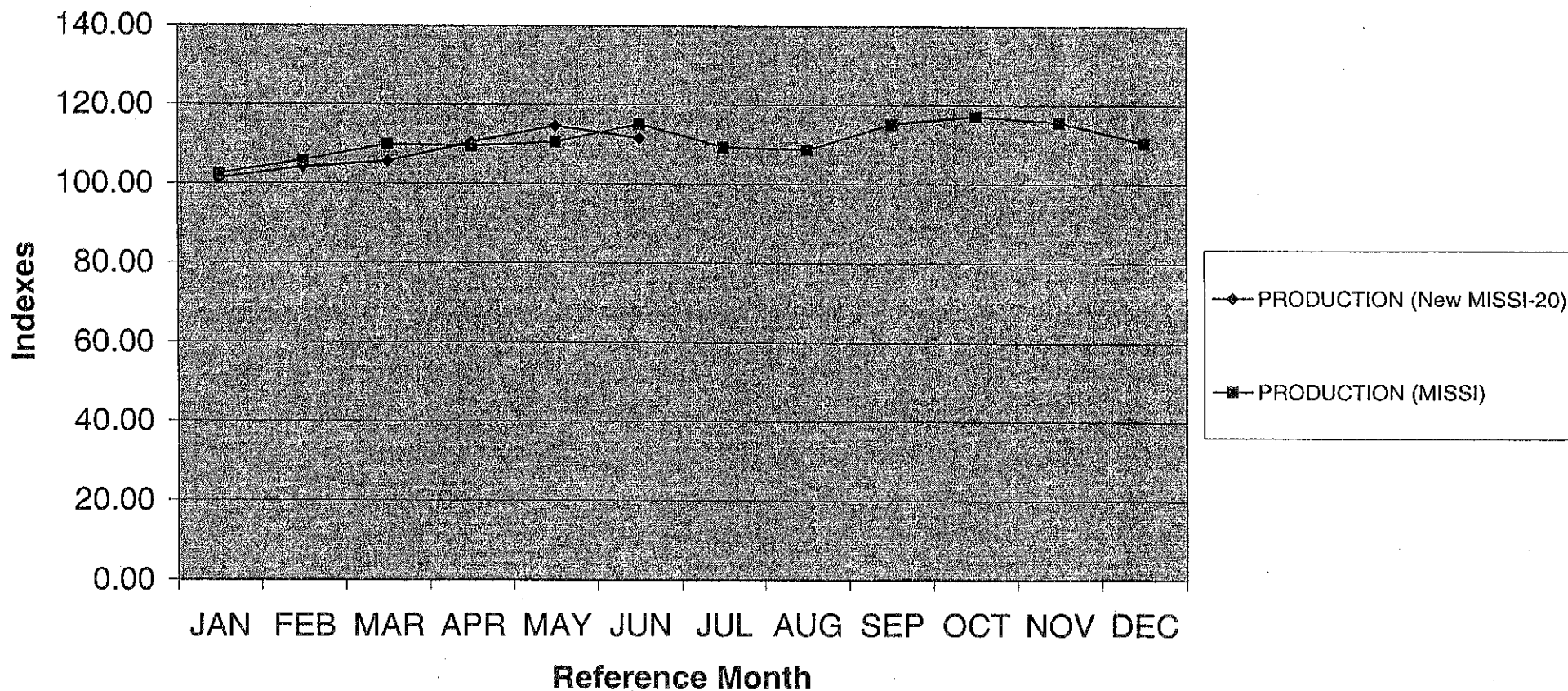


INDEXES OF TOTAL MANUFACTURING

2003/3/511:44

#	INDEXES OF TOTAL MFG.	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
I.	PRODUCTION (New MISSI-20)	101.31	104.08	105.56	110.39	114.64	111.54						
II.	PRODUCTION (MISSI)	102.44	105.81	109.93	109.45	110.55	115.05	109.31	108.65	115.03	117.12	115.62	110.39

INDEXES OF TOTAL MANUFACTURING (New MISSI-20 vs MISSI)



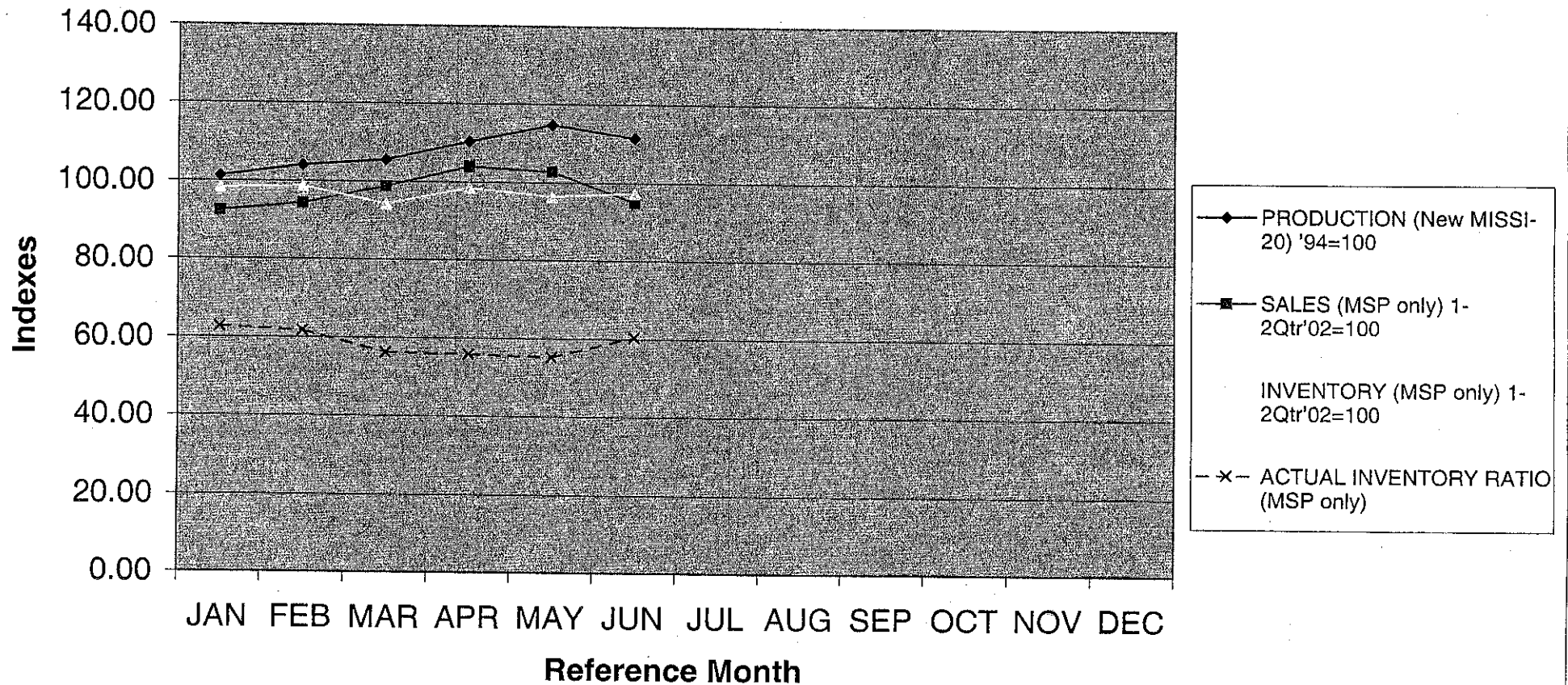
-104-

INDEXES OF TOTAL MANUFACTURING

2003/3/513:18

#	INDEXES OF TOTAL MFG. (New MISSI-20)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
I.	PRODUCTION (New MISSI-20) '94=100	101.31	104.08	105.56	110.39	114.85	111.54						
II.	SALES (MSP only) 1-2Qtr'02=100	92.44	94.39	98.83	103.96	102.75	95.08						
III.	INVENTORY (MSP only) 1-2Qtr'02=100	98.36	98.76	94.35	98.55	96.40	97.45						
IV.	ACTUAL INVENTORY RATIO (MSP only)	62.71	61.67	56.26	55.87	55.30	60.41						

INDEXES OF TOTAL MANUFACTURING (New MISSI-20)



- 105 -

Total Mfg (Production)

Group (M.S.)	Name of Mfg. (New MISSI-20)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
A	I. MANUFACTURE OF FOOD PRODUCTS	73.06	75.13	73.70	75.86	73.91	67.75						
B	II. BEVERAGES	103.60	101.82	117.98	123.01	120.40	123.54						
C	III. TOBACCO	119.90	104.77	96.32	114.38	125.84	118.33						
D	IV. TEXTILES	64.70	73.40	78.80	78.80	76.60	83.40	84.00	93.80	91.90	91.40	86.70	79.10
E	V. FOOTWEAR & WEARING APPAREL	33.70	42.80	34.70	37.40	43.00	42.50	46.40	48.50	50.90	46.50	49.60	57.20
F	VI. WOOD PRODUCTS	62.60	72.50	73.90	70.80	77.50	82.60	83.60	83.70	77.40	78.20	84.60	66.20
G	VII. FURNITURE & FIXTURES	50.10	58.80	67.20	64.70	59.40	59.50	52.20	56.20	58.50	55.80	55.10	52.40
H	VIII. PAPER & PAPER PRODUCTS	88.14	79.31	92.54	96.21	97.02	105.70						
I	IX. PUBLISHING & PRINTING	162.80	143.60	148.50	151.00	181.40	167.60	169.90	174.00	177.30	177.20	175.30	161.00
J	X. LEATHER PRODUCTS	42.80	47.20	44.40	28.40	45.70	43.90	79.50	82.30	67.10	68.30	27.80	22.00
K	XI. RUBBER PRODUCTS	68.00	60.00	58.90	56.50	58.10	54.00	54.60	60.90	58.50	61.40	47.20	48.10
L	XII. CHEMICALS PRODUCTS	133.36	130.63	118.35	143.69	158.44	138.95						
M	XIII. PETROLEUM PRODUCTS	78.06	70.75	85.43	88.71	92.22	91.36						
N	XIV. NON-METALLIC MINERAL PRODUCTS	99.86	97.04	114.24	86.86	96.18	88.80						
O	XV. BASIC METALS	59.91	65.84	56.97	62.74	54.10	67.21						
P	XVI. FABRICATED METAL PRODUCTS	129.86	148.19	153.49	160.61	179.86	195.43						
Q	XVII. MACHINERY EXCLUDING ELECTRICAL	388.10	383.00	318.40	388.80	371.80	344.10	337.70	385.80	444.30	530.60	554.60	492.00
R	XVIII. ELECTRICAL MACHINERY	170.13	194.35	206.54	193.98	207.15	207.25						
S	XIX. TRANSPORT EQUIPMENT	75.87	82.31	77.24	90.50	92.58	90.58						
T	XX. MISCELLANEOUS MANUFACTURE	69.00	76.10	72.20	85.10	87.50	73.70	77.50	79.00	82.90	81.10	75.50	68.30
	TOTAL MANUFACTURING	101.31	104.08	105.56	110.39	114.85	111.54	14.29	15.50	16.36	17.32	17.45	16.20

Total Mfg (Sales)

Group (M.S.)	Name of Mfg. (New MISSI-20)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Sales Volume as of Base Period
A	I. MANUFACTURE OF FOOD PRODUCTS	94.97	96.30	98.56	114.85	93.12	75.37							8,315,363,909
B	II. BEVERAGES	80.13	82.09	107.90	103.52	112.53	111.80							3,889,307,233
C	III. TOBACCO	100.34	90.86	92.58	102.87	107.02	106.33							4,083,693,424
D	IV. TEXTILES													
E	V. FOOTWEAR & WEARING APPAREL													
F	VI. WOOD PRODUCTS													
G	VII. FURNITURE & FIXTURES													
H	VIII. PAPER & PAPER PRODUCTS	89.99	90.32	97.84	105.94	113.87	102.00							1,307,971,962
I	IX. PUBLISHING & PRINTING													
J	X. LEATHER PRODUCTS													
K	XI. RUBBER PRODUCTS													
L	XII. CHEMICALS PRODUCTS	106.55	92.88	96.98	96.86	99.47	103.60							3,107,870,782
M	XIII. PETROLEUM PRODUCTS	81.74	101.31	102.38	107.41	106.39	100.78							8,278,299,529
N	XIV. NON-METALLIC MINERAL PRODUCTS	87.91	97.42	98.85	86.04	95.45	89.16							2,147,318,076
O	XV. BASIC METALS	111.04	99.77	97.05	98.00	110.55	83.50							1,231,072,866
P	XVI. FABRICATED METAL PRODUCTS	78.15	80.47	96.93	105.92	110.25	117.90							379,559,665
Q	XVII. MACHINERY EXCLUDING ELECTRICAL													
R	XVIII. ELECTRICAL MACHINERY	91.50	95.99	101.59	101.46	104.31	103.93							19,221,905,130
S	XIX. TRANSPORT EQUIPMENT	77.52	84.25	87.67	96.25	108.48	97.01							6,680,973,423
T	XX. MISCELLANEOUS MANUFACTURE													
	TOTAL MANUFACTURING	92.44	94.39	98.83	103.96	102.75	95.08							58,593,385,389

Total Mfg (Inventory)

Group (M.S.)	Name of Mfg. (New MISSI-20)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Inventory Volume as of Base Period
A	I. MANUFACTURE OF FOOD PRODUCTS	79.46	86.60	90.05	105.60	103.31	95.28							10,100,185,567
B	II. BEVERAGES	102.59	114.11	90.36	111.31	95.67	79.50							615,548,656
C	III. TOBACCO	102.58	104.59	97.44	95.94	100.43	99.02							3,107,012,667
D	IV. TEXTILES													
E	V. FOOTWEAR & WEARING APPAREL													
F	VI. WOOD PRODUCTS													
G	VII. FURNITURE & FIXTURES													
H	VIII. PAPER & PAPER PRODUCTS	106.03	98.11	100.27	102.14	93.78	101.47							1,187,327,695
I	IX. PUBLISHING & PRINTING													
J	X. LEATHER PRODUCTS													
K	XI. RUBBER PRODUCTS													
L	XII. CHEMICALS PRODUCTS	106.30	109.41	95.63	96.29	94.97	91.59							2,520,471,428
M	XIII. PETROLEUM PRODUCTS	112.87	97.68	94.85	90.84	100.52	103.24							8,748,272,657
N	XIV. NON-METALLIC MINERAL PRODUCTS	113.18	90.77	108.59	79.82	71.64	81.87							1,104,066,040
O	XV. BASIC METALS	92.61	101.77	98.60	101.45	82.65	122.82							954,295,680
P	XVI. FABRICATED METAL PRODUCTS	98.58	107.57	104.25	95.92	101.24	86.76							298,292,766
Q	XVII. MACHINERY EXCLUDING ELECTRICAL													
R	XVIII. ELECTRICAL MACHINERY	101.50	101.88	96.17	94.03	98.68	104.37							2,617,478,735
S	XIX. TRANSPORT EQUIPMENT	94.50	95.89	85.28	103.18	89.97	90.51							3,283,485,106
T	XX. MISCELLANEOUS MANUFACTURE													
	TOTAL MANUFACTURING	98.36	98.76	94.35	98.55	96.40	97.45							34,534,436,997

Total Mfg (Inventory Ratio)

Group (M.S.)	Name of Mfg. (New MISSI-20)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
A	I. MANUFACTURE OF FOOD PRODUCTS	101.63	109.23	110.98	111.67	134.75	153.54						
B	II. BEVERAGES	20.26	22.00	13.25	17.02	13.46	11.25						
C	III. TOBACCO	77.79	87.58	80.07	70.95	71.40	70.85						
D	IV. TEXTILES												
E	V. FOOTWEAR & WEARING APPAREL												
F	VI. WOOD PRODUCTS												
G	VII. FURNITURE & FIXTURES												
H	VIII. PAPER & PAPER PRODUCTS	106.95	96.60	93.04	87.52	74.76	90.31						
I	IX. PUBLISHING & PRINTING												
J	X. LEATHER PRODUCTS												
K	XI. RUBBER PRODUCTS												
L	XII. CHEMICALS PRODUCTS	80.91	95.53	79.97	80.63	77.43	71.70						
M	XIII. PETROLEUM PRODUCTS	145.93	101.89	97.91	89.38	99.85	108.26						
N	XIV. NON-METALLIC MINERAL PRODUCTS	66.20	47.90	56.48	47.70	38.59	47.21						
O	XV. BASIC METALS	64.65	79.07	78.75	80.24	57.96	114.02						
P	XVI. FABRICATED METAL PRODUCTS	98.47	104.35	83.96	70.69	71.68	57.44						
Q	XVII. MACHINERY EXCLUDING ELECTRICAL												
R	XVIII. ELECTRICAL MACHINERY	15.10	14.45	12.89	12.62	12.88	13.67						
S	XIX. TRANSPORT EQUIPMENT	60.36	56.35	48.17	53.08	41.07	46.20						
T	XX. MISCELLANEOUS MANUFACTURE												
TOTAL MANUFACTURING		62.71	61.67	56.26	55.87	55.30	60.41						

2003 GANTT CHART OF NSO ACTIVITIES INDUSTRY STATISTICS DIVISION

Program/Project/Activity	Timetable		Concerned Unit	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec
	Beginning	Ending													
MSP PILOT SURVEY															
Provisional Computer System Development	1-Jan	31-Mar	ISD	█	█	█	█	█	█	█	█	█	█	█	█
Printing of Forms	1-Jan	15-Jan	ISD	█	█	█	█	█	█	█	█	█	█	█	█
Addressing and Transmittal of Forms to F.O.	2nd wk of ref month	3rd wk of ref month	ISD	█	█	█	█	█	█	█	█	█	█	█	█
Distribution of Questionnaires	3rd wk of ref month	4th wk of ref mo	PO	█	█	█	█	█	█	█	█	█	█	█	█
Collection and Field Editing	2nd wk of survey mo	4th wk of survey mo	PO	█	█	█	█	█	█	█	█	█	█	█	█
Receipt and Control of Questionnaires	2nd wk of survey mo	1st wk after survey mo		█	█	█	█	█	█	█	█	█	█	█	█
Manual Editing at Central Office	2nd wk of survey mo	1st wk after survey mo	ISD	█	█	█	█	█	█	█	█	█	█	█	█
Encoding/Verification	2nd wk of survey mo	1st wk after survey mo	ISD	█	█	█	█	█	█	█	█	█	█	█	█
Index Computation and Analysis	1st wk after survey mo	2nd wk after survey mo	ISD	█	█	█	█	█	█	█	█	█	█	█	█
Permanent Computer System Development	April	Dec	ISD/IRD				█	█	█	█	█	█	█	█	█
Presentation of MSP Methodology to NSCB							█	█	█	█	█	█	█	█	█
Note: Questionnaires for 4th Qtr 2002 is also collected in the first qtr. Index computation for 2002 will be carried on until April 2003.															

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添付資料 6 NSO 工業統計部 (ISD) 2003 年度活動予定ガントチャート

SSRCS Form 3
Revised 1997

Republic of the Philippines
NATIONAL STATISTICAL COORDINATION BOARD
 2/F Midland Bucardia Bldg.,
 403 Sen. Gil J. Puyat Avenue, Makati, Metro Manila

NSCB ACTION NOTIFICATION FORM

Ref. No. PPAD-030802-08

8 March 2002

Ms. CARMELITA N. ERICTA
 Administrator
 National Statistics Office
 Sta. Mesa, Manila

Dear Administrator Ericta:

This is in response to your request for clearance of the *2002 Monthly Survey of Production (MSP)*. The approval numbers and expiration dates should be printed or stamped on the upper right corner of the first page of the final questionnaires.

While we are approving the survey for implementation, may we request the NSO to make a detailed presentation of the MSP's sampling design and estimation and imputation procedures to the Technical Committee on Survey Design (TCSD)? The next meeting of the TCSD is scheduled in April 2002. Some issues raised on the Monthly Integrated Survey of Selected Industries (MISSI), including the imputation procedures which were presented in the July 2, 2001 meeting of the TCSD, will be tackled in the April 2002 meeting. Considering that the MSP is being proposed to be undertaken for the improvement of the MISSI and with the past issues on the MISSI still unresolved, especially on its links with the Philippine System of National Accounts (PSNA), we hope that the discussion and resolution of the issues will further enhance both the MISSI and MSP as well as enhance the credibility of the PSNA estimation.

Concerning the computation of volume index, it is suggested that the chain index following Laspeyre's formula be adopted to conform with the 1993 SNA recommendation.

Thank you for your cooperation and support in our endeavor to improve the quality of surveys conducted by government agencies.

Very truly yours,

ROMULO A. VIROLA
 Secretary General

Title of statistical survey	
2002 MONTHLY SURVEY OF PRODUCTION (MSP)	
Proponent agency	Conducting agency
National Statistics Office	National Statistics Office
1 <input checked="" type="checkbox"/> CLEARANCE GRANTED, subject to the following final action:	
i) <input checked="" type="checkbox"/> All information enclosed in the box/es below must be printed or stamped on the upper right corner of the first page of the statistical survey form.	

3 REMARKS

We are reiterating the comments of the NSCB staff discussed during the meeting of the NSCB with the NSO and JICA consultant last Feb. 28, 2002, as follows:

1. The NSCB recognizes that the MSP will provide direct method of estimating volume of production by commodity.
2. The institutionalization of the MSP vis-a-vis the MISSI will be decided on by the NSO and NSCB after evaluating the results of the parallel run of the two surveys.
3. The coverage of the pilot MSP does not include nine (9) subsectors of manufacturing, namely textile, apparel and footwear, wood, furniture, publishing, leather, rubber, machinery excluding electrical and miscellaneous manufactures. There are also subsectors under food, chemical products, non-metallic mineral products, basic metal industries and electrical machinery which will not be covered by the MSP. The NSCB recommended the inclusion of these major sectors/subsectors in the MSP in order to satisfy the requirements of the national accounts.
4. Both the NSCB and NSO recognize that the MISSI response rate may suffer with the parallel run of both MISSI and MSP.

REVIEWING OFFICER

RESPONSIBLE OFFICER

Signature:

Printed Name: LETICIA D. DE LEON

Designation: Chief, Economic Sectors A Division

Date Reviewed: 8 March 2002

Signature:

Printed Name: ESTRELLA V. DOMINGO

Designation: Director, SPRMO and OIC, Office of the Assistant Secretary General

Date: 8 March 2002

Signature:

Printed Name:

Designation: Coordinator, Technical Committee on Survey Design (TCSD)

Date:



Republic of the Philippines
NATIONAL STATISTICAL COORDINATION BOARD
2/F Midland Buendia Bldg.,
403 Sen. Gil J. Puyat Avenue, Makati, Metro Manila

NSCB ACTION NOTIFICATION FORM

Ref. No. PPI-21102-19

11 December 2002

Ms. CARMELITA N. ERICTA
Administrator
National Statistics Office
Sta. Mesa, Manila

Dear Administrator Ericta:

This refers to your request for clearance of the 2002 Monthly Survey of Production (MSP). Please find below the clearance numbers assigned to the survey. The clearance numbers and expiration dates should be printed or stamped on the upper right corner of the first page of the final questionnaires.

We have, however, comments and suggestions on the survey which we have indicated under Remarks on third page of this form for your consideration. We also would like to inform you that discussions of the MSP and other establishment surveys will be scheduled in the Technical Committee on Survey Design early next year.

Thank you for your cooperation and support in our endeavor to improve the quality of surveys conducted by government agencies.

Very truly yours,

Estrella V. Domingo

ESTRELLA V. DOMINGO
Officer-in-Charge
Office of the Secretary General

Title of statistical survey

MONTHLY SURVEY OF PRODUCTION (MSP)

Proponent agency

National Statistics Office

Conducting agency

National Statistics Office

1 **CLEARANCE GRANTED**, subject to the following final action:

1) All information enclosed in the box/es below must be printed or stamped on the upper right corner of the first page of the statistical survey form.

(a) Questionnaire Title: MSP Form I-151: Monthly Survey of Production – Processed Meat, Fish, Fruits and Vegetables

NSCB Approval No. NSO-0219-01 Expires 31 March 2004

(b) Questionnaire Title: MSP Form I-152: Monthly Survey of Production – Dairy Products

NSCB Approval No. NSO-0219-02 Expires 31 March 2004

- (c) Questionnaire Title: MSP Form 1-154: Monthly Survey of Production – Animal Feeds and Grain Milling

NSCB Approval No. NSO-0219-03 Expires 31 March 2004

- (d) Questionnaire Title: MSP Form 1-155: 2002 Monthly Survey of Production – Beverage

NSCB Approval No. NSO-0219-04 Expires 31 March 2004

- (e) Questionnaire Title: MSP Form 1-157: 2002 Monthly Survey of Production – Milled and Refined Sugar

NSCB Approval No. NSO-0219-05 Expires 31 March 2004

- (f) Questionnaire Title: MSP Form 1-158: 2002 Monthly Survey of Production – Coconut and Vegetable Oil (Crude and Refined)

NSCB Approval No. NSO-0219-06 Expires 31 March 2004

- (g) Questionnaire Title: MSP Form 1-160: 2002 Monthly Survey of Production – Tobacco Products

NSCB Approval No. NSO-0219-07 Expires 31 March 2004

- (h) Questionnaire Title: MSP Form 1-210: 2002 Monthly Survey of Production – Paper and Paper Products

NSCB Approval No. NSO-0219-08 Expires 31 March 2004

- (i) Questionnaire Title: MSP Form 1-232: 2002 Monthly Survey of Production – Refined Petroleum Products

NSCB Approval No. NSO-0219-09 Expires 31 March 2004

- (j) Questionnaire Title: MSP Form 1-241: 2002 Monthly Survey of Production – Basic Chemicals

NSCB Approval No. NSO-0219-10 Expires 31 March 2004

- (k) Questionnaire Title: MSP Form 1-242: 2002 Monthly Survey of Production – Chemical Products

NSCB Approval No. NSO-0219-11 Expires 31 March 2004

- (l) Questionnaire Title: MSP Form 1-261: 2002 Monthly Survey of Production – Glass Products

NSCB Approval No. NSO-0219-12 Expires 31 March 2004

- (m) Questionnaire Title: MSP Form 1-262: 2002 Monthly Survey of Production – Cement

NSCB Approval No. NSO-0219-13 Expires 31 March 2004

- (n) Questionnaire Title: MSP Form 1-271: 2002 Monthly Survey of Production – Basic Iron and Steel

NSCB Approval No. NSO-0219-14 Expires 31 March 2004

- (o) Questionnaire Title: MSP Form 1-272: 2002 Monthly Survey of Production – Non-Ferrous Metals

NSCB Approval No. NSO-0219-15 Expires 31 March 2004

- (p) Questionnaire Title: MSP Form 1-281: 2002 Monthly Survey of Production – Fabricated Metal Products

NSCB Approval No. NSO-0219-16 Expires 31 March 2004

(q) Questionnaire Title: MSP Form 1-291: 2002 Monthly Survey of Production – Domestic Electric Appliances

NSCB Approval No. NSO-0219-17

Expires 31 March 2004

(r) Questionnaire Title: MSP Form 1-300: 2002 Monthly Survey of Production – Office, Accounting and Computing Machinery

NSCB Approval No. NSO-0219-18

Expires 31 March 2004

(s) Questionnaire Title: MSP Form 1-314: 2002 Monthly Survey of Production – Batteries and Lighting Equipment

NSCB Approval No. NSO-0219-19

Expires 31 March 2004

(t) Questionnaire Title: MSP Form 1-321: 2002 Monthly Survey of Production – Electronic Valves, TV and Radio Transmitters and Line Telephony

NSCB Approval No. NSO-0219-20

Expires 31 March 2004

(u) Questionnaire Title: MSP Form 1-324: 2002 Monthly Survey of Production – TV and Radio Receivers, and Sound or Video Recording Apparatus

NSCB Approval No. NSO-0219-21

Expires 31 March 2004

(v) Questionnaire Title: MSP Form 1-341: 2002 Monthly Survey of Production – Motor Vehicles and Other Transport Equipment

NSCB Approval No. NSO-0219-22

Expires 31 March 2004

(w) Questionnaire Title: MSP Form 1-343: 2002 Monthly Survey of Production – Parts and Accessories for Motor Vehicles

NSCB Approval No. NSO-0219-23

Expires 31 March 2004

ii) Submit a copy of the printed forms/questionnaires with the clearance number to the Statistical Programs and Resource Management Office, NSCB.

iii) Others. (Specify)

Please furnish the NSCB copies of the survey results.

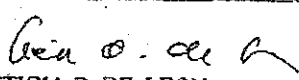
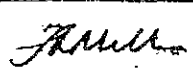
2 DISAPPROVED, for the following reasons:

3 REMARKS

The following are the comments and suggestions of the NSCB for clarification/for your consideration:

1. The institutionalization of the MSP vis-a-vis the MISSI will be decided after evaluating the results of the parallel run of the two surveys. How long will the parallel run be conducted before evaluation will be undertaken?

2. Concerning the computation of volume index, it is suggested that the chain index following Laspeyre's formula be adopted to conform with the 1993 SNA recommendation.
3. The coverage of the pilot MSP does not include nine (9) subsectors of manufacturing, namely textile, apparel and footwear, wood, furniture, publishing, leather, rubber, machinery excluding electrical and miscellaneous manufactures. There are also subsectors under food, chemical products, non-metallic mineral products, basic metal industries and electrical machinery which will not be covered by the MSP. The NSCB recommends the inclusion of these major sectors/subsectors in the MSP in order to satisfy the requirements of the national accounts.

REVIEWING OFFICIAL	RECOMMENDING OFFICIAL
<p>Signature: </p> <p>Printed Name: LETICIA D. DE LEON</p> <p>Designation: Chief, Programs, Policies and Advocacy Division</p> <p>Date Reviewed: 11 December 2002</p>	<p>Signature: </p> <p>Printed Name: FRANCISCO K. MALLION</p> <p>Designation: Director, Programs, Policies and Standards Office</p> <p>Date: 11 December 2002</p>
TCSD RECOMMENDATION ATTESTED BY	
<p>Signature:</p> <p>Printed Name:</p> <p>Designation: Coordinator, Technical Committee on Survey Design (TCSD)</p> <p>Date:</p>	

TECHNICAL NOTES
ON
NEW MISSI

March 20th, 2003
Manila, Philippines

JICA - MSP TEAM

Transmittal

March 20, 2003

ATT: Ms. Carmelita N. Ericta
Administrator, NSO
Re: Technical Notes on New MISSI
CC: Ms. Estela T. De Guzman - Director of ITSD
Ms. Lourdes V. Homecillo - Chief of ISD
Mr. Efren Armonia

Dear Ms. Ericta,

We are pleased to present "Technical Notes on New MISSI" that supersedes the draft technical notes we distributed in the last MSP meeting on March 17, 2003. Your suggestions and discussions in the said meeting have been incorporated.

Starting with the objectives and concept of the new MISSI, Technical Notes summarize joint works of the NSO and JICA-MSP team since October 2002 to date. In addition we inserted our recommendations in this document. Outstanding issues to solve before the institutionalization of the new MISSI are also indicated.

We hope that you will make good use of this document for the scheduled negotiation with NSCB for the start of the new MISSI on a regular basis next year.

Best regards,



Toru Moriguchi
JICA-MSP Team

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Technical Notes on New MISSI ^(*)

By JICA – MSP Team

March 20th, 2003

1 Objectives and Principles of Monthly Survey of Production (MSP)

1.1 Objectives

- To generate and disseminate the absolute figures of each target commodity.
- To generate and disseminate the industrial indices of each commodity, sector, major sector, and the total manufacturing.

1.2 Principles

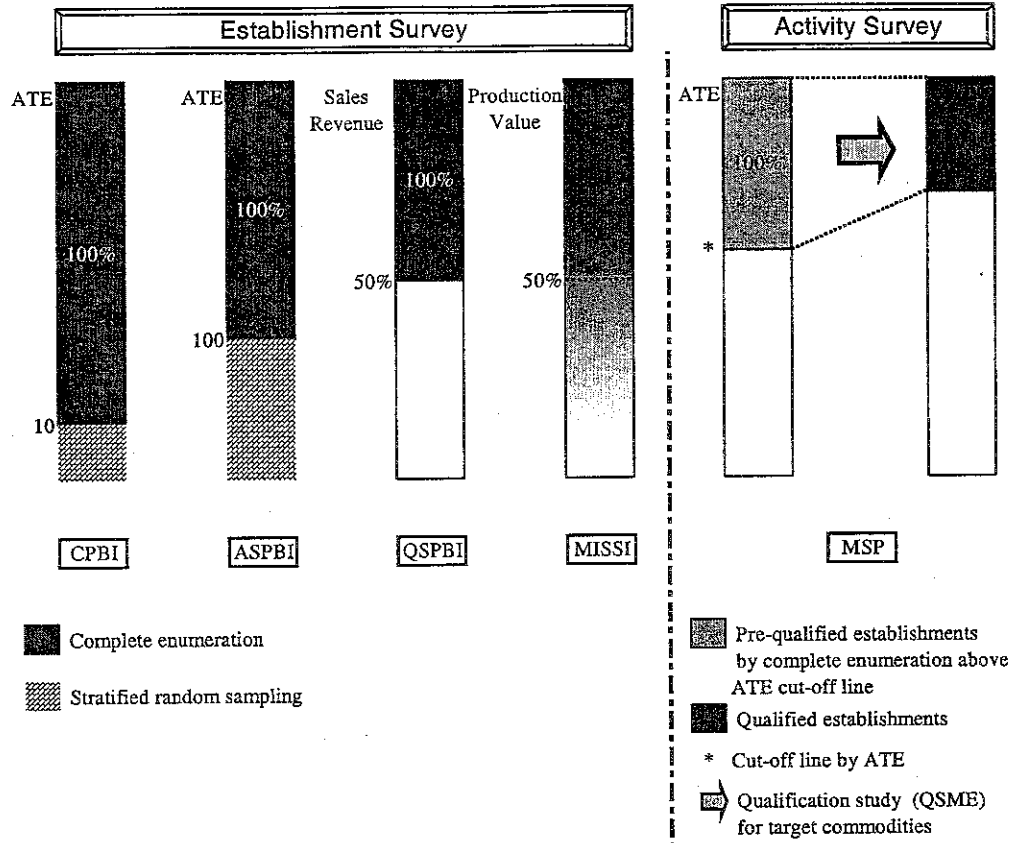
- Monthly survey of production (MSP) should essentially be a complete survey covering all the establishments with ATE above a designated cut-off line producing target commodities (Figure 1).
- Those establishments qualified but non-cooperative to the survey cannot be replaced by others.
- Survey target of MSP is not “establishment” but “activity” (or “commodity”). (Table 1). Representative commodities are selected for each target sector as indicators of production trend of the sector.

Table 1: Survey Target

Survey	Sampling Unit	Survey Target
CPBI	Establishment	Local Unit (= Establishment)
ASPBI	Establishment	Local Unit (= Establishment)
QSPBI	Establishment	Local Unit (= Establishment)
MISSI	Establishment	Local Unit (= Establishment)
MSP	Establishment	Activity Unit (= Commodity)

^(*) New MISSI is a sector-wise combination of MSP and current MISSI.

Figure 1: Target Establishment Selection



2 Key Establishments for MSP

2.1 Concept of Key Establishments

- Key establishments for MSP are selected for each sector according to the following criterion:

Those establishments which have continuously responded to the survey during the base period (January – June 2002).

- Performance of key establishments are considered to represent the production trend of the commodity.
- Omission of any key producer from key establishments distorts the survey results, which misrepresent the sector performance.
- Those establishments which are not selected as the key establishments will not be excluded from the survey, so that they may be added to the key establishments once they become continuous respondents.

2.2 Preparation of Base Figures and Commodity Weight

(a) Base figures

- Monthly average volumes of production, sales and inventory of the key establishments during the base period make the base figures of production, sales and inventory respectively for the commodity index.
- Missing data of key establishments after all the efforts for following-up to the establishments need to be estimated. As explained in Figure 2, if an establishment has responded for at least 3 reference months (Jan., Feb. and Mar. for example), it is selected for the key establishments and missing data for the remaining months shall be estimated using monthly average.

Figure 2: Key Establishments and Data for Commodity Index and Commodity Weight

Commodity YYY of Sector XXX

	2002						
	January	February	March	April	May	June	Monthly Average
* Establishment-A	60	70	50	60	70	50	60
* Establishment-B	30	20	40	40	30	20	30
* Establishment-C	10	20	30	30	20	10	20
Establishment-D							
* Establishment-E	50	40	30	30	40	50	40
* Establishment-F	25	30	35	30	30	30	30
Establishment-G			10		15		
Establishment-H							

Monthly Base Figure							180
Monthly Commodity Index	$175/180 \times 100$	$180/180 \times 100$	$185/180 \times 100$	$190/180 \times 100$	$190/180 \times 100$	$160/180 \times 100$	
	97.22	100.00	102.78	105.56	105.56	88.89	
Average Commodity Index	100.00						

* Key Establishment



Estimated data



Establishment not selected for "Key Establishments" because of non-response or discontinuous responses during the base period.

(b) Commodity weight

- Once the base figures have been fixed, the commodity weight shall be calculated using the following formulas:

Commodity value for weight (CV)
= Monthly average volume \times Monthly average unit price

$$\text{Commodity weight} = \frac{CV_i}{\sum_{i=1}^n CV_i}$$

i : Commodities belonging to a sector ($i = 1, 2, 3, \dots, n$)

* Same formulas shall be applied to production, sales and inventory.

2.3 Inclusion of Non-responsive Key Producers in Key Establishments

- It is recommended to include non-responsive key producers, if any, in the “key establishments” with estimated monthly production volume, even if they do not return the questionnaires at all, in order to secure a smooth data processing and index computation when they start responding in the future.

3 Formula for MSP Index

$$Q_t = \frac{\sum_{i=1}^n p_{i0} q_{it}}{\sum_{i=1}^n p_{i0} q_{i0}} \times 100 = \frac{\sum_{i=1}^n p_{i0} q_{i0} \times \left(\frac{q_{it}}{q_{i0}} \times 100 \right)}{\sum_{i=1}^n p_{i0} q_{i0}} = \left[\frac{\sum_{i=1}^n p_{i0} q_{i0}}{\sum_{i=1}^n p_{i0} q_{i0}} \times \left(\frac{q_{it}}{q_{i0}} \times 100 \right) \right]$$

$\sum_{i=1}^n p_{i0} q_{i0}$
 $\times \left(\frac{q_{it}}{q_{i0}} \times 100 \right)$

Commodity Index
Weight

Q : Aggregated index

q : Volume

p : Price

0 : Base period

t : Current period

i : Selected commodities ($i = 1, 2, 3, \dots, n$)

- MSP applies Laspeyres-type formula for computation of volume index, which uses a fixed base period and weight. It is not the chain index with a changeable base period and weight.
- New MISSI computer system does not apply “chaining” for index computation as is used in the current MISSI.

4 Industrial Indices of MSP at Commodity Level

(a) Production index (P)

$$P_{it} = \frac{q_{it}^P}{q_{i0}^P} \times 100 \quad q^P : \text{Volume of production, } 0 : \text{Base period,}$$

t : Current period,
 i : Selected commodities ($i = 1, 2, 3, \dots, n$)

(b) Sales index (S)

$$S_{it} = \frac{q_{it}^S}{q_{i0}^S} \times 100 \quad q^S : \text{Volume of sales}$$

(c) Inventory index (I)

$$I_{it} = \frac{q_{it}^I}{q_{i0}^I} \times 100 \quad q^I : \text{Volume of inventory}$$

(d) Inventory ratio index (IR)

$$IR_{it} = \frac{q_{it}^I}{q_{i0}^I} \div \frac{q_{it}^S}{q_{i0}^S} \times 100 \quad q^I : \text{Volume of inventory, } q^S : \text{Volume of sales}$$

* New MISSI computer system does not support tabulation of IR.

(e) Actual inventory ratio (AIR)

$$AIR_{it} = \boxed{IR_{it} \times \frac{q_{i0}^I}{q_{i0}^S}} = \left(\frac{q_{it}^I}{q_{i0}^I} \div \frac{q_{it}^S}{q_{i0}^S} \times 100 \right) \times \frac{q_{i0}^I}{q_{i0}^S} = \frac{q_{it}^I}{q_{it}^S} \times 100$$

IR_{it} multiplied by a constant $\left(= \frac{q_{i0}^I}{q_{i0}^S} \right)$ is equal to AIR_{it} .

(f) Production capacity index (C)

$$C_{it} = \frac{q_{it}^C}{q_{i0}^C} \times 100 \quad q^C : \text{Volume of production capacity}$$

* C is computed only for selected commodities listed in Table 2.

(g) Capacity utilization index (CU)

$$CU_{it} = \frac{q_{it}^P}{q_{i0}^P} \div \frac{q_{it}^C}{q_{i0}^C} \times 100$$

q^P : Volume of production, q^C : Volume of production capacity

* CU is computed only for selected commodities listed in Table 2.

Table 2: Selected Commodities for Production Capacity Index and Capacity Utilization Index of MSP

PSIC: Sector Name	Commodity Name
157: Milled and refined sugar	- Sugar
160: Tobacco products	- Cigarettes - Cigars
210: Paper and paper products	- Packaging paper and board - Newsprint - Printing or writing paper
241: Basic chemicals	- Polystyrene - Polyethylene - Polyvinyl chloride - Polypropylene
232: Refined petroleum products	- Gasoline
262: Cement	- Cement
291: Domestic electric appliances	- Refrigerators - Washing machines - Air conditioning units
300: Office, accounting and computing machinery	- Hard disk drive
324: TV and radio receivers, and sound or video recording apparatus	- Color television set
341: Motor vehicles and bodies for motor vehicles	- Passenger cars/utility vehicles, excluding jeepney
359: Motorcycles	- Motorcycles

5 Aggregation Level and Base Year for New MISSI Industrial Indices

5.1 Aggregation Level

Table 3: Aggregation Levels of New MISSI Industrial Indices

Aggregation Level	Index Name	Remark
Total manufacturing industry	Total manufacturing index	---
Major sector	Major sector index	Same as the current MISSI's major sector
Sector	Sector index	Based on PSIC 3-digit. Corresponding to MISSI's sub-sector.
Commodity	Commodity index	Commodity specified in the MSP questionnaires

5.2 Base Year

Table 4: Base Year (*1)

Item Level	Production Index (*2)	Sales Index	Inventory Index	Inventory Ratio Index	Actual Inventory Ratio	Production Capacity Index	Capacity Utilization Index
Total Mfg.	1994 (*3)	--- (*3)	--- (*3)	---	---	---	---
Major Sector	1994	2002	2002	2002	No base year	---	---
Sector	2002 → 1994	2002	2002	2002	No base year	---	---
Commodity	2002	2002	2002	2002	No base Year	2002	2002

Notes: New MISSI computer system does not support tabulation of inventory ratio index.

*1 The original base year (period) for MSP is the first 6 months (Jan. – Jun.) of 2002.

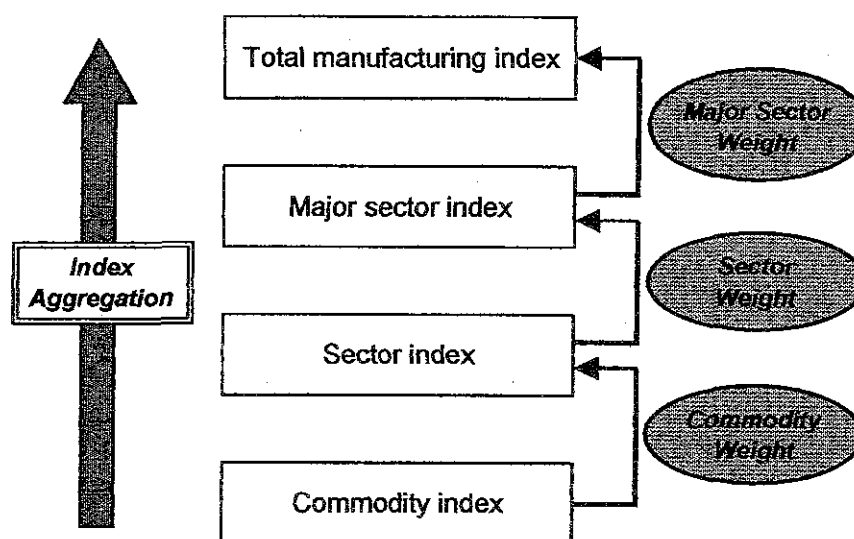
*2 The base year of production index shall be converted to 1994 at sector level, based on the conversion coefficient from VoPI of the current MISSI, as explained in chapter 7.

*3 Please see chapter 8.

6 Weight for Index Aggregation

6.1 Weight Level

Figure 3: Weight Level



6.2 Weight Type Used for MSP

Table 5: Weight Types used for MSP according to Index Items and Levels

Index Item	Weight Level	Weight Type
Production Index	Sector and major sector	Weight used for MISSI's VaPI and sales
	Commodity	Production-value weight from 2002 MSP
Sales Index	Sector and major sector	Weight used for MISSI's VaPI and sales
	Commodity	Sales-value weight from 2002 MSP
Inventory Index, (Inventory Ratio Index)	Sector and major sector	Inventory-value weight from 1994 CE
	Commodity	Inventory-value weight from 2002 MSP

Note: Production capacity index and capacity utilization index do not need weights as they shall be computed only for selected commodities.

6.3 Value Data from 1994 CE for Weight Calculation

Table 6: Sources of Value Data

Major Sector Weight	1994 Census of Establishment (CE)
Sector Weight	
Commodity Weight	2002 Monthly Survey of Production (MSP)

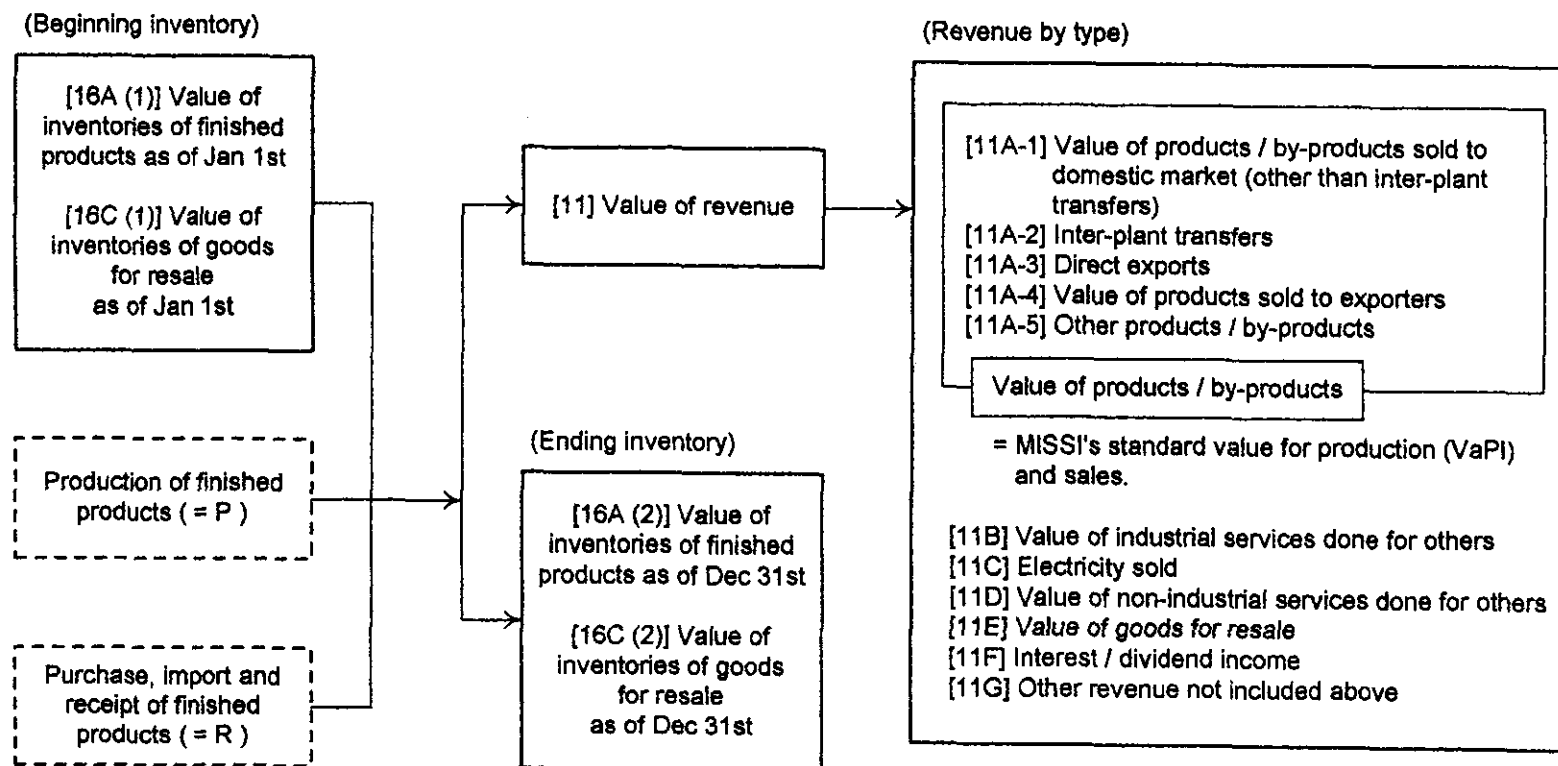
Table 7: Details of Value Data from 1994 CE

	Weight Used for VaPI and sales of MISSI, and production and sales indices of MSP	Sales Value Weight (*)	Inventory Value Weight Used for MSP
[11A-1] Value of products/by-products sold to domestic market	X	(X)	
[11A-2] Inter-plant transfers	X		
[11A-3] Direct exports	X	(X)	
[11A-4] Value of products sold to exporters	X	(X)	
[11A-5] Other products/by-products	X		
[11B] Value of industrial services			
[11C] Electricity sold			
[11D] Value of non-industrial services			
[11E] Value of goods for resale		(X)	
[11F] Interest/dividend income			
[11G] Other revenue not included above			
[16A (1)] Value of inventories of finished products as of January 1 st of the year			
[16A (2)] Value of inventories of finished products as of December 31 st of the year			X
[16C (1)] Value of inventories of goods for resale as of January 1 st of the year			
[16C (2)] Value of inventories of good for resale as of December 31 st of the year			X

Note: Codes in brackets correspond to the question-item No. of 1994 CE.

* Sales-value weight could be calculated from 1994 CE but is not used.

Figure 4: Value Data Available from 1994 CE for Weight Calculation



Notes : Codes in brackets correspond to the question items of 1994 CE.

— Available from 1994 CE.
 — Not specifically quoted by 1994 CE but can be calculated as follows.

$$"R" = [11E] + [16C (2)] - [16C (1)]$$

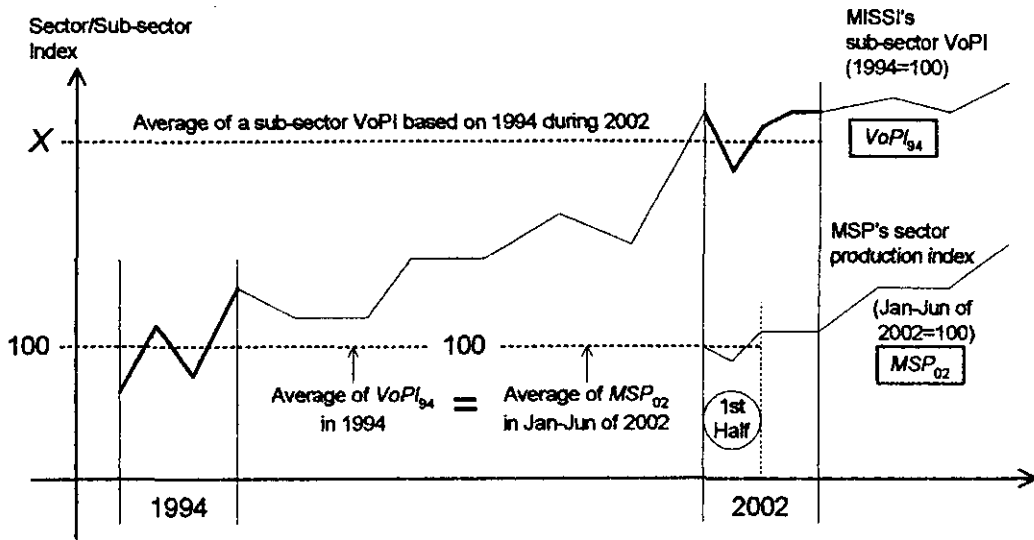
$$"P" = [11A-1] + [11A-2] + [11A-3] + [11A-4] + [11A-5] + [16A (2)] - [16A (1)]$$

Theoretically, "P" should have been used for production weight.

7 Base Year Conversion

- The present official base year for statistical surveys of the Philippines, including MISSI, is the year of 1994. The original base year of MSP's production index (Jan. – Jun. 2002) shall be re-based to 1994 by applying a base year conversion ratio.
- Base year conversion shall be executed at sector level. "Sector" of MSP is the level basically corresponding to "sub-sector" of the current MISSI.
- The method of base year conversion is illustrated in Figure 5.

Figure 5: Base Year Conversion from 2002 to 1994 at Sector Level



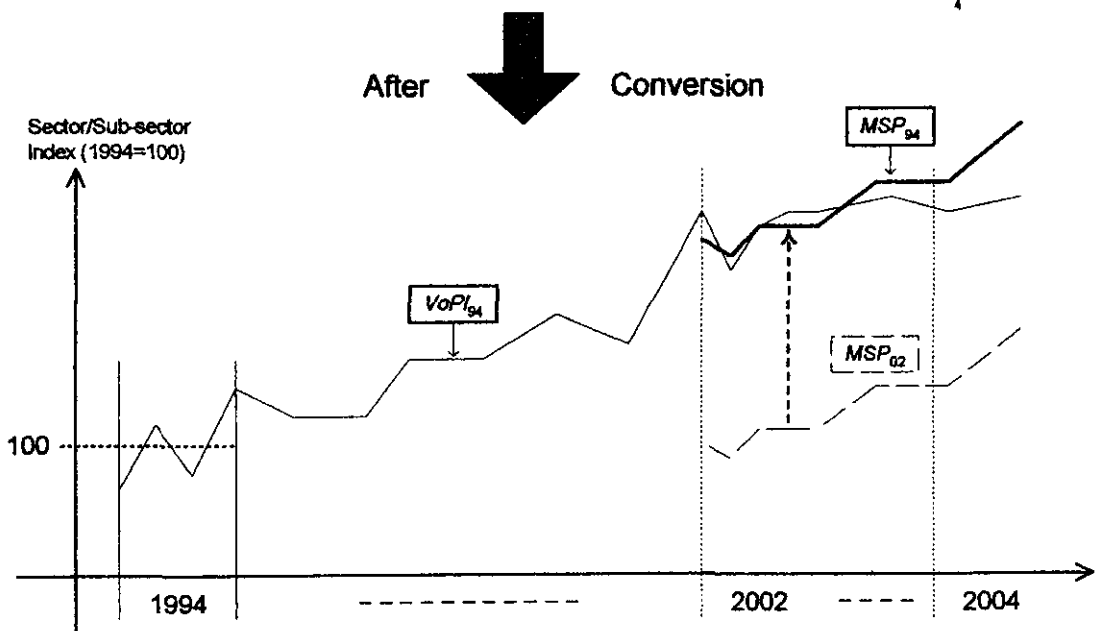
MISSI's volume of production index (VoPI) for a sub-sector (1994 = 100) : $VoPI_{94}$

MSP's production index for a sector (Jan-Jun of 2002 = 100) : MSP_{02}

MSP's sector production index after base year conversion (1994 = 100) : MSP_{94}

Base year conversion coefficient (from Jan-Jun of 2002 to 1994) : $CC = \frac{X}{100}$

$$MSP_{94} = MSP_{02} \times CC = MSP_{02} \times \frac{X}{100}$$



8 Aggregated Index for Total Manufacturing

8.1 "New MISSI-12" and "New MISSI-20"

- JICA – MSP Team proposes that the total manufacturing index under New MISSI scheme shall be composed of selected 12 major sectors (= New MISSI-12). See Table 8 and Attachment-1.
- If New MISSI covers all the major sectors under the current MISSI, the total manufacturing index will consist of 20 major sectors (= New MISSI-20).

Table 8: New MISSI-12 and -20 for Total Manufacturing Index

Major Sector	New MISSI-12	New MISSI-20
A. Food Manufacturing	DM	DM
B. Beverage	DM	DM
C. Tobacco	DM	DM
D. Textile	---	IM
E. Wearing apparel & footwear	IM	IM
F. Wood products	---	IM
G. Furniture and fixtures	---	IM
H. Paper and paper products	DM	DM
I. Publishing and printing	---	IM
J. Leather products	---	IM
K. Rubber products	---	IM
L. Chemical products	DM (*1)	DM (*1)
M. Petroleum products	DM	DM
N. Non-metallic mineral products	DM	DM
O. Basic metals	DM	DM
P. Fabricated metal products	DM	DM
Q. Machinery excluding electrical	---	IM
R. Electrical machinery	DM (*2)	DM (*2)
S. Transport equipment	DM	DM
T. Miscellaneous manufactures	---	IM

[Denotation] "DM": direct method (MSP), "IM": indirect method (MISSI),
 "---" : out of scope

*1 In major sector L, sector 252 (plastic products) is measured by indirect method.

*2 In major sector R, sector 322 (microcircuits) is measured by indirect method.

Table 9: Major Sectors to be Measured by Indirect Method

In case of New MISSI-12	In case of New MISSI-20
E: Wearing apparel & footwear	D: Textile E: Wearing apparel & footwear F: Wood products G: Furniture and fixtures I: Publishing and printing J. Leather products K. Rubber products Q: Machinery excluding electrical T: Miscellaneous manufactures

Note: For all the major sectors above, major sector VoPIs are available from MISSI.

Table 10: Sectors to be Measured by Indirect Method

In both case of New MISSI-12 and New MISSI-20
PSIC 252: Plastic products PSIC 322: Microcircuits

Note: For 252, there is no VoPI available. For 322, a sector VoPI is available.

8.2 Total Manufacturing Index on Sales and Inventory

- If “volume of sales index” and “volume of inventory index” with base year of 2002 for the major sectors by indirect method are retroactively calculated, the total manufacturing index on sales and inventory can be obtained for New MISSI-12 and/or -20 (Table 11).

Table 11: Components of Total Mfg. Index on Production, Sales and Inventory

Scheme	Components		
	Production Index	Sales Index	Inventory Idx.
New MISSI-12	12 major sectors (*1)	12 (*2) (Base year: 2002)	
New MISSI-20	20 major sectors (*1)	20 (*2) (Base year: 2002)	

(*1) Available with MSP production index and MISSI's VoPI.

(*2) Available if the sales and inventory indices for major sectors by indirect method are calculated.

9 Start-up of Dissemination of Absolute Figures and New Indices

9.1 Absolute Figures

- In order for the new MISSI to make a new departure giving impact and benefit on MISSI users, the dissemination of absolute figures of production of as many commodities as possible is strongly recommended.
- Out of 156 MSP target commodities, for fourteen (14) commodities listed on Table 12 QSME did not identify any qualified establishments and during the pilot survey no establishments responded to them. These commodities may be dropped from the target commodities of MSP.

Table 12: Commodities to be Dropped from MSP

	Commodity No.	Commodity Name
1	152-101	Condensed milk
2	152-102	Evaporated milk
3	261-105	Fluorescent glass
4	271-101	Long products (wire rods)
5	281-107	Drum
6	300-103	Projector
7	300-106	Calculator
8	321-102	Microwave tube
9	321-103	Receiver/amplifier valve and tube
10	321-105	Television camera
11	321-108	Fax machine
12	324-110	Answering machine
13	343-102	Gear box
14	343-106	Axle

- Then, out of remaining 142 commodities, to the following ten (10) commodities listed on Table 13 no establishments responded during the pilot survey.

Table 13: Commodities with No Response

	Commodity No.	Commodity Name
1	155-103	Bottled water
2	271-105	Flat products (tin plates)
3	281-104	Window frame
4	300-105	Scanner
5	321-101	Television picture tube
6	321-107	Cellular phone
7	324-107	Video cassette tape player (VCP)
8	324-112	Digital audio disc (CD) player
9	324-113	Tape/disc (blank)
10	343-105	Chassis

- Consequently production data of a total of 132 commodities are available for commodity index computation. These 132 commodities are also potential commodities for dissemination of absolute production figures.
- Before dissemination of absolute figures, data reliability must be carefully examined referring to available sector information and consulting sector specialists inside and outside the NSO. According to the preliminary study done by JICA-MSP team, the production data of the 21 commodities shown on Table 14 have been found within a reliable range.

Table 14: Commodities of which Reliable Production Data Were Obtained

	Commodity No.	Commodity Name	Source of Reference Data	Number of Responding Establishments
1	160-101	Cigarette	A	4
2	210-101	Packaging paper and board	B	15
3	210-102	Newsprint	B	6
4	232-101	Gasoline (Regular)	A	3
5	232-102	Gasoline (High octane)	A	3
6	232-105	Kerosene	A	3
7	241-104	Polyethylene (PE)	A	1
8	241-106	Polypropylene (PP)	A	2
9	242-104	Paint	C	6
10	261-101	Flat glass	C	1
11	261-104	Figured glass	C	1
12	262-101	Portland cement	A	11
13	262-102	Pozzolan cement	A	5
14	300-104	Printer	C	2
15	300-107	Hard disk drive	C	4
16	321-104	Radio/television transmitter	C	2
17	324-101	Color television set	C	5
18	324-103	Car audio	C	2
19	341-101	Passenger car	B and C	4
20	341-103	Utility vehicle (other utility vehicle)	B and C	9
21	359-101	Motorcycles	C	5

Note: Source of Reference Data A Industrial association or Government agency (See Attachment-2.)

Source of Reference Data B Interview to industrial association

Source of Reference Data C Interview to leading establishment

- It is suggested that dissemination of absolute production figures be started with 14 commodities highlighted with thick letters above to which more than two establishments respond.

9.2 Industrial Indices

(a) Number of Indices to be Computed

Table 15: Number of Industrial Indices to be Computed by New MISSI Computer System

Item	Number by Aggregation Level			
	Commodity	Sector	Major Sec.	Total Mfg.
Production Index	132	24	11	1
Sales Index	132	24	11	---
Inventory Index	132	24	11	---
Actual Inventory Ratio	132	24	11	---
Production Capacity Index & Capacity Utilization Index	19	---	---	---

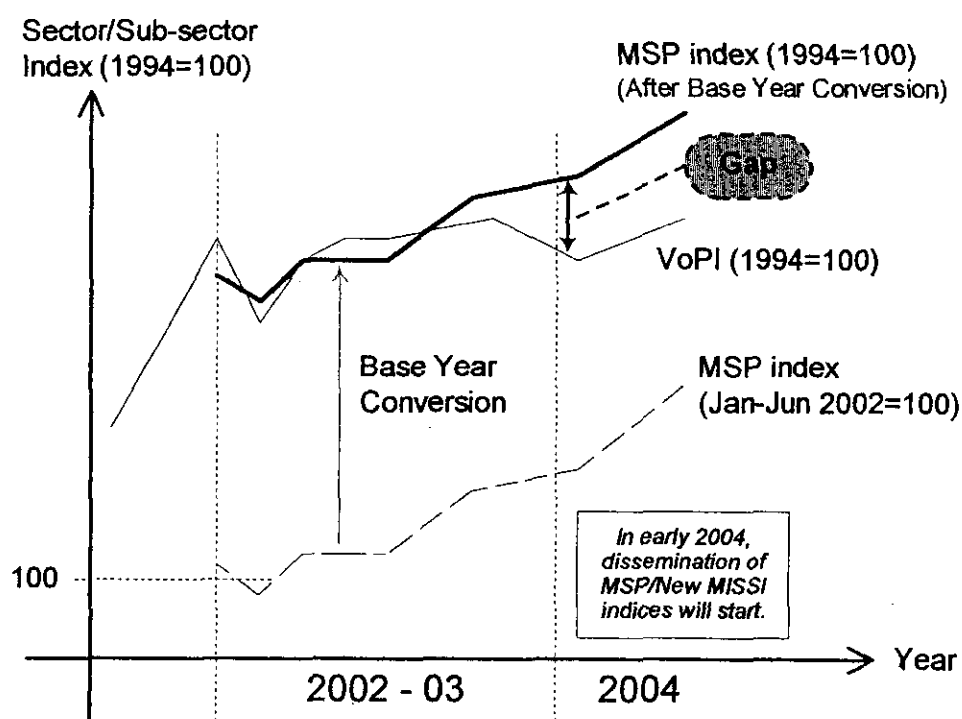
- Production indices at sector, major sector and total manufacturing levels will be disseminated in place of VoPI of the current MISSI. Other indices are new, dissemination of which is expected to increase the interest and benefit of MISSI users.
- It is suggested that, as a new set of indices, 1) production indices at commodity level and 2) sales/inventory indices at sector and major sector levels be disseminated.

(b) Gap between MISSI Index (VoPI) and MSP Production Index

- Dissemination of MSP (New MISSI) production index will launch in early 2004, of which time series starts in January 2002.
- There will be a gap between MISSI index (VoPI) and MSP production index (after the base year conversion to 1994) at sector level, during 2002 – 03, as illustrated in Figure 6. This is due to the difference in sample frames and methodology.

- New MISSI production indices shall be disseminated as they are without any adjustment of index gap at sector, major sector and total manufacturing levels. An explanatory note and time series data of new indices during 2002 – 03 should be provided to have statistical users understand the relation between the two.

Figure 6: Gap between VoPI and MSP Production Index at Sector Level during 2002-03



Note: See Figure 5 in chapter 7 for the method of base year conversion.

10 Operation of New MISSI

10.1 Prompt Data Collection for Timely Dissemination

- In order to secure timely dissemination of New MISSI statistics, necessary data must be obtained from the target establishments (especially from the key establishments) as soon as possible.
- Prompt collection of questionnaires by the NSO provincial offices is one of the crucial factors for timeliness.
- Once the questionnaires are returned to the NSO head office, following-up to the establishments, when necessary, must be done directly by the head office staff. For the recommended operation flow, please see Attachment-3. The head office staff need to establish communication channels with target establishments.

10.2 Imputation of Missing Data of Key Establishments

- For index computation, all the data of key establishments must be reported. However, there may be times when imputation cannot be helped. Imputation will be done by one of the following methods.

(a) Applying figures of the previous month

- The figures of the previous month are used as the relevant imputed data.

(b) Applying figures of the same month of the previous year

- The figures of the same month of the previous year are used as the relevant imputed data.

(c) Applying growth rate of the other establishments

- The imputed figure for the current month is obtained by multiplying the previous month's figure for the commodity by the average growth rate from the previous month of the other establishments.

11 Maintenance of Key Establishments and Index Adjustment

11.1 Maintenance of Key Establishments

- To keep the coverage of 70% or more in each target sector of the manufacturing industry, the list of key establishments for the new MISSI should be continuously maintained and updated following the established procedures.

(a) Newborn establishments

- First, confirm through field works or by phone 1) whether or not their ATE is above designated cut-off line and 2) whether or not they are producing any of the target commodities specified in the questionnaire sheet. If qualified, the questionnaire sheet should be distributed to them.
- If they well respond to the survey during at least 3 consecutive months, add them in the key establishments.
- Their volume data are considered for index computation and added to the absolute figures for dissemination. To avoid confusion on the users, explanatory notes may be needed for the first dissemination.

(b) New establishments found in Updated Mater List of Establishment

- List of target establishments of the new MISSI should be updated annually using the latest Master List of Establishment.
- If new establishments are found in the latest Master List of Establishment, confirm through field works or by phone 1) whether or not their ATE is above designated cut-off line and 2) whether or not they are producing any of the target commodities specified in the questionnaire sheet. If qualified, the questionnaire sheet should be distributed to them.
- If they well respond during at least 3 consecutive months, add them to the key establishments.
- Their volume data are considered for index computation and index gap must be adjusted.

- Their volume data are added to the absolute figures for dissemination. To avoid confusion on the users, explanatory notes may be needed for the first dissemination.
- In case that a newly-found establishment is a key producer of the commodity having considerable market share since the base period of the survey (Jan. to Jun of 2002), collect the past production data since 2002 in order to revise the base figures for index computation, commodity weight, and time series of absolute figures and indices.

(c) Bankrupt establishments

- Bankrupt establishments will be deleted from the target establishment list whether or not they are key establishments. In case of key establishments, their deletion will be reflected in index and absolute figures.
 - They will not be replaced by any other establishments.
- * Members of key establishments will not be replaced by others for the reason of not being cooperative.