawler, E. E., III. (1971). Pay and organizational effectiveness: A psychological view. Nev York: McGraw-Hill.

Locke, E. A. (1976). The nature and causes of job satisfaction. In M. D. Dunnette (Ed.), Handbook of industrial and organizational psychology. Chicago: Rand McNally.

Locke, E. A., & Whiting, R. J. (1974). Sources of satisfaction and dissatisfaction among solid

waste management employees. Journal of Applied Psychology, 59, 145-156.

Marlowe, H. A., & Weinberg, R. B. (1983). A mental health management training program. In H. A. Marlowe & R. B. Weinberg (Eds.), Proceedings of the 1982 Southeastern United States Community Support Programs Conference. Tampa: University of South Flori-

Michaels, C. E. (1979). Unpublished data set.
Michaels, C. E. (1980). Unpublished data set.
Michaels, C. E. (1983). Dimensionality of job satisfaction. Unpublished doctoral dissertation, University of South Florida, Tampa.

Michaels, C. E., & Spector, P. E. (1982). Causes of employee turnover: A test of the Mobley

Griffeth, Hand, and Meglino model. Journal of Applied Psychology, 67, 53-59.

Mobley, W. H., Griffeth, R. W., Hand, H. H., & Meglino, B. M. (1979). Review and conceptual analysis of the employee turnover process. Psychological Bulletin, 86, 493-522.

Mowday, R. T., Steers, R. M., & Porter, L. W. (1979). The measurement of organizational commitment. *Journal of Vocational Behavior*, 14, 224-227.

Nelson, C. E., Mullins, L. C., Weiner, H. R., & Busciglio, H. H. (1983). Unpublished data set. Nicholson, N., Brown, C. A., & Chadwick-Jones, J. K. (1976). Absence from work and job

satisfaction. *Journal of Applied Psychology*, 61, 728-737.

Nunnally, J. C. (1967). Psychometric theory. New York: McGraw-Hill.

Porter, L. W. (1961). A study of perceived job satisfactions in bottom and middle management jobs. Journal of Applied Psychology, 45, 1-10.

Porter, L. W., & Steers, R. M. (1973). Organizational, work, and personal factors in employee turnover and absenteeism. *Psychological Bulletin*, 80, 151-176.

Quinn, R. P., & Mangione, T. W. (1973). Evaluating weighted models of measuring job satisfaction: A Cinderella story. *Organizational Behavior and Human Performance*, 10, 1-23.

Ronen, S. (1978). Job satisfaction and the neglected variable of job seniority. *Human Rela*tions, 36, 297-308.

Sarata, B. P. V. (1974). Employee satisfactions in agencies serving retarded persons. American Journal of Mental Deficiency, 79, 434-442.

Sarata, B. P. V. (1977). Job characteristics, work satisfactions and task involvement as correlates of service delivery strategies. American Journal of Community Psychology, 1, 99-110. Schwartz, M. S., & Will, G. T. (1961). Intervention and change on a mental hospital ward. In W. G. Bennis, K. D. Benne, & R. Chinn (Eds.), The planning of change. New York:

Seashore, S. E., & Taber, T. D. (1975). Job satisfaction indicators and their correlates. Ameri Holt, Rinehart & Winston. can Behavioral Scientist, 18, 333-368.

Smith, P. C., Kendall, L. M., & Hulin, C. L. (1969). Measurement of satisfaction in work and retirement. Chicago: Rand McNally.

Spector, P. E. (1976). Choosing response categories for summated rating scales. Journal of Applied Psychology, 61, 374-375.

Spector, P. E., & Levine, E. L. (1983). Unpublished data set.

Spector, P. E., & Marlowe, H. A., Jr. (1983). Administrative practice and employee job satisfaction in a psychosocial rehabilitation agency. *Psychosocial Rehabilitation Journal*, 7,

Spector, P. E., & Michaels, C. E. (1983). Personality and turnover: The role of locus of control in the employee withdrawal process. Manuscript submitted for publication.

Stogdill, R. M. (1963). Manual for the Leader Behavior Description Questionnaire Form XII Columbus: Ohio State University.

Measurement of Satisfaction

Vroom, VV. H. (1964). Work and motivation. New York: Wiley. Wanous, J.P., & Lawler, E. E., III. (1972). Measurement and meaning of job satisfaction. Journal of Applied Psychology, 56, 95-105.
Weinberg, R. B., & Marlowe, H. A. (1983). The Managerial Stress Inventory: Development

of an instrument and findings from mental health settings. In H. A. Marlowe & R. B. Programs Conference. Tampa: University of South Florida Press. Weinberg (Eds.), Proceedings of 1983 Southeastern United States Community Support

Weiss, D. J., Davis, R. V., England, G. W., & Lofquist, L. H. (1967). Manual for the Minnesota Satisfaction Questionnaire. Minneapolis: University of Minnesota.

Wiggins, J. D., & Moody, A. (1983). Identifying effective counselors through client-supervisor ratings and personality-environment variables. Vocational Guidance Quarterly, 31,

Zaharia, E. S., & Baumeister, A. A. (1979). Cross-organizational job satisfactions of technician level staff members. American Journal of Mental Deficiency, 84, 30-35.