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SENSITIVE**

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**SAMPLING PROCEDURES AND TABLES
FOR INSPECTION BY ATTRIBUTES**



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SAMPLING PROCEDURES AND TABLES FOR INSPECTION BY ATTRIBUTES

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FOREWORD

This publication provides sampling procedures and reference tables for use in planning and conducting inspection by attributes. The sampling concept is based on the probabilistic recurrence of events when a series of lots or batches are produced in a stable environment.

This publication should be used to guide the user in the development of an inspection strategy that provides a cost effective approach to attaining confidence in product compliance with contractual technical requirements. The user is warned of the assumed risks relative to the chosen sample size and AQL.

Military specifications should not contain requirements for use of specific sampling plans, nor should they provide AQL's or LTPD's as a requirement.

Sampling plans for continuous, rather than lot inspection, are contained in MIL-STD-1235, "Single and Multi-Level Continuous Sampling Procedures and Tables for Inspection by Attributes".

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SAMPLING PROCEDURES AND TABLES
FOR INSPECTION BY ATTRIBUTES

1. SCOPE

1.1 Purpose. This publication establishes lot or batch sampling plans and procedures for inspection by attributes. This publication shall not be interpreted to supercede or conflict with any contractual requirements. The words "accept", "acceptance", "acceptable", etc, refer only to the contractor's use of the sampling plans contained in this standard and do not imply an agreement by the Government to accept any product. Determination of acceptability by the Government shall be as described in contractual documents. The sampling plans described in this standard are applicable to AQL's of .01 percent or higher and are therefore not suitable for applications where quality levels in the defective parts per million range can be realized.

1.2 Application. Sampling plans designated in this publication are applicable, but not limited, to inspection of the following:

- a. End items.
- b. Components and raw materials.
- c. Operations or services.
- d. Materials in process.
- e. Supplies in storage.
- f. Maintenance operations.
- g. Data or records.
- h. Administrative procedures.

These plans are intended primarily to be used for a continuing series of lots or batches. The plans may also be used for the inspection of isolated lots or batches, but, in this latter case, the user is cautioned to consult the operating characteristic curves to find a plan which will yield the desired protection (See 4.11).

2. REFERENCED DOCUMENTS

2.1 Not applicable.

3. DEFINITIONS

3.1 Acceptable Quality Level (AQL). When a continuous series of lots is considered, the AQL is the quality level which, for the purposes of sampling inspection, is the limit of a satisfactory process average (See 3.19).

NOTE: A sampling plan and an AQL are chosen in accordance with the risk assumed. Use of a value of AQL for a certain defect or group of defects indicates that the sampling plan will accept the great majority of the lots or batches provided the process average level of percent defective (or defects per hundred units) in these lots or batches be no greater than the designated value of AQL. Thus, the AQL is a designated value of percent defective (or defects per hundred units) for which lots will be accepted most of the time by the sampling procedure being used. The sampling plans provided herein are so arranged that the probability of acceptance at the designated AQL value depends upon the sample size, being generally higher for large samples than for small ones, for a given AQL. The AQL alone does not identify the chances of accepting or rejecting individual lots or batches but more directly relates to what might be expected from a series of lots or batches, provided the steps indicated in this publication are taken. It is necessary to refer to the operating characteristic curve of the plan to determine the relative risks.

3.2 Average Outgoing Quality (AOQ). For a particular process average, the AOQ is the average quality of outgoing product including all accepted lots or batches, plus all rejected lots or batches after the rejected lots or batches have been effectively 100 percent inspected and all defectives replaced by non-defectives.

3.3 Average Outgoing Quality Limit (AOQL). The AOQL is the maximum AOQ for a given acceptance sampling plan. Factors for computing AOQL values are given in Table V-A for each of the single sampling plans for normal inspection and in Table V-B for each of the single sampling plans for tightened inspection.

3.4 Classification of Defects. A classification of defects is the enumeration of possible defects of the unit of product classified according to their seriousness.

3.5 Critical Defect. A critical defect is a defect that judgement and experience indicate would result in hazardous or unsafe conditions for individuals using, maintaining, or depending upon the product, or a defect that judgement and experience indicate is likely to prevent performance of the tactical function of a major end item such as a ship, aircraft, tank, missile, or space vehicle.

3.6 Critical Defective. A critical defective is a unit of product which contains one or more critical defects and may also contain major and/or minor defects.

3.7 Defect. A defect is any nonconformance of the unit of product with specified requirements.

3.8 Defective. A defective is a unit of product which contains one or more defects.

3.9 Defects per Hundred Units. The number of defects per hundred units of any given quantity of units of product is one hundred times the number of defects contained therein (one or more defects being possible in any unit of product) divided by the total number of units of product, i.e.:

$$\text{Defects per hundred units} = \frac{\text{Number of defects} \times 100}{\text{Number of units inspected}}$$

3.10 Inspection. Inspection is the process of measuring, examining, testing, or otherwise comparing the unit of product with the requirements.

3.11 Inspection by Attributes. Inspection by attributes is inspection whereby either the unit of product is classified simply as defective or non-defective, or the number of defects in the unit of product is counted, with respect to a given requirement or set of requirements.

3.12 Lot or Batch. The term lot or batch shall mean "inspection lot" or "inspection batch", i.e., a collection of units of product from which a sample is to be drawn and inspected and may differ from a collection of units designated as a lot or batch for other purposes (e.g., production, shipment, etc.).

3.13 Lot or Batch Size. The lot or batch size is the number of units of product in a lot or batch.

3.14 Major Defect. A major defect is a defect, other than critical, that is likely to result in failure, or to reduce materially the usability of the unit of product for its intended purpose.

3.15 Major Defective. A major defective is a unit of product which contains one or more major defects, and may also contain minor defects but contains no critical defect.

3.16 Minor Defect. A minor defect is a defect that is not likely to reduce materially the usability of the unit of product for its intended purpose, or is a departure from established standards having little bearing on the effective use or operation of the unit.

3.17 Minor Defective. A minor defective is a unit of product which contains one or more minor defects but contains no critical or major defect.

3.18 Percent Defective. The percent defective of any given quantity of units of product is one hundred times the number of defective units of product contained therein divided by the total number of units of product, i.e.:

$$\text{Percent Defective} = \frac{\text{Number of defectives} \times 100}{\text{Number of units inspected}}$$

3.19 Process Average. The process average is the average percent defective or average number of defects per hundred units (whichever is applicable) of product submitted by the supplier for original inspection. Original inspection is the first inspection of a particular quantity of product as distinguished from the inspection of product which has been resubmitted after prior rejection.

3.20 Sample. A sample consists of one or more units of product drawn from a lot or batch, the units of the sample being selected at random without regard to their quality. The number of units of product in the sample is the sample size.

3.21 Sample Size Code Letter. The sample size code letter is a device used along with the AQL for locating a sampling plan on a table of sampling plans.

3.22 Sampling Plan. A sampling plan indicates the number of units of product from each lot or batch which are to be inspected (sample size or series of sample sizes) and the criteria for determining the acceptability of the lot or batch (acceptance and rejection numbers).

3.23 Unit of Product. The unit of product is the thing inspected in order to determine its classification as defective or non-defective or to count the number of defects. It may be a single article, a pair, a set, a length, an area, an operation, a volume, a component of an end product, or the end product itself. The unit of product may or may not be the same as the unit of purchase, supply, production, or shipment.

4. GENERAL REQUIREMENTS

4.1 Written Procedures. Written procedures are ordinarily developed and made available for the Government representative's review, upon request. When the written procedures indicate use of this standard, they shall comply with the requirements of this standard and reference appropriate parts as necessary.

4.2 Nonconformance. The extent of nonconformance of product shall be expressed either in terms of percent defective or in terms of defects per hundred units.

4.3 Formation and Identification of Lots or Batches. The product shall be assembled into identifiable lots, sublots, batches, or in such other manner as may be prescribed. Each lot or batch shall, as far as is practicable, consist of units of product of a single type, grade, class, size, and composition, manufactured under essentially the same conditions, and at essentially the same time. The lots or batches shall be identified by the contractor and shall be kept intact in adequate and suitable storage space.

4.4 AQL.

4.4.1 AQL Use. The AQL, together with the Sample Size Code Letter, is used for indexing the sampling plans provided herein.

4.4.2 Limitation. The selection or use of an AQL shall not imply that the contractor has the right to supply any defective unit of product.

4.4.3 Choosing AQLs. Different AQLs may be chosen for groups of defects considered collectively, or for individual defects. An AQL for a group of defects may be chosen in addition to AQLs for individual defects, or subgroups, within that group. AQL values of 10.0 or less may be expressed either in percent defective or in defects per hundred units; those over 10.0 shall be expressed in defects per hundred units only.

4.5 Sampling.

4.5.1 Representative (Stratified) Sampling. When appropriate, the number of units in the sample shall be selected in proportion to the size of sublots or sub-batches, or parts of the lot or batch, identified by some rational criterion. When representative sampling is used, the units from each subplot, sub-batch or part of the lot or batch shall be selected at random.

4.5.2 Time of Sampling. A sample may be drawn after all the units comprising the lot or batch have been assembled, or sample units may be drawn during assembly of the lot or batch, in which case the size of the lot or batch will be determined before any sample units are drawn. If the sample units are drawn during assembly of the lot or batch, and if the rejection number is reached before the lot is completed, that portion of the lot already completed shall be rejected. The cause of the defective product shall be determined and corrective action taken, after which a new lot or batch shall be begun.

4.5.3 Double or Multiple Sampling. When double or multiple sampling is to be used, each sample shall be selected over the entire lot or batch.

4.6 Inspection Procedures. Normal inspection will be used at the start of inspection. Normal, tightened or reduced inspection shall continue unchanged for each class of defects or defectives on successive lots or batches except where the switching procedures given below require change. The switching procedures shall be applied to each class of defects or defectives independently.

4.7 Switching Procedures.

4.7.1 Normal to Tightened. When normal inspection is in effect, tightened inspection shall be instituted when 2 out of 2, 3, 4, or 5 consecutive lots or batches have been rejected on original inspection (i.e., ignoring resubmitted lots or batches for this procedure).

4.7.2 Tightened to Normal. When tightened inspection is in effect, normal inspection shall be instituted when 5 consecutive lots or batches have been considered acceptable on original inspection.

4.7.3 Normal to Reduced. When normal inspection is in effect, reduced inspection shall be instituted provided that all of the following conditions are satisfied:

a. The preceding 10 lots or batches (or more, as indicated by the note to Table VIII) have been on normal inspection and all have been accepted on original inspection; and

b. The total number of defectives (or defects) in the samples from the preceding 10 lots or batches (or such other number as was used for condition "a" above) is equal to or less than the applicable number given in Table VIII. If double or multiple sampling is in use, all samples inspected should be included, not "first" samples only; and

c. Production is at a steady rate; and

d. Reduced inspection is considered desirable.

4.7.4 Reduced to Normal. When reduced inspection is in effect, normal inspection shall be instituted if any of the following occur on original inspection:

a. A lot or batch is rejected; or

b. A lot or batch is considered acceptable under the procedures of 4.10.1.4, or

c. Production becomes irregular or delayed; or

d. Other conditions warrant that normal inspection shall be instituted.

4.8 Discontinuation of Inspection. If the cumulative number of lots not accepted in a sequence of consecutive lots on original tightened inspection reaches five, the acceptance procedures of this standard shall be discontinued. Inspection under the provisions of this standard shall not be resumed until corrective action has been taken. Tightened inspection shall then be used as if 4.7.1 had been invoked.

4.9 Sampling Plans.

4.9.1 Inspection Level. The inspection level determines the relationship between the lot or batch size and the sample size. The inspection level to be used for any particular requirement will be as prescribed by the contractor's written procedures. Three inspection levels: I, II, and III, are given in Table I for general use (see 4.1). Normally, Inspection Level II is used. However, Inspection Level I may be used when less discrimination is needed, or Level III may be used for greater discrimination. Four additional special levels: S-1, S-2, S-3, and S-4, are given in the same table and may be used where relatively small sample sizes are necessary and large sampling risks can or must be tolerated.

NOTE: In the selection of inspection levels S-1 to S-4, care must be exercised to avoid AQLs inconsistent with these inspection levels. In other words, the purpose of the special inspection levels is to keep samples small when necessary. For instance, the code letters under S-1 go no further than D, equivalent to a single sample of size 8, but it is of no use to choose S-1 if the AQL is 0.10 percent for which the minimum sample is 125.

4.9.2 Code Letters. Sample sizes are designated by code letters. Table I shall be used to find the applicable code letter for the particular lot or batch size and the prescribed inspection level.

4.9.3 Obtaining Sampling Plan. The AQL and the code letter shall be used to obtain the sampling plan from Tables II, III, or IV. When no sampling plan is available for a given combination of AQL and code letter, the tables direct the user to a different letter. The sample size to be used is given by the new code letter, not by the original letter. If this procedure leads to different sample sizes for different classes of defects, the code letter corresponding to the largest sample size derived may be used for all classes of defects. As an alternative to a single sampling plan with an acceptance number of 0, the plan with an acceptance number of 1 with its correspondingly larger sample size for a designated AQL (where available), may be used.

4.9.4 Types of Sampling Plans. Three types of sampling plans: Single, Double, and Multiple, are given in Tables II, III, and IV, respectively. When several types of plans are available for a given AQL and code letter, any one may be used. A decision as to type of plan, either single, double, or multiple, when available for a given AQL and code letter, will usually be based upon the comparison between the administrative difficulty and the average sample sizes of the available plans. The average sample size of multiple plans is less than for double (except in the case corresponding to single acceptance number 1) and both of these are always less than a single sample size (see Table IX). Usually the administrative difficulty for single sampling and the cost per unit of the sample are less than for double or multiple.

4.10 Determination of Acceptability.

4.10.1 Percent Defective Inspection. To determine acceptability of a lot or batch under percent defective inspection, the applicable sampling plan shall be used in accordance with 4.10.1.1, 4.10.1.2, 4.10.1.3, and 4.10.1.4.

4.10.1.1 Single Sampling Plan. The number of sample units inspected shall be equal to the sample size given by the plan. If the number of defectives found in the sample is equal to or less than the acceptance number, the lot or batch shall be considered acceptable. If the number of defectives is equal to or greater than the rejection number, the lot or batch shall be rejected.

4.10.1.2 Double Sampling Plan. A number of sample units equal to the first sample size given by the plan shall be inspected. If the number of defectives found in the first sample is equal to or less than the first acceptance number, the lot or batch shall be considered acceptable. If the number of defectives found in the first sample is equal to or greater than the first rejection number, the lot or batch shall be rejected. If the number of defectives found in the first sample is between the first acceptance and rejection numbers, a second sample of the same size shall be inspected. The number of defectives found in the first and second samples shall be accumulated. If the cumulative number of defectives is equal to or less than the second acceptance number, the lot or batch shall be considered acceptable. If the cumulative number of defectives is equal to or greater than the second rejection number, the lot or batch shall be rejected.

4.10.1.3 Multiple Sample Plan. Under multiple sampling, the procedure shall be similar to that specified in 4.10.1.2, except that the number of successive samples required to reach a decision may be as many as seven.

4.10.1.4 Special Procedure for Reduced Inspection. Under reduced inspection, the sampling procedure may terminate without either acceptance or rejection criteria having been met. In these circumstances, the lot or batch will be considered acceptable, but normal inspection will be reinstated starting with the next lot or batch (see 4.7.4.b).

4.10.2 Defects per Hundred Units Inspection. To determine the acceptability of a lot or batch under defects per hundred units inspection, the procedure specified for percent defective inspection above shall be used, except that the word "defects" shall be substituted for "defectives".

4.11 Limiting Quality Protection. The sampling plans and associated procedures given in this publication were designed for use where the units of product are produced in a continuing series of lots or batches over a period of time. However, if the lot or batch is of an isolated nature, it is desirable to limit the selection of sampling plans to those, associated with a designated AQL value, that provide not less than a specified limiting quality protection. Sampling plans for this purpose can be selected by choosing a Limiting Quality (LQ) and a consumer's risk to be associated with it. Tables VI and VII give values of LQ for the commonly used consumer's risks of 10 percent and 5 percent respectively. If a different value of consumer's risk is required, the O.C. curves and their tabulated values may be used. The concept of LQ may also be useful in specifying the AQL and Inspection Levels for a series of lots or batches, thus fixing minimum sample size where there is some reason for avoiding (with more than a given consumer's risk) more than a limiting proportion of defectives (or defects) in any single lot or batch.

4.12 Curves.

4.12.1 Operating Characteristic Curves. The operating characteristic curves for normal inspection, shown in Table X, indicate the percentage of lots or batches which may be expected to be accepted under the various sampling plans for a given process quality. The curves shown are for single sampling; curves for double and multiple sampling are matched as closely as practicable. The O.C. curves shown for AQLs greater than 10.0 are based on the Poisson distribution and are applicable for defects per hundred units inspection; those for AQLs of 10.0 or less and sample sizes of 80 or less are based on the binomial distribution and are applicable for percent defective inspection; those for AQLs of 10.0 or less and sample sizes larger than 80 are based the Poisson distribution and are applicable either for defects per hundred units inspection, or for percent defective inspection (the Poisson distribution being an adequate approximation to the binomial distribution under these conditions). Tabulated values, corresponding to selected values or probabilities of acceptance (P_a , in percent) are given for each of the curves shown, and, in addition, for tightened inspection, and for defects per hundred units for AQLs of 10.0 or less and sample sizes of 80 or less.

4.12.2 Average Sample Size Curves. Average sample size curves for double and multiple sampling are in Table IX. These show the average sample sizes which may be expected to occur under the various sampling plans for given levels of process quality. The curves assume no curtailment of inspection and are approximate to the extent that they are based upon the Poisson distribution, and that the sample sizes for double and multiple sampling are assumed to be $0.631n$ and $0.25n$ respectively, where n is the equivalent sample size.

SECTION 5
TABLES AND CURVES

TABLE I—Sample size code letters

(see 4.9.1 and 4.9.2)

Lot or batch size	Special inspection levels				General inspection levels		
	S-1	S-2	S-3	S-4	I	II	III
2	A	A	A	A	A	A	B
to							
9	A	A	A	A	A	B	C
to							
16	A	A	B	B	B	C	D
to							
26	A	B	B	C	C	D	E
to							
51	B	B	C	C	C	E	F
to							
91	B	B	C	D	D	F	G
to							
151	B	C	D	F	E	G	H
to							
281	B	C	D	E	F	H	J
to							
501	C	C	E	F	F	J	K
to							
1201	C	D	E	G	H	K	L
to							
3201	C	D	F	G	J	L	M
to							
10001	C	D	F	H	K	M	N
to							
35001	D	E	G	J	L	N	P
to							
150000	D	E	G	J	M	P	Q
to							
500000	D	E	H	K	N	Q	R
to							
500001	D	F	H	K	N	Q	R
and							
over							

TABLE II-A—Single sampling plans for normal inspection (Master table)

(see 4.9.3 and 4.9.4)

Sample size code letter	Acceptable Quality Levels (normal inspection)																					
	0.010	0.015	0.025	0.040	0.065	1.0	1.5	2.5	4.0	6.5	10	15	25	40	65	100	150	250	400	650	1000	
	Ac	Re	Ac	Re	Ac	Re	Ac	Re	Ac	Re	Ac	Re	Ac	Re	Ac	Re	Ac	Re	Ac	Re	Ac	Re
A	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1
B	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1
C	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1
D	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1
E	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1
F	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1
G	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1
H	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1
I	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1
J	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1
K	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1
L	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1
M	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1
N	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1
O	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1
P	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1
Q	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1
R	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1

Use first sampling plan below error. If sample size equals, or exceeds, lot or batch size, do 100 percent inspection.
 Use first sampling plan above error.
 Ac = Acceptance number.
 Re = Rejection number.

SINGLE NORMAL

TABLE II-B—Single sampling plans for tightened inspection (Master table)

(see 4.9.3 and 4.9.4)

Sample size code letter	Sample size	Acceptable Quality Levels (tightened inspection)																									
		0.010	0.015	0.025	0.040	0.065	0.10	0.15	0.25	0.40	0.65	1.0	1.5	2.5	4.0	6.5	10	15	25	40	65	100	150	250	400	650	1000
Ac	Re	Ac	Re	Ac	Re	Ac	Re	Ac	Re	Ac	Re	Ac	Re	Ac	Re	Ac	Re	Ac	Re	Ac	Re	Ac	Re	Ac	Re	Ac	Re
A	2	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1
B	3	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1
C	5	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1
D	8	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1
E	12	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1
F	20	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1
G	32	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1
H	50	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1
J	80	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1
K	125	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1
L	200	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1
M	315	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1
N	500	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1
P	800	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1
O	1250	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1
R	2000	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1
S	3150	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1

Use first sampling plan below arrow. If sample size equals or exceeds lot or batch size, do 100 percent inspection.
 Use first sampling plan above arrow.
 Ac = Acceptance number.
 Re = Rejection number.

TABLE II-C—Single sampling plans for reduced inspection (Master table)

(see 4.9.3 and 4.9.4)

Sample size code letter	Sample size	Acceptable Quality Levels (rounded inspection)																									
		0.010	0.015	0.025	0.040	0.065	0.10	0.15	0.25	0.40	0.65	1.0	1.5	2.5	4.0	6.5	10	15	25	40	65	100	150	250	400	650	1000
A	2	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→
B	3	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→
C	4	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→
D	5	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→
E	6	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→
F	8	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→
G	13	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→
H	20	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→
J	32	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→
K	50	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→
L	80	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→
M	125	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→
N	200	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→
P	315	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→
Q	500	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→
R	800	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→

- Use first sampling plan below arrow.
- Use first sampling plan above arrow.
- Ac Acceptance number.
- Re Rejection number.
- ↑ If the acceptance number has been exceeded, but the rejection number has not been reached, accept the lot, but reinspect normal inspection. (see 4.10.1.4)

SINGLE REDUCED

TABLE III-A—Double sampling plans for normal inspection (Master table)

(SEE 4.9.3 AND 4.9.4)

Sample size code letter	Sample size	First sample size	Acceptable Quality Levels (normal inspection)																										
			0.010	0.015	0.025	0.040	0.065	0.10	0.15	0.25	0.40	0.65	1.0	1.5	2.5	4.0	6.5	10	15	25	40	65	100	150	250	400	650	1000	
A			→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→
B	2	2	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→
C	3	3	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→
D	5	5	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→
E	8	8	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→
F	13	13	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→
G	20	20	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→
H	32	32	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→
I	50	50	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→
J	80	80	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→
K	125	125	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→
L	200	200	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→
M	315	315	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→
N	500	500	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→
O	800	800	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→
P	1250	1250	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→
Q	2000	2000	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→
R	3150	3150	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→

- Use first sample plus below acceptance number
- Use first sample plus above acceptance number
- Acceptance number
- Rejection number
- etc.

DOUBLE
NORMAL

TABLE IV-A—Multiple sampling plans for normal inspection (Master table)
(See 4.9.3 and 4.9.4)

Sample size	Sample size	Sample size	Acceptable Quality Levels (normal inspection)																				
			0.100	0.150	0.200	0.250	0.300	0.400	0.500	0.600	0.700	0.800	0.900	1.000	1.100	1.200	1.500	2.000	3.000	4.000	5.000		
A	First Sample	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Second Sample	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Third Sample	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Fourth Sample	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Overall Sample	48	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	First Sample	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Second Sample	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Third Sample	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Fourth Sample	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Overall Sample	120	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
C	First Sample	60	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Second Sample	60	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Third Sample	60	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Fourth Sample	60	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Overall Sample	240	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Use the first sampling plan below unless otherwise specified. If sample size equals or exceeds the number in the first column, use the first sampling plan above unless otherwise specified in preceding pages, when necessary.

0 = Acceptance number
 1 = Rejection number
 * = Acceptance number not contained in this sample size

MULTI
NORMA

TABLE IV.B — Multiple sampling plans for tightened inspection (Master table)

(see 4.9.3 and 4.9.4)

Sample size ratio	Sample size	Code letter	Acceptable Quality Levels (tightened inspection)																				
			0.01	0.015	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.15	0.25	0.40	0.65	1.00	1.50	2.50	4.00	6.50	10.00
I	Five	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Second	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Third	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Fourth	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Seventh	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
II	Five	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Second	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Third	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Fourth	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Seventh	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
III	Five	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Second	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Third	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Fourth	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Seventh	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
IV	Five	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Second	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Third	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Fourth	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Seventh	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
V	Five	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Second	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Third	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Fourth	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Seventh	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

Use first sampling plan below area (refer to continuation of table on following page, when necessary). If sample size equals or exceeds lot or batch size, do 100 percent inspection.

• The first sampling plan below area.

• The second sampling plan below area.

• The third sampling plan below area.

• The fourth sampling plan below area.

• The fifth sampling plan below area.

• The sixth sampling plan below area.

• The seventh sampling plan below area.

• The eighth sampling plan below area.

• The ninth sampling plan below area.

• The tenth sampling plan below area.

• The eleventh sampling plan below area.

• The twelfth sampling plan below area.

• The thirteenth sampling plan below area.

• The fourteenth sampling plan below area.

• The fifteenth sampling plan below area.

• The sixteenth sampling plan below area.

• The seventeenth sampling plan below area.

• The eighteenth sampling plan below area.

• The nineteenth sampling plan below area.

• The twentieth sampling plan below area.

• The twenty-first sampling plan below area.

• The twenty-second sampling plan below area.

• The twenty-third sampling plan below area.

• The twenty-fourth sampling plan below area.

• The twenty-fifth sampling plan below area.

• The twenty-sixth sampling plan below area.

• The twenty-seventh sampling plan below area.

• The twenty-eighth sampling plan below area.

• The twenty-ninth sampling plan below area.

• The thirtieth sampling plan below area.

• The thirty-first sampling plan below area.

• The thirty-second sampling plan below area.

• The thirty-third sampling plan below area.

• The thirty-fourth sampling plan below area.

• The thirty-fifth sampling plan below area.

• The thirty-sixth sampling plan below area.

• The thirty-seventh sampling plan below area.

• The thirty-eighth sampling plan below area.

• The thirty-ninth sampling plan below area.

• The fortieth sampling plan below area.

• The forty-first sampling plan below area.

• The forty-second sampling plan below area.

• The forty-third sampling plan below area.

• The forty-fourth sampling plan below area.

• The forty-fifth sampling plan below area.

• The forty-sixth sampling plan below area.

• The forty-seventh sampling plan below area.

• The forty-eighth sampling plan below area.

• The forty-ninth sampling plan below area.

• The fiftieth sampling plan below area.

• The fifty-first sampling plan below area.

• The fifty-second sampling plan below area.

• The fifty-third sampling plan below area.

• The fifty-fourth sampling plan below area.

• The fifty-fifth sampling plan below area.

• The fifty-sixth sampling plan below area.

• The fifty-seventh sampling plan below area.

• The fifty-eighth sampling plan below area.

• The fifty-ninth sampling plan below area.

• The sixtieth sampling plan below area.

• The sixty-first sampling plan below area.

• The sixty-second sampling plan below area.

• The sixty-third sampling plan below area.

• The sixty-fourth sampling plan below area.

• The sixty-fifth sampling plan below area.

• The sixty-sixth sampling plan below area.

• The sixty-seventh sampling plan below area.

• The sixty-eighth sampling plan below area.

• The sixty-ninth sampling plan below area.

• The seventieth sampling plan below area.

• The seventy-first sampling plan below area.

• The seventy-second sampling plan below area.

• The seventy-third sampling plan below area.

• The seventy-fourth sampling plan below area.

• The seventy-fifth sampling plan below area.

• The seventy-sixth sampling plan below area.

• The seventy-seventh sampling plan below area.

• The seventy-eighth sampling plan below area.

• The seventy-ninth sampling plan below area.

• The eightieth sampling plan below area.

• The eighty-first sampling plan below area.

• The eighty-second sampling plan below area.

• The eighty-third sampling plan below area.

• The eighty-fourth sampling plan below area.

• The eighty-fifth sampling plan below area.

• The eighty-sixth sampling plan below area.

• The eighty-seventh sampling plan below area.

• The eighty-eighth sampling plan below area.

• The eighty-ninth sampling plan below area.

• The ninetieth sampling plan below area.

• The ninety-first sampling plan below area.

• The ninety-second sampling plan below area.

• The ninety-third sampling plan below area.

• The ninety-fourth sampling plan below area.

• The ninety-fifth sampling plan below area.

• The ninety-sixth sampling plan below area.

• The ninety-seventh sampling plan below area.

• The ninety-eighth sampling plan below area.

• The ninety-ninth sampling plan below area.

• The hundredth sampling plan below area.

MULTIPLE
TIGHTENED

TABLE IV-B—Multiple sampling plans for tightened inspection (Master table)
(see 4.9.3 and 4.9.4)

Sample size ratio	Sample size	Acceptable Quality Levels (tightened inspection)	0.010		0.015		0.025		0.040		0.065		0.100		0.150		0.250		0.400		0.650		1.000					
			Ac	Re	Ac	Re	Ac	Re	Ac	Re	Ac	Re	Ac	Re	Ac	Re	Ac	Re	Ac	Re	Ac	Re	Ac	Re	Ac	Re		
A	First Second Third Fourth Fifth Sixth Seventh	12	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		15	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		20	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		25	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
L	First Second Third Fourth Fifth Sixth Seventh	30	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		35	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		40	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		45	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	First Second Third Fourth Fifth Sixth Seventh	60	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		70	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		80	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		90	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
C	First Second Third Fourth Fifth Sixth Seventh	125	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		160	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		200	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		250	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
D	First Second Third Fourth Fifth Sixth Seventh	200	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		250	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		315	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		400	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
E	First Second Third Fourth Fifth Sixth Seventh	315	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		400	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		500	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		630	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
F	First Second Third Fourth Fifth Sixth Seventh	500	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		630	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		800	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		1000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

Use first sampling plan when sample size equals or exceeds lot or batch size. Use 100 percent inspection when lot or batch size is less than 8. Use second sampling plan when necessary.

MULTI TIGHTEN

TABLE IV-C—Multiple sampling plans for reduced inspection (Master table)
(Continued)

(see 4.9.3 and 4.9.4)

Sample size code letter	Sample size	Cumulative sample size	Acceptable Quality Levels (based on inspection)																		
			0.010	0.015	0.025	0.40	0.65	1.0	1.5	2.5	4.0	6.5	10	15	25	40	65	100	150	250	400	650	1000
L	First	20	↓																		
	Second	40	↓																		
	Third	60	↓																		
	Fourth	80	↓																		
	Fifth	100	↓																		
	Sixth	120	↓																		
	Seventh	140	↓																		
M	First	32	↓																		
	Second	64	↓																		
	Third	96	↓																		
	Fourth	128	↓																		
	Fifth	160	↓																		
	Sixth	192	↓																		
	Seventh	224	↓																		
N	First	50	↓																		
	Second	100	↓																		
	Third	150	↓																		
	Fourth	200	↓																		
	Fifth	250	↓																		
	Sixth	300	↓																		
	Seventh	350	↓																		
P	First	80	↓																		
	Second	160	↓																		
	Third	240	↓																		
	Fourth	320	↓																		
	Fifth	400	↓																		
	Sixth	480	↓																		
	Seventh	560	↓																		
Q	First	125	↓																		
	Second	250	↓																		
	Third	375	↓																		
	Fourth	500	↓																		
	Fifth	625	↓																		
	Sixth	750	↓																		
	Seventh	875	↓																		
R	First	200	↓																		
	Second	400	↓																		
	Third	600	↓																		
	Fourth	800	↓																		
	Fifth	1000	↓																		
	Sixth	1200	↓																		
	Seventh	1400	↓																		

↓ The first sampling plan below area. If sample size equals or exceeds, the sample size, do 100 percent inspection.
↓ The first sampling plan above arrow (refer to preceding page when necessary).
Ac Acceptance number
Re Rejection number

TABLE V-A—Average Outgoing Quality Limit Factors for Normal Inspection (Single sampling)

(see 3.3)

Code Letter	Sample Size	Acceptable Quality Level																									
		0.010	0.015	0.025	0.040	0.065	0.10	0.15	0.25	0.40	0.65	1.0	1.5	2.5	4.0	6.5	10	15	25	40	65	100	150	250	400	650	1000
A	2																										
B	3																										
C	5																										
D	8																										
E	13																										
F	20																										
G	32																										
H	50																										
J	80																										
K	125																										
L	200																										
M	315																										
N	500																										
P	800																										
Q	1250																										
R	2000																										

* Note: For the exact AOQL, the above values must be multiplied by $(1 - \frac{\text{Sample size}}{\text{Lot or Batch size}})$

AOQL
NORMAL

TABLE V.B—Average Outgoing Quality Limit Factors for Tightened Inspection (Single sampling)

(see 3.3)

		Acceptable Quality Level																										
Code Letter	Sample Size	0.010	0.015	0.020	0.030	0.040	0.050	0.10	0.15	0.25	0.40	0.50	1.0	1.5	2.5	4.0	6.0	10	15	25	40	65	100	150	250	400	650	1000
A	2																											
B	3																											
C	5																											
D	8																											
E	13																											
F	20																											
G	32																											
H	50																											
I	80																											
J	125																											
K	200																											
L	315																											
M	500																											
N	800																											
P	1250																											
Q																												
R	2000																											
S	3150																											

Note: For the exact AQL, the above values must be multiplied by ($1 - \frac{\text{Sample size}}{\text{Lot or Batch size}}$) (see 3.4)

TABLE VI-A—Limiting Quality (in percent defective) for which $P_a = 10$ Percent
 (for Normal Inspection, Single sampling)

(see 4.11)

Code letter	Sample size	Acceptable Quality Level																
		0.010	0.015	0.025	0.040	0.065	0.10	0.15	0.25	0.40	0.65	1.0	1.5	2.5	4.0	6.5	10	
A	2																	
B	3																68	
C	5														37	54		58
D	8																	
E	13																41	54
F	20									11	16	25			27	36	44	42
G	32								6.9									
H	50																	
J	80							2.0		4.8	7.6	12	16	13	18	27	22	29
K	125																	
L	200																	
M	315																	
N	500																	
P	800																	
Q	1250																	
R	2000																	

LQ (DEFECTIVES)
 10.0%

TABLE VI-B—Limiting Quality (in defects per hundred units) for which $P_d = 10$ Percent
(for Normal Inspection, Single sampling)

(see 4.11)

Code letter	Sample size	Acceptable Quality Level																										
		0.010	0.015	0.025	0.040	0.065	0.10	0.15	0.25	0.40	0.65	1.0	1.5	2.5	4.0	6.5	10	15	25	40	65	100	150	250	400	650	1000	
A	2																											
B	3																											
C	5																											
D	6																											
E	13																											
F	20																											
G	32																											
H	50																											
J	80																											
K	125																											
L	200																											
M	315																											
N	500																											
P	800																											
U	1250																											
V	2000																											

TABLE VII-A—Limiting Quality (in percent defective) for which $P_d = 5$ Percent
 (for Normal Inspection, Single sampling)

(SEE 4.11)

Code letter	Sample size	Acceptable Quality Level																
		0.010	0.015	0.025	0.040	0.065	0.100	0.150	0.250	0.400	0.650	1.000	1.500	2.500	4.000	6.500	10.000	
A	2																	
B	3																	
C	5													45	63	78	66	
D	8																	
E	13																	
F	20																	
G	32																	
H	50																	
J	80																	
K	125																	
L	200																	
M	315																	
N	500																	
P	800																	
Q	1250																	
R	2000																	

LQ (DEFECTIVES)
5.0%

TABLE VII-B—Limiting Quality (in defects per hundred units) for which $P_d = 5$ Percent
(for Normal Inspection, Single sampling)

(see 4.11)

Code letter	Sample size	Acceptable Quality Level																										
		0.010	0.015	0.025	0.040	0.065	0.10	0.15	0.25	0.40	0.65	1.0	1.5	2.5	4.0	6.5	10	15	25	40	65	100	150	250	400	650	1000	
A	2																											
B	3																											
C	5																											
D	8																											
E	13																											
F	20																											
G	32																											
H	50																											
J	80																											
K	125																											
L	200																											
M	315																											
N	500																											
P	800																											
Q	1250																											
R	2000																											

TABLE VIII—Limit Numbers for Reduced Inspection

(see 4.7.3)

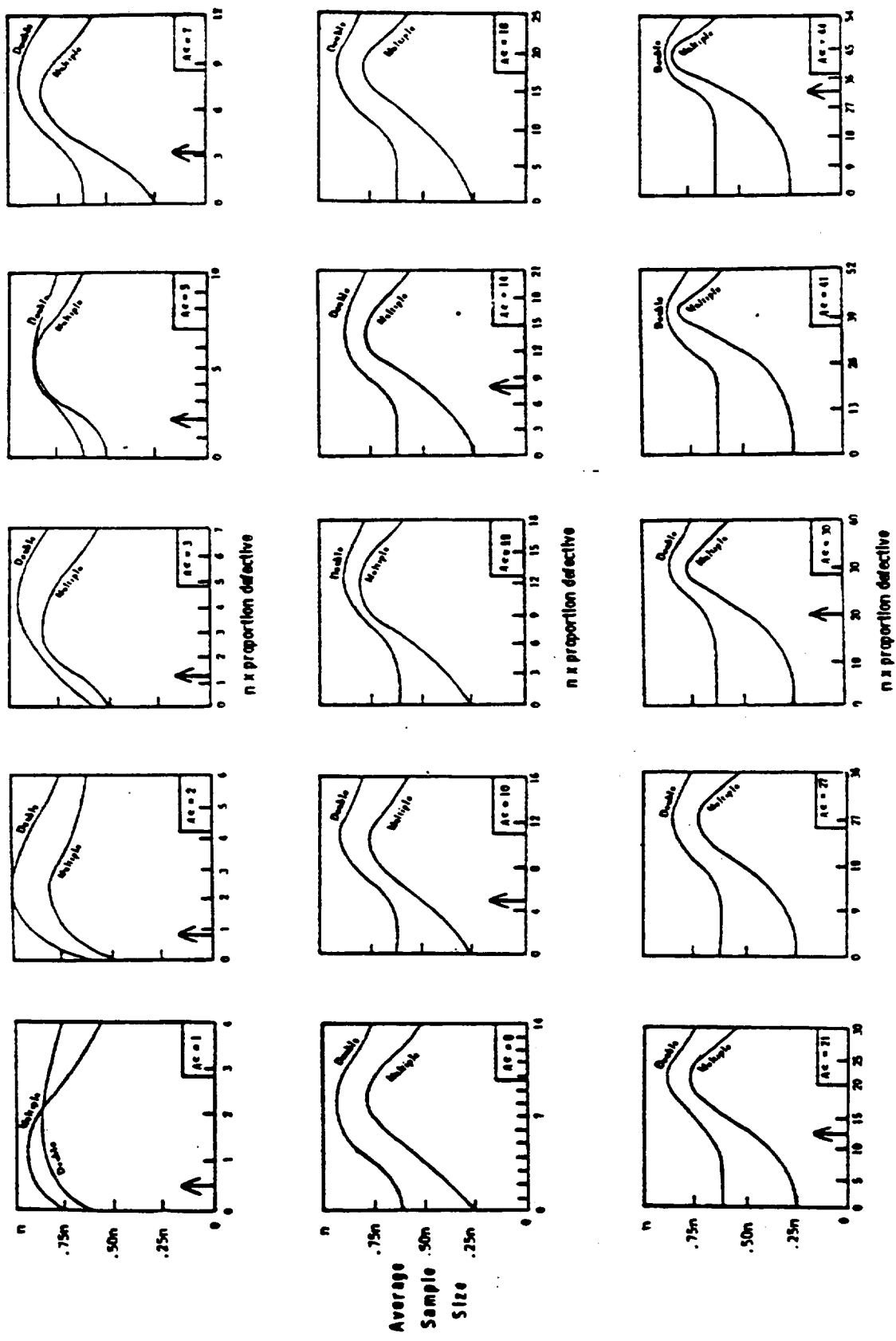
Number of sample units from lot or batches	Acceptable Quality Level																										
	0.010	0.015	0.025	0.040	0.065	0.10	0.15	0.25	0.40	0.65	1.0	1.5	2.5	4.0	6.5	10	15	25	40	65	100	150	250	400	650	1000	
20 - 29	2	4	8	14	22	40	68	115	181
30 - 49	1	3	7	13	22	36	43	105	178	277
50 - 79	2	3	7	14	25	40	63	110	181	301	
80 - 129	0	0	0	2	4	7	14	24	42	68	105	181	297		
130 - 199	0	0	2	4	7	13	25	42	72	115	177	301	490			
200 - 319	0	0	2	4	8	14	22	40	68	115	181	277	471				
320 - 499	0	1	4	8	16	24	39	68	113	189							
500 - 799	0	2	7	14	25	40	63	110	181								
800 - 1299	0	4	14	24	42	68	105	181									
1250 - 1999	1	7	26	49	89	110	169										
2000 - 3199	0	2	10	22	40	68	115	181									
3200 - 4999	0	4	16	36	67	111	186										
5000 - 7999	0	7	26	67	111	181											
8000 - 12999	0	10	40	105	181												
12500 - 19999	0	16	67	169													
20000 - 31999	0	0	2	4	8	14	24	38	67	111	181																
31500 & (over)	0	0	0	0	0	0	0	0	0	0	0																

LIMIT NUMBERS

*. (Note: The number of sample units from the first ten lots or batches is not sufficient for reduced inspection for this AQL. In this instance more than ten lots or batches may be used for the calculations, provided that the lots or batches used are the most recent ones in sequence, that they bear all here on annual inspection, and that none has been rejected while on original inspection.)

TABLE IX—Average sample size curves for double and multiple sampling
(normal and tightened inspection)

(see 4.12.2)



○ = Exponential stage sample size
 Ac = Single sample acceptance number
 ↑ = AQL for normal inspection

TABLE X-A—Tables for sample size code letter: A

CHART A - OPERATING CHARACTERISTIC CURVES FOR SINGLE SAMPLING PLANS
(Curves for double and multiple sampling are matched as closely as practicable)

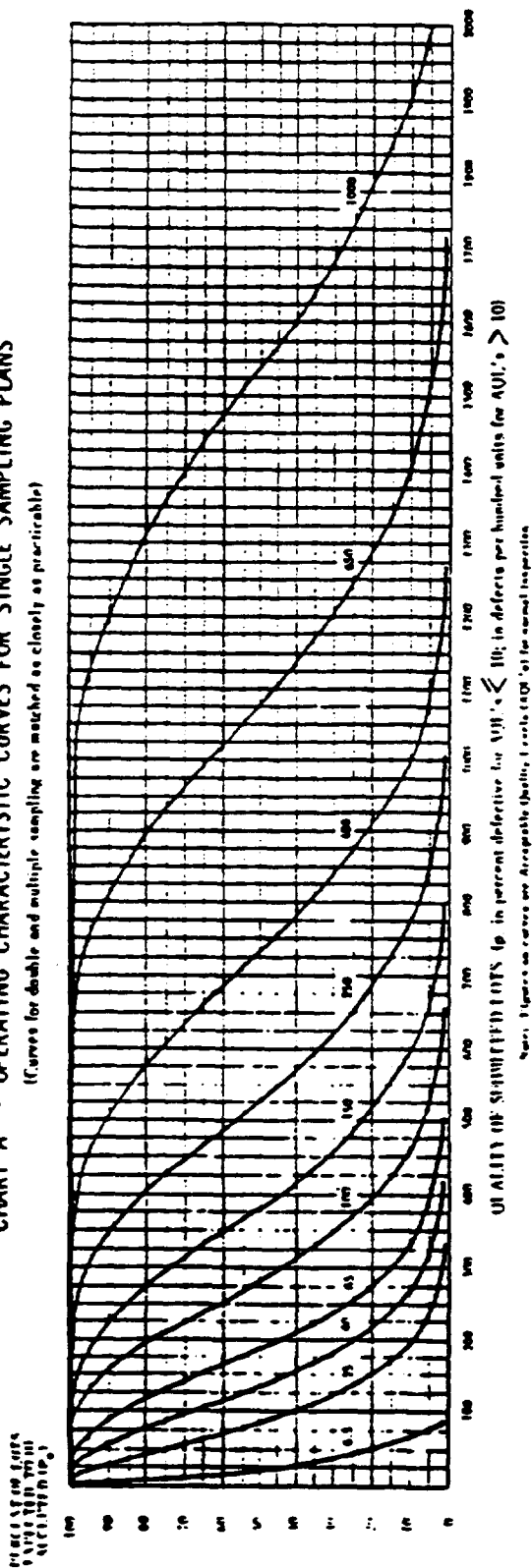


TABLE X-A-1 - TABULATED VALUES FOR OPERATING CHARACTERISTIC CURVES FOR SINGLE SAMPLING PLANS

P ₀	Acceptable Quality Levels (normal inspection)													
	6.5	25	40	65	100	150	250	400	650	1000				
	p (in percent defective)													
99.0	0.503	7.61	21.8	41.2	69.3	145	175	239	305	374	517	629	859	977
95.0	2.56	17.8	40.9	68.3	131	199	235	308	381	462	622	745	975	1122
90.0	5.13	26.6	55.1	87.2	158	213	272	351	432	515	684	812	1073	1286
75.0	11.6	48.1	86.4	127	211	298	342	431	521	612	795	936	1214	1354
50.0	31.7	81.9	134	186	284	383	433	533	633	733	933	1083	1383	1531
25.0	69.3	135	196	257	371	486	540	651	761	870	1087	1248	1568	1728
10.0	115	191	266	316	464	589	650	770	889	1006	1230	1409	1748	1916
5.0	150	217	315	388	576	657	722	848	972	1094	1331	1512	1862	2035
1.0	230	312	420	502	655	808	870	1007	1141	1272	1529	1718	2088	2270
	X	40	65	100	150	X	250	X	400	X	650	X	1000	X
	Acceptable Quality Levels (tightened inspection)													

Note: Binomial distribution used for percent defective (normal inspection). Poisson for defects per bracketed units.

TABLE X-A-2 - SAMPLING PLANS FOR SAMPLE SIZE CODE LETTER: A

Type of sampling plan	Cumu- lative sample size	Acceptable Quality Levels (normal inspection)																Cumu- lative sample size													
		Less than 6.5		6.5	10	15	25	40	65	100	150	250	400	650	1000	1000															
		Ac	Re	Ac	Re	Ac	Re	Ac	Re	Ac	Re	Ac	Re	Ac	Re	Ac	Re														
Single	2	∇	0	1		1	2	2	3	3	4	5	6	7	8	9	10	11	12	13	14	15	18	19	21	22	27	28	30	31	2
Double		∇	•		Use code Letter	Use code Letter	Use code Letter	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	
Multiple		∇	•		Use code Letter	Use code Letter	Use code Letter	Use code Letter	Use code Letter	Use code Letter	Use code Letter	Use code Letter	Use code Letter	Use code Letter	Use code Letter	Use code Letter	Use code Letter	Use code Letter	Use code Letter	Use code Letter	Use code Letter	Use code Letter	Use code Letter	Use code Letter	Use code Letter	Use code Letter	Use code Letter	Use code Letter	Use code Letter	Use code Letter	
		Less than 10			10	15	25	40	65	100	150	250	400	650	1000	1000															

Acceptable Quality Levels (tightened inspection)

∇ = Use next subsequent sample size code letter for which acceptance and rejection numbers are available.

Ac = Acceptance number

Re = Rejection number

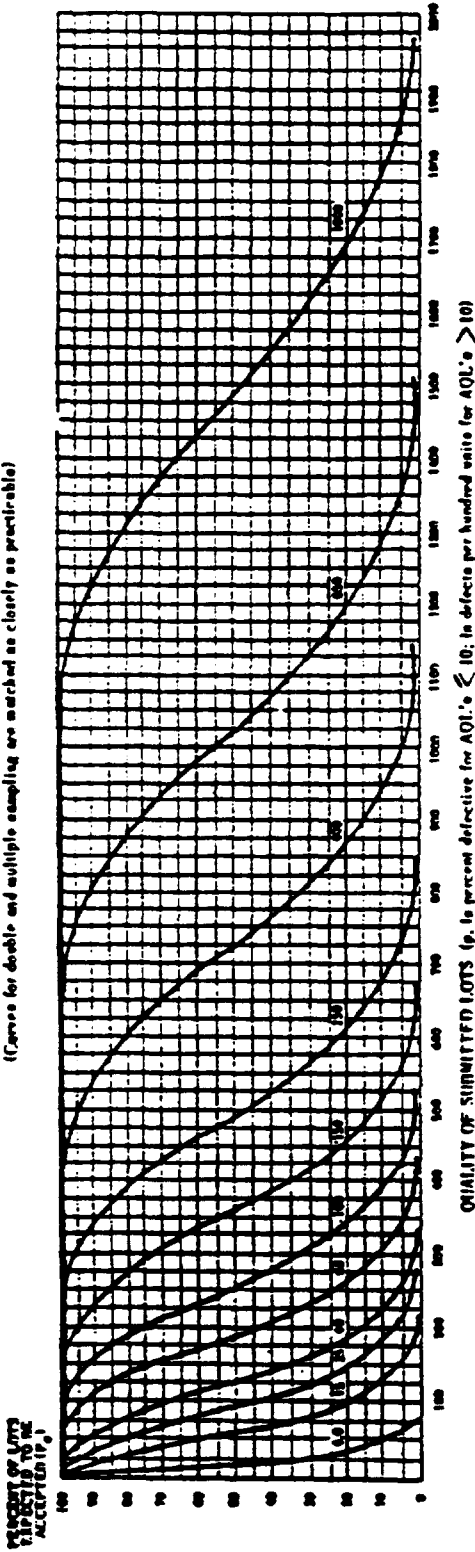
• = Use single sampling plan above (or alternatively use code letter D).

Use code letter M for alternative use code letter M.

TABLE X-B—Tables for sample size code letter: B

CHART B - OPERATING CHARACTERISTIC CURVES FOR SINGLE SAMPLING PLANS

(Curves for double and multiple sampling are matched as closely as practicable)



QUALITY OF SUBMITTED LOTS (p, in percent defective for AQL's ≤ 10 ; in defects per hundred units for AQL's > 10)
 Note: Figures on curves are Acceptable Quality Levels (AQL's) of lot annual inspection.

TABLE X-B-1 - TABULATED VALUES FOR OPERATING CHARACTERISTIC CURVES FOR SINGLE SAMPLING PLANS

P _a	Acceptable Quality Levels (normal inspection)															
	0.0	15	25	40	65	100	150	250	400	650	1000	1500	2000			
	p (in percent defective)															
99.0	0.335	0.97	14.5	27.4	59.5	96.9	117	159	203	249	305	419	572	651	947	1029
95.0	1.71	11.0	27.3	45.5	87.1	133	157	206	256	308	415	496	643	748	1065	1152
90.0	3.65	17.7	36.7	58.2	105	155	181	231	280	343	456	541	716	804	1131	1223
75.0	9.94	32.0	57.6	84.5	141	199	228	287	347	408	530	623	809	903	1249	1344
50.0	23.1	55.9	89.1	122	189	256	289	356	422	489	622	728	923	1022	1389	1489
25.0	46.2	89.8	131	170	247	323	340	416	507	590	724	832	1045	1152	1530	1644
10.0	76.0	130	177	223	309	392	413	514	593	671	825	939	1165	1277	1683	1793
5.0	99.9	159	210	258	350	438	461	565	648	730	890	1008	1241	1356	1773	1864
1.0	154	221	280	335	437	533	560	671	761	848	1019	1145	1392	1513	1951	2069
0.5	6.5	25	40	65	100	140	140	250	400	650	1000	1500	2000	3000	4000	5000

Acceptable Quality Levels (lightened inspection)

Note: Binomial distribution used for percent defective comparisons; Poisson for defects per hundred units.

TABLE X-B-2 - SAMPLING PLANS FOR SAMPLE SIZE CODE LETTER: B

Type of sampling plan	Cumulative sample size	Acceptable Quality Levels (normal inspection)																		Cumulative sample size																	
		Less than 4.0		4.0	4.5	5	6	7	8	9	10	15	25	40	65	100	150	250	400		650	1000															
		Ac	Re	Ac	Re	Ac	Re	Ac	Re	Ac	Re	Ac	Re	Ac	Re	Ac	Re	Ac	Re		Ac	Re	Ac	Re													
Single	3	▽	0	1	0	1	1	2	2	3	3	4	4	5	6	7	8	9	10	11	12	13	14	15	18	19	21	22	27	28	30	31	41	42	44	45	3
	2	▽	•	Use code Letter A	Use code Letter B	0	2	3	3	4	4	5	6	7	8	9	10	11	12	13	14	15	16	17	20	21	22	23	25	25	29	29	31	31	31	31	2
	4	▽	•	Use code Letter A	Use code Letter B	1	2	3	4	4	5	6	7	8	9	11	12	12	13	15	16	18	18	19	23	24	26	27	34	35	37	39	52	53	56	57	4
Multiple		▽	•	Use code Letter A	Use code Letter B																																
			Less than 6.5	6.5	10	15	25	40	65	100	150	250	400	650	1000	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			Acceptable Quality Levels (tightened inspection)																																		

▽ = Use next subsequent sample size code letter for which acceptance and rejection numbers are available.
 Ac = Acceptance number
 Re = Rejection number
 • = Use single sampling plan above (or alternatively use code letter E)
 ++ = Use double sampling plan above (or alternatively use code letter D)

TABLE X-C—Tables for sample size code letter: C

CHART C - OPERATING CHARACTERISTIC CURVES FOR SINGLE SAMPLING PLANS

(Curves for double and multiple sampling are matched as closely as practicable)

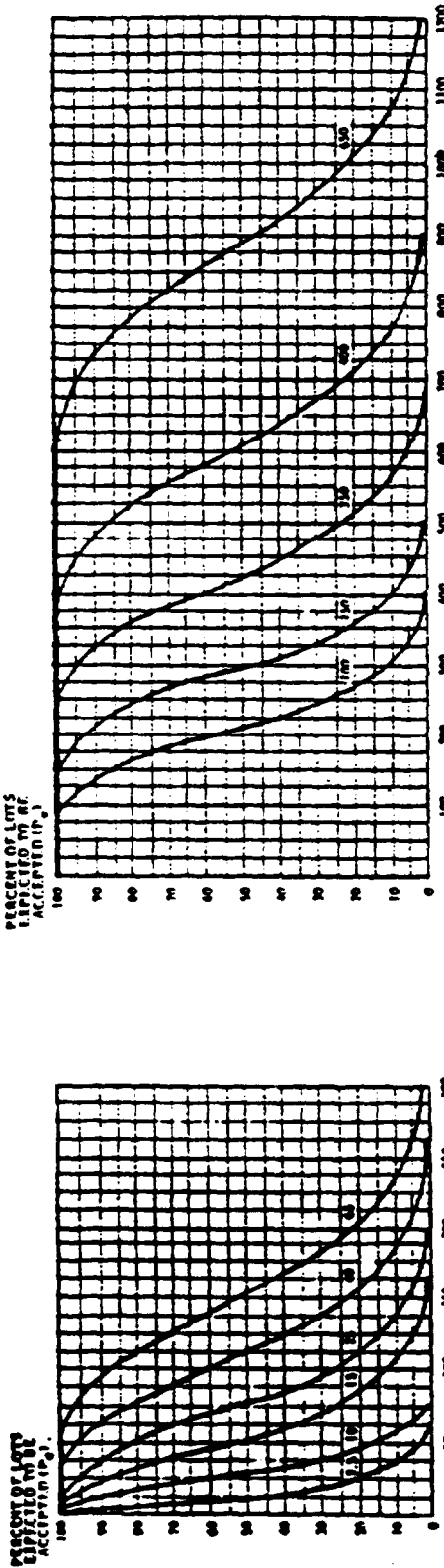


TABLE X-C-1 - TABULATED VALUES FOR OPERATING CHARACTERISTIC CURVES FOR SINGLE SAMPLING PLANS

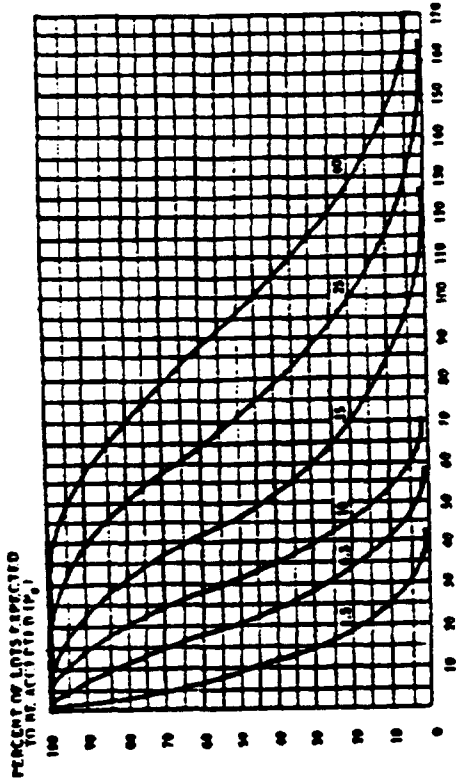
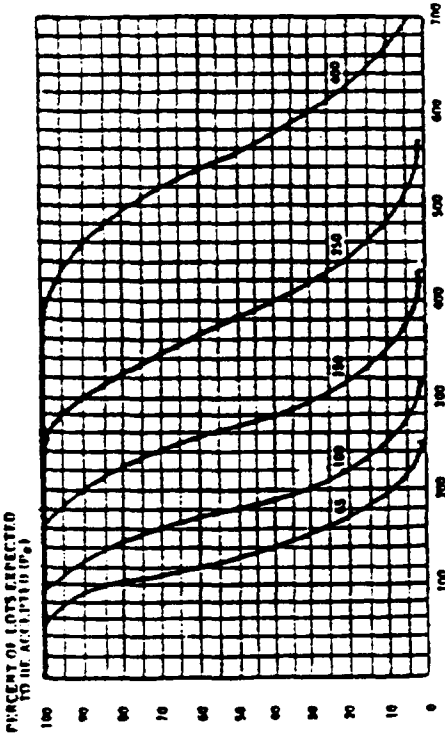
P ₀	Acceptable Quality Levels (normal inspection)																	
	2.5	10	2.5	10	15	25	40	65	100	150	250	400	650					
	p (in percent defective)																	
99.0	0.201	3.27	0.201	2.97	0.72	16.5	37.5	58.1	70.1	95.4	122	150	207	251	343	391	568	618
95.0	1.02	7.64	1.03	7.11	16.4	27.3	52.3	79.6	93.9	123	154	185	249	298	398	449	639	691
90.0	2.09	11.2	2.11	10.6	22.0	34.9	63.0	93.1	109	140	173	206	273	325	429	482	679	733
75.0	5.59	19.4	5.75	19.2	34.5	50.7	84.4	119	137	172	208	245	318	374	485	542	749	806
50.0	12.9	31.0	13.9	33.4	51.5	73.4	113	153	173	211	253	293	373	433	553	613	833	893
25.0	24.2	45.4	27.7	53.9	78.4	102	148	194	216	260	304	348	435	499	627	691	923	986
10.0	34.9	58.4	44.1	77.8	106	134	183	235	260	308	356	403	495	564	699	766	1010	1076
5.0	45.1	65.7	59.9	94.9	126	155	210	263	289	339	389	438	534	605	745	814	1064	1131
1.0	66.2	77.0	92.1	133	168	201	262	320	348	403	454	509	612	687	835	908	1171	1241
4.0	X	X	4.0	15	25	40	65	X	100	X	150	X	250	X	400	X	650	X
	p (in defects per hundred units)																	
	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

Note: Binomial distribution used for percent defective computation; Poisson for defects per hundred units.

TABLE X-D — Tables for sample size code letter: D

CHART D - OPERATING CHARACTERISTIC CURVES FOR SINGLE SAMPLING PLANS

(Curves for double and multiple sampling are matched as closely as practicable)



QUALITY OF SUBMITTED LOTS (p, in percent defective for AOI's ≤ 10 ; in defects per hundred units for AOI's > 10)

Note: Figures as given are Acceptable Quality Levels (AOI's) for normal inspection.

TABLE X-D-1 - TABULATED VALUES FOR OPERATING CHARACTERISTIC CURVES FOR SINGLE SAMPLING PLANS

P _a	Acceptable Quality Levels (normal inspection)																		
	1.5	6.5	10	15	6.5	10	15	25	40	65	100	150	250	400					
	p (in percent defective)																		
99.0	0.186	1.97	6.06	0.128	1.06	5.45	10.3	22.3	36.3	43.8	59.6	76.2	93.5	129	215	244	355	386	
95.0	0.639	6.64	11.1	0.441	4.44	10.2	17.1	32.7	49.8	58.7	77.1	96.1	116	156	186	201	309	432	
90.0	1.31	6.00	14.7	1.32	6.65	13.8	21.8	39.4	58.2	67.9	87.8	108	129	171	203	268	301	424	458
75.0	3.53	12.1	22.1	3.60	12.0	21.6	31.7	52.7	74.5	85.5	108	130	153	199	234	303	339	468	504
50.0	8.30	20.1	32.1	8.66	21.0	33.4	45.9	70.9	95.9	109	133	158	183	233	271	346	383	521	558
25.0	15.9	30.3	43.3	17.3	33.7	49.0	63.9	92.8	121	135	163	190	217	272	312	392	432	577	617
10.0	25.0	40.6	53.8	28.8	48.6	64.5	83.5	116	147	162	193	222	252	309	352	437	479	631	672
5.0	31.2	47.1	60.0	37.4	59.3	78.7	96.9	131	164	180	212	243	274	334	378	465	509	665	707
1.0	43.8	59.0	70.7	57.6	83.0	105	126	164	200	218	252	285	318	382	429	522	568	732	776
2.5	10	2.5	10	2.5	10	15	25	40	65	100	150	250	400	600	900	1350	2100	3150	4725

Acceptable Quality Levels (tightened inspection)

Note: Standard distribution used for percent defective comparison; Poisson for defects per hundred units

TABLE X-D-2 - SAMPLING PLANS FOR SAMPLE SIZE CODE LETTER: D

Type of sampling plan	Cumulative sample size	Acceptable Quality Levels (normal inspection)																	Higher than 400						
		Less than 1.5	1.5	2.5	4.0	6.5	10	15	25	40	65	100	150	250	400	400									
		Ac	Re	Ac	Re	Ac	Re	Ac	Re	Ac	Re	Ac	Re	Ac	Re	Ac	Re	Ac	Re	Ac	Re	Ac	Re		
Single	0	▽	0	1																				△	
	5	▽	•		Use																				△
Double	10				Use																				△
	2	▽	•																						△
Multiple	4																								△
	6																								△
	8																								△
	10																								△
	12																								△
	14																								△
	16																								△
	Less than 2.5	▽	2.5	×	4.0	6.5	10	15	25	40	65	100	150	250	400	×	Higher than 400								

Acceptable Quality Levels (tightened inspection)

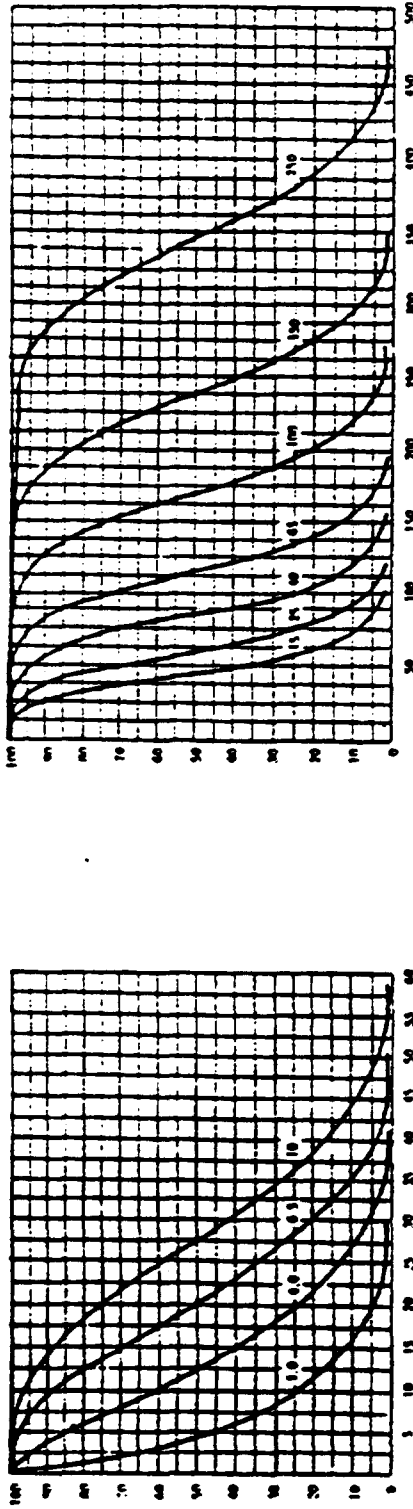
- △ = Use next preceding sample size code letter for which acceptance and rejection numbers are available.
- ▽ = Use next subsequent sample size code letter for which acceptance and rejection numbers are available.
- Ac = Acceptance number
- Re = Rejection number
- = Use single sampling plan above (or alternately use code letter B)

TABLE X-E - Tables for sample size code letter: E

CHART E - OPERATING CHARACTERISTIC CURVES FOR SINGLE SAMPLING PLANS

(Curves for double and multiple sampling are matched as closely as practicable)

VALUES IN PARENTHESES ARE APPROXIMATE



QUALITY OF SUBMITTED LOTS (p, in percent defective for AQL's ≤ 10 ; in defects per hundred units for AQL's > 10)

Note: Figures on curves are Acceptable Quality Levels (AQL's) for usual inspection.

TABLE X-E-1 - TABULATED VALUES FOR OPERATING CHARACTERISTIC CURVES FOR SINGLE SAMPLING PLANS

P ₀	Acceptable Quality Levels (normal inspection)																				
	p (in percent defective)																				
	1.0	4.0	6.5	10	15	20	25	30	40	50	65	100	150	210	250						
99.0	0.077	1.10	3.50	6.75	0.077	1.15	3.35	6.33	11.7	22.4	27.0	36.7	46.9	57.5	79.6	96.7	132	150	219	250	
95.0	0.394	2.01	6.00	11.3	0.195	2.73	6.29	10.5	20.1	30.6	36.1	41.5	59.2	71.1	95.7	115	153	173	246	266	
90.0	0.607	4.17	8.00	14.2	0.310	4.09	8.40	13.4	24.2	35.0	41.8	54.0	66.5	79.2	105	125	165	185	261	282	
75.0	2.19	7.01	13.4	19.9	2.81	7.39	13.3	19.5	32.5	45.0	52.6	66.3	80.2	94.1	122	144	187	208	288	310	
50.0	5.19	12.6	20.0	27.5	5.33	12.9	20.6	28.2	43.6	59.0	66.7	82.1	97.4	113	144	167	213	216	321	344	
25.0	10.1	19.4	28.0	36.1	10.7	20.7	30.2	39.3	57.1	74.5	83.1	100	117	134	167	192	241	264	355	379	
10.0	16.2	26.0	36.0	44.4	17.7	29.9	40.9	51.4	71.3	90.5	100	119	137	155	190	217	269	295	388	414	
5.0	20.6	31.6	41.0	49.5	23.0	36.5	48.4	59.6	80.9	101	111	130	150	168	205	233	286	313	409	435	
1.0	29.8	41.3	50.6	58.8	35.4	51.1	64.7	77.1	101	123	134	155	176	196	235	264	321	349	450	477	
1.5	6.5	10	15	25	25	40	40	65	65	100	100	150	150	250	250	400	400	650	650	1000	1000

Acceptable Quality Levels (tightened inspection)

Note: Standard distribution used for percent defective comparisons. Values for defects per hundred units.

TABLE X-E-2 - SAMPLING PLANS FOR SAMPLE SIZE CODE LETTER: E

Type of sampling plan	Cumulative sample size	Acceptable Quality Levels (normal inspection)																		Higher than 250																
		Less than 1.0	1.0	1.5	2.5	4.0	6.5	10	15	25	40	65	100	150	250	Higher than 250																				
		Ac	Re	Ac	Re	Ac	Re	Ac	Re	Ac	Re	Ac	Re	Ac	Re	Ac	Re	Ac	Re																	
Single	13	▽	0	1		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	18	19	21	22	27	28	30	31	41	42	44	45	△			
			Use	Use																																
Double	8	▽				0	2	3	4	5	7	8	9	11	12	13	15	16	18	19	23	24	26	27	34	35	37	38	52	53	56	57	△			
	16					code Letter	code Letter																													
Multiple	3	▽				0	2	3	4	5	7	8	9	11	12	13	15	16	18	19	23	24	26	27	34	35	37	38	52	53	56	57	△			
	6					D	G																													
	9						0	2	3	4	5	7	8	9	11	12	13	15	16	18	19	23	24	26	27	34	35	37	38	52	53	56	57			
	12						0	3	4	5	7	8	9	11	12	13	15	16	18	19	23	24	26	27	34	35	37	38	52	53	56	57				
	15						1	3	4	5	7	8	9	11	12	13	15	16	18	19	23	24	26	27	34	35	37	38	52	53	56	57				
	18						1	3	4	5	7	8	9	11	12	13	15	16	18	19	23	24	26	27	34	35	37	38	52	53	56	57				
	21						2	3	4	5	7	8	9	11	12	13	15	16	18	19	23	24	26	27	34	35	37	38	52	53	56	57				
	Less than 1.5					△	2.5	4.0	6.5	10	15	25	40	65	100	150	250	Higher than 250																		

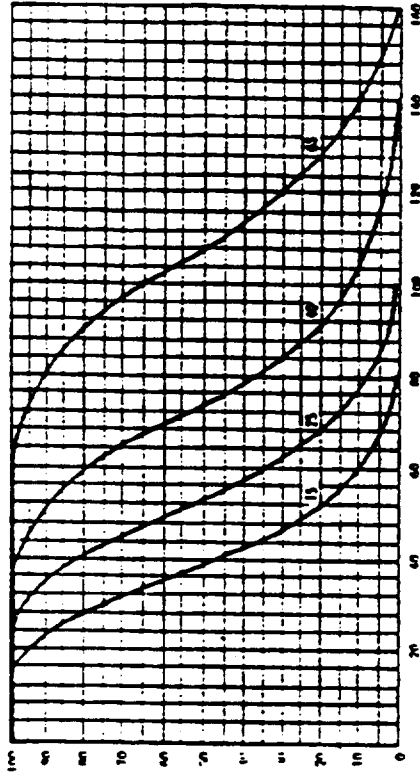
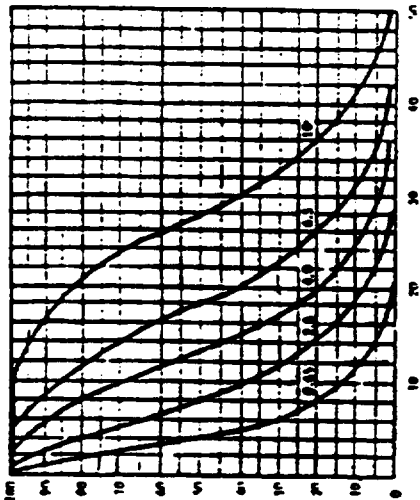
△ Use next preceding sample size code letter for which acceptance and rejection numbers are available.
 ▽ Use next subsequent sample size code letter for which acceptance and rejection numbers are available.
 Ac Acceptance number.
 Re Rejection number.
 • Use sample size above (or alternatively use code letter H)

TABLE X-F—Tables for sample size code letter: F

CHART F - OPERATING CHARACTERISTIC CURVES FOR SINGLE SAMPLING PLANS

(Curves for double and multiple sampling are matched as closely as practicable)

PERCENT OF LOTS
ACCEPTED TO THE
PLAN



QUALITY OF SUBMITTED LOTS (p, in percent defective for AQL's ≤ 10 ; in defects per hundred units for AQL's > 10)
Note: Figures on curves are Acceptable Quality Levels (AQL's) for normal inspection.

TABLE X-F-1 - TABULATED VALUES FOR OPERATING CHARACTERISTIC CURVES FOR SINGLE SAMPLING PLANS

P ₀	Acceptable Quality Levels (normal inspection)																
	0.65	2.5	4.0	6.5	10	15	20	25	30	40	65						
	p (in percent defective)																
99.0	0.0502	0.759	2.27	4.36	9.75	0.0503	0.743	2.18	4.12	0.93	14.5	17.5	23.9	30.5	37.4	51.7	62.9
95.0	0.256	1.01	4.22	7.14	14.0	0.256	1.70	4.09	6.83	13.1	19.9	23.5	30.8	36.4	46.2	62.2	74.5
90.0	0.525	2.09	5.04	9.03	16.6	0.527	2.66	5.51	8.72	15.8	23.3	27.2	35.1	43.2	51.5	68.4	81.2
75.0	1.43	4.01	8.70	12.8	21.6	1.44	4.81	8.64	12.7	21.1	29.8	34.2	43.1	52.1	61.2	79.5	93.4
50.0	3.41	8.25	13.1	18.1	27.9	3.47	8.39	13.4	18.4	28.4	36.3	43.3	53.3	63.3	73.3	93.3	108
25.0	6.70	12.9	18.7	24.2	34.8	6.93	13.5	19.6	25.5	37.1	48.4	54.0	65.1	76.1	87.0	109	125
10.0	10.9	18.1	24.5	30.4	41.5	11.5	19.4	26.6	33.4	46.4	58.9	65.0	77.0	88.9	101	124	141
5.0	13.9	21.6	28.3	34.4	45.6	15.0	23.7	31.5	39.8	52.6	65.7	72.2	84.0	97.2	109	133	151
1.0	20.6	28.9	35.8	42.1	53.2	23.0	33.2	42.0	50.2	65.5	80.0	87.0	101	114	127	153	172
	1.0	4.0	6.5	10	15	1.0	4.0	6.5	10	15	25	40	65	100	150	200	250
	Acceptable Quality Levels (tightened inspection)																
	p (in defects per hundred units)																
	0.65	2.5	4.0	6.5	10	15	20	25	30	40	65						

Note: Standard distribution used for percent defective computations; Poisson for defects per hundred units.

TABLE X-F-2 - SAMPLING PLANS FOR SAMPLE SIZE CODE LETTER: F

Type of sampling plan	Cumulative sample size	Acceptable Quality Levels (normal inspection)																				Higher than 65							
		Less than 0.65		0.65	1.0	1.5	2.5	4.0	6.5	10	15	25	40	65	100	150	200	250	300	350									
		Ac	Re	Ac	Re	Ac	Re	Ac	Re	Ac	Re	Ac	Re	Ac	Re	Ac	Re	Ac	Re	Ac	Re								
Single	20	▽	0	1		1	2	3	3	4	5	6	7	8	8	9	10	11	12	13	14	15	18	19	21	22	△	20	
	Double	13	▽	.			0	2	3	4	2	5	3	7	3	7	5	9	6	10	7	11	9	14	11	16	△	11	
		26					1	2	4	5	6	7	8	9	11	12	12	13	15	16	18	19	23	24	26	27		26	
Multiple	5	▽	.			.	2	2	2	3	4	4	4	4	4	4	5	5	6	6	7	7	8	8	9	△	5		
	10					.	2	3	3	3	5	1	6	2	7	3	8	3	9	4	10	6	12	7	14		10		
	15					0	2	3	4	2	6	3	8	4	9	6	10	7	12	8	13	11	17	13	19		15		
	20					0	3	4	2	5	3	7	5	10	6	11	8	13	10	15	12	17	16	22	19	25		20	
	25					1	3	2	4	3	6	5	8	7	11	9	12	11	15	14	17	17	20	22	25	29		25	
	30					1	3	3	5	4	6	7	9	10	12	14	14	17	18	20	21	23	27	29	31	33		30	
	35					2	3	4	5	6	7	9	10	13	14	14	15	18	19	21	22	25	26	32	33	37	38		35
		Less than 1.0	1.0	1.5	2.5	4.0	6.5	10	15	25	40	65	100	150	200	250	300	350	400	450	500	65	100	150	200	250	300	350	Higher than 65

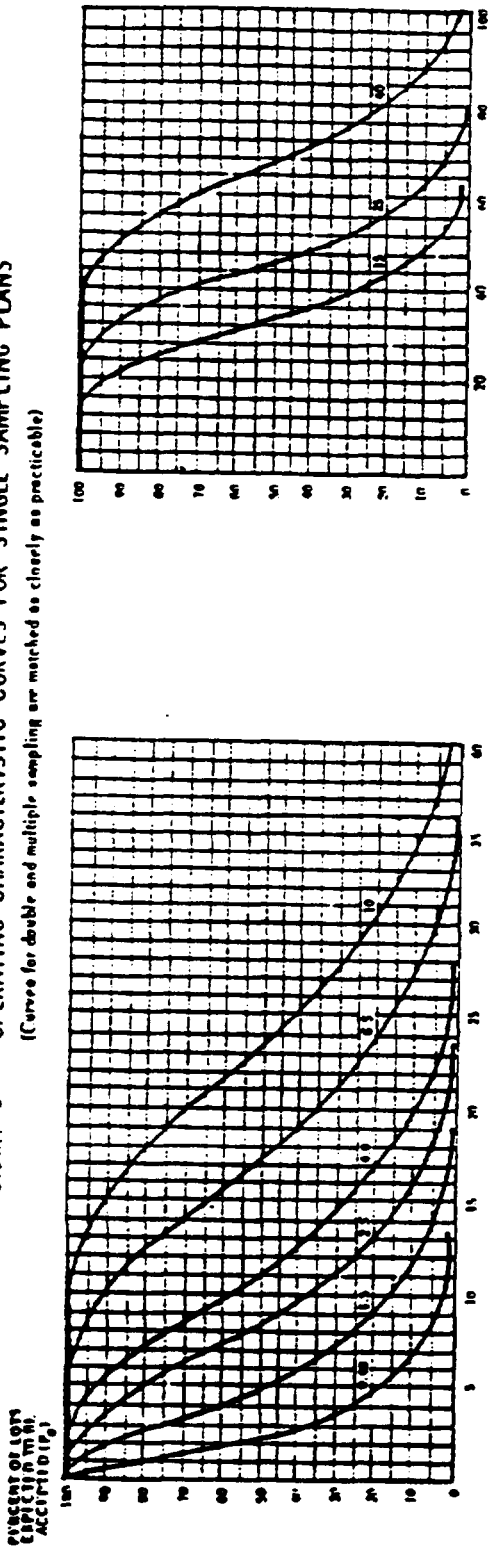
Acceptable Quality Levels (tightened inspection)

- △ = Use next preceding sample size code letter for which acceptance and rejection numbers are available.
- ▽ = Use next subsequent sample size code letter for which acceptance and rejection numbers are available.
- Ac = Acceptance number
- Re = Rejection number
- .
- Use same sampling plan as above (or alternately use code letter J)

TABLE X-G—Tables for sample size code letter: G

CHART G - OPERATING CHARACTERISTIC CURVES FOR SINGLE SAMPLING PLANS

(Curves for double and multiple sampling are matched as closely as practicable)



QUALITY OF SUBMITTED LOTS (p, in percent defective for AQL's ≤ 10; in defects per hundred units for AQL's > 10)
 Note: Figures on curves are Acceptable Quality Levels (AQL's) for normal inspection.

TABLE X-G-1 - TABULATED VALUES FOR OPERATING CHARACTERISTIC CURVES FOR SINGLE SAMPLING PLANS

P ₀	Acceptable Quality Levels (normal inspection)																	
	0.40	1.5	2.5	4.0	6.5	10	15	25	40	60								
	p (in percent defective)																	
99.0	0.0314	0.472	1.40	2.87	5.88	9.73	0.0314	0.464	1.16	2.57	5.50	9.08	11.0	14.9	19.1	23.4	32.3	39.3
95.0	0.100	1.12	2.00	4.30	6.50	13.1	0.160	1.11	2.58	4.37	6.17	12.4	14.7	19.3	24.0	28.9	38.9	46.5
90.0	0.329	1.67	3.40	5.56	10.2	15.1	0.329	1.66	3.44	5.45	9.85	14.6	17.0	21.9	27.0	32.2	42.7	50.8
75.0	0.895	3.01	5.02	7.90	13.4	19.0	0.895	3.00	5.40	7.92	13.2	18.6	21.4	26.9	32.6	38.2	49.7	58.4
50.0	2.14	5.19	8.27	11.4	17.5	23.7	2.17	5.24	8.38	11.5	17.7	24.0	27.1	33.3	39.6	45.8	58.3	67.7
25.0	4.84	8.19	11.9	15.4	22.3	29.0	4.33	8.41	12.3	16.0	23.2	30.3	33.8	40.7	47.6	54.4	67.9	78.0
10.0	6.94	11.6	15.0	19.7	27.1	34.1	7.20	12.2	16.6	20.9	29.0	36.8	40.6	48.1	55.6	62.9	77.4	88.1
5.0	8.94	14.0	18.4	22.5	30.1	37.2	9.36	14.8	19.7	24.2	32.9	41.1	45.1	53.0	60.8	68.4	83.4	94.5
1.0	13.4	19.0	23.8	28.1	36.0	43.2	14.4	20.7	26.1	31.4	41.0	50.0	54.4	63.0	71.3	79.5	95.6	107
0.65	2.5	6.0	6.5	10	10	15	0.65	2.5	4.0	6.5	10	15	15	25	25	40	40	40

Note: Shaded numbers used for percent defective comparison. Patterns for defects per hundred units.

TABLE X-G-2 - SAMPLING PLANS FOR SAMPLE SIZE CODE LETTER: G

Type of sampling plan	Cumulative sample size	Acceptable Quality Levels (normal inspection)																Higher than 40	Cumulative sample size			
		0.40	0.65	1.0	1.5	2.5	4.0	6.5	10	15	25	40										
		Ac	Re	Ac	Re	Ac	Re	Ac	Re	Ac	Re	Ac	Re	Ac	Re	Ac	Re	Ac	Re			
Single	32	∇	0 1																△		32	
	20	∇		Use code Letter	0 2	0 3	1 4	2 5	3 7	5 9	10 11	12 14	15 16	17 19	20 21	22 24	25 26	27 28	29 31	32 33	34 35	20
	40			F	1 2	3 4	4 5	6 7	8 9	11 12	13 15	16 18	19 20	21 23	24 26	27 28	29 31	32 33	34 35			40
		∇				0 2	0 3	1 4	2 5	3 7	5 9	10 11	12 14	15 16	17 19	20 21	22 24	25 26	27 28	29 31	32 33	34 35	8
Double	16			Use code Letter	0 2	0 3	1 5	1 6	2 7	3 8	3 9	4 10	5 11	6 12	7 14	8 15	9 16	10 17	11 18	12 19	13 20	16
	24				0 2	0 3	1 4	2 6	3 8	4 9	5 10	6 11	7 12	8 13	9 14	10 15	11 16	12 17	13 18	14 19	15 20	24
	32				0 3	1 4	2 5	3 7	5 10	6 11	8 13	10 15	12 17	14 19	16 22	17 25	18 26	19 30	20 31	21 32	22 33	32
	40				1 3	2 4	3 6	5 8	7 11	9 12	11 14	17 18	19 21	22 25	23 26	24 28	25 29	26 31	27 30	28 32	29 33	40
Multiple	48				1 3	3 5	4 6	7 9	10 12	12 14	14 16	17 18	20 21	23 27	25 29	27 31	29 33	31 35	33 37	35 39	37 43	48
	56				2 3	4 5	6 7	9 10	13 14	15 18	19 21	22 25	26 32	33 37	38 40	41 46	43 48	45 51	47 53	49 55	51 56	56
		∇	0.65	X	1.0	1.5	2.5	4.0	6.5	10	15	25	40	X	Higher than 40							

Acceptable Quality Levels (tightened inspection)

△ = Use next preceding sample size code letter for which acceptance and rejection numbers are available.

∇ = Use next subsequent sample size code letter for which acceptance and rejection numbers are available.

Ac = Acceptance number.

Re = Rejection number.

TABLE X-H—Tables for sample size code letter: H

CHART H - OPERATING CHARACTERISTIC CURVES FOR SINGLE SAMPLING PLANS

(Curves for double and multiple sampling are marked as clearly as practicable.)

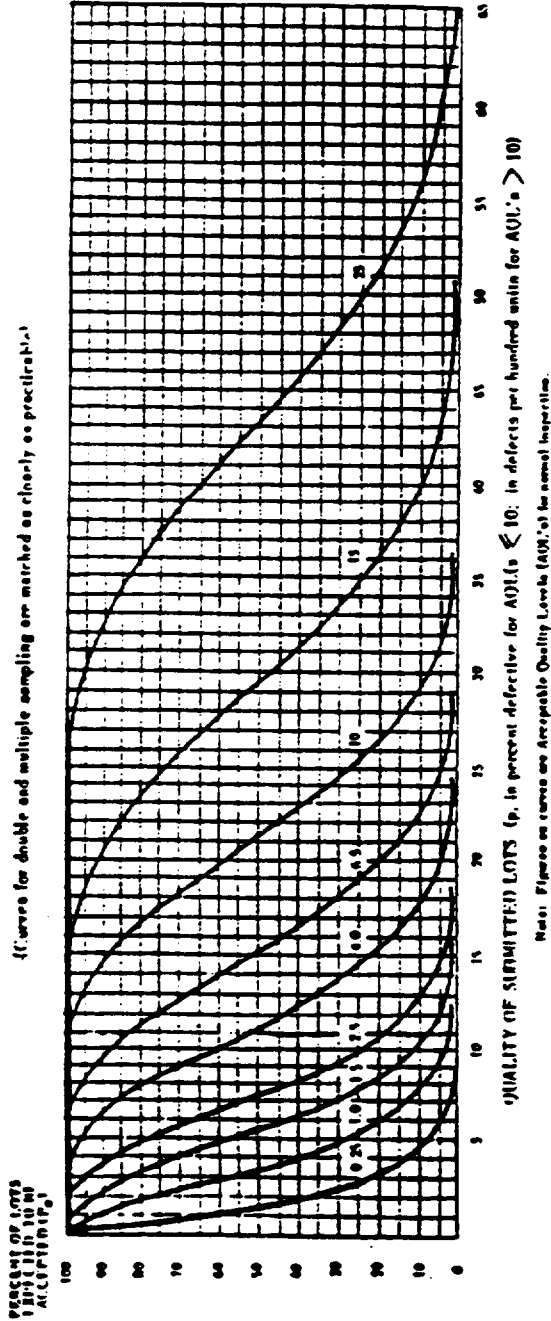


TABLE X-H-1 - TABULATED VALUES FOR OPERATING CHARACTERISTIC CURVES FOR SINGLE SAMPLING PLANS

P ₀	Acceptable Quality Levels (normal inspection)																			
	p (in percent defective)																			
	0.25	1.0	1.5	2.5	4.0	6.5	10	15	25	40	65	10	15	25	40	65	10	15	25	
99.0	0.0201	0.300	0.600	1.60	3.69	6.07	7.36	10.1	0.0201	0.297	0.872	1.65	3.57	5.81	7.01	9.54	12.2	15.0	20.7	25.1
95.0	0.103	0.715	1.66	2.70	5.36	8.22	9.72	12.9	0.103	0.711	1.64	2.73	5.23	7.96	9.39	12.3	15.4	18.5	24.9	29.8
90.0	0.210	1.07	2.22	3.53	6.43	9.54	11.2	14.5	0.211	1.04	2.20	3.49	6.30	9.31	10.9	14.0	17.3	20.6	27.3	32.5
75.0	0.574	1.92	3.46	5.10	8.51	12.0	13.8	17.5	0.575	1.92	3.45	5.07	8.44	11.9	13.7	17.2	20.8	24.5	31.8	37.4
50.0	1.30	3.33	5.31	7.29	11.3	15.2	17.2	21.2	1.30	3.36	5.15	7.34	11.3	15.3	17.3	21.3	25.3	29.3	37.3	43.3
25.0	2.73	5.29	7.69	10.0	14.5	18.8	21.0	25.2	2.77	5.39	7.84	10.2	14.8	19.4	21.6	26.0	30.4	34.8	43.5	49.9
10.0	4.50	7.56	10.3	12.9	17.8	22.6	24.7	29.1	4.61	7.78	10.6	13.4	18.5	23.5	26.0	30.8	35.6	40.3	49.5	54.6
5.0	5.82	9.14	12.1	14.8	19.9	24.7	27.0	31.6	5.99	9.49	12.6	15.5	21.0	26.3	28.9	33.9	38.9	43.8	53.4	60.5
1.0	8.00	12.6	15.8	18.7	24.2	29.2	31.7	36.3	9.21	13.3	16.8	20.1	26.2	32.0	34.8	40.3	45.6	50.9	61.2	68.7
0.40	1.5	2.5	4.0	6.5	10	15	16.8	20.1	0.40	1.5	2.5	4.0	6.5	10	15	20	25	30	35	40

Note: Binomial distribution used for percent defective components; Poisson for defects per hundred units.

TABLE X-H-2 - SAMPLING PLANS FOR SAMPLE SIZE CODE LETTER: H

Type of sampling plan	Cumulative sample size	Acceptable Quality Levels (normal inspection)																							
		Less than 0.25	0.25	0.40	0.65	1.0	1.5	2.5	4.0	6.5	10	15	25	35	50	65	80	100	125	150	200	250	315	400	
		Ac Re	Ac Re	Ac Re	Ac Re	Ac Re	Ac Re	Ac Re	Ac Re	Ac Re	Ac Re	Ac Re	Ac Re	Ac Re	Ac Re	Ac Re	Ac Re	Ac Re	Ac Re	Ac Re	Ac Re	Ac Re	Ac Re	Ac Re	Ac Re
Single	50	▽	0 1			1 2	2 3	3 4	5 6	7 8	9 10	11 12	13 14	15 16	18 19	21 22									△
				Use code Letters	Use code Letters																				
Double	32	▽	•			0 2	0 3	1 4	2 5	3 7	3 7	5 9	6 10	7 11	9 14	11 16									△
	64			Use code Letters	Use code Letters	1 2	3 4	4 5	6 7	8 9	11 12	12 13	15 16	18 19	23 24	26 27									
Multiple	13	▽	•			• 2	• 2	• 3	• 4	• 4	• 4	• 5	• 6	• 7	• 8	• 9	• 10	• 11	• 12	• 13	• 14	• 15	• 16	• 17	• 18
	26			Use code Letters	Use code Letters	• 2	• 3	• 4	• 5	• 6	• 7	• 8	• 9	• 10	• 11	• 12	• 13	• 14	• 15	• 16	• 17	• 18	• 19	• 20	
	39					• 2	• 3	• 4	• 5	• 6	• 7	• 8	• 9	• 10	• 11	• 12	• 13	• 14	• 15	• 16	• 17	• 18	• 19	• 20	
	52					• 3	• 4	• 5	• 6	• 7	• 8	• 9	• 10	• 11	• 12	• 13	• 14	• 15	• 16	• 17	• 18	• 19	• 20	• 21	
	65					• 3	• 4	• 5	• 6	• 7	• 8	• 9	• 10	• 11	• 12	• 13	• 14	• 15	• 16	• 17	• 18	• 19	• 20	• 21	
	78					• 3	• 4	• 5	• 6	• 7	• 8	• 9	• 10	• 11	• 12	• 13	• 14	• 15	• 16	• 17	• 18	• 19	• 20	• 21	
	91					• 3	• 4	• 5	• 6	• 7	• 8	• 9	• 10	• 11	• 12	• 13	• 14	• 15	• 16	• 17	• 18	• 19	• 20	• 21	
			Less than 0.40	0.40	0.65	1.0	1.5	2.5	4.0	6.5	10	15	25	35	50	65	80	100	125	150	200	250	315	400	Higher than 25
				×	×																				

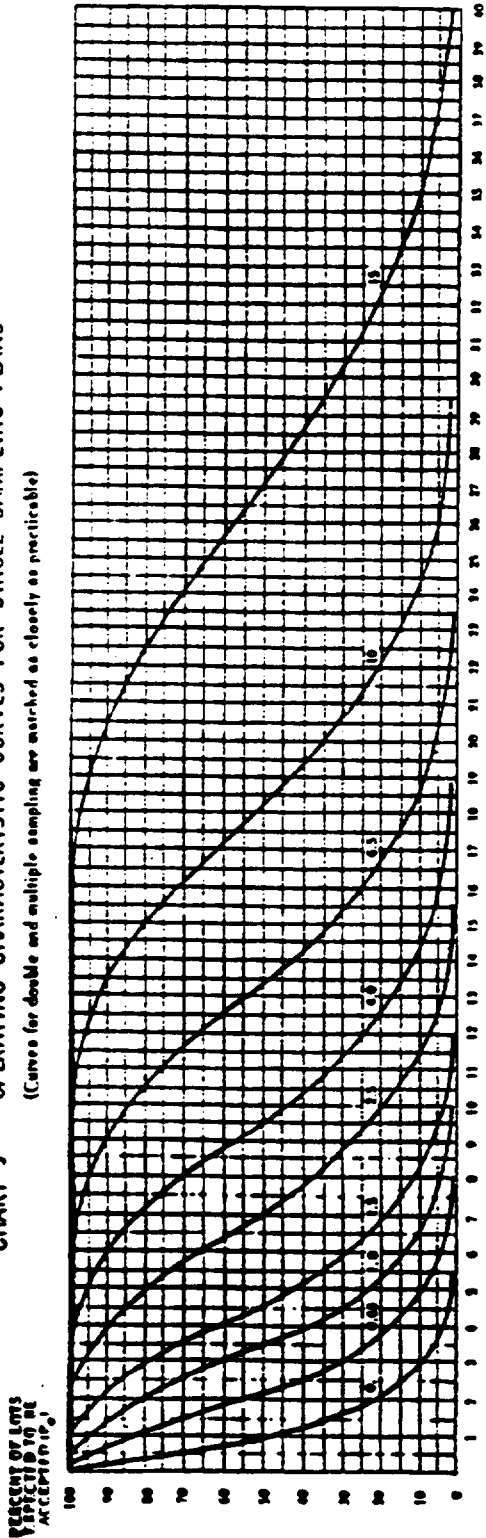
Acceptable Quality Levels (tightened inspection)

△ ▽ Use next preceding sample size code letter for which acceptance and rejection numbers are available.
 ▽ ▽ Use next subsequent sample size code letter for which acceptance and rejection numbers are available.
 Ac = Acceptance number
 Re = Rejection number

TABLE X-J—Tables for sample size code letter: J

CHART J - OPERATING CHARACTERISTIC CURVES FOR SINGLE SAMPLING PLANS

(Curves for double and multiple sampling are marked as closely as practicable)



QUALITY OF SUBMITTED LOTS (p, in percent defective for AQL's ≤ 10 ; in defects per hundred units for AQL's > 10)
 Note: Figures on curves are Acceptable Quality Levels (AQL's) for normal inspection.

TABLE X-J-1 - TABULATED VALUES FOR OPERATING CHARACTERISTIC CURVES FOR SINGLE SAMPLING PLANS

P ₀	Acceptable Quality Levels (normal inspection)																						
	p (in percent defective)																						
	0.15	0.65	1.0	1.5	2.5	4.0	6.0	10	15	20	25	30	4.0	6.5	10	15							
99.0	0.0126	0.107	0.550	1.04	2.28	3.73	4.51	6.17	7.88	9.76	0.0126	0.106	0.545	1.03	2.23	3.63	4.38	5.96	7.62	9.35	12.9	15.7	
95.0	0.0041	0.446	1.63	1.73	3.32	5.07	6.80	7.93	9.89	11.9	0.0041	0.444	1.62	1.71	3.27	4.98	5.87	7.71	9.61	11.6	15.6	18.6	
90.0	0.132	0.667	1.39	2.20	3.99	5.91	6.90	8.95	11.0	13.2	0.132	0.665	1.38	2.18	3.94	5.82	6.79	8.78	10.8	12.9	17.1	20.3	
75.0	0.359	1.201	2.16	3.18	5.30	7.50	8.61	10.9	13.2	15.5	0.360	1.20	2.16	3.17	5.27	7.45	8.55	10.8	13.0	15.3	19.9	23.4	
50.0	0.663	2.09	3.33	4.57	7.06	9.55	10.8	13.3	15.8	18.3	0.666	2.10	3.34	4.59	7.09	9.59	10.8	13.3	15.8	18.3	23.3	27.1	
25.0	1.72	3.33	4.84	6.30	9.14	11.9	13.3	16.0	18.6	21.3	1.73	3.37	4.90	6.39	9.28	12.1	13.5	16.3	19.0	21.7	27.2	31.2	
10.0	2.84	4.78	6.52	8.16	11.3	14.3	15.7	18.6	21.4	24.2	2.88	4.86	6.65	8.35	11.6	14.7	16.2	19.3	22.2	25.2	30.9	35.2	
5.0	3.68	5.79	7.64	9.41	12.7	15.8	17.3	20.3	23.2	26.0	3.74	5.93	7.87	9.69	13.1	16.4	18.0	21.2	24.3	27.4	31.4	37.8	
1.0	5.59	8.81	10.1	12.0	15.6	18.9	20.5	23.6	26.8	29.5	5.76	8.30	10.5	12.6	16.4	20.0	21.8	25.2	28.5	31.8	38.2	42.9	
0.25	1.0	1.5	2.5	4.0	6.5	10	15	20.5	25.2	29.5	0.25	1.0	1.5	2.5	4.0	6.5	10	15	20.5	25.2	29.5	35.2	42.9

Acceptable Quality Levels (tightened inspection)

Note: Binomial distribution used for percent defective computation. Release for defects per hundred units.

TABLE X-J-2 - SAMPLING PLANS FOR SAMPLE SIZE CODE LETTER: J

Type of sampling plan	Consecutive sample size	Acceptable Quality Levels (normal inspection)															Higher than 15												
		Less than 0.15	0.15	0.25	0.40	0.65	1.0	1.5	2.5	4.0	6.5	10	15	15															
		Ac Re	Ac Re	Ac Re	Ac Re	Ac Re	Ac Re	Ac Re	Ac Re	Ac Re	Ac Re	Ac Re	Ac Re	Ac Re															
Single	80	▽	0 1																				△						
	50 100	▽	•	Use code Letter H	Use code Letter L	Use code Letter K																	△						
Multiple	20	▽	•																				△						
	40																												
	60																												
	80																												
	100																												
	120 140																												
		Less than 0.25	0.25	0.40	0.65	1.0	1.5	2.5	4.0	6.5	10	15	15	Higher than 15	Acceptable Quality Levels (tightened inspection)														

△ Use next preceding sample size code letter for which acceptance and rejection numbers are available.
 ▽ Use next subsequent sample size code letter for which acceptance and rejection numbers are available.
 Ac Acceptance number
 Re Rejection number
 • Use single sampling plan above (or alternatively use code letter H)

TABLE X-K—Tables for sample size code letter: K

CHART K - OPERATING CHARACTERISTIC CURVES FOR SINGLE SAMPLING PLANS

(Curves for double and multiple sampling are matched as closely as practicable)

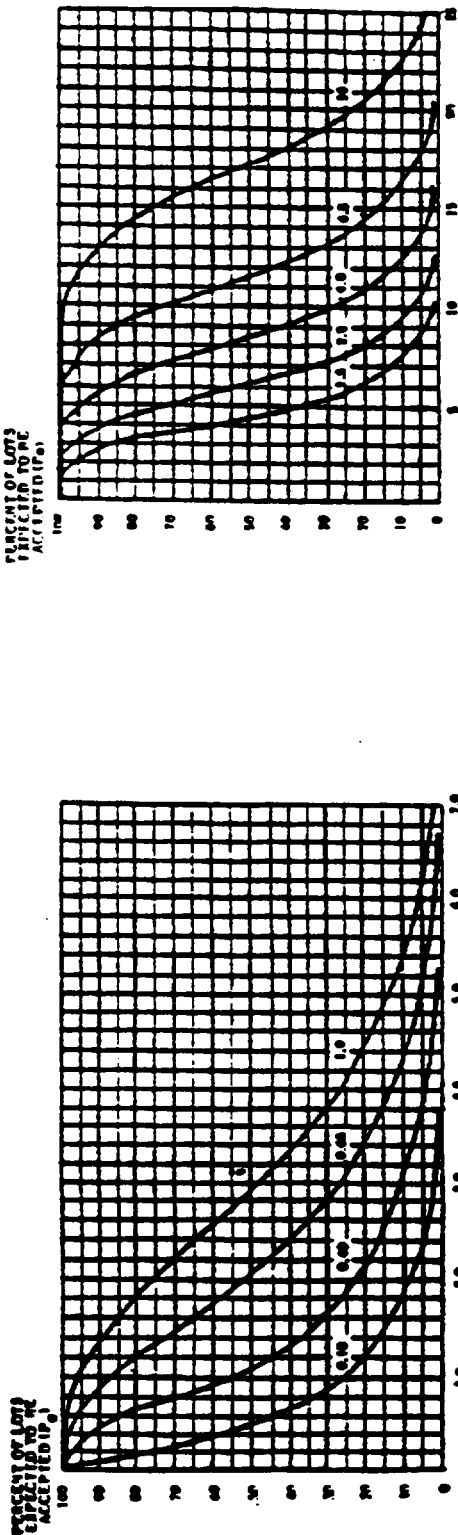


TABLE X-K-1 - TABULATED VALUES FOR OPERATING CHARACTERISTIC CURVES FOR SINGLE SAMPLING PLANS

Note: Figures on curves are Acceptable Quality Levels (AQL's) for normal inspection.

TABLE X-K-1 - TABULATED VALUES FOR OPERATING CHARACTERISTIC CURVES FOR SINGLE SAMPLING PLANS

p ₀	Acceptable Quality Levels (normal inspection)											
	0.10	0.40	0.65	1.0	1.5	2.5	4.0	6.5	10	10		
	p (in percent defective or defects per hundred units)											
99.0	0.00004	0.119	0.349	0.659	1.43	2.32	2.81	3.02	4.00	5.90	8.20	10.1
95.0	0.0410	0.204	0.654	1.09	2.09	3.10	3.76	4.96	6.15	7.40	9.95	11.9
90.0	0.0843	0.425	0.882	1.40	2.52	3.72	4.35	5.62	6.92	8.24	10.9	13.0
75.0	0.230	0.709	1.392	2.00	3.30	4.70	5.47	6.90	8.34	9.79	12.7	14.9
50.0	0.955	1.34	2.14	2.94	4.54	6.14	6.94	8.53	10.1	11.7	14.9	17.3
25.0	1.11	2.15	3.14	4.09	5.94	7.75	8.64	10.4	12.2	13.9	17.4	20.0
10.0	1.84	3.11	4.26	6.24	7.42	9.42	10.4	12.3	14.2	16.1	19.8	22.5
5.0	2.40	3.80	5.04	6.20	8.41	10.5	11.5	13.6	15.6	17.5	21.4	24.2
1.0	3.60	5.31	6.72	8.04	10.5	12.0	13.3	16.1	18.3	20.4	24.5	27.5
0.15	0.65	1.0	1.5	2.5	4.0	6.5	10.1	16.1	24.5	40.0	65.0	100.0
	Acceptable Quality Levels (tightened inspection)											
	0.10	0.40	0.65	1.0	1.5	2.5	4.0	6.5	10	10	10	10

Note: All values given in above table based on Poisson distribution as an approximation to the Binomial.

K

TABLE X-K-2 - SAMPLING PLANS FOR SAMPLE SIZE CODE LETTER: K

Type of sampling plan	Cumulative lot size	Acceptable Quality Levels (normal inspection)																		Higher than 10							
		Less than 0.10		0.10		0.15		0.25		0.40		0.65		1.0		1.5		2.5			4.0		6.5		10		
		Ac	Re	Ac	Re	Ac	Re	Ac	Re	Ac	Re	Ac	Re	Ac	Re	Ac	Re	Ac	Re		Ac	Re	Ac	Re	Ac	Re	
Single	125	▽	0	1																							
Double	80	▽	•																								
Multiple	32	▽	•																								
		Less than 0.15		0.15		0.25		0.40		0.65		1.0		1.5		2.5		4.0		6.5		10		Higher than 10			

Acceptable Quality Levels (tightened inspection)

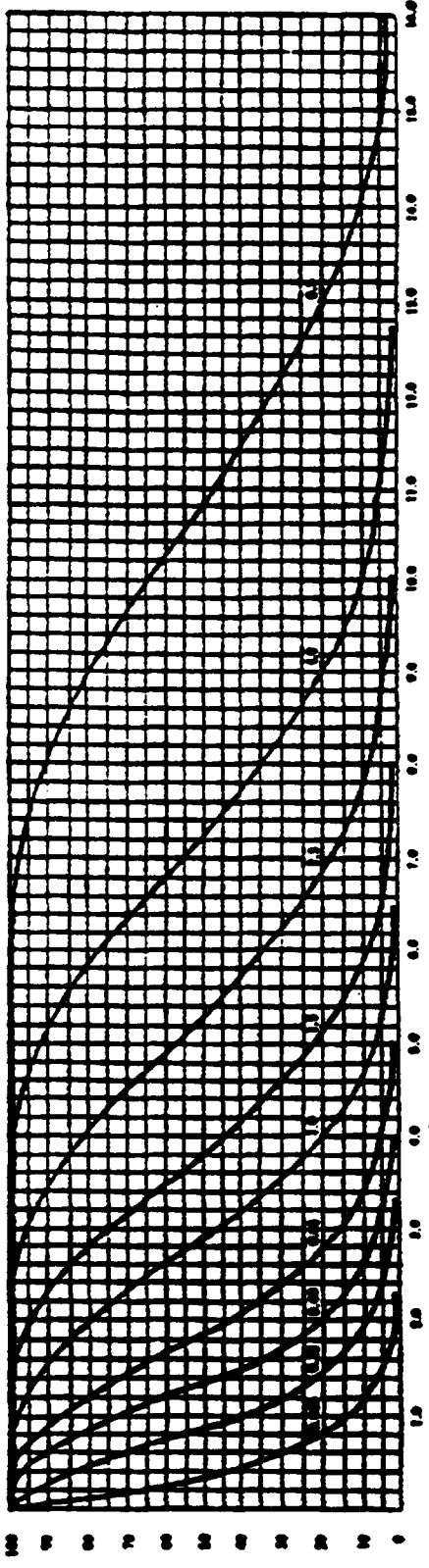
- △ Use next preceding sample size code letter for which acceptance and rejection numbers are available.
- ▽ Use next subsequent sample size code letter for which acceptance and rejection numbers are available.
- Ac Acceptance number
- Re Rejection number
- Use single sampling plan above (or alternatively use code letter M)

TABLE X-L—Tables for sample size code letter: L

CHART L - OPERATING CHARACTERISTIC CURVES FOR SINGLE SAMPLING PLANS

(Curves for double and multiple sampling are omitted or closely as practicable)

PERCENT OF LOTS ACCEPTED TO AN ACCEPTANCE PLAN



QUALITY OF SUBMITTED LOTS (p, in percent defective for AQL's ≤ 10 ; in defects per hundred units for AQL's > 10)

Note: Figures on curves are Acceptable Quality Levels (AQL's) for normal inspection.

TABLE X-L-1 - TABULATED VALUES FOR OPERATING CHARACTERISTIC CURVES FOR SINGLE SAMPLING PLANS

P ₀	Acceptable Quality Levels (normal inspection)													
	0.05	0.10	0.15	0.20	0.25	0.30	0.40	0.50	0.65	1.0	1.5	2.5	4.0	6.5
99.0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
95.0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
90.0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
75.0	0.144	0.091	0.064	0.37	2.11	2.96	3.62	4.31	5.31	6.18	7.95	9.34	10.8	12.5
50.0	0.347	0.609	1.34	1.84	2.04	2.64	3.44	4.30	5.33	6.30	7.30	9.30	10.8	12.5
25.0	0.690	1.20	1.96	2.56	3.71	4.83	6.00	6.50	7.70	8.69	10.1	12.4	14.1	15.1
10.0	1.18	1.84	2.66	3.34	4.64	5.89	6.57	7.22	8.48	9.72	10.9	13.3	15.1	17.2
5.0	1.99	2.37	3.15	3.88	5.26	6.55	7.02	8.10	10.1	11.4	12.7	15.3	17.2	17.2
1.0	2.30	3.32	4.20	5.02	6.55	8.00	8.70	10.1	11.4	12.7	15.3	17.2	17.2	17.2
0.10	0.40	0.65	1.0	1.5	2.5	4.0	6.5	10.0	15.0	25.0	40.0	65.0	100.0	100.0

Note: All values given in above table based on Poisson distribution as an approximation to the Binomial.

TABLE X-L-2 - SAMPLING PLANS FOR SAMPLE SIZE CODE LETTER: L

Type of sampling plan	Cumulative sample size	Acceptable Quality Levels (normal inspection)																		Higher than 6.5						
		Less than 0.065		0.065		0.10		0.15		0.25		0.40		0.65		1.0		1.5			2.5		4.0		6.5	
		Ac	Re	Ac	Re	Ac	Re	Ac	Re	Ac	Re	Ac	Re	Ac	Re	Ac	Re	Ac	Re		Ac	Re	Ac	Re	Ac	Re
Single	200	▽	0	1	1	2	3	3	4	5	6	7	8	9	10	11	12	13	14	15	18	19	21	22	△	
	125	▽	0	1	0	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	18	19	21	22	△	
Double	250	▽	0	1	1	2	3	4	5	6	7	8	9	11	12	13	15	16	18	19	23	24	26	27		
	50	▽	0	1	0	2	3	4	5	6	7	8	9	10	11	12	13	15	16	18	19	21	22	24	△	
Multiple	100		0	1	0	2	3	4	5	6	7	8	9	10	11	12	13	15	16	18	19	21	22	24	△	
	150		0	1	0	2	3	4	5	6	7	8	9	10	11	12	13	15	16	18	19	21	22	24	△	
	200		0	1	0	2	3	4	5	6	7	8	9	10	11	12	13	15	16	18	19	21	22	24	△	
	250		0	1	0	2	3	4	5	6	7	8	9	10	11	12	13	15	16	18	19	21	22	24	△	
	300		0	1	0	2	3	4	5	6	7	8	9	10	11	12	13	15	16	18	19	21	22	24	△	
	350		0	1	0	2	3	4	5	6	7	8	9	10	11	12	13	15	16	18	19	21	22	24	△	
	400		0	1	0	2	3	4	5	6	7	8	9	10	11	12	13	15	16	18	19	21	22	24	△	
	Less than 0.10	▽	0	10	0	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100	105	Higher than 6.5	

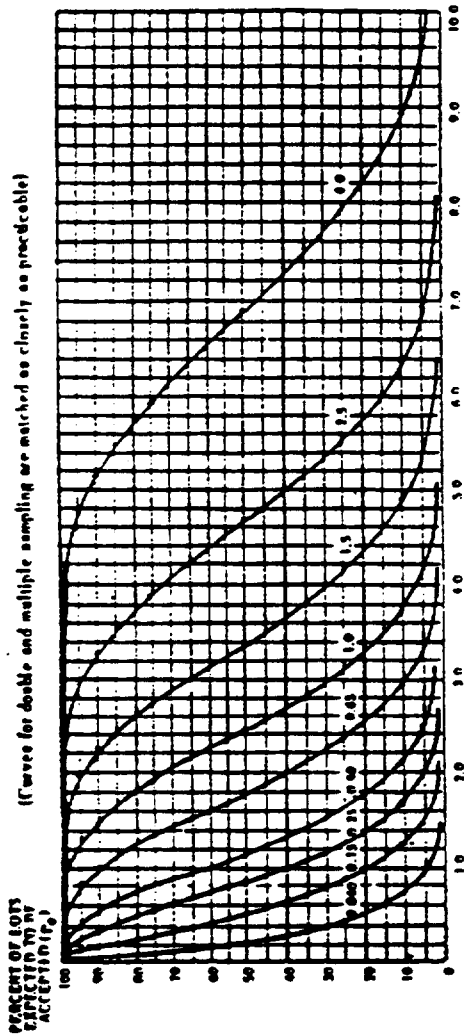
Acceptable Quality Levels (tightened inspection)

- △ = Use next preceding sample size code letter for which acceptance and rejection numbers are available.
- ▽ = Use next subsequent sample size code letter for which acceptance and rejection numbers are available.
- Ac = Acceptance number
- Re = Rejection number

TABLE X-M — Tables for sample size code letter: M

CHART M - OPERATING CHARACTERISTIC CURVES FOR SINGLE SAMPLING PLANS

(Curves for double and multiple sampling are matched as closely as practicable)



QUALITY OF SUBMITTED LOTS (p) in percent defective for AQL's ≤ 10 ; in defects per hundred units for AQL's > 10
 Note: Figures on curves are Acceptable Quality Levels (AQL's) for normal inspection.

TABLE X-M-1 - TABULATED VALUES FOR OPERATING CHARACTERISTIC CURVES FOR SINGLE SAMPLING PLANS

P _o	Acceptable Quality Levels (normal inspection)											
	0.040	0.15	0.25	0.40	0.65	1.0	1.5	2.5	4.0	6.0		
	p (in percent defective or in defects per hundred units)											
99.0	0.00319	0.0472	0.138	0.261	0.567	0.923	1.11	1.51	1.94	2.37	2.78	3.99
95.0	0.0163	0.113	0.260	0.436	0.830	1.26	1.49	1.96	2.44	2.94	3.95	4.73
90.0	0.0329	0.169	0.350	0.534	1.00	1.48	1.72	2.23	2.74	3.27	4.34	5.16
75.0	0.0913	0.305	0.548	0.805	1.34	1.89	2.17	2.74	3.31	3.89	5.05	5.93
50.0	0.229	0.533	0.849	1.17	1.80	2.43	2.75	3.39	4.02	4.66	5.93	6.88
25.0	0.440	0.855	1.24	1.62	2.36	3.07	3.43	4.13	4.83	5.52	6.90	7.92
10.0	0.731	1.23	1.69	2.12	2.94	3.74	4.13	4.89	5.64	6.39	7.86	8.95
5.0	0.951	1.51	2.00	2.46	3.34	4.17	4.58	5.38	6.17	6.95	8.47	9.60
1.0	1.46	2.11	2.67	3.19	4.16	5.09	5.52	6.40	7.24	8.08	9.71	10.9
	0.065	0.25	0.40	0.65	1.0	1.5	2.5	4.0	6.0	10.0	15.0	20.0
	Acceptable Quality Levels (tightened inspection)											

Note: All values given in above table based on Poisson distribution as an approximation to the Binomial

TABLE X-M-2 - SAMPLING PLANS FOR SAMPLE SIZE CODE LETTER: M

Type of sampling plan	Cumu. lot size sample size	Acceptable Quality Levels (normal inspection)																Cumu. lot size sample size													
		Less than 0.040		0.040	0.065	0.10	0.15	0.25	0.40	0.65	1.0	1.5	2.5	4.0	Higher than 4.0																
		Ac	Re	Ac	Re	Ac	Re	Ac	Re	Ac	Re	Ac	Re	Ac	Re	Ac	Re														
Single	315	△	0	1			1	2	3	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	△	
Double	200 400	▽	•				0	2	0	3	1	4	2	5	3	7	3	7	3	7	5	9	6	10	7	11	9	14	11	16	△
Multiple	80 160	▽	•				0	2	0	2	0	3	1	5	1	6	2	7	3	8	3	9	4	10	6	12	7	14	△		
	240 320 400 480 560							0	2	0	3	1	4	2	6	3	8	4	9	6	10	7	12	8	13	11	17	13	19		
								0	3	1	4	2	5	3	7	5	10	6	11	8	13	10	15	12	17	16	22	19	25		
								1	3	2	4	3	6	5	8	7	11	9	12	11	15	14	17	17	20	22	25	29			
								1	3	3	5	4	6	7	9	10	12	12	14	14	17	18	20	21	23	27	29	31	33		
						2	3	4	5	6	7	9	10	13	14	14	15	18	19	21	21	22	25	26	32	33	37	38			
		Less than 0.065	0.045				0.25	0.40	0.65	1.0	1.5	2.5	4.0																	Higher than 4.0	

Acceptable Quality Levels (tightened inspection)

- △ = Use next preceding sample size code letter for which acceptance and rejection numbers are available.
- ▽ = Use next subsequent sample size code letter for which acceptance and rejection numbers are available.
- Ac = Acceptance number.
- Re = Rejection number.
- = Use single sampling plan above (or alternatively use code letter Q)

TABLE X-N — Tables for sample size code letter: N

CHART N - OPERATING CHARACTERISTIC CURVES FOR SINGLE SAMPLING PLANS

(Curves for double and multiple sampling are matched as closely as practicable)

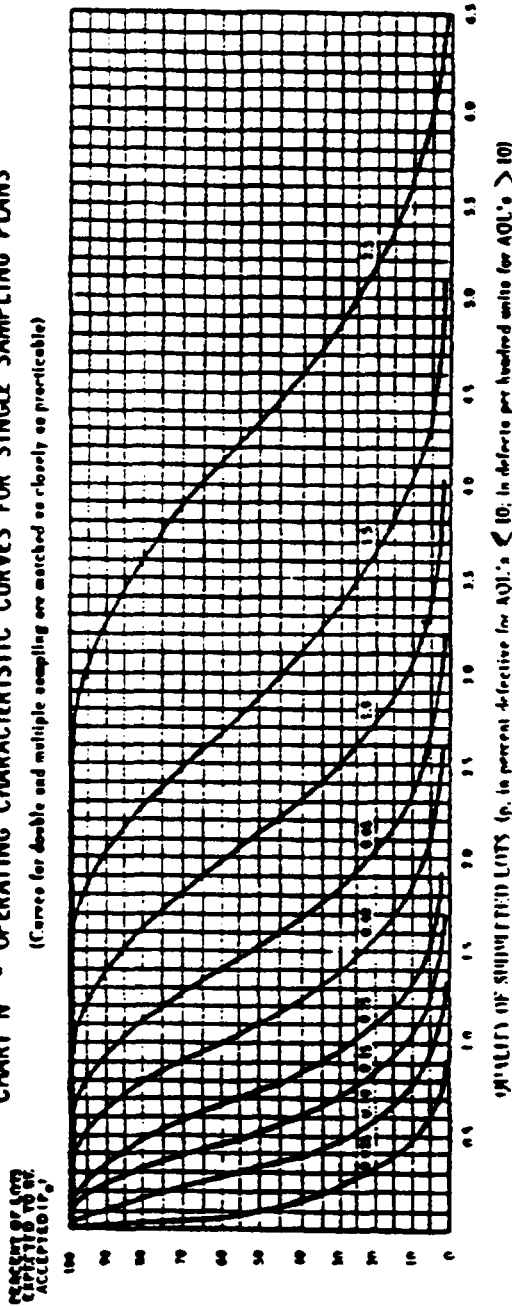


TABLE X-N-1 - TABULATED VALUES FOR OPERATING CHARACTERISTIC CURVES FOR SINGLE SAMPLING PLANS

P ₀	Acceptable Quality Levels (normal inspection)											
	0.075	0.10	0.15	0.25	0.40	0.65	1.0	1.5	2.0	2.5	3.0	
99.0	0.00201	0.0007	0.0072	0.165	0.357	0.591	0.701	0.954	1.22	1.59	2.07	2.51
95.0	0.0103	0.711	0.164	0.273	0.523	0.796	0.939	1.21	1.54	1.95	2.49	2.98
90.0	0.0211	0.106	0.220	0.349	0.620	0.931	1.09	1.40	1.73	2.06	2.73	3.25
75.0	0.0978	0.192	0.345	0.507	0.844	1.19	1.37	1.72	2.08	2.45	3.18	3.74
50.0	0.139	0.336	0.535	0.734	1.13	1.53	1.73	2.13	2.53	2.93	3.73	4.33
25.0	0.277	0.539	0.766	1.02	1.48	1.94	2.16	2.60	3.04	3.48	4.35	4.99
10.0	0.461	0.776	1.06	1.34	1.85	2.35	2.60	3.08	3.56	4.03	4.95	5.64
5.0	0.599	0.949	1.26	1.55	2.10	2.63	2.89	3.39	3.89	4.38	5.34	6.05
1.0	0.921	1.33	1.69	2.01	2.62	3.20	3.48	4.03	4.56	5.09	6.12	6.87
0.040	0.15	0.75	0.40	0.65	0.65	0.65	1.0	1.0	1.5	1.5	2.5	2.5

Acceptable Quality Levels (tightened inspection)

Note: All values given in above table based on Poisson distribution as an approximation to the Binomial

TABLE X-N-2 - SAMPLING PLANS FOR SAMPLE SIZE CODE LETTER: N

Type of sampling plan	Con- tinue sample also	Acceptable Quality Levels (normal inspection)																		Higher than 2.5								
		0.075		0.10		0.15		0.25		0.40		0.65		1.0		1.5		2.5										
		Ac	Re	Ac	Re	Ac	Re	Ac	Re	Ac	Re	Ac	Re	Ac	Re	Ac	Re	Ac	Re									
Single	▽	0	1	1	2	2	3	3	4	5	6	7	8	9	10	11	12	13	14	15	18	19	21	22	△			
		Use code Letter		Use code Letter		Use code Letter		Use code Letter		Use code Letter		Use code Letter		Use code Letter		Use code Letter		Use code Letter		Use code Letter		Use code Letter		Use code Letter		△		
		Use code Letter		Use code Letter		Use code Letter		Use code Letter		Use code Letter		Use code Letter		Use code Letter		Use code Letter		Use code Letter		Use code Letter		Use code Letter		Use code Letter		△		
Double	▽	0	1	1	2	2	3	3	4	5	6	7	8	9	10	11	12	13	15	16	18	19	23	24	26	27	315	
		Use code Letter		Use code Letter		Use code Letter		Use code Letter		Use code Letter		Use code Letter		Use code Letter		Use code Letter		Use code Letter		Use code Letter		Use code Letter		Use code Letter		Use code Letter		630
		Use code Letter		Use code Letter		Use code Letter		Use code Letter		Use code Letter		Use code Letter		Use code Letter		Use code Letter		Use code Letter		Use code Letter		Use code Letter		Use code Letter		Use code Letter		630
Multiple	▽	0	1	1	2	2	3	3	4	5	6	7	8	9	10	11	12	13	15	16	18	19	23	24	26	27	125	
		Use code Letter		Use code Letter		Use code Letter		Use code Letter		Use code Letter		Use code Letter		Use code Letter		Use code Letter		Use code Letter		Use code Letter		Use code Letter		Use code Letter		Use code Letter		250
		Use code Letter		Use code Letter		Use code Letter		Use code Letter		Use code Letter		Use code Letter		Use code Letter		Use code Letter		Use code Letter		Use code Letter		Use code Letter		Use code Letter		Use code Letter		375
		Use code Letter		Use code Letter		Use code Letter		Use code Letter		Use code Letter		Use code Letter		Use code Letter		Use code Letter		Use code Letter		Use code Letter		Use code Letter		Use code Letter		Use code Letter		500
		Use code Letter		Use code Letter		Use code Letter		Use code Letter		Use code Letter		Use code Letter		Use code Letter		Use code Letter		Use code Letter		Use code Letter		Use code Letter		Use code Letter		Use code Letter		625
		Use code Letter		Use code Letter		Use code Letter		Use code Letter		Use code Letter		Use code Letter		Use code Letter		Use code Letter		Use code Letter		Use code Letter		Use code Letter		Use code Letter		Use code Letter		750
		Use code Letter		Use code Letter		Use code Letter		Use code Letter		Use code Letter		Use code Letter		Use code Letter		Use code Letter		Use code Letter		Use code Letter		Use code Letter		Use code Letter		Use code Letter		875
Use code Letter		Use code Letter		Use code Letter		Use code Letter		Use code Letter		Use code Letter		Use code Letter		Use code Letter		Use code Letter		Use code Letter		Use code Letter		Use code Letter		Use code Letter		Higher than 2.5		

Acceptable Quality Levels (tightened inspection)

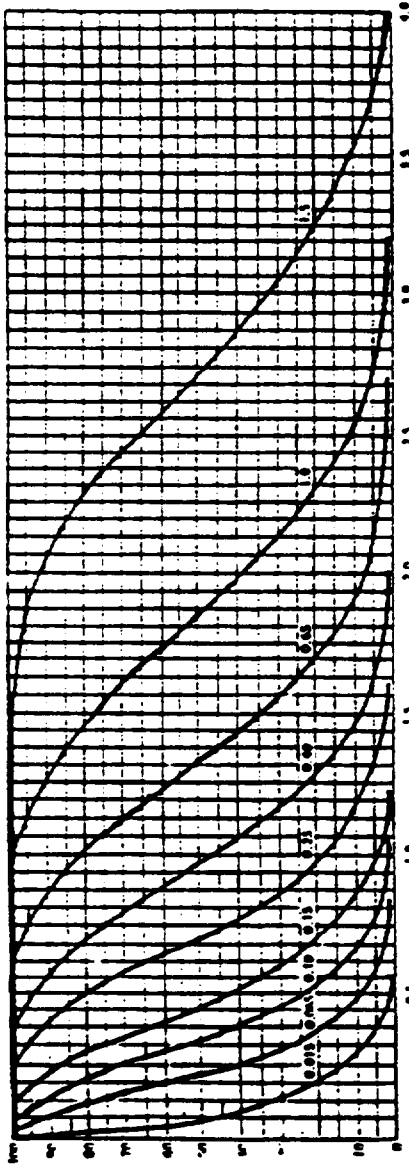
- △ = Use next preceding sample size code letter for which acceptance and rejection numbers are available.
- ▽ = Use next subsequent sample size code letter for which acceptance and rejection numbers are available.
- Ac = Acceptance number
- Re = Rejection number
- = Use single sampling plan above (or alternatively use code letter N)

TABLE X-P — Tables for sample size code letter: P

CHART P - OPERATING CHARACTERISTIC CURVES FOR SINGLE SAMPLING PLANS

(Curves for double and multiple sampling are matched as closely as practicable)

PERCENT OF LOTS ACCEPTED



QUALITY OF SUBMITTED LOTS (p in percent defective for AQL's ≤ 10 ; in defects per hundred units for AQL's > 10)
 Note: Figures on curves are Acceptable Quality Levels (AQL's) for normal inspection.

TABLE X-P-1 - TABULATED VALUES FOR OPERATING CHARACTERISTIC CURVES FOR SINGLE SAMPLING PLANS

P _n	Acceptable Quality Levels (normal inspection)													
	0.015	0.025	0.040	0.060	0.090	0.135	0.200	0.270	0.360	0.480	0.630	0.840	1.13	1.5
	p in percent defective or defects per hundred units													
99.0	0.00126	0.0106	0.0345	0.100	0.223	0.363	0.438	0.596	0.762	0.935	1.29	1.57		
95.0	0.00641	0.0444	0.102	0.171	0.327	0.499	0.587	0.771	0.961	1.16	1.56	1.86		
90.0	0.0132	0.0865	0.138	0.218	0.374	0.562	0.679	0.878	1.08	1.29	1.71	2.03		
75.0	0.0340	0.120	0.216	0.317	0.527	0.745	0.855	1.08	1.30	1.53	1.99	2.34		
50.0	0.0964	0.210	0.374	0.459	0.709	0.959	1.08	1.33	1.58	1.83	2.33	2.71		
25.0	0.173	0.337	0.490	0.639	0.928	1.21	1.35	1.63	1.90	2.17	2.72	3.12		
10.0	0.280	0.486	0.665	0.835	1.16	1.47	1.62	1.93	2.22	2.52	3.09	3.52		
5.0	0.374	0.593	0.787	0.969	1.31	1.64	1.80	2.12	2.43	2.74	3.34	3.78		
1.0	0.516	0.810	1.05	1.26	1.64	2.00	2.18	2.52	2.85	3.18	3.82	4.29		
	0.015	0.10	0.15	0.25	0.40	0.65	1.0	1.5	2.0	2.5	3.0	3.5	4.0	

Acceptable Quality Levels (lightened inspection)

Note: All values given in above table based on Poisson distribution as an approximation to the Binomial

TABLE X-P-2 - SAMPLING PLANS FOR SAMPLE SIZE CODE LETTER: P

Type of sampling plan	Cumulative sample size	Acceptable Quality Levels (normal inspection)																	Higher than 1.5
		0.010	0.015	0.025	0.040	0.065	0.10	0.15	0.25	0.40	0.65	1.0	1.5	1.5		Ac	Re	Rr	
		Ac	Re	Ac	Re	Ac	Re	Ac	Re	Ac	Re	Ac	Re	Ac	Re				
Single	800	▽	0 1			1 2	2 3	3 4	5 6	7 8	9 10	11 12	13 14	15 16	17 18	19 20	21 22	△	
	500	▽	•	Use code Letter	Use code Letter	0 2	0 3	1 4	2 5	3 7	5 9	6 10	7 11	9 14	11 16	△			
	1000					1 2	3 4	4 5	6 7	8 9	11 12	13 15	16 18	19 23	24 26	27	1000		
Multiple	200	▽	•	N	Q	0 2	0 2	0 3	0 4	0 4	0 4	0 4	0 5	0 6	1 7	1 8	2 9	△	
	400					0 2	0 3	0 3	1 5	1 6	2 7	3 8	3 9	4 10	6 12	7 14	400		
	600					0 2	0 3	1 4	2 6	3 8	4 9	6 10	7 12	8 13	11 17	13 19	600		
	800					0 3	1 4	2 5	3 7	5 10	6 11	8 13	10 15	12 17	16 22	19 25	800		
	1000					1 3	2 4	3 6	5 8	7 11	9 12	11 15	14 17	17 20	22 25	25 29	1000		
1200					1 3	3 5	4 6	7 9	10 12	12 14	14 17	18 20	21 23	27 29	31 33	1200			
1400					2 3	4 5	6 7	9 10	13 14	14 15	18 19	21 22	25 26	32 33	37 38	1400			
		Less than 0.025	0.025	0.040	0.065	0.10	0.15	0.25	0.40	0.65	1.0	1.5	1.5	1.5	1.5	1.5	Higher than 1.5		

Acceptable Quality Levels (tightened inspection)

- △ Use next preceding sample size code letter for which acceptance and rejection numbers are available.
- ▽ Use next subsequent sample size code letter for which acceptance and rejection numbers are available.
- Ac Acceptance number.
- Re Rejection number.
- Use single sampling plan above.
- Acceptance not permitted at this sample size.

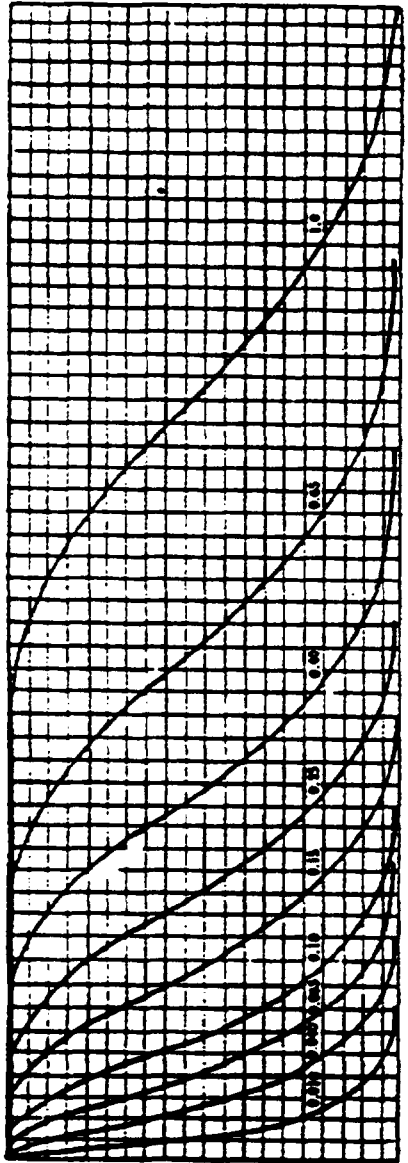


TABLE X-Q - Tables for sample size code letter: Q

CHART Q - OPERATING CHARACTERISTIC CURVES FOR SINGLE SAMPLING PLANS

(Curves for double and multiple sampling are matched as closely as practicable)

PERCENT OF LOTS
CLASSIFIED AS
ACCEPTED (%)



QUALITY OF SUBMITTED LOTS (p, in percent defective for AQL's ≤ 10 ; in defects per hundred units for AQL's > 10)

Note: Figures in curves are Acceptable Quality Levels (AQL's) for normal inspection

TABLE X-Q-1 - TABULATED VALUES FOR OPERATING CHARACTERISTIC CURVES FOR SINGLE SAMPLING PLANS

P _a	Acceptable Quality Levels (normal inspection)										
	0.010	0.040	0.065	0.10	0.15	0.25	0.40	0.65	1.0		
	p (in percent defective or defects per hundred units)										
99.0	0.000004	0.0119	0.0349	0.0658	0.143	0.232	0.281	0.382	0.488	0.628	1.01
95.0	0.000110	0.0204	0.0654	0.109	0.209	0.310	0.376	0.494	0.615	0.760	1.19
90.0	0.00043	0.0426	0.0992	0.140	0.252	0.372	0.435	0.562	0.692	0.824	1.30
75.0	0.0230	0.0769	0.138	0.203	0.308	0.476	0.547	0.690	0.834	0.979	1.49
50.0	0.0915	0.134	0.214	0.294	0.454	0.616	0.694	0.853	1.01	1.17	1.73
25.0	0.111	0.215	0.314	0.409	0.594	0.775	0.864	1.04	1.22	1.39	2.00
10.0	0.184	0.311	0.426	0.534	0.742	0.942	1.04	1.23	1.42	1.61	2.25
5.0	0.260	0.389	0.504	0.620	0.841	1.05	1.15	1.36	1.56	1.75	2.42
1.0	0.368	0.531	0.672	0.804	1.05	1.28	1.39	1.61	1.83	2.04	2.75
	0.015	0.065	0.10	0.15	0.25	0.40	0.65	1.0	1.0	1.0	X
	Acceptable Quality Levels (lightened inspection)										

Note: All values given in above table based on Poisson distribution as an approximation to the Binomial

TABLE X-R—Tables for sample size code letter: R

CHART R - OPERATING CHARACTERISTIC CURVES FOR SINGLE SAMPLING PLANS

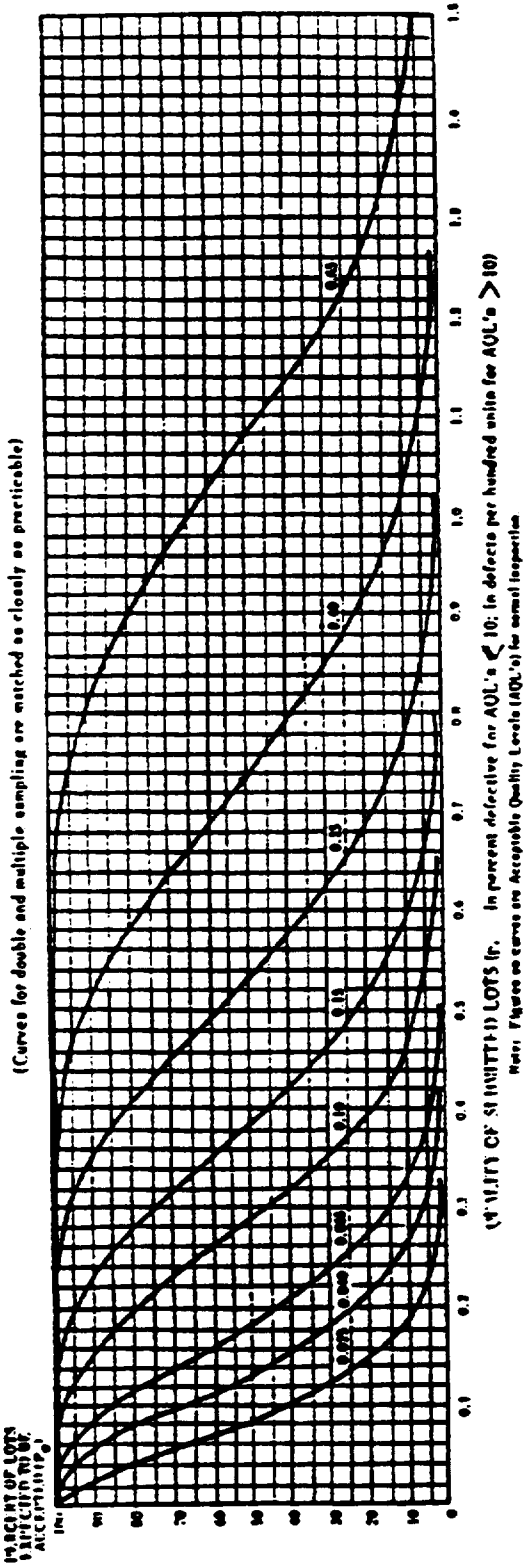


TABLE X-R-1 - TABULATED VALUES FOR OPERATING CHARACTERISTIC CURVES FOR SINGLE SAMPLING PLANS

P _o	Acceptable Quality Levels (normal inspection)										
	0.025	0.040	0.065	0.10	0.15	0.25	0.40	0.65			
	P (in percent defective or defects per hundred units)										
99.0	0.00743	0.0218	0.0412	0.0692	0.115	0.209	0.365	0.517	0.629		
95.0	0.0176	0.0409	0.0693	0.131	0.225	0.369	0.504	0.622	0.745		
90.0	0.0266	0.0551	0.0972	0.158	0.272	0.351	0.432	0.604	0.812		
75.0	0.0481	0.0964	0.127	0.211	0.298	0.431	0.521	0.612	0.934		
50.0	0.0839	0.134	0.188	0.284	0.393	0.533	0.633	0.733	1.09		
25.0	0.135	0.196	0.255	0.371	0.484	0.651	0.761	0.870	1.25		
10.0	0.194	0.266	0.334	0.464	0.589	0.770	0.869	1.01	1.41		
5.0	0.237	0.315	0.369	0.526	0.657	0.772	0.912	1.09	1.51		
1.0	0.332	0.420	0.502	0.655	0.800	1.02	1.16	1.27	1.72		
	0.040	0.065	0.10	0.15	0.25	0.40	0.65	1.09	1.53		
	Acceptable Quality Levels (tightened inspection)										

Note: All values given in above table based on Poisson distribution as an approximation to the Binomial

TABLE X-R-2 - SAMPLING PLANS FOR SAMPLE SIZE CODE LETTER: R

Type of sampling plan	Cumulative sample size	Acceptable Quality Levels (normal inspection)																		Higher than 0.65			
		0.010	0.015	0.025	0.040	0.065	0.10	0.15	0.25	0.40	0.65	Higher than 0.65											
		Ac	Re	Ac	Re	Ac	Re	Ac	Re	Ac	Re	Ac	Re	Ac	Re	Ac	Re	Ac	Re				
Single	2000	X																					
		0	1																		Δ		
Double	1250																						
		.																				Δ	
Multiple	500																						
																						Δ	
	1000																						
	1500																						
	2000																						
	2500																						
	3000																						
	3500																						
		0.010	0.015	0.025	0.040	0.065	0.10	0.15	0.25	0.40	0.65	Higher than 0.65	X	X	X	X	X	X	X	X	X	X	X

Δ Use next preceding sample size code letter for which acceptance and rejection numbers are available.
 Ac = Acceptance number.
 Re = Rejection number.
 . = Use single sampling plan shown.
 • = Acceptance not specified at this sample size.

R

TABLE X-S—Tables for sample size code letter: S

Type of sampling plan	Cumulative sample size	Acceptable Quality Level (normal inspection)	
		Ac	Re
Single	3150	1	2
Double	2000	0	2
	4000	1	2
Multiple	800	0	2
	1600	0	2
	2400	0	2
	3200	0	3
	4000	1	3
	4800	1	3
	5600	2	3
		0.025	
		Acceptable Quality Level (tightened inspection)	

Ac = Acceptance number
 Re = Rejection number
 0 = Acceptance not permitted at this sample size.

S

6. NOTES

6.1 Intended Use. Sampling procedures and tables for inspection by attributes are intended to be used in the acquisition of Defense material.

6.2 Subject Term (Key Word) Listing.

Acceptable Quality Level (AQL)

Average Outgoing Quality (AOQ)

Defect

Defective

Lot or Batch

Process Average

Sample

Sampling Plan

Unit of Product

6.3 Changes from Previous Issue. Vertical lines or asterisks are not used in this revision to identify changes with respect to the previous issue due to the extensiveness of the changes.

MIL-STD-105E

CONCLUDING MATERIAL

Custodians:

Army - AR
Navy - OS
Air Force - 23

Preparing Activity:

Army - AR

Review Activities:

Army - MI, EA, TE, AV, ER
Navy - AS, EC, MC, OM, SA,
SH, TD, YD
DLA - ES, GS, SS
OSD - IP, SO

(Project QCIC-0085)

User Activities:

Army - ME
DLA - ES, SS

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STANDARDIZATION DOCUMENT IMPROVEMENT PROPOSAL

(See Instructions - Reverse Side)

DOCUMENT NUMBER
MIL-STD-105E

2. DOCUMENT TITLE
SAMPLING PROCEDURES AND TABLES FOR INSPECTION BY ATTRIBUTES

NAME OF SUBMITTING ORGANIZATION

4. TYPE OF ORGANIZATION (Mark one)

VENDOR

USER

MANUFACTURER

OTHER (Specify): _____

ADDRESS (Street, City, State, ZIP Code)

PROBLEM AREAS

a. Paragraph Number and Wording:

b. Recommended Wording:

c. Reason/Rationale for Recommendation:

REMARKS

d. NAME OF SUBMITTER (Last, First, MI) - Optional

d. WORK TELEPHONE NUMBER (Include Area Code) - Optional

e. MAILING ADDRESS (Street, City, State, ZIP Code) - Optional

e. DATE OF SUBMISSION (YYMMDD)