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ABSTRACT

This paper describes the continued development of the "Trouble Shooting" Checklists. These checklists are based on change agent responses and are designed to be predictive of an institution's change potential for the adoption of innovations. The development of two new instruments is described, both innovation-fred. One applies to higher educational settings, while the other applies to school-based settings. As in the earlier, innovation-specific forms, the new forms are divided into distinct information areas and identify the ideal situation, marginally acceptable and unacceptable situations for innovation adoption. (Author)

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The "Trouble Shooting" Checklists Revisited:
The Development of New Innovation-Free
Checklists to Measure Change Potential
In Higher Educational and
School-Based Settings

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A paper presented to the AERA Meeting Washington, D. C., March 30-April 3, 1975

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The "Trouble Shooting" Checklists Revisited: The Development of New Innovation-Free Checklists to Measure Change Potential in Higher Educational and School-Based Settings

Brad A. Manning'

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The "Trouble Shooting" Checklists have been developed to assist educational change agents and administrators concerned with change, in their assessment of organizational variables predictive of an institution's potential for successfully adopting innovations. Two previous experimental checklists, the TSC-A and the TSC-B (Manning 1973, 1974), were limited to higher educational settings and were innovation-specific in that they focused on institutions adopting modules and personal assessment feedback systems (PAF) with a counseling orientation. Two new, experimental "Trouble Shooting" Checklists have now been designed which are innovation-free and which are predictive of institutional change potential in higher educational and school-based settings.

Theoret * cal Framework

The "Trouble Shooting" Checklists have been developed in conjunction with, a project which has as its theoretical framework a concerns-based adoption model (Hall, 1974; Hall, Wallace, & Dossett, 1973). In brief, the concerns-based adoption model orders the effects of stages of human concern in interaction with levels of use of an innovation. The ordering is a developmental one which postulates that both stages of concern and levels of use become progressively more sophisticated throughout the adoption-implementation process. The relationship of the TSC to the concerns-based adoption model is based on the assumption that

in order for stages of concern and levels of use to develop progressively through the adoption-diffusion process, an institution must meet certain conditions and be in an appropriate state of readiness.

All forms of the TSC identify for the administrator or the change agent both ideal and unacceptable organizational variables related to the adoption and implementation of innovations (the earlier TSC forms also identified marginal variables). In order to make such an assessment, the "Trouble Shooting" Check-lists have been based on the assumption that the following dimensions are crucial: the general organizational structure of the institution; the descriptive characteristics of its members and the organizational climate; personality, leadership styles and concerns of its members; the nature of communications which occur both within and without the institution; the levels at which previous innovations have been used; and, the personality and social characteristics of the students.

The Innovation-Free form of the TSC for Higher-Educational Settings

The development of the original TSC-A and the TSC-B has been documented in detail in both the TSC manual (Manning, 1973) and a 1974 AERA paper (Manning, 1974). In brief, a twenty-nine page, open-ended questionnaire was given to six change agents. This questionnaire was broken into ideal, marginal, and unacceptable question areas. The responses to this questionnaire served as a data base for the two original checklists (TSC-A and TSC-B). After a series of rewritings and refinements, these responses gradually became checklist items. They were arbitrarily assigned score values of 2, 1, and 0 for items classified as ideal, marginal and unacceptable, respectively.

The innovation-free form of the TSC for higher education, was built directly from the TSC-A and the TSC-B. The first step was the elimination of all items which specifically referred to modules, counseling or assessment batteries, as well as items which had any innovation-specific reference. The remaining items were then examined for their appropriateness in each subscale. Since the TSC-B had items in common with the TSC-A, these items were eliminated. The remaining items were pooled to form the new instrument. The next step was to modify scale and subscale titles in order to make them applicable to all departments in higher educational institutions. As a result of these modifications, one subscale was eliminated. In its place another subscale was built from the TSC information base.

This first experimental, innovation-free form of the TSC for higher educational institutions consisted of 495 items organized into 16 subscales in 5 major scales, and was 39 pages. All subscales were forced-choice requesting that 1/3 of the total items in each subscale be selected. The scales and subscales were as follows:

Scale I: Organizational Structure

Subscale A: Organizational Characteristics

Subscale B: Social-Professional Climate of the Organization

Subscale C: Descriptive Characteristics of the Faculty

Subscale D: Descriptive Characteristics of the Administration

Scale II: Faculty, Department Chairperson and Dean (personality and leadership dynamics)

Subscale A: Personality, Leadership Styles and Concerns of Faculty

Subscale B: Personality, Leadership Styles and Concerns of the Department Chairperson

Subscale C: Personality, Leadership Styles and Concerns of the Dean Scale III: Nature of Communications

Subscale A: General Nature of All Communications

Subscale B: Frequency and Nature of Letters and Phone Calls

Subscale C: Frequency and Nature of Mersonal Visits ,

ERIC FULL STATE OF THE STATE OF

Scale IV: Level of Usage

Subscale A: First Stages of Adoption

Subscale B: Predictions of Later Stages of Adoption

• Subscale C: Organizations Members' Attitudes Towards Innovations Scale V: Students

Subscale A: Personality and Social Characteristics of Students

Subscale B: Academic Style of Students

Subscale C: Students' attitudes towards innovation

· Item Analysis

The first experimental, innovation-free form of the TSC for higher educational institutions was distributed to a small, nation-wide sample of change agents who were asked to complete the TSC and to critique and comment upon it in detail. In such a way, it was possible to obtain detailed responses from a representative sample of would-be users in addition to the data necessary for the item analysis. A synthesis of the critiques was compiled and remedial actions outlined. Altogether, thirty institutions were rated and included in the following analyses.

The first type of analysis focused on the following question: do items assigned to one of the two groups of items (ideal and unacceptable) belong with their respective groups? This analysis was made on all items in a single analysis and resulted in correlations between each item and the total score for each group of items (ideal and unacceptable.) The alphas for the two groups of items were as follows: items classified as ideal = .99; and, items classified as unacceptable = .97 (see table 1).

A second type of analysis focused on the following question: do items which are marginally classified belong with their own group or with one of the two remaining groups (i.e., ideally classified items or unacceptably classified items)?

Each item classified as ideal, correlated with the total score of items classified as ideal; each item classified as unacceptable correlated with the total score of items classified as unacceptable.,

		`
1 tem	Numbe	er**

Item classified as total score of items classified as ideal

Item classified as unacceptideal correlated with . able correlated with total —-score of items'classified `as unacceptable

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8		.6882	· / / ·	•
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13	9 t]	•	•	.4516
i 4	* *	.`6678 •	• `	
15	e .	. 4 8	• ,	.4882
16)	, , ,	.7061	: -	
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1'8				.6973
16				.8029 .
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21		.7650	•	•
22		.8130	•	
25		<i>,</i> 7270 ≈	•	
26,	•	7470 .:	•	.6626
27		.7432 •	•	.5027
29	\ .	•	•	.6073
30	• 1		•	.5472
3·1	.: \ .			.4427
32 33	•	.716)1	•	14471
34	<u>_</u>	.5489	•	,
35 ·	. /	.8591	·a	,
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^{*} This table includes information only on the final 100-items selected.

^{**} Item numbers refer to numbers used/in the second innovation-free form of the higher educational TSC included in the appendix.



Table (continued)

Item Number .	ideal co	ssified as rrelated with ore of items	h e	Items class able correl	ated with	t o tal
	olacci fil	ed as ideal		as unaccept		6
•	Classilie		* .	u.,u.o.o.p.		
		<u> </u>			/	
36	-	5995				•
38		6497		•	•	
39		6344		<u>'</u>		
40	•			1. 5830		*
41	•		·	.4732		
42	•	5795	,	1	•	•
. 44		5489 · ·	•	• • • • • • • • • • • • • • • • • • • •	•	
• 45		6046			•	<i>j. "</i>
46 °		7841		•		/
47	•	6339		٥	·	•
· 48 , ·			•	.6550		· •
49	•	7037	•		•	*
· 50		7326		,		
51		•		.7386	8	* •
, · 52	•	7400	•			•
53 ,.		.6371	•	•	•	
54		6423	1	-	,	
· 55		,5366	,	oʻ		
` 57	•	.6104 [§]		e= 1=	_	
. . 58 °	•		· .	.6345		•
59		-1		.6608		
, 60		.6099	•	- 7 Y		
61 . ,	•	.6913	· · · ·	6577	•	
62	•		ek.	. 6537		•
63		8947	ř	٠		' ,
^ 64		7048			<u>ي</u>	
65		. 8933 . 8947	· ·		• •	•
66				•	. >	
67		7851 ''	~	,		
68		.5567	•	•		.*
69	•	.0417	•,	.5563	•	٥,
70´	ò	. 7589			٠.	•
′ 71 72 • ,.		. 1202	-	.5346	<u></u>	•
72 73	_	.4496		•	. a	,
74	, ,	5. S.	- , ,	.5283	,	\(\frac{7}{3}\)
74 . 75				··.6420		•
76 '	•	.8330 🍫 •	•			
77 [.]	•	.8108	• • • •		. 4	•
78 .	,		^	.6583	5 • 5	P .
			4	~ .	•-	

· **1**0

ltem Nu	mber	ideal o	assified correlated core of ied as i	d with items	able sco	m classified e correlated re of items unacceptable	classified
	·	·•.		<u> </u>		•	
79	· .		`			.6030	
80	,	• •	.7525 ·				. (
81			.7821		•	• • • • • • • • • • • • • • • • • • • •	
82		•	•		•	.4571	
83			•			. 7246	,
85		•	.6505	4	•	((
86	,,,		.7882	•		• ' '	~
. 87	7				•	. 6208	>
88	3 .				a .	.5022	•
89)	^ ,	•			.6987	
90 ء ۽)	,	•		•	.7333	`
92	2		.6536				
93	3.	•	.6783				
. 94		٥.	.6319				
, 95			.8947			•	
,96		•	.6061			.5500	
97	,	•				, , , , , , , , , , , , , , , , , , , ,	,
, 98		•	.5925			.4855 ·	_
99						.40))	•
100) .	•	5976	•	·	•	,
		•				•	•

A single correlational analysis was made to answer this question and resulted in two correlations: a correlation between each marginal item and the total score of unacceptable items; and, a correlation between each marginal item and the total score of ideal items. Items which correlated highly with the total score for ideally classified items and which correlated low with the total score for unacceptably classified items, were then considered in a later analysis for assignment to the ideally classified item pool; items which correlated highly with the total score for the unacceptably classified items and which correlated low with the total score for the ideally classified items, were then considered in a later analysis for assignment to the unacceptably classified items, were then considered in a later analysis for assignment to the unacceptably classified item pool.

(See Table 2.)

A third type of analysis focused on whether or not items were internally consistent within each of the five scales. This analysis actually consisted of two separate analyses (since each item was taken from one of two data pools, consisting of items designated as ideal and items designated as unacceptable). These analyses resulted in correlations between each tem and each of the total scale scores. (see Table 3). Items which correlated above .34 in these analyses were saved for the final analysis described below. One of the results of these analyses was that the scales demonstrated a lack of independence. In other words, it can be concluded that institutions which rate highly in one scale are likely to rate highly in other scales as well.

The final type of analysis, like the third analysis, focused on whether or not items were internally consistent within each scale and within the entire instrument. However, this analysis included only the items which correlated above .34 on the third analysis described above, and the marginal items selected from

Table 2*

Correlations of items classified as marginal with total scores of items classified as ideal and total score of items classified as macceptable.

Correlations with total

Confelations with total

Item Number**		score of items classi-
	as unacceptable.	fied as ideal
1.		· · · · · · · · · · · · · · · · · · ·
1. A. 6	.568	- . 568
. I. A. 20	.463	446
1. A. 26 ·	490 (3) to 100 t	430
1. B. 7' # 🖟	617	567
• 1. B. J3	. 675	676
I. B. 21	645	708
I. B. 23	.521	√ -: 558
1. C. 12	.628	624
1. C. 23	455	597
• 1. D. II	.531	519
J. D. 15	.675	522
1. D. 18	.678	627
I. D. 34	.435	.533
11. A. 12	.464	. 559
•	.643	734
11. A. 14	665	.795
11. A. 49	419	481
11. A. 24	•	511
. II. B. 17	. 590 500	
.11. C. 3	,588 · · ·	487 562
11. C. 12		
* 111; A. 3	.513	424
. III. B. 2.	.621	, '440
, "III. C. 7_	.528	467
111. C. 15	641	- .525
IV. B. 8	.531	-,524
IV. C. 3	.400 · · ·	.513
1 V C 8	.446 ·	530
. IV. C. 25	424 *-	 545

^{*}This table includes information only on items classified as marginal which were reclassified as ideal or unacceptable for the final analysis.

^{**}Item numbers refer to the first experimental form of the innovation-free TSC.

· Table 2 (continued)

Correlations of items classified as marginal with total scores of items classified as ideal and total score of items classified as unacceptable.

Item Number	score of items.classified s	core of items classi- ied as ideal
٠, ٠		<u> </u>
IV. C. 28		. 628
V. A. 10	.636	543
V. B. I	.557	591
V. B. 4	.507	 535
V. B. 10	.469	515 •
• •	.598	508
V. B. 12	.632	688
' V.' B. _/ 17	• •	461
V. B. 36		

The state of the s

Table 3*

Each item correlated with total scale scores for five scales

ITEMS CLASSIFIED AS UNACCEPTABLE

-:	•	ا او او معنی و			, y '.	, ,,	
Ί	tem Number**		1 :2"	3	7 45	5_	<u>:</u>
1				$\mathcal{F}(A) = \mathcal{F}(A)$	1.6		
;	1 (111 C	13), 47				295	,
	, 7 (111 A	20) 55	51630	, ,	/ · / / / /	.305	
-	9 (II A 5	6.	89 / 🐪76	4 / .464	660		
	12 (V B 9)	.86	63 📜 🛶 772	2. , / . 498		7,38.	,
	13 (III C	'3)32	25 , 4,39	9 / 552	398	311	•
•	' 15 (11 A 3	36) 🥳 3	75/ / 🛴 36		.526	.390	
	17 (V B 15	30 .36	66 / 🎋 . 33:		496	, 665 .	
	18 (1V A	.6!	55 / 🎺 . 63	4/ / 563	.761	.500	
	19 (III C	2) .7	16 /	9 - 7.99	.747	.607 :	
	20 (1 D 5)	.79	96 / .75	8 🏑 / .445	.484	.339	
	26 (C 8	ا5. شهر(لا	65 🦴 . 68	2 🐠 , 667	657	.334	
,		29) . 39	97′ 🐬 .36	17年 天》。552	56 F	.459	
	30° (111° A	[′] 7)..5,	34 / 63	እሱ ነር 1564	657	.250	ĵ,
	31 (1 C 5)) / .6	26` ′ .53	2 442	19 1.445	324	· · ·
٦	, 32 (II B 3	32) / 5	29 .42	5 38	368	192	٠.
	." 40 (I B II	() / ,5;	24 60	0 404	55%	525	بُ.
	41 (II C 5	5) (.3	97 54	46	1,383	(37) ; .281 🗀	• • •
	48 (117/B 2	(9) 🔻 5	42	β	665	441	
	5 i (y/B/3)	6, •	44,	4 622	2 1691	(g) (579)	
	58 (.1.1.1 ·A	2) 5				.426	:
•	59 (/ 1 1 · B	13)/ .5	67 62	6 730	549	.476	Ś
,	62 (1 A 2	25)y	99 👌 🔪 68		.574	. 599.	***
	70 (II.A.)	37) . 4	74	543	3 🐪 .487	.295	. `•
	72 (11 0	27) 15 .4	72 62	4	5	. 358	
•	7 : 73 (1 C 3); .6	06 49	7 232	2′ ```` .31,5	237.	
! !	74 CIV C	27) : 5,4	14	31, 49	7 🟏 💙 595	.4,J,8	
í	75 (1 6 3	2) : ; 5	81. 2 13 . 57	3. 730) (645	.302	
i	∫ 78 (II B :	21) / 6	29 68	2 \ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	7 🔪 .5.70	. 278	Ų. ,
	/ - 7/9 (IV B	2) 5	97, 63	7. 1. 1. 58	4	. 194	
:	82 (11 A	42) 4	92 .45		5 366	.324	
; ;	83/ (111) C	26 \ 5	BI 65	3 .80 6 .629	722	500	
. ;	87 (TJEB		57. 66	6 629	560	.260	
٠.		7) 🖂 🗐	36 41	9	2 521	288	•
	88 (ILF B 89 (I A 5)	09 .71	2 .47	669		•
	90 (I)II A	17)	54. 67	3 82	4		
1	97 (V B 3		15. 46	• •	544	342	
7	199 (NA		78		564		
	E 12.5 2 FO		Pro 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	· V.	V (51 ()	***	

*This table includes information only on the final 100 items selected.

** them numbers refer to numbers used in the second experimental form of the higher-educational TSC. Numbers in parenthesis refer to numbers used in the first experimental form of the higher-educational TSC.

Table 3 (continued)

The same of the sa	ITEMS	CLAS'S I FIED	AS IDEAL	*		•
em Number		2	· · · · 3	. 4	. 5	
	TOTAL .	F = E + F	4 16	. 677		
2 (V B ·18)	705 869 /	7.561 7.781	416°	.633 .853 -	.678	
3 (11 A 26)		.640	409		.677	
4 (1 C 4)	.753	.693	445	.580	.463	
5 (1 D 8)	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	1513/	445	663	.738	
- 8 (V B 34).	.639	.643	.400	. 681	.767	
10 (V B 5)	.659	./ /6.18	.750	.533	.433	
	.689	.513	.480	.667	.593	
14 (1,C 18)	.720	.646	.457	.791	.479	
16 (IV'B 9)	.806 ,	801	.488	.675	, 525	
21 (1 D 14) 22 (11 A 28)	.780	.806	. 565	.752	.651	
25 (IV A 21)	712	.561	.503	.717	.725	
	7.783	.612	.370	.862	.632	
	.658	.703	.457	.654	.670	
	\$606	.616	257	505	.354	
	.855	.844	.542	.842	.663	
35 (JA A 23) () 36 (JACA 5): //	.448/	.591 🔍	.868	461	.322	
المراكب	.623	.501	.439	620	.696	
	.596	600	.507	.592	.494	
39 (1 A 14) 42 (V A-5)	459	.460	.385	.581	.723	
1. Add 6 6011	.429	.501	.761	. 374	, 396	
	.580	.520	.367	711	498	
. 45 († A.16) . 46. (IV B.10)	.764	.661	.464	.826	.744	
47 (I D 19).	.722	.629	.235	.612	.515	
49 (1) B 5)	CE I	707	.493	.698	.517	
50 (IV B I)	.692	.572	,604	.810	.587	
52 (V B 7)	.660 *	.648	.727	.638	,612	
53 (111 A-21)	.536	.534	.744	.479	.556	
54 <u>(</u> B)	.644	.699	.475	.5 93	369	
55 (V A 19)	.477	.423	.296	.474	.715	
57 (V A 7)	539	.542	.348	.572	.701	1
60 (11, A 16)	.538	.615	.412	.493	.618	
61 (111 A 12)	.352	.555.	.745	428	.519	
63 (1V C 15)	.902	.795	.537	.935	.753	
64 (1 D:7)	.666	.778	.518	.615	.485	,
65 (IV C 7)	.881	.836	.584		.710	

Table 3 (continued)

ITEMS CLASSIFIED AS IDEAL

					/	
İtem Number		. 2	3	4		•
!		,		,	*	
🥇 👸 (IV C 4) 🖟 🤚	.902	.795	.537	. 935	.753	•
67 (III A 26)	.695	. 735	777	.675	. 593	
°68 (∨ A 22) `\	.494	.395 (.306	.524	. 770	
69 (V B 38)	.594	.489	480	.616	.677	
71 (IV C 19)	.769	• . 576 ·	.496	.877	.643	
76 (ÎV C 16) 🗼	8.12 -	.741	.649	.809	.654	
,77 (1V A 10)	.769	.661	.602	. 800	. 759	
80 (V B 23)	.719	.661	.475	· .702	.755	
81 (1V C-14)	.835	.690	.371	.827	.681	
85 (111°C 12)	.502	•586	, .810	·· . 523 '	.502	•
86 (V B 14)	.730	751	.483	. 786	.716 °	
92 (111 C 27)	.470	.664	.858	.498	.441	
93 (111 C 23)	534 .	.586′, `	.858	.606	.472	
94 (IV A 5)	. 582 ,	.628	.305	.723	· \ .540	•
95 (IV C 10)	• .902	√ . 795 🔭	. 537	.935	• .753	
96 (V B 24)	.604	<i>/</i> ·.470	. 252	576	., 765	
98 (V C 15)	.463 /	· \ .496	.363 ·	.534	. 799	
100 (V-C 3)	.504 /	.509	.389	•507 [°]	.750	
	•		•		•	

the second analysis, also described above. This analysis actually consisted of two separate analyses (since each item was taken from one of two data pools consisting of items designated as ideal and items designated as unacceptable). These analyses resulted in correlations of each item with the total score of the instrument and with its total scale score (see table 4). The alphas of the five scales for ideally classified items are as follows: scale I = .96; scale 2 = .96; scale 3 = .95; scale 4 = .96; scale 5 = .95; and total alphas of the five scales for the unacceptably classified items are as follows: scale I = .95; scale 2 = .94; scale 3 = .94; scale 4 = .92; scale 5 = .89; and total alpha = .98.

Item Selection

After the sampling was completed it was decided that the Ideal length of the instrument should be 100 items, and that the forced-choice format should be changed to a five-point Likert-type scaling. Consequently, all marginal items were removed except those which correlated highly in the final analysis after having been re-classified as ideal or unacceptable. The 100 items which had the highest overall correlations for all of the analyses were, then, selected from the remaining items. Finally, these highest correlating items were examined in terms of the detailed comments made by change agents who had completed the checklist. Some items were then rewritten for greater clarity.

Due to the fact that the scaling has now been changed from forced-choice to Likert-type and, because some of the finally selected items have been rewritten, a second, and final, items analysis is planned. However, a second item analysis probably will not result in any great alteration of the present instrument, since

Table 4*

Each item correlated with total score of instrument and total scale score.

ITEMS CLASSIFIED AS UNACCEPTABLE

Correlation with total scale score Scale
Common Scale Score Scale Score
6 (I B*I3)
6 (1 B*13)
7 (III A 20)
9 (11 A 5)
12 (V B 9)
12 (V B 9)
15 (11 A 36) 6608 6750 17 (V B 15) 5427 6887 18 (1V A 19) 7202 7428 19 (111 C 2) 6606 7198 20 (1 D 5) 5668 7005 24*(1V C 8) 6911 7384 26 (11 C 8) 6561 6124 28 (1 A 6) 6725 7931 29 (1V C 29) 6653 7036 30 (111 A 7) 5210 6807 31 (1 C 5) 6758 7292 32 (11 B 32) 5864 7322 37 (1V C 28) 6310 6545 40 (1 B 11) 6379 6100 41 (11 C 5) 6298 6571 43 (V B 36) 5830 7032 48 (11 B 29) 6040 6438 51 (V B 3) 5925 7527 56 (1 C 23) 5875 6292 58 (111 A 2) 6059 6120 59 (111 B 13) 5823 7396 1702
15 (11 A 36) .6608 .6750 17 (V B 15) .5427 .6887 18 (IV A 19) .7202 .7428 19 (III C 2) .6606 .7198 20 (I D 5) .5668 .7005 24 (IV C 8) .6911 .7384 26 (I C 8) .6561 .6124 28 (I A 6) .6725 .7931 29 (IV C 29) .6653 .7036 30 (III A 7) .5210 .6807 31 (I C 5) .6758 .7292 32 (II B 32) .5864 .7322 37 (IV C 28) .6310 .6545 40 (I B II) .6379 .6100 41 (III C 5) .6298 .6571 43 (V B 36) .5830 .7032 48 (I B 32) .6040 .6438 51 (V 8 3) .5925 .7527 56 (I C 25) .5875 .6292 58 (III A 2) .6059 .6120 59 (III B I3) .5823 .7396
17 (V B 15) .5427 .6887 18 (IV A 19) .7202 .7428 19 (III C 2) .6606 .7198 20 (I D 5) .5668 .7005 24 *(IV C 8) .6911 .7384 26 (II C 8) .6561 .6124 28 (I A 6) .6725 .7931 29 (IV C 29) .6653 .7036 30 (III A 7) .5210 .6807 31 (I C 5)~ .6758 .7292 32 (II B 32) .5864 .7322 37 (IV C 28) .6310 .6545 40 (I B II) .6379 .6100 41 (II C 5) .6298 .6571 43 (V B 36) .5830 .7032 48 (II B 29) .6040 .6438 51 (V 8 3) .5925 .7527 56 (I C 23) .5875 .6292 58 (III A 2) .6059 .6120 59 (III B I3) .5823 .7396
18 (IV A 19) .7202 .7428 19 (III C 2) .6606 .7198 20 (I D 5) .5668 .7005 24 (IV C 8) .6911 .7384 26 (I C 8) .6561 .6124 28 (I A 6) .6725 .7931 29 (IV C 29) .6653 .7036 30 (III A 7) .5210 .6807 31 (I C 5) .6758 .7292 32 (II B 32) .5864 .7322 37 (IV C 28) .6310 .6545 40 (I B II) .6379 .6100 41 (II C 5) .6298 .6571 43 (V B 36) .5830 .7032 48 (II B 29) .6040 .6438 51 (V B 3) .5925 .7527 56 (I C 23) .5875 .6292 58 (III A 2) .6059 .6120 59 (III B I3) .5823 .7396
19 (111 C 2)
20 (I D 5)
24 (IV C 8) 26 (II C 8) 26 (II C 8) 28 (I A 6) 29 (IV C 29) 30 (III A 7) 31 (I C 5) 32 (II B 32) 37 (IV C 28) 40 (I B II) 41 (II C 5) 43 (V B 36) 44 (II B 29) 51 (V B 3) 55 (II B 3) 58 (II A 2) 59 (III B I3) 58 (10 C 28) 58 (11 A 2) 59 (III B 13) 58 (20 C 20
26 (11 C 8) 28 (1 A 6) 29 (1V C 29) 30 (111 A 7) 31 (1 C 5) 32 (11 B 32) 37 (1V C 28) 40 (1 B 11) 41 (11 C 5) 43 (V B 36) 44 (11 B 29) 51 (V B 3) 51 (V B 3) 51 (V B 3) 55 (1 C 23) 58 (111 A 2) 59 (111 B 13) 5823 6653 7036 7036 66807 7036 66807 7292 7292 7292 7292 7292 7292 7292 72
28 (1 A 6) .6725 .7931 29 (1V C 29) .6653 .7036 30 (111 A 7) .5210 .6807 31 (1 C 5)~ .6758 .7292 32 (11 B 32) .5864 .7322 37 (1V C 28) .6310 .6545 40 (1 B 11) .6379 .6100 41 (11 C 5) .6298 .6571 43 (V B 36) .5830 .7032 48 (11 B 29) .6040 .6438 51 (V B 3) .5925 .7527 56 (1 C 23) .5875 .6292 58 (111 A 2) .6059 .6120 59 (111 B 13) .5823 .7396
29 (IV C 29) .6653 .7036 30 (III A 7) .5210 .6807 31 (I C 5) .6758 .7292 32 (II B 32) .5864 .7322 37 (IV C 28) .6310 .6545 40 (I B II) .6379 .6100 41 (II C 5) .6298 .6571 43 (V B 36) .5830 .7032 48 (II B 29) .6040 .6438 51 (V B 3) .5925 .7527 56 (I C 23) .5875 .6292 58 (III A 2) .6059 .6120 59 (III B I3) .5823 .7396
30 (111 A 7) .5210 .6807 31 (1 C 5)~ .6758 .7292 32 (11 B 32) .5864 .7322 37 (1V C 28) .6310 .6545 40 (1 B 11) .6379 .6100 41 (11 C 5) .6298 .6571 43 (V B 36) .5830 .7032 48 (11 B 29) .6040 .6438 51 (V B 3) .5925 .7527 56 (1 C 23) .5875 .6292 58 (111 A 2) .6059 .6120 59 (111 B 13) .5823 .7396
31 (1 C 5)- .6758 .7292 32 (11 B 32) .5864 .7322 37 (1V C 28) .6310 .6545 40 (1 B 11) .6379 .6100 41 (11 C 5) .6298 .6571 43 (V B 36) .5830 .7032 48 (11 B 29) .6040 .6438 51 (V B 3) .5925 .7527 56 (1 C 23) .5875 .6292 58 (111 A 2) .6059 .6120 59 (111 B 13) .5823 .7396
32 (11 B 32) .5864 .7322 37 (1V C 28) .6310 .6545 40 (1 B 11) .6379 .6100 41 (11 C 5) .6298 .6571 43 (V B 36) .5830 .7032 48 (11 B 29) .6040 .6438 51 (V B 3) .5925 .7527 56 (1 C 23) .5875 .6292 58 (111 A 2) .6059 .6120 59 (111 B 13) .5823 .7396
37 (IV C 28) .6310 .6545 40 (I B II) .6379 .6100 41 (II C 5) .6298 .6571 43 (V B 36) .5830 .7032 48 (II B 29) .6040 .6438 51 (V B 3) .5925 .7527 56 (I C 23) .5875 .6292 58 (III A 2) .6059 .6120 59 (III B I3) .5823 .7396
40 (I B II)637961006298657 I6298657 I638070326040643859257527629260596292605961205823739658237396
41 (11°C 5) 43 (V B 36) 48 (11°B; 29) 51 (V*B*3) 56 (1 C 23) 58 (111 A 2) 59 (111 B 13) 6298 6571 7032 66438 .7032 .6040 .6438 .7527 .6292 .6059 .6120 .7396
43 (V B 36) .7032 48 (11-B: 29) .6040 .6438 .51 (V-B 3) .5925 .7527 .56 (1 C 23) .5875 .6292 .58 (111 A 2) .6059 .6120 .59 (111 B 13) .5823 .7396
48 (11-18:29)
.51 (V-B-3) .5925 .7527 .56 (1 C 23) .5875 .6292 .58 (111 A 2)6059 .6120 .59 (111 B 13) .5823 .7396
56 (1 C 23) .6292 58 (111 A 2) .6059 .6120 59 (111 B 13) .5823 .7396
58 (111 A 2)
59 (III B I3) .5823 .7396
62 (11 A 25) .5777 .0069 .7322 .7039 .7322
72 (11 C 27) .6265 .6821
72 (11 6 27)
75 (1 0 5)
74 (14 G Z1)
75 (1 6 52)
70 (11 0 217)
75 (14 15 127)
82 (II A 42)

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^{*}This table includes information only on the final 100 items selected.

**Item numbers refer to numbers used in the second experimental form of the higherucat∤onal TSC. Numbers in parenthesis refer to numbers used in the first experi-RICntal form of the higher-educational TSC 🚧

Table 4 (continued)

Each item correlated with total score of instrument and total scale score.

ITEMS CLASSIFIED AS UNACCEPTABLE (continued)

ltem Number	Correlation with total score of instrument	Correlation wi	ti total
83 (III C 26) 84 (III C 15) 87 (II B I4) 88 (III B 7) 89 (I A 5) 90 (III A 17) 91 (I D II) 97 (V B 37) 99 (II A 22)	.6298 .7181 .7297 .6220 .7094 .8343 .5906 .5014	.7470 .7968 .7975 .7399 .7328 .8699 .6863 .6958	***

ITEMS CLASSIFIED AS IDEAL

Item Number.	Correlation with total .	Correlation with total scale score
2 (V B I8) 3 (II A 26) 4 (I C 4). 5 (I D 8) 8 (V B 34) 10 (V B 5) 11 (III C II) 14 (I C I8) 16 (IV B 9) 21 (I D I4) 22 (II A 28) 23 (I A 26) 25 (IV A 2I) 27 (IV A 9) 33 (I† A 9) 34 (I D I2) 35 (II A 23) 36 (III A 5) 38 (V A I6) 39 (I A 14)	6939 .8568 .6507 .7045 .6872 .7500 .6355 .7024 .7144 .8256 .8464 .7579 .7280 .7441 .7167 .6799 .7965 .5990 .6409 .6370	.7619 .8435 .7128 .6712 .7384 .7732 .7526 .7856 .7906 .8515 .7964 .7724 .7167 .8618 .7091 .7457 .7640 .8715 .6936 .6129
42 (V A 5)	.5773	.7184

Table 4 (continued)

Each item correlated with total score of instrument and total scale score.

ITEMS CLASSIFIED AS IDEAL

Item Number		tion with total	Correlation w	ith total"
-	200.0			
44 (III B 2I)		.5429	.7654	
45 (I A ·16)	٠. /	.6194	,6166	
46 (IV B IO)		.7845 °	.8256	•
47 (1 D 19)		.7724	°8217	•
49 (11 B 5)	· .	7783	.8074	•
50 (†V B I)	.	7311	* . .8099	,
'52 (V B 7)	· · .	.7349	.6061	` <u>,</u> ' !
53 (III A 2I)		6435	°, °7519 ,	
54 (II B II)	·	7032	.7238	
55 (V A 19)	. /	5290	.7159 *	1 11
57 (V A 7)	.	.6101	.705,3	
60 (11 Å 16)	· /	,6072 .	.6152	• • •
61 (111 A 12)	/ '		7449	
63 (IV C I5)		.8957	.9347	7.5
. 64 (I D 7)	. /	.7992 <u>(</u> '	.8317	,
65 (IV C 7)	·/ ~	.8947	، 9025 · .	
66 (IV C 4)	/	.8957	.9347	, ,
67 (III A 26)	,	7801.	.7815	· ·
68 (V A'22)		.5502	7696	1,
69 (V B 38)		.6322	.6698	
71 (IV C 19)	•	,7563	. 8768	J
76 (IV C I6)	•	.8279	. 809 l. 😯	
77 (IV A 10)	. •	.8065	.8000	
80 (V B 23)		.7503	.7619	•
81 (IV C 14)	•	.7789	.8272	
85 (111 C 12)	•	. 6528 - ,	8089 .	
86 (V B 14)	. •	. 7906 .	.7233	•
92 (III C 27)	• •	.6543	.8574	
93 (III C 23)		.6805	.8574	` .
94 (IV A 5)	` ` ` '	.6338	.7231	
95 (IV C IO)		.8957	.9347	`~
-96 (V B 24)		6077	.7684	,
98 (V C I5)		.5871	7932	•
100 (V C-3)		.5955	.7515	•
100 (4 5 5)	1			
			. 14	•

the item correlations were reasonably high. Therefore, the second item analysis will be more precautionary than exploratory in nature.

:Description of Instrument

Since the instrument has been limited to 100 items in a Likert-format, the marginal items and all 16 subscales have been eliminated. The instrument now consists of 100 randomized items which can be broken into 5 distinct scales containing twenty items each. Some of the scale names have been modified for greater clarity and are now as follows:

Scale I: Organizational Climate

(Items in Scale I attempt to tap information about the Organizational climate by focusing in such variables as: the power system within the organization; the kinds of behaviors that are reinforced; organizational values and norms; and "openness" of the organization.)

- Scale II: Organizational Staff

 (Items in Scale II describe personality and leadership characteristics of faculty and administrators related to the successful adoption of innovations. Items focus an interaction between faculty members, between administrators, and between faculty and administrators. In addition, intems seek to identify attitudes and interests of the faculty,
- and administration as they are related to innovation.)

 Scale III: Communication

 (Items in Scale III are related to the communication process associated with successful adoption and implementation of innovations. The items probe the degree to which information exchange is superficial, restricted, or productive. Items also attempt to tap the quality of communication between change agents (both internal and external) and the staff
- of the institution.)
 Scale IV: Innovative Experience

(Items in Scale IV describe the experience and degree of sophistication that an institution has had with the adoption and implementation of innovations. Items attempt to identify degrees of awareness of basic information about innovations, and indications by faculty members that they have some idea how to integrate an innovation into their teaching.)

Scale V: Students

(Items in Scale V attempt to measure characteristics of students which can affect the adoption-implementation process. In measuring these characteristics of students attitudes towards the faculty, and their course work are considered to be crucial, as well as student enthusiasm. student interaction with peers and faculty, and student individuality.



Scoring of the Instrument

Detailed instructions for scoring the instrument are included with the instrument in Appendix A. In brief, a reverse key is given for unacceptably classified items, and five keys are given listing the randomized numbers for each of the five separate scales. There are a total of six scores derivable from the instrument, five scale scores and a total score.

Future Plans for the Higher Educational Based TSC.

Before the second item analysis is conducted, the higher educational based TSC will be given to organizational development specialists in order to obtain suggestions for modification of individual items. After the instrument has been scrutinized in this manner, it will be submitted to a sample of change agents, and a minimum of thirty institutions will be rated. The types of item analyses used ill be identical to those used in the first analyses.

Initial Norming and Validation

A minimum of ten external change agents will be contacted and asked to subjectively select fifty-two institutions: 25% (13) of which are ideally suited to successfully adopt an innovation; 50% (26) of which are marginally suited; and, 25% (13) of which are unacceptable. This distribution should increase the chances that a full and representative range of scores are obtained. After these fifty-two institutions have been identified, an internal change agent and faculty member for each institution will be selected and asked to rate their institution by using the TSC. Score ranges of their TSC ratings will, of course, then be used to deter-



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mine norms for the scale scores and total score.

A validity coefficient will, be determined by correlating the first group' of external change agents' subjective ratings with the second group of internal change agent and faculty ratings. However, before this validity coefficient is computed, a comparison will be made between the ratings of the internal change agent group (who may have higher status due to the fact that they are in a position to bring about change) and the faculty group. This comparison will be made to check for the contaminating affects of a higher status TSC respondent giving more favorable ratings for their institution. If these two groups do differ significantly, two separate coefficients will be recorded.

The Innovation - Free Form of the TSC

For School-Based Settings

The items for the school-based TSC were collected from two sources: an extensive literature search for information describing innovative and non-innovative schools; and, interviews with ten practicing school-based change agents. The information collected from the literature search was organized in the form of a series of referenced paragraphs summarizing study findings. Items were in turn written using these paragraphs as an information base (see Appendix B for the reference list resulting from the literature search).

In taped interviews with school-based change agents (see Appendix C for the interviewing form), the change agents were asked questions about the school and school district environment. The specific questions generally corresponded with

the major areas which emerged from the literature. The tapes were then partially transcribed for information which would be likely to yield items, and items were subsequently written. Based on these interviews and the literature search, an item pool of 500, descriptive statements has been collected to date and fall into the following seven scale areas:

Scale I: School-Based Staff

(Items in this scale describe characteristics of school-based staff in relation to the school's potential for successfully adopting innovations. The items tap information on personality and leadership styles of teachers, principals, and counselors, in relation to school innovativeness. Variables such as interpersonal and professional interaction patterns, staff attitudes, previous working experience, and demographic characteristics are also considered in this scale.)

Scale II: Communications

(Items in this scale attempt to identify communication variables which significantly affect a school's potential for successfully adopting an innovation. This scale particularly aims at uncovering information on patterns of communication both within the school and the entice school system. Particular items focus on the initiators, types, and forms of communication with respect to both formal and informal channels of communication.)

Scale III: Innovative Experience

(Items in this scale describe a school's experience with innovations and attitudes towards innovation. Items in this scale are concerned with both past attempts at innovation and present plans for innovation. Particular focus is on the degree to which a school has prepared itself for the adoption of innovations, the reasons for considering adoption of innovations, and the extent to which the school has realistically assessed its needs. The consultant role, the district role, and the community role are also considered in relation to both past and present plans for adopting innovations.)

Scale IV: Central Administration

(The Central Administration Scale focuses on relations between the central offices, school, and school board, and identifies attitudes of the central offices and school board toward innovation, their roles in relation to the school, and their awareness of the school's particular problems.)

Scale V: School/Community Relations (Items in the School/Community Relations Scale aftempt to tap information on such variables as the amount and sources of funding, the degree of interest and involvement of community groups in the school system, the social-economic environment, and attitudes of the community towards the school.)

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Scale VI: Organizational Climate

(Items in this scale describe the work climate and organizational, structure of both the school and the central district office. Some of the particular organizational variables which are tapped include: how decisions are made; how goals are established; what task groups exist; how task groups function; how planning takes place; what resources are avaiable; how resources are used; how the organizational hierarchy is defined both within the school and the school district; and, the degree of centralization within the school district.)

Scale VII: Students

(Items in this scale describe student behavior, attitudes and demographic characteristics. Items attempt to tap information on student attitudes by focusing on student behaviors in the classroom and the lunchroom, as well as particular behaviors such as absenteeism, tardiness, and number of discipline problems. Minority relations among the students, teacher/student rapport, and academic excellence are also considered to be important variables affecting the adoption/ diffusion process.

Item Analysis and Initial Validation and Norming

experimental form for the item analyses. However, before these items are submitted to a sample of change agents for the analyses, they will be given to a group of organizational specialists to be examined in the same manner as the items on the higher educational based TSC. The items, formatting, instructions, and scoring system will be identical to those of the higher educational based TSC. Similarly, the plans to date for the initial norming and validation will be the same as the plans for the higher educational based TSC (see Appendix, D for a sampling of the school-based TSC items).

Réferences

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- Manning, B. A. The "trouble shooting" checklist: A manual fo aid educational change agents in the prediction of organizational change potential. Contract No. OE-6-10-108, Austin, Texas: The University of Texas, Research and Development Center for Teacher Education, 1973.
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Appendix A

The "Trouble Shooting" Checklist (TSC) for Higher Educational Based Settings

(Experimental Form No. 2)

Please rate on a 1 - 5 scale (as indicated below), how closely each item describes the department you are rating:

- 5 = very typical
- 4 = somewhat typical
- 3 = neither typical nor untypical
- 2 = somewhat untypical
- l = very untypical 🗸
- I. Any contacts with change agents that this department requests will be at the wrong time and/or for the wrong reasons.
- The students are in frequent contact with one another (e. g., in seminars, in the field, in the learning resource center).
- 3. The faculty are concerned with increased understanding of both themselves and others.
- 4. The faculty seem to be well informed about current educational developments in many fields.
- 5. The department chairperson has support from administrators higher up in the organizational hierarchy.
- 6. Individual members of the department are not in a position to reinforce each other.
- 7. There is little real, substantial communication (e.g., evasive communications may include remarks about the financial situation, philosophical bases, what is going to be done, etc.).
- 8. The students are enthusiastically involved in the program.
- 9. The faculty cannot imagine either themselves or others in new roles.
- 10. Students' ideas are taken seriously by the faculty.
- II. Frequent contacts have resulted in an increased rapport between change agents and the department.
 - 12. The students do not respect faculty opinion.
 - 13. The department has not responded to the one or two contacts that have been made by a change agent.

- 5 = very typical
- 4 = somewhat typical
- 3 = neither typical nor untypical
- 2)= somewhat untypical
- l⊹-, very untypical
- 14. The faculty are reflective and analytical about the adoption-implementation process.
- 15. The faculty are indifferent to the interpersonal dynamics within their department.
- 6. This department uses resource material effectively to develop its own materials.
- 17. The students view their education only as a means to an end.
- 184 This/department has minimal awareness about innovation.
- 19. If the administration can be sold on an innovation, it will then be necessary to convince a doubting faculty of the administrations. Interest.
- 20. The leadership in key positions desires to maintain the status quo.
- 21. The administration is flexible:
- 22. The faculty are interested in teaching students.
- 23. The structure of the organization includes reasonably well-function communication channels.
 - 24. There are only a few faculty who are trying to arouse interest in actual trial testing of an innovation.
 - 25. The department is involved with the successful adoption of other innovations.
- 26. The deam acts as a hindrance to adoption and diffusion of innovation.
- 27. This department has already talked about modifying testing materials to fit their needs for pilot testing.
- 28. The change agent working at this department is not in a position of authority.
- 29. The faculty are threatened by new approaches



5 = very typical

4 = somewhat typical

3 = neither typical nor untypical

2 = somewhat untypical

1 = very untypical

- 30. Communications between a change agent and this department are primarily social, rather than professional.
- 31. The faculty make much noise about "standards."
- 32. The department has no recognized leadership.
- 33. The faculty exchange ideas with one another.
- 34. The dean supports the faculty in adopting innovations.
- 35. There is a willingness to initiate needed change rather than maintain the status quo.
- 36. This department feels comfortable with regular communication from the beginning of the adoption process.
- 37. Many of the faculty, while not actively opposed to innovation, will not commit themselves.
- 38. The students take initiative in seeking out challenge.
- ____ 39. There is a small group of highly involved adopters who work in close proximity.
 - 40. There is an organizational inertia at this institution
 - 41. The dean is not assertive in establishing and/or attaining goals.
- 42. The students have a high energy level.
- 43. The students are passive.
- 44. Communications result in constructive action.
- 45. There is a small group of adopters who clearly demonstrate an ability to effectively communicate with a larger faculty group in order to gain their support.

5 = very typical

4 = somewhat typical

3 = neither typical nor untypical

2 = somewhat untypical

1 = very untypical

- 46. An innovation already adopted by this department shows promise of being a catalytic force behind the adoption of future innovations.
- 47. The department chairperson is strongly supportive (e.g., through public statements, promotion rewards, provision of resources, etc.).
- 48. The department chairperson uses many cliches (e.g., why change for the sake of change? before we buy any program, we must establish a sound philosophical base. etc.).
- 49. The department chairperson is concerned with current developments relevant to an innovation under consideration for adoption.
- 50. This department characteristically discusses plans for research and refinement when considering any innovation.
- 51. The students quite often succeed in spite of the institutional influence.
- 52. The students praise their program for the interrelatedness of its courses.
- 53. This department shares their problems and experiences with a change agent.
- . 54. The department chairperson is concerned with the quality of instruction.
 - 55. The students treat each other as equals.
 - 56. The faculty do not have the knowledge to systematically adopt an innovation.
 - 57. The students are eager to share experiences and ideas with each other.
 - 58. This department may be avoiding contact with a change agent consulting on one of its projects.
 - 59. The departmental efforts in seeking out assistance in implementing innovations have been meager.
 - 60. There is mutual trust among members of the faculty

5 = very typical.

- 4 = somewhat typical
- .3 = neither typical nor untypical
- 2 = somewhat untypical
- l = very untypical _
- 61. Some individual faculty members have made much progress with respect to an innovation.
- 62. Faculty members are either insecure and/or overly protective of an image.
- 63. The faculty members are interested in how innovation can bring about specific changes in their department.
- 64. Einther the department chairperson of dean is cognizant of curriculum development procedures.
- 65. The faculty seem ready to commit themselves to adopting innovations.
- 66. The faculty are highly interested in innovation.
- 67. Communications concerning innovation have all been enthusiastic and positive.
- 68. The students are personally aware.
- 69. The students relate personal problems to faculty members.
- 70. The faculty are remote and/or actively hostile.
- 71. In the past, the high interest of the faculty has resulted in early plans toward pilot testing of innovations.
- 72. The dean is unwilling to fight with anyone above him/her.
- 73. An older faculty discourage younger faculty from remaining.
- 74. The faculty like to think of themselves as innovative because they can mention some program names.
 - 75. The faculty lack the ability to approach a new situation analytically.
 - 76. There is much reinforcement for development and implementation of innovations.

5 = very typ tacal

4 = somewhat typical

3 = neither typical nor untypical

2 = somewhat untypical

! = very untypical

- 77. This department has developed its own products and has its own well-defined standards for the acceptance of an innovation.
- 78. The department chairperson views most change as a personal affront.
- 79. Any material, regarding innovations, made available to the department, will probably remain on the shelf unexamined.
- 80. The students are encouraged to develop their own style.
- 81. All of the faculty seem equally involved in increasing the level of use of previously adopted innovations.
- 82. Some faculty may already be committed to traditional teaching methods.
- 83. This department seems to resent change agent visits.
- 84. Departmental efforts to communicate with change agents have not always been appropriate.
- 85. Contacts with change agents have been far enough apart that developments can be evaluated.
- 86. The students are constantly exposed to new ideas.
- 87. The department chairperson views the curriculum as the final word.
- 88. Long lapses in communication may occur between the department and change agents.
- 89. The supporters of innovation have serious communication problems with the faculty at large....
- 90. There are only weak endorsements instead of real commitments to any basic change within the department.
- I. The department chairperson (or direct supervisor) is not encouraged in this interest in innovation.



- ጛ = very typical
- 4 = somewhat typical
- 3 = neither typical nor untypical
- 2 = somewhat untypical
- | = very untypical
- 92. Personal visits have helped the department and change agents establish common goals.
- 93. Interested faculty members are in regular communication with change agents.
- 94. This department has had the discipline to follow precisely the directions of a developer of an innovation until they have mastered basic skills.
- 95. The faculty is highly involved in developing innovations.
- 96. The students realistically assess their own abilities and needs.
- 97. The students feel frustrated and disillusioned because of a lack of "standards" in their field.
 - 98. The students are challenged by innovative developments.
 - 99. The faculty are interested in teaching tools as opposed to ideas.
- 100. The students are excited about innovative approaches which compliment their individual learning styles.

Scoring

Reverse Key Scoring

The item numbers listed below are reverse-keyed and should have their rating values changed in the following manner:

For example, if you have marked one of the following items a "I," it should be changed to a "5" for scoring purposes; if you have marked one of the following items a "4," it should be changed to a "2" for scoring purposes.

The following items should be reverse-keyed:

· [. 13	20 . 24 26 28	30 ·	4	58	73 ′.	82	· 89
6	15	24	31	43 `	59	74 :	83	90
7	17	26	32	48 `	62	75	84	91
q	≠ 18	28	37	51	70	78 [°] • ´	87	97
12	19	29 .	40	56	72 -	7 9	`88 .	99、

Deriving Total Score

After the item ratings have been changed as described above; add up all ratings to the left of items for the total score.

Deriving Scale Scores

The scale names and descriptions are as follows:

Organizational Climate Scale 1:

(Items in this scale describe the work climate and organizational struc

ture of both the department and the institution as a whole.)

Organizational Staff Scale II:

(Items in this scale describe personality and leadership styles of faculty and administrators within the department.)



Scale III: Communication

(Items in this scale describe communications both within the department

and within the institution as a whole.)

Scale IV: Innovative Experience

(Items in this scale describe a department's experience with innovations

and attitudes towards innovation.)

Scale V: Students

(Items in this scale describe student behavior, attitudes, and demo-

graphic characteristics.)

.In order to derive each scale score, add the ratings of their respective item.

numbers listed below:

•				_	
Scale 1:	4	20	31	· 45	73
	5 .	21	34	47	75
	6	23	39	, 56 ·	89
	14	28	40 .	-64 →	91
Conto II.		26	41	60 - 0	78 [:]
Scale II:	3 9	32	48	62 -	82
	9 15	33	49 、	70	87
	T.	35	54	70 · . 72 ·	99
	22	ככ	J4 .	,	,,,
Scale III:	١.	19	53	67 :	88
	7	• 30	58	83 <i>s</i>	90
`	11	36	59 <i>.</i>	84	92
	13	44	61	85	93
					.*
Scale IV:	16	27.	50	71	79
	18	29 [′]	63	74	81
	24	37	6,5	. 76	94
	25	46 ⁻	66	7 7 `	95
. •			•		•
Scale V:	2	17	51	68	96
	8	38	52	.69	97 -
•	10	42 .	55	ء 80	98
•	12	43	. 57	86	100

Interpretation of Test Scores without Using Norms:

Since norms have not yet been developed for the higher-educational TSC, the scoring system outlined above is, for the time being, primarily demonstrative. However, since the items are both empirically and literature based, they do reveal some descriptive information about an institution. Items which are not reverse-keyed, describe characteristics of ideal institutions; items which are reverse-keyed describe characteristics of institutions which are not likely to succeed in the adoption/implementation process.

Normally-keyed items which have received high ratings (ratings of 4 or 5), describe ideal characteristics which can be observed. Conversely; low ratings on these items would indicate the extent to which the institution falls short of these ideal characteristics. If the reverse-keyed items are examined, high ratings (before reverse-keying the items) will be indicative of an institution which has characteristics inhibiting the adoption and implementation of innovations. Conversely, low ratings will describe characteristics which would be positively related to the successful adoption of innovations.

' Items within each scale can be examined in the same manner, for descriptions of how the institution stands in relation to each of the areas described by the scales.

SCALE SCORE

Scoring Sheet .

TOTAL SCORE			. •
SCALE SCORES:	•	٠	
SCALE 1:	Organizational Climate		SCALE SCORE
SCALE II:	Organizational Staff	1	SCALE SCORE
· SCALE III:	Communication .		SCALE SCORE
SCALE IV:	Innovative Experience		SCALE SCORE

Students

SCALE V:

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Appendix C

School-Based TSC Interviewing Form

I am developing a diagnostic and predictive instrument for schools which focuses on assessing the likelihood of any given school successfully adopting an innovation. The innovation could be anything from an entire IGE program to a single instructional module used in a reading or math program. I am assuming that there are sets of circumstances, conditions, characteristics, etc. which exist in order for any form of change to take place. From the correspondence that I have received in response to a similar instrument I am developing which focuses on higher educational institutions, there appears to be a very marked need for a school-based instrument which would assess such a set of conditions.

I would like to-ask you about what you think are the major characteristics of schools which add and detract from a school in its successful adjustment to change. I would like you to think about individual schools in relation to the school system and community. Rather than just asking about the entire picture at once, I will focus on one area of the school environment at a time. For example, I will first ask about a school's communication system, and then go on to ask about what types of organizational structures facilitate the change process and what types detract from the process of change, and so on.

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. Communications.

What kind of communication system would be in operation in a school which you would consider to be innovative? How about a non-innovative school?

Prompting Examples: Are communications usually by word of mouth or memo; who initiates communications; how is important information communicated—through informal or formal channels; what could be expected of communication between the particular school and the other parts of the school system—the central offices, school board, and superintendent?

2. Organizational Structure.

How would you describe the organization structure at innovative schools?

How about non-innovative schools?

Prompting Questions: What are unit structures, team structures, and interdisciplinary efforts like? Are team leaders, subunits and paraprofessionals characteristic of this school?

3. Students. How would you describe students in a school system which was ideally suited for adopting innovation.

What about students in schools which are clearly pon-innovative?.

4. Curriculum Specialists.

What would be the characteristics of curriculum specialists at innovative schools. --both with respect to their personal characteristics and their role in the school?

What about at non-innovative schools?

Counselors

What are the counselors like at innovative schools? What is their role in the school?

What would the counselors be like at non-innovative schools?

6. Central Offices

How would you describe the central offices at innovative schools? What activities should they focus on, and how would you describe their function within the school and the school system?

How about the central offices in non-innovative schools?

7. Innovative Experience

What kinds of experiences do you think innovative schools have had with innovations in the past, and what do you think would be the approach an innovative school would use in implementing an innovation?

How about a non-innovative institution?

8. School/Community Relations

What kinds of relations would one find between an innovative school and its community? What about a non-innovative school and its community?

Probe: How well informed is the community about changes in the school system?

What are the sources of funding for the innovation? How involved is the community in the school system? What is the per capita income of the community?

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9. Work Climate. How would you describe the work climate in an imnovative school, and in its central offices.

How about a non-innovative school?

10. Principal.

How would you describe the principal and his leadership style in relation to the teachers, the school board, superintendent, counselors, curriculum specialists and central offices?

What about principals in non-innovative schools?

II. Teachers.

What would you expect the teachers to be like in an innovative school?

What would you expect their role to be in the school district? How do,

you think they perceive themselves?

What about teachers in a non-innovative school?

Appendix D

Sample Items (School Based TSC)

A community group exists as a go-between for the school system and the community (e.g., an ombudsman, assessment council, and/or advisory committee).

Many students at this school are failing.

The curriculum leaders set expectations in both written and oral communications.

The innovations which have been adopted by this particular school are similar to the innovations which have been adopted by the entire district.

This organization has sufficient personnel, or will be able to acquire sufficient personnel for the successful implementation of innovations.

Board members communicate often with the superintendent.

The school administrator initiates communications with the change agent.

There are intricate requirements for the application for funding, which include specific references to procedures and evaluation.

The faculty is unaware of the curriculum specialist and his role.

This school is considering innovations that contain easily alterable materials capable of meeting the demands of varied teaching situations.

The research community and the school are in constant communication with one another.

Specific problems and needs have been identified by members of this school system.

The community is high in per capita wealth.

There is a relatively high expenditure per student.

Student tardiness is in the range of average or below average in occurrence.

The curriculum specialists have systematically collected information about the needs of the shoot through direct contact with teachers.

The curriculum specialist is a person who has been specifically trained for the job:

The students seem to have formed strict cliques among themselves

