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## **MILITARY STANDARD**

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



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SAMPLING PROCEDURES AND TABLES FOR INSPECTION BY ATTRIBUTES

MIL-STD-105D

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1. This standard has been approved by the Department of Defense and is mandatory for use by the Departments of the Army, the Navy, the Air Force and the Defense Supply Agency. This revision supersedes MIL-STD-105C, dated 18 July 1961.
2. This publication provides sampling procedures and reference tables for use in planning and conducting inspection by attributes. This publication was developed by a working group representing the military services of Canada, the United Kingdom and the United States of America with the assistance and cooperation of American and European organizations for quality control. The international designation of this document is AXC-STD-105. When revision or cancellation of this standard is proposed, the departmental custodians will inform their respective Departmental Standardization Office so that appropriate action may be taken respecting the international agreement concerned.
3. The U.S. Army Munitions Command is designated as preparing activity for this standard. Recommended corrections, additions, or deletions should be addressed to the Commanding Officer, U. S. Army CRR Engineering Office, Attn: SMUCE-ED-S, Army Chemical Center, Maryland.

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# SAMPLING PROCEDURES AND TABLES FOR INSPECTION BY ATTRIBUTES

## 1. SCOPE

**1.1 PURPOSE.** This publication establishes sampling plans and procedures for inspection by attributes. When specified by the responsible authority, this publication shall be referenced in the specification, contract, inspection instructions, or other documents and the provisions set forth herein shall govern. The "responsible authority" shall be designated in one of the above documents.

**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.
- 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 11.6).

**1.3 INSPECTION.** Inspection is the process of measuring, examining, testing, or otherwise comparing the unit of product (see 1.5) with the requirements.

**1.4 INSPECTION BY ATTRIBUTES.** Inspection by attributes is inspection whereby either the unit of product is classified simply as defective or nondefective, or the number of defects in the unit of product is counted, with respect to a given requirement or set of requirements.

**1.5 UNIT OF PRODUCT.** The unit of product is the thing inspected in order to determine its classification as defective or nondefective 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.

## 2. CLASSIFICATION OF DEFECTS AND DEFECTIVES

### 2.1 METHOD OF CLASSIFYING DEFECTS.

A classification of defects is the enumeration of possible defects of the unit of product classified according to their seriousness. A defect is any nonconformance of the unit of product with specified requirements. Defects will normally be grouped into one or more of the following classes; however, defects may be grouped into other classes, or into subclasses within these classes.

**2.1.1 CRITICAL DEFECT.** A critical defect is a defect that judgment and experience indicate is likely to result in hazardous or unsafe conditions for individuals using, maintaining, or depending upon the product; or a defect that judgment 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. NOTE: For a special provision relating to critical defects, see 6.3.

**2.1.2 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.

**2.1.3 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.

**2.2 METHOD OF CLASSIFYING DEFECTIVES.** A defective is a unit of product which contains one or more defects. Defectives will usually be classified as follows:

**2.2.1 CRITICAL DEFECTIVE.** A critical defective contains one or more critical defects and may also contain major and or minor defects. NOTE: For a special provision relating to critical defectives, see 6.3.

**2.2.2 MAJOR DEFECTIVE.** A major defective contains one or more major defects, and may also contain minor defects but contains no critical defect.

**2.2.3 MINOR DEFECTIVE.** A minor defective contains one or more minor defects but contains no critical or major defect.

## 3. PERCENT DEFECTIVE AND DEFECTS PER HUNDRED UNITS

**3.1 EXPRESSION OF NONCONFORMANCE.** The extent of nonconformance of product shall be expressed either in terms of percent defective or in terms of defects per hundred units.

**3.2 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.:

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

**3.3 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.:

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

## 4. ACCEPTABLE QUALITY LEVEL (AQL)

**4.1 USE.** The AQL, together with the Sample Size Code Letter, is used for indexing the sampling plans provided herein.

**4.2 DEFINITION.** The AQL is the maximum percent defective (or the maximum number of defects per hundred units) that, for purposes of sampling inspection, can be considered satisfactory as a process average (see 11.2).

**4.3 NOTE ON THE MEANING OF AQL.** When a consumer designates some specific value of AQL for a certain defect or group of defects, he indicates to the supplier that his (the consumer's) acceptance sampling plan will accept the great majority of the lots or batches that the supplier submits, 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) that the consumer indicates will be accepted most of the time by the acceptance sampling procedure to be 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

describe the protection to the consumer for 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 what protection the consumer will have.

**4.4 LIMITATION.** The designation of an AQL shall not imply that the supplier has the right to supply knowingly any defective unit of product.

**4.5 SPECIFYING AQLs.** The AQL to be used will be designated in the contract or by the responsible authority. Different AQLs may be designated for groups of defects considered collectively, or for individual defects. An AQL for a group of defects may be designated 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.

**4.6 PREFERRED AQLs.** The values of AQLs given in these tables are known as preferred AQLs. If, for any product, an AQL be designated other than a preferred AQL, these tables are not applicable.

## 5. SUBMISSION OF PRODUCT

**5.1 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 to determine conformance with the acceptability criteria, and may differ from a collection of units designated as a lot or batch

for other purposes (e.g., production, shipment, etc.).

**5.2 FORMATION OF LOTS OR BATCHES.** The product shall be assembled into identifiable lots, sublots, batches, or in such other manner as may be prescribed (see 5.4). Each lot or batch shall, as far as is practicable,

## 5. SUBMISSION OF PRODUCT (Continued)

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.

**5.3 LOT OR BATCH SIZE.** The lot or batch size is the number of units of product in a lot or batch.

**5.4 PRESENTATION OF LOTS OR BATCHES.** The formation of the lots or

batches, lot or batch size, and the manner in which each lot or batch is to be presented and identified by the supplier shall be designated or approved by the responsible authority. As necessary, the supplier shall provide adequate and suitable storage space for each lot or batch, equipment needed for proper identification and presentation, and personnel for all handling of product required for drawing of samples.

## 6. ACCEPTANCE AND REJECTION

**6.1 ACCEPTABILITY OF LOTS OR BATCHES.** Acceptability of a lot or batch will be determined by the use of a sampling plan or plans associated with the designated AQL or AQLs.

**6.2 DEFECTIVE UNITS.** The right is reserved to reject any unit of product found defective during inspection whether that unit of product forms part of a sample or not, and whether the lot or batch as a whole is accepted or rejected. Rejected units may be repaired or corrected and resubmitted for inspection with the approval of, and in the manner specified by, the responsible authority.

**6.3 SPECIAL RESERVATION FOR CRITICAL DEFECTS.** The supplier may be required at the discretion of the responsible authority to inspect every unit of the lot or batch for

critical defects. The right is reserved to inspect every unit submitted by the supplier for critical defects, and to reject the lot or batch immediately, when a critical defect is found. The right is reserved also to sample, for critical defects, every lot or batch submitted by the supplier and to reject any lot or batch if a sample drawn therefrom is found to contain one or more critical defects.

**6.4 RESUBMITTED LOTS OR BATCHES.** Lots or batches found unacceptable shall be resubmitted for reinspection only after all units are re-examined or retested and all defective units are removed or defects corrected. The responsible authority shall determine whether normal or tightened inspection shall be used, and whether reinspection shall include all types or classes of defects or for the particular types or classes of defects which caused initial rejection.

## 7. DRAWING OF SAMPLES

**7.1 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.

**7.2 REPRESENTATIVE SAMPLING.** When appropriate, the number of units in the sample shall be selected in proportion to the size of sublots or subbatches, or parts of the lot or batch, identified by some rational criterion.

## 7. DRAWING OF SAMPLES (Continued)

When representative sampling is used, the units from each part of the lot or batch shall be selected at random.

**7.3 TIME OF SAMPLING.** Samples may be drawn after all the units comprising the lot or batch have been assembled, or sam-

ples may be drawn during assembly of the lot or batch.

**7.4 DOUBLE OR MULTIPLE SAMPLING.** When double or multiple sampling is to be used, each sample shall be selected over the entire lot or batch.

## 8. NORMAL, TIGHTENED AND REDUCED INSPECTION

**8.1 INITIATION OF INSPECTION.** Normal inspection will be used at the start of inspection unless otherwise directed by the responsible authority.

**8.2 CONTINUATION 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 given below require a change. The switching procedures shall be applied to each class of defects or defectives independently.

### 8.3 SWITCHING PROCEDURES.

**8.3.1 NORMAL TO TIGHTENED.** When normal inspection is in effect, tightened inspection shall be instituted when 2 out of 5 consecutive lots or batches have been rejected on original inspection (i.e., ignoring resubmitted lots or batches for this procedure).

**8.3.2 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.

**8.3.3 NORMAL TO REDUCED.** When normal inspection is in effect, reduced inspection shall be instituted providing 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 none has been rejected 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 by the responsible authority.

**8.3.4 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 10.1.4; or
- c. Production becomes irregular or delayed; or
- d. Other conditions warrant that normal inspection shall be instituted.

**8.4 DISCONTINUATION OF INSPECTION.** In the event that 10 consecutive lots or batches remain on tightened inspection (or such other number as may be designated by the responsible authority), inspection under the provisions of this document should be discontinued pending action to improve the quality of submitted material.

## 9. SAMPLING PLANS

**9.1 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).

**9.2 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 prescribed by the responsible authority. Three inspection levels: I, II, and III, are given in Table I for general use. Unless otherwise specified, Inspection Level II will be used. However, Inspection Level I may be specified when less discrimination is needed, or Level III may be specified 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 designation of inspection levels S-1 to S-4, care must be exercised to avoid AQLs inconsistent with these inspection levels.

**9.3 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.

**9.4 OBTAINING SAMPLING PLAN.** The AQL and the code letter shall be used to ob-

tain 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 when designated or approved by the responsible authority. 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 when designated or approved by the responsible authority.

**9.5 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. Usually the administrative difficulty for single sampling and the cost per unit of the sample are less than for double or multiple.



## 10. DETERMINATION OF ACCEPTABILITY

### 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 10.1.1, 10.1.2, 10.1.3, 10.1.4, and 10.1.5.

**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.

**10.1.2 DOUBLE SAMPLING PLAN.** The number of sample units inspected shall be equal to the first sample size given by the plan. 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 size given by the plan 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.

**10.1.3 MULTIPLE SAMPLE PLAN.** Under multiple sampling, the procedure shall be similar to that specified in 10.1.2, except that the number of successive samples required to reach a decision may be more than two.

**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 8.3.4 (b)).

**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."

## 11. SUPPLEMENTARY INFORMATION

**11.1 OPERATING CHARACTERISTIC CURVES.** The operating characteristic curves for normal inspection, shown in Table X (pages 30-62), 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 defectives.

## 11. SUPPLEMENTARY INFORMATION (Continued)

tive inspection; those for AQLs of 10.0 or less and sample sizes larger than 80 are based on 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 of 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.

**11.2 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.

**11.3 AVERAGE OUTGOING QUALITY (AOQ).** 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 nondefectives.

**11.4 AVERAGE OUTGOING QUALITY LIMIT (AOQL).** The AOQL is the maximum of the AOQs for all possible incoming qualities for a given acceptance sampling plan. 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.

### 11.5 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 a given 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 single sample size.

### 11.6 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.



TABLE 1—Sample size code letters

(See 9.2 and 9.3)

| Lot or batch size | Special inspection levels |     |     |     | General inspection levels |    |     |
|-------------------|---------------------------|-----|-----|-----|---------------------------|----|-----|
|                   | S-1                       | S-2 | S-3 | S-4 | I                         | II | III |
| 2 to 8            | A                         | A   | A   | A   | A                         | A  | B   |
| 9 to 15           | A                         | A   | A   | A   | A                         | B  | C   |
| 16 to 25          | A                         | A   | B   | B   | B                         | C  | D   |
| 26 to 50          | A                         | B   | B   | C   | C                         | D  | E   |
| 51 to 90          | B                         | B   | C   | C   | C                         | E  | F   |
| 91 to 150         | B                         | B   | C   | D   | D                         | F  | G   |
| 151 to 280        | B                         | C   | D   | E   | E                         | G  | H   |
| 281 to 500        | B                         | C   | D   | E   | F                         | H  | J   |
| 501 to 1200       | C                         | C   | E   | F   | G                         | J  | K   |
| 1201 to 3200      | C                         | D   | E   | G   | H                         | K  | L   |
| 3201 to 10000     | C                         | D   | F   | G   | J                         | L  | M   |
| 10001 to 35000    | C                         | D   | F   | H   | K                         | M  | N   |
| 35001 to 150000   | D                         | E   | G   | J   | L                         | N  | P   |
| 150001 to 500000  | D                         | E   | G   | J   | M                         | P  | Q   |
| 500001 and over   | D                         | E   | H   | K   | N                         | Q  | R   |

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

(See 9.4 and 9.5)

| 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 |    |  |
| A                       | 2    | Ac  | Re    | Ac    | Re    | Ac    | Re  | Ac  | Re  | Ac  | Re  | Ac | Re | Ac | Re | Ac | Re  | Ac  | Re  | Ac  | Re  | Ac   | Re |  |
|                         | 3    | Ac  | Re    | Ac    | Re    | Ac    | Re  | Ac  | Re  | Ac  | Re  | Ac | Re | Ac | Re | Ac | Re  | Ac  | Re  | Ac  | Re  | Ac   | Re |  |
|                         | 5    | Ac  | Re    | Ac    | Re    | Ac    | Re  | Ac  | Re  | Ac  | Re  | Ac | Re | Ac | Re | Ac | Re  | Ac  | Re  | Ac  | Re  | Ac   | Re |  |
| D                       | 8    | Ac  | Re    | Ac    | Re    | Ac    | Re  | Ac  | Re  | Ac  | Re  | Ac | Re | Ac | Re | Ac | Re  | Ac  | Re  | Ac  | Re  | Ac   | Re |  |
|                         | 13   | Ac  | Re    | Ac    | Re    | Ac    | Re  | Ac  | Re  | Ac  | Re  | Ac | Re | Ac | Re | Ac | Re  | Ac  | Re  | Ac  | Re  | Ac   | Re |  |
|                         | 20   | Ac  | Re    | Ac    | Re    | Ac    | Re  | Ac  | Re  | Ac  | Re  | Ac | Re | Ac | Re | Ac | Re  | Ac  | Re  | Ac  | Re  | Ac   | Re |  |
| G                       | 32   | Ac  | Re    | Ac    | Re    | Ac    | Re  | Ac  | Re  | Ac  | Re  | Ac | Re | Ac | Re | Ac | Re  | Ac  | Re  | Ac  | Re  | Ac   | Re |  |
|                         | 50   | Ac  | Re    | Ac    | Re    | Ac    | Re  | Ac  | Re  | Ac  | Re  | Ac | Re | Ac | Re | Ac | Re  | Ac  | Re  | Ac  | Re  | Ac   | Re |  |
|                         | 80   | Ac  | Re    | Ac    | Re    | Ac    | Re  | Ac  | Re  | Ac  | Re  | Ac | Re | Ac | Re | Ac | Re  | Ac  | Re  | Ac  | Re  | Ac   | Re |  |
| K                       | 125  | Ac  | Re    | Ac    | Re    | Ac    | Re  | Ac  | Re  | Ac  | Re  | Ac | Re | Ac | Re | Ac | Re  | Ac  | Re  | Ac  | Re  | Ac   | Re |  |
|                         | 200  | Ac  | Re    | Ac    | Re    | Ac    | Re  | Ac  | Re  | Ac  | Re  | Ac | Re | Ac | Re | Ac | Re  | Ac  | Re  | Ac  | Re  | Ac   | Re |  |
|                         | 315  | Ac  | Re    | Ac    | Re    | Ac    | Re  | Ac  | Re  | Ac  | Re  | Ac | Re | Ac | Re | Ac | Re  | Ac  | Re  | Ac  | Re  | Ac   | Re |  |
| N                       | 500  | Ac  | Re    | Ac    | Re    | Ac    | Re  | Ac  | Re  | Ac  | Re  | Ac | Re | Ac | Re | Ac | Re  | Ac  | Re  | Ac  | Re  | Ac   | Re |  |
|                         | 800  | Ac  | Re    | Ac    | Re    | Ac    | Re  | Ac  | Re  | Ac  | Re  | Ac | Re | Ac | Re | Ac | Re  | Ac  | Re  | Ac  | Re  | Ac   | Re |  |
|                         | 1250 | Ac  | Re    | Ac    | Re    | Ac    | Re  | Ac  | Re  | Ac  | Re  | Ac | Re | Ac | Re | Ac | Re  | Ac  | Re  | Ac  | Re  | Ac   | Re |  |
| R                       | 2000 | Ac  | Re    | Ac    | Re    | Ac    | Re  | Ac  | Re  | Ac  | Re  | Ac | Re | Ac | Re | Ac | Re  | Ac  | Re  | Ac  | Re  | Ac   | Re |  |

- = 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.

SINGLE  
NORMAL

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

(See 9.4 and 9.5)

| Sample size<br>code letter |      | Acceptable Quality Levels (tightened 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  |  |
| A                          | 2    | 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 |  |
| B                          | 3    | 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 |  |
| C                          | 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 | Ac Re | Ac Re | Ac Re | Ac Re | Ac Re | Ac Re | Ac Re | Ac Re | Ac Re |  |
| D                          | 8    | 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 |  |
| E                          | 13   | 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 |  |
| F                          | 20   | 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 |  |
| G                          | 32   | 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 |  |
| H                          | 50   | 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 |  |
| J                          | 80   | 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 |  |
| K                          | 125  | 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 |  |
| L                          | 200  | 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 |  |
| M                          | 315  | 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 |  |
| N                          | 500  | 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 |  |
| P                          | 800  | 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 |  |
| Q                          | 1250 | 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 |  |
| R                          | 2000 | 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 |  |
| S                          | 3150 | 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 |  |

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 9.4 and 9.5)

| Sample size code letter | Sample size | Acceptable Quality Levels (reduced inspection) <sup>†</sup> |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|-------------------------|-------------|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|                         |             | 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  |
| A                       | 2           | 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 |
| B                       | 2           | 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 |
| C                       | 2           | 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 |
| D                       | 3           | 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 |
| E                       | 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 | Ac Re | Ac Re | Ac Re | Ac Re | Ac Re | Ac Re | Ac Re | Ac Re | Ac Re |
| F                       | 8           | 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 |
| G                       | 13          | 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 |
| H                       | 20          | 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 |
| J                       | 32          | 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 |
| K                       | 50          | 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 |
| L                       | 80          | 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 |
| M                       | 125         | 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 |
| N                       | 200         | 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 |
| P                       | 315         | 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 |
| Q                       | 500         | 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 |
| R                       | 800         | 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 |

- 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.
- ↑ = If the acceptance number has been exceeded, but the rejection number has not been reached, accept the lot, but reinspect normal inspection (see 10.1.4).

SINGLE  
REDUCED

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

(See 9.4 and 9.5)

| 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 |    |  |  |  |
| Sample size code letter                       | Ac     | He    | Ac    | He    | Ac    | He  | Ac  | He  | Ac  | He  | Ac | He | Ac | He | Ac | He  | Ac  | He  | Ac  | He  | Ac   | He |  |  |  |
| A   | ↑      |       |       |       |       |     |     |     |     |     |    |    |    |    |    |     |     |     |     |     |      |    |  |  |  |
| B   | First  | 2     | 2     | ↑     |       |     |     |     |     |     |    |    |    |    |    |     |     |     |     |     |      |    |  |  |  |
|   | Second | 2     | 4     | ↑     |       |     |     |     |     |     |    |    |    |    |    |     |     |     |     |     |      |    |  |  |  |
| C   | First  | 3     | 3     | ↑     |       |     |     |     |     |     |    |    |    |    |    |     |     |     |     |     |      |    |  |  |  |
|   | Second | 3     | 6     | ↑     |       |     |     |     |     |     |    |    |    |    |    |     |     |     |     |     |      |    |  |  |  |
| D   | First  | 5     | 5     | ↑     |       |     |     |     |     |     |    |    |    |    |    |     |     |     |     |     |      |    |  |  |  |
|   | Second | 5     | 10    | ↑     |       |     |     |     |     |     |    |    |    |    |    |     |     |     |     |     |      |    |  |  |  |
| E   | First  | 8     | 8     | ↑     |       |     |     |     |     |     |    |    |    |    |    |     |     |     |     |     |      |    |  |  |  |
|   | Second | 8     | 16    | ↑     |       |     |     |     |     |     |    |    |    |    |    |     |     |     |     |     |      |    |  |  |  |
| F   | First  | 13    | 13    | ↑     |       |     |     |     |     |     |    |    |    |    |    |     |     |     |     |     |      |    |  |  |  |
|   | Second | 13    | 26    | ↑     |       |     |     |     |     |     |    |    |    |    |    |     |     |     |     |     |      |    |  |  |  |
| G   | First  | 20    | 20    | ↑     |       |     |     |     |     |     |    |    |    |    |    |     |     |     |     |     |      |    |  |  |  |
|   | Second | 20    | 40    | ↑     |       |     |     |     |     |     |    |    |    |    |    |     |     |     |     |     |      |    |  |  |  |
| H   | First  | 32    | 32    | ↑     |       |     |     |     |     |     |    |    |    |    |    |     |     |     |     |     |      |    |  |  |  |
|   | Second | 32    | 64    | ↑     |       |     |     |     |     |     |    |    |    |    |    |     |     |     |     |     |      |    |  |  |  |
| J   | First  | 50    | 50    | ↑     |       |     |     |     |     |     |    |    |    |    |    |     |     |     |     |     |      |    |  |  |  |
|   | Second | 50    | 100   | ↑     |       |     |     |     |     |     |    |    |    |    |    |     |     |     |     |     |      |    |  |  |  |
| K   | First  | 80    | 80    | ↑     |       |     |     |     |     |     |    |    |    |    |    |     |     |     |     |     |      |    |  |  |  |
|   | Second | 80    | 160   | ↑     |       |     |     |     |     |     |    |    |    |    |    |     |     |     |     |     |      |    |  |  |  |
| L   | First  | 125   | 125   | ↑     |       |     |     |     |     |     |    |    |    |    |    |     |     |     |     |     |      |    |  |  |  |
|   | Second | 125   | 250   | ↑     |       |     |     |     |     |     |    |    |    |    |    |     |     |     |     |     |      |    |  |  |  |
| M   | First  | 200   | 200   | ↑     |       |     |     |     |     |     |    |    |    |    |    |     |     |     |     |     |      |    |  |  |  |
|   | Second | 200   | 400   | ↑     |       |     |     |     |     |     |    |    |    |    |    |     |     |     |     |     |      |    |  |  |  |
| N   | First  | 315   | 315   | ↑     |       |     |     |     |     |     |    |    |    |    |    |     |     |     |     |     |      |    |  |  |  |
|   | Second | 315   | 630   | ↑     |       |     |     |     |     |     |    |    |    |    |    |     |     |     |     |     |      |    |  |  |  |
| P   | First  | 500   | 500   | ↑     |       |     |     |     |     |     |    |    |    |    |    |     |     |     |     |     |      |    |  |  |  |
|   | Second | 500   | 1000  | ↑     |       |     |     |     |     |     |    |    |    |    |    |     |     |     |     |     |      |    |  |  |  |
| Q   | First  | 800   | 800   | ↑     |       |     |     |     |     |     |    |    |    |    |    |     |     |     |     |     |      |    |  |  |  |
|   | Second | 800   | 1600  | ↑     |       |     |     |     |     |     |    |    |    |    |    |     |     |     |     |     |      |    |  |  |  |
| R   | First  | 1250  | 1250  | ↑     |       |     |     |     |     |     |    |    |    |    |    |     |     |     |     |     |      |    |  |  |  |
|   | Second | 1250  | 2500  | ↑     |       |     |     |     |     |     |    |    |    |    |    |     |     |     |     |     |      |    |  |  |  |

- ↓ 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  
 He Rejection number  
 . Use corresponding single sampling plan (or alternatively, use double sampling plan below, where available).

DOUBLE  
NORMAL

TABLE III-B—Double sampling plans for tightened inspection (Master table)

(See 9.4 and 9.5)

|  |  | Sample size | Sample size code letter | Acceptable Quality Levels (tightened inspection) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Sample size | Sample size code letter | Sample size | Sample size code letter | Sample size | Sample size code letter | Sample size | Sample size code letter | Sample size | Sample size code letter | Sample size | Sample size code letter | Sample size | Sample size code letter | Sample size | Sample size code letter | Sample size | Sample size code letter | Sample size | Sample size code letter | Sample size | Sample size code letter | Sample size | Sample size code letter | Sample size | Sample size code letter | Sample size | Sample size code letter | Sample size | Sample size code letter | Sample size | Sample size code letter | Sample size | Sample size code letter | Sample size | Sample size code letter | Sample size | Sample size code letter | Sample size | Sample size code letter | Sample size | Sample size code letter | Sample size | Sample size code letter | Sample size | Sample size code letter | Sample size | Sample size code letter | Sample size | Sample size code letter | Sample size | Sample size code letter | Sample size | Sample size code letter | Sample size | Sample size code letter | Sample size | Sample size code letter | Sample size | Sample size code letter | Sample size | Sample size code letter | Sample size | Sample size code letter | Sample size | Sample size code letter | Sample size | Sample size code letter | Sample size | Sample size code letter | Sample size | Sample size code letter | Sample size | Sample size code letter | Sample size | Sample size code letter | Sample size | Sample size code letter | Sample size | Sample size code letter | Sample size | Sample size code letter | Sample size | Sample size code letter | Sample size | Sample size code letter | Sample size | Sample size code letter | Sample size | Sample size code letter | Sample size | Sample size code letter | Sample size | Sample size code letter | Sample size | Sample size code letter | Sample size | Sample size code letter | Sample size | Sample size code letter | Sample size | Sample size code letter | Sample size | Sample size code letter | Sample size | Sample size code letter | Sample size | Sample size code letter | Sample size | Sample size code letter | Sample size | Sample size code letter | Sample size | Sample size code letter | Sample size | Sample size code letter | Sample size | Sample size code letter | Sample size | Sample size code letter | Sample size | Sample size code letter | Sample size | Sample size code letter | Sample size | Sample size code letter | Sample size | Sample size code letter | Sample size | Sample size code letter | Sample size | Sample size code letter | Sample size | Sample size code letter | Sample size | Sample size code letter | Sample size | Sample size code letter | Sample size | Sample size code letter | Sample size | Sample size code letter | Sample size | Sample size code letter | Sample size | Sample size code letter | Sample size | Sample size code letter | Sample size | Sample size code letter | Sample size | Sample size code letter | Sample size | Sample size code letter | Sample size | Sample size code letter | Sample size | Sample size code letter | Sample size | Sample size code letter | Sample size | Sample size code letter | Sample size | Sample size code letter | Sample size | Sample size code letter | Sample size | Sample size code letter | Sample size | Sample size code letter | Sample size | Sample size code letter | Sample size | Sample size code letter | Sample size | Sample size code letter | Sample size | Sample size code letter | Sample size | Sample size code letter | Sample size | Sample size code letter | Sample size | Sample size code letter | Sample size | Sample size code letter | Sample size | Sample size code letter | Sample size | Sample size code letter | Sample size | Sample size code letter | Sample size | Sample size code letter | Sample size | Sample size code letter | Sample size | Sample size code letter | Sample size | Sample size code letter | Sample size | Sample size code letter | Sample size | Sample size code letter | Sample size | Sample size code letter | Sample size | Sample size code letter | Sample size | Sample size code letter | Sample size | Sample size code letter | Sample size | Sample size code letter | Sample size | Sample size code letter | Sample size | Sample size code letter | Sample size | Sample size code letter | Sample size | Sample size code letter | Sample size | Sample size code letter | Sample size | Sample size code letter | Sample size | Sample size code letter | Sample size | Sample size code letter | Sample size | Sample size code letter | Sample size | Sample size code letter | Sample size | Sample size code letter | Sample size | Sample size code letter | Sample size | Sample size code letter | Sample size | Sample size code letter | Sample size | Sample size code letter | Sample size | Sample size code letter | Sample size | Sample size code letter | Sample size | Sample size code letter | Sample size | Sample size code letter | Sample size | Sample size code letter | Sample size | Sample size code letter | Sample size | Sample size code letter | Sample size | Sample size code letter | Sample size | Sample size code letter | Sample size | Sample size code letter | Sample size | Sample size code letter | Sample size | Sample size code letter | Sample size | Sample size code letter | Sample size | Sample size code letter | Sample size | Sample size code letter | Sample size | Sample size code letter | Sample size | Sample size code letter | Sample size | Sample size code letter | Sample size | Sample size code letter | Sample size | Sample size code letter | Sample size | Sample size code letter | Sample size | Sample size code letter | Sample size | Sample size code letter | Sample size | Sample size code letter | Sample size | Sample size code letter | Sample size | Sample size code letter | Sample size | Sample size code letter | Sample size | Sample size code letter | Sample size | Sample size code letter | Sample size | Sample size code letter | Sample size | Sample size code letter | Sample size | Sample size code letter | Sample size | Sample size code letter | Sample size | Sample size code letter | Sample size | Sample size code letter | Sample size | Sample size code letter | Sample size | Sample size code letter | Sample size | Sample size code letter | Sample size | Sample size code letter | Sample size | Sample size code letter | Sample size | Sample size code letter | Sample size | Sample size code letter | Sample size | Sample size code letter | Sample size | Sample size code letter | Sample size | Sample size code letter | Sample size | Sample size code letter | Sample size | Sample size code letter | Sample size | Sample size code letter | Sample size | Sample size code letter | Sample size | Sample size code letter | Sample size | Sample size code letter | Sample size | Sample size code letter | Sample size | Sample size code letter | Sample size | Sample size code letter | Sample size | Sample size code letter | Sample size | Sample size code letter | Sample size | Sample size code letter | Sample size | Sample size code letter | Sample size | Sample size code letter | Sample size | Sample size code letter | Sample size | Sample size code letter | Sample size | Sample size code letter | Sample size | Sample size code letter | Sample size | Sample size code letter | Sample size | Sample size code letter | Sample size | Sample size code letter | Sample size | Sample size code letter | Sample size | Sample size code letter | Sample size | Sample size code letter | Sample size | Sample size code letter | Sample size | Sample size code letter | Sample size | Sample size code letter | Sample size | Sample size code letter | Sample size | Sample size code letter | Sample size | Sample size code letter | Sample size | Sample size code letter | Sample size | Sample size code letter | Sample size | Sample size code letter | Sample size | Sample size code letter | Sample size | Sample size code letter | Sample size | Sample size code letter | Sample size | Sample size code letter | Sample size | Sample size code letter | Sample size | Sample size code letter | Sample size | Sample size code letter | Sample size | Sample size code letter | Sample size | Sample size code letter | Sample size | Sample size code letter | Sample size | Sample size code letter | Sample size | Sample size code letter | Sample size | Sample size code letter | Sample size | Sample size code letter | Sample size | Sample size code letter | Sample size | Sample size code letter | Sample size |  |
|--|--|-------------|-------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------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|--|--|-------------|-------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------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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  
 \* = Use corresponding single sampling plan (or, alternatively, use double sampling plan below, where available).

DOUBLE  
TIGHTENED

TABLE III-C—Double sampling plans for reduced inspection (Master table)

(See 9.4 and 9.5)

| Sample size code letter | Sample size | Cumulative sample size | Acceptable Quality Levels (reduced inspection) <sup>†</sup> |       |       |       |       |     |     |     |     |     |    |    |    |    |    |     |     |     |     |     |      |    |    |    |   |  | 1000 |
|-------------------------|-------------|------------------------|---|-------|-------|-------|-------|-----|-----|-----|-----|-----|----|----|----|----|----|-----|-----|-----|-----|-----|------|----|----|----|---|--|------|
|                         |             |                        | 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 | Ac | Re |   |  |      |
| A                       |             |                        | ↑   |       | ↑     |       | ↑     |     | ↑   |     | ↑   |     | ↑  |    | ↑  |    | ↑  |     | ↑   |     | ↑   |     | ↑    |    | ↑  |    | ↑ |  |      |
| B                       |             |                        | ↑   |       | ↑     |       | ↑     |     | ↑   |     | ↑   |     | ↑  |    | ↑  |    | ↑  |     | ↑   |     | ↑   |     | ↑    |    | ↑  |    | ↑ |  |      |
| C                       |             |                        | ↑   |       | ↑     |       | ↑     |     | ↑   |     | ↑   |     | ↑  |    | ↑  |    | ↑  |     | ↑   |     | ↑   |     | ↑    |    | ↑  |    | ↑ |  |      |
| D                       | 2           | 2                      | ↑   |       | ↑     |       | ↑     |     | ↑   |     | ↑   |     | ↑  |    | ↑  |    | ↑  |     | ↑   |     | ↑   |     | ↑    |    | ↑  |    | ↑ |  |      |
| E                       | 3           | 3                      | ↑   |       | ↑     |       | ↑     |     | ↑   |     | ↑   |     | ↑  |    | ↑  |    | ↑  |     | ↑   |     | ↑   |     | ↑    |    | ↑  |    | ↑ |  |      |
| F                       | 3           | 6                      | ↑   |       | ↑     |       | ↑     |     | ↑   |     | ↑   |     | ↑  |    | ↑  |    | ↑  |     | ↑   |     | ↑   |     | ↑    |    | ↑  |    | ↑ |  |      |
| G                       | 5           | 5                      | ↑   |       | ↑     |       | ↑     |     | ↑   |     | ↑   |     | ↑  |    | ↑  |    | ↑  |     | ↑   |     | ↑   |     | ↑    |    | ↑  |    | ↑ |  |      |
| H                       | 5           | 10                     | ↑   |       | ↑     |       | ↑     |     | ↑   |     | ↑   |     | ↑  |    | ↑  |    | ↑  |     | ↑   |     | ↑   |     | ↑    |    | ↑  |    | ↑ |  |      |
| I                       | 8           | 8                      | ↑   |       | ↑     |       | ↑     |     | ↑   |     | ↑   |     | ↑  |    | ↑  |    | ↑  |     | ↑   |     | ↑   |     | ↑    |    | ↑  |    | ↑ |  |      |
| J                       | 13          | 13                     | ↑   |       | ↑     |       | ↑     |     | ↑   |     | ↑   |     | ↑  |    | ↑  |    | ↑  |     | ↑   |     | ↑   |     | ↑    |    | ↑  |    | ↑ |  |      |
| K                       | 20          | 20                     | ↑   |       | ↑     |       | ↑     |     | ↑   |     | ↑   |     | ↑  |    | ↑  |    | ↑  |     | ↑   |     | ↑   |     | ↑    |    | ↑  |    | ↑ |  |      |
| L                       | 32          | 32                     | ↑   |       | ↑     |       | ↑     |     | ↑   |     | ↑   |     | ↑  |    | ↑  |    | ↑  |     | ↑   |     | ↑   |     | ↑    |    | ↑  |    | ↑ |  |      |
| M                       | 50          | 50                     | ↑   |       | ↑     |       | ↑     |     | ↑   |     | ↑   |     | ↑  |    | ↑  |    | ↑  |     | ↑   |     | ↑   |     | ↑    |    | ↑  |    | ↑ |  |      |
| N                       | 80          | 80                     | ↑   |       | ↑     |       | ↑     |     | ↑   |     | ↑   |     | ↑  |    | ↑  |    | ↑  |     | ↑   |     | ↑   |     | ↑    |    | ↑  |    | ↑ |  |      |
| O                       | 125         | 125                    | ↑   |       | ↑     |       | ↑     |     | ↑   |     | ↑   |     | ↑  |    | ↑  |    | ↑  |     | ↑   |     | ↑   |     | ↑    |    | ↑  |    | ↑ |  |      |
| P                       | 200         | 200                    | ↑   |       | ↑     |       | ↑     |     | ↑   |     | ↑   |     | ↑  |    | ↑  |    | ↑  |     | ↑   |     | ↑   |     | ↑    |    | ↑  |    | ↑ |  |      |
| Q                       | 315         | 315                    | ↑   |       | ↑     |       | ↑     |     | ↑   |     | ↑   |     | ↑  |    | ↑  |    | ↑  |     | ↑   |     | ↑   |     | ↑    |    | ↑  |    | ↑ |  |      |
| R                       | 500         | 500                    | ↑   |       | ↑     |       | ↑     |     | ↑   |     | ↑   |     | ↑  |    | ↑  |    | ↑  |     | ↑   |     | ↑   |     | ↑    |    | ↑  |    | ↑ |  |      |
| S                       | 1000        | 1000                   | ↑   |       | ↑     |       | ↑     |     | ↑   |     | ↑   |     | ↑  |    | ↑  |    | ↑  |     | ↑   |     | ↑   |     | ↑    |    | ↑  |    | ↑ |  |      |

↑ 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.

↑ Acceptance number.

↑ Rejection number.

↑ Use corresponding plan for alternative, use double sampling plan below, when available.

↑ If, after the first inspection, the acceptance number has been exceeded, but the rejection number has not been reached, accept the lot, but reinspect normal inspection (see 10.1.4).

(See 9.4 and 9.5)

[illegible]

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

Use corresponding single sampling plan (see alternatively, see multiple sampling plan below, where available).  
Use corresponding double sampling plan (see alternatively, see multiple sampling plan below, where available).



**TABLE IV-A—Multiple sampling plans for normal inspection (Master table)**  
(Continued)

(See 9.4 and 9.5)

|                         |             |                                  | Acceptable Quality Levels (normal inspection) |       |       |       |       |      |      |      |      |      |     |     |     |     |     |    |    |    |    |    |     |     |     |     |     |      |
|-------------------------|-------------|----------------------------------|---|-------|-------|-------|-------|------|------|------|------|------|-----|-----|-----|-----|-----|----|----|----|----|----|-----|-----|-----|-----|-----|------|
| Sample size code letter | Sample size | Com-<br>bative<br>sample<br>size | 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                       | First       | 32                               | Ac  | Ac    | Ac    | Ac    | Ac    | Ac   | Ac   | Ac   | Ac   | Ac   | Ac  | Ac  | Ac  | Ac  | Ac  | Ac | Ac | Ac | Ac | Ac | Ac  | Ac  | Ac  | Ac  | Ac  | Ac   |
|                         | Second      | 32                               | Ac  | Ac    | Ac    | Ac    | Ac    | Ac   | Ac   | Ac   | Ac   | Ac   | Ac  | Ac  | Ac  | Ac  | Ac  | Ac | Ac | Ac | Ac | Ac | Ac  | Ac  | Ac  | Ac  | Ac  | Ac   |
|                         | Third       | 32                               | Ac  | Ac    | Ac    | Ac    | Ac    | Ac   | Ac   | Ac   | Ac   | Ac   | Ac  | Ac  | Ac  | Ac  | Ac  | Ac | Ac | Ac | Ac | Ac | Ac  | Ac  | Ac  | Ac  | Ac  | Ac   |
|                         | Fourth      | 32                               | Ac  | Ac    | Ac    | Ac    | Ac    | Ac   | Ac   | Ac   | Ac   | Ac   | Ac  | Ac  | Ac  | Ac  | Ac  | Ac | Ac | Ac | Ac | Ac | Ac  | Ac  | Ac  | Ac  | Ac  | Ac   |
|                         | Fifth       | 32                               | Ac  | Ac    | Ac    | Ac    | Ac    | Ac   | Ac   | Ac   | Ac   | Ac   | Ac  | Ac  | Ac  | Ac  | Ac  | Ac | Ac | Ac | Ac | Ac | Ac  | Ac  | Ac  | Ac  | Ac  | Ac   |
|                         | Sixth       | 32                               | Ac  | Ac    | Ac    | Ac    | Ac    | Ac   | Ac   | Ac   | Ac   | Ac   | Ac  | Ac  | Ac  | Ac  | Ac  | Ac | Ac | Ac | Ac | Ac | Ac  | Ac  | Ac  | Ac  | Ac  | Ac   |
|                         | Seventh     | 32                               | Ac  | Ac    | Ac    | Ac    | Ac    | Ac   | Ac   | Ac   | Ac   | Ac   | Ac  | Ac  | Ac  | Ac  | Ac  | Ac | Ac | Ac | Ac | Ac | Ac  | Ac  | Ac  | Ac  | Ac  | Ac   |
| I                       | First       | 50                               | Ac  | Ac    | Ac    | Ac    | Ac    | Ac   | Ac   | Ac   | Ac   | Ac   | Ac  | Ac  | Ac  | Ac  | Ac  | Ac | Ac | Ac | Ac | Ac | Ac  | Ac  | Ac  | Ac  | Ac  | Ac   |
|                         | Second      | 50                               | Ac  | Ac    | Ac    | Ac    | Ac    | Ac   | Ac   | Ac   | Ac   | Ac   | Ac  | Ac  | Ac  | Ac  | Ac  | Ac | Ac | Ac | Ac | Ac | Ac  | Ac  | Ac  | Ac  | Ac  | Ac   |
|                         | Third       | 50                               | Ac  | Ac    | Ac    | Ac    | Ac    | Ac   | Ac   | Ac   | Ac   | Ac   | Ac  | Ac  | Ac  | Ac  | Ac  | Ac | Ac | Ac | Ac | Ac | Ac  | Ac  | Ac  | Ac  | Ac  | Ac   |
|                         | Fourth      | 50                               | Ac  | Ac    | Ac    | Ac    | Ac    | Ac   | Ac   | Ac   | Ac   | Ac   | Ac  | Ac  | Ac  | Ac  | Ac  | Ac | Ac | Ac | Ac | Ac | Ac  | Ac  | Ac  | Ac  | Ac  | Ac   |
|                         | Fifth       | 50                               | Ac  | Ac    | Ac    | Ac    | Ac    | Ac   | Ac   | Ac   | Ac   | Ac   | Ac  | Ac  | Ac  | Ac  | Ac  | Ac | Ac | Ac | Ac | Ac | Ac  | Ac  | Ac  | Ac  | Ac  | Ac   |
|                         | Sixth       | 50                               | Ac  | Ac    | Ac    | Ac    | Ac    | Ac   | Ac   | Ac   | Ac   | Ac   | Ac  | Ac  | Ac  | Ac  | Ac  | Ac | Ac | Ac | Ac | Ac | Ac  | Ac  | Ac  | Ac  | Ac  | Ac   |
|                         | Seventh     | 50                               | Ac  | Ac    | Ac    | Ac    | Ac    | Ac   | Ac   | Ac   | Ac   | Ac   | Ac  | Ac  | Ac  | Ac  | Ac  | Ac | Ac | Ac | Ac | Ac | Ac  | Ac  | Ac  | Ac  | Ac  | Ac   |
| M                       | First       | 80                               | Ac  | Ac    | Ac    | Ac    | Ac    | Ac   | Ac   | Ac   | Ac   | Ac   | Ac  | Ac  | Ac  | Ac  | Ac  | Ac | Ac | Ac | Ac | Ac | Ac  | Ac  | Ac  | Ac  | Ac  | Ac   |
|                         | Second      | 80                               | Ac  | Ac    | Ac    | Ac    | Ac    | Ac   | Ac   | Ac   | Ac   | Ac   | Ac  | Ac  | Ac  | Ac  | Ac  | Ac | Ac | Ac | Ac | Ac | Ac  | Ac  | Ac  | Ac  | Ac  | Ac   |
|                         | Third       | 80                               | Ac  | Ac    | Ac    | Ac    | Ac    | Ac   | Ac   | Ac   | Ac   | Ac   | Ac  | Ac  | Ac  | Ac  | Ac  | Ac | Ac | Ac | Ac | Ac | Ac  | Ac  | Ac  | Ac  | Ac  | Ac   |
|                         | Fourth      | 80                               | Ac  | Ac    | Ac    | Ac    | Ac    | Ac   | Ac   | Ac   | Ac   | Ac   | Ac  | Ac  | Ac  | Ac  | Ac  | Ac | Ac | Ac | Ac | Ac | Ac  | Ac  | Ac  | Ac  | Ac  | Ac   |
|                         | Fifth       | 80                               | Ac  | Ac    | Ac    | Ac    | Ac    | Ac   | Ac   | Ac   | Ac   | Ac   | Ac  | Ac  | Ac  | Ac  | Ac  | Ac | Ac | Ac | Ac | Ac | Ac  | Ac  | Ac  | Ac  | Ac  | Ac   |
|                         | Sixth       | 80                               | Ac  | Ac    | Ac    | Ac    | Ac    | Ac   | Ac   | Ac   | Ac   | Ac   | Ac  | Ac  | Ac  | Ac  | Ac  | Ac | Ac | Ac | Ac | Ac | Ac  | Ac  | Ac  | Ac  | Ac  | Ac   |
|                         | Seventh     | 80                               | Ac  | Ac    | Ac    | Ac    | Ac    | Ac   | Ac   | Ac   | Ac   | Ac   | Ac  | Ac  | Ac  | Ac  | Ac  | Ac | Ac | Ac | Ac | Ac | Ac  | Ac  | Ac  | Ac  | Ac  | Ac   |
| N                       | First       | 125                              | Ac  | Ac    | Ac    | Ac    | Ac    | Ac   | Ac   | Ac   | Ac   | Ac   | Ac  | Ac  | Ac  | Ac  | Ac  | Ac | Ac | Ac | Ac | Ac | Ac  | Ac  | Ac  | Ac  | Ac  | Ac   |
|                         | Second      | 125                              | Ac  | Ac    | Ac    | Ac    | Ac    | Ac   | Ac   | Ac   | Ac   | Ac   | Ac  | Ac  | Ac  | Ac  | Ac  | Ac | Ac | Ac | Ac | Ac | Ac  | Ac  | Ac  | Ac  | Ac  | Ac   |
|                         | Third       | 125                              | Ac  | Ac    | Ac    | Ac    | Ac    | Ac   | Ac   | Ac   | Ac   | Ac   | Ac  | Ac  | Ac  | Ac  | Ac  | Ac | Ac | Ac | Ac | Ac | Ac  | Ac  | Ac  | Ac  | Ac  | Ac   |
|                         | Fourth      | 125                              | Ac  | Ac    | Ac    | Ac    | Ac    | Ac   | Ac   | Ac   | Ac   | Ac   | Ac  | Ac  | Ac  | Ac  | Ac  | Ac | Ac | Ac | Ac | Ac | Ac  | Ac  | Ac  | Ac  | Ac  | Ac   |
|                         | Fifth       | 125                              | Ac  | Ac    | Ac    | Ac    | Ac    | Ac   | Ac   | Ac   | Ac   | Ac   | Ac  | Ac  | Ac  | Ac  | Ac  | Ac | Ac | Ac | Ac | Ac | Ac  | Ac  | Ac  | Ac  | Ac  | Ac   |
|                         | Sixth       | 125                              | Ac  | Ac    | Ac    | Ac    | Ac    | Ac   | Ac   | Ac   | Ac   | Ac   | Ac  | Ac  | Ac  | Ac  | Ac  | Ac | Ac | Ac | Ac | Ac | Ac  | Ac  | Ac  | Ac  | Ac  | Ac   |
|                         | Seventh     | 125                              | Ac  | Ac    | Ac    | Ac    | Ac    | Ac   | Ac   | Ac   | Ac   | Ac   | Ac  | Ac  | Ac  | Ac  | Ac  | Ac | Ac | Ac | Ac | Ac | Ac  | Ac  | Ac  | Ac  | Ac  | Ac   |
| P                       | First       | 200                              | Ac  | Ac    | Ac    | Ac    | Ac    | Ac   | Ac   | Ac   | Ac   | Ac   | Ac  | Ac  | Ac  | Ac  | Ac  | Ac | Ac | Ac | Ac | Ac | Ac  | Ac  | Ac  | Ac  | Ac  | Ac   |
|                         | Second      | 200                              | Ac  | Ac    | Ac    | Ac    | Ac    | Ac   | Ac   | Ac   | Ac   | Ac   | Ac  | Ac  | Ac  | Ac  | Ac  | Ac | Ac | Ac | Ac | Ac | Ac  | Ac  | Ac  | Ac  | Ac  | Ac   |
|                         | Third       | 200                              | Ac  | Ac    | Ac    | Ac    | Ac    | Ac   | Ac   | Ac   | Ac   | Ac   | Ac  | Ac  | Ac  | Ac  | Ac  | Ac | Ac | Ac | Ac | Ac | Ac  | Ac  | Ac  | Ac  | Ac  | Ac   |
|                         | Fourth      | 200                              | Ac  | Ac    | Ac    | Ac    | Ac    | Ac   | Ac   | Ac   | Ac   | Ac   | Ac  | Ac  | Ac  | Ac  | Ac  | Ac | Ac | Ac | Ac | Ac | Ac  | Ac  | Ac  | Ac  | Ac  | Ac   |
|                         | Fifth       | 200                              | Ac  | Ac    | Ac    | Ac    | Ac    | Ac   | Ac   | Ac   | Ac   | Ac   | Ac  | Ac  | Ac  | Ac  | Ac  | Ac | Ac | Ac | Ac | Ac | Ac  | Ac  | Ac  | Ac  | Ac  | Ac   |
|                         | Sixth       | 200                              | Ac  | Ac    | Ac    | Ac    | Ac    | Ac   | Ac   | Ac   | Ac   | Ac   | Ac  | Ac  | Ac  | Ac  | Ac  | Ac | Ac | Ac | Ac | Ac | Ac  | Ac  | Ac  | Ac  | Ac  | Ac   |
|                         | Seventh     | 200                              | Ac  | Ac    | Ac    | Ac    | Ac    | Ac   | Ac   | Ac   | Ac   | Ac   | Ac  | Ac  | Ac  | Ac  | Ac  | Ac | Ac | Ac | Ac | Ac | Ac  | Ac  | Ac  | Ac  | Ac  | Ac   |
| Q                       | First       | 315                              | Ac  | Ac    | Ac    | Ac    | Ac    | Ac   | Ac   | Ac   | Ac   | Ac   | Ac  | Ac  | Ac  | Ac  | Ac  | Ac | Ac | Ac | Ac | Ac | Ac  | Ac  | Ac  | Ac  | Ac  | Ac   |
|                         | Second      | 315                              | Ac  | Ac    | Ac    | Ac    | Ac    | Ac   | Ac   | Ac   | Ac   | Ac   | Ac  | Ac  | Ac  | Ac  | Ac  | Ac | Ac | Ac | Ac | Ac | Ac  | Ac  | Ac  | Ac  | Ac  | Ac   |
|                         | Third       | 315                              | Ac  | Ac    | Ac    | Ac    | Ac    | Ac   | Ac   | Ac   | Ac   | Ac   | Ac  | Ac  | Ac  | Ac  | Ac  | Ac | Ac | Ac | Ac | Ac | Ac  | Ac  | Ac  | Ac  | Ac  | Ac   |
|                         | Fourth      | 315                              | Ac  | Ac    | Ac    | Ac    | Ac    | Ac   | Ac   | Ac   | Ac   | Ac   | Ac  | Ac  | Ac  | Ac  | Ac  | Ac | Ac | Ac | Ac | Ac | Ac  | Ac  | Ac  | Ac  | Ac  | Ac   |
|                         | Fifth       | 315                              | Ac  | Ac    | Ac    | Ac    | Ac    | Ac   | Ac   | Ac   | Ac   | Ac   | Ac  | Ac  | Ac  | Ac  | Ac  | Ac | Ac | Ac | Ac | Ac | Ac  | Ac  | Ac  | Ac  | Ac  | Ac   |
|                         | Sixth       | 315                              | Ac  | Ac    | Ac    | Ac    | Ac    | Ac   | Ac   | Ac   | Ac   | Ac   | Ac  | Ac  | Ac  | Ac  | Ac  | Ac | Ac | Ac | Ac | Ac | Ac  | Ac  | Ac  | Ac  | Ac  | Ac   |
|                         | Seventh     | 315                              | Ac  | Ac    | Ac    | Ac    | Ac    | Ac   | Ac   | Ac   | Ac   | Ac   | Ac  | Ac  | Ac  | Ac  | Ac  | Ac | Ac | Ac | Ac | Ac | Ac  | Ac  | Ac  | Ac  | Ac  | Ac   |
| R                       | First       | 500                              | Ac  | Ac    | Ac    | Ac    | Ac    | Ac   | Ac   | Ac   | Ac   | Ac   | Ac  | Ac  | Ac  | Ac  | Ac  | Ac | Ac | Ac | Ac | Ac | Ac  | Ac  | Ac  | Ac  | Ac  | Ac   |
|                         | Second      | 500                              | Ac  | Ac    | Ac    | Ac    | Ac    | Ac   | Ac   | Ac   | Ac   | Ac   | Ac  | Ac  | Ac  | Ac  | Ac  | Ac | Ac | Ac | Ac | Ac | Ac  | Ac  | Ac  | Ac  | Ac  | Ac   |
|                         | Third       | 500                              | Ac  | Ac    | Ac    | Ac    | Ac    | Ac   | Ac   | Ac   | Ac   | Ac   | Ac  | Ac  | Ac  | Ac  | Ac  | Ac | Ac | Ac | Ac | Ac | Ac  | Ac  | Ac  | Ac  | Ac  | Ac   |
|                         | Fourth      | 500                              | Ac  | Ac    | Ac    | Ac    | Ac    | Ac   | Ac   | Ac   | Ac   | Ac   | Ac  | Ac  | Ac  | Ac  | Ac  | Ac | Ac | Ac | Ac | Ac | Ac  | Ac  | Ac  | Ac  | Ac  | Ac   |
|                         | Fifth       | 500                              | Ac  | Ac    | Ac    | Ac    | Ac    | Ac   | Ac   | Ac   | Ac   | Ac   | Ac  | Ac  | Ac  | Ac  | Ac  | Ac | Ac | Ac | Ac | Ac | Ac  | Ac  | Ac  | Ac  | Ac  | Ac   |
|                         | Sixth       | 500                              | Ac  | Ac    | Ac    | Ac    | Ac    | Ac   | Ac   | Ac   | Ac   | Ac   | Ac  | Ac  | Ac  | Ac  | Ac  | Ac | Ac | Ac | Ac | Ac | Ac  | Ac  | Ac  | Ac  | Ac  | Ac   |
|                         | Seventh     | 500                              | Ac  | Ac    | Ac    | Ac    | Ac    | Ac   | Ac   | Ac   | Ac   | Ac   | Ac  | Ac  | Ac  | Ac  | Ac  | Ac | Ac | Ac | Ac | Ac | Ac  | Ac  | Ac  | Ac  | Ac  | Ac   |

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 before to preceding page, when necessary.  
 Acceptance number.  
 Rejection number.  
 Use corresponding single sampling plan for alternativity, use multiple plan below, where available.  
 Acceptance not permitted at this sample size.

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**TABLE IV-B—Multiple sampling plans for tightened inspection (Master table)**  
(Continued)

(See 9.4 and 9.5)

Acceptable Quality Levels (tightened inspection)

| Sample size code letter | Sample size   | Cumulative sample size                              | 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                       | First<br>Second<br>Third<br>Fourth<br>Fifth<br>Sixth<br>Seventh | 32<br>64<br>96<br>128<br>160<br>192<br>224          | →     | →     | →     | →     | →     | →    | →    | →    | →    | →    | →   | →   | →   | →   | →   | →  | →  | →  | →  | →  | →   | →   | →   | →   | →   | →    |
| L                       | First<br>Second<br>Third<br>Fourth<br>Fifth<br>Sixth<br>Seventh | 50<br>100<br>150<br>200<br>250<br>300<br>350        | →     | →     | →     | →     | →     | →    | →    | →    | →    | →    | →   | →   | →   | →   | →   | →  | →  | →  | →  | →  | →   | →   | →   | →   | →   | →    |
| V                       | First<br>Second<br>Third<br>Fourth<br>Fifth<br>Sixth<br>Seventh | 80<br>160<br>240<br>320<br>400<br>480<br>560        | →     | →     | →     | →     | →     | →    | →    | →    | →    | →    | →   | →   | →   | →   | →   | →  | →  | →  | →  | →  | →   | →   | →   | →   | →   | →    |
| N                       | First<br>Second<br>Third<br>Fourth<br>Fifth<br>Sixth<br>Seventh | 125<br>250<br>375<br>500<br>625<br>750<br>875       | →     | →     | →     | →     | →     | →    | →    | →    | →    | →    | →   | →   | →   | →   | →   | →  | →  | →  | →  | →  | →   | →   | →   | →   | →   | →    |
| P                       | First<br>Second<br>Third<br>Fourth<br>Fifth<br>Sixth<br>Seventh | 200<br>400<br>600<br>800<br>1000<br>1200<br>1400    | →     | →     | →     | →     | →     | →    | →    | →    | →    | →    | →   | →   | →   | →   | →   | →  | →  | →  | →  | →  | →   | →   | →   | →   | →   | →    |
| U                       | First<br>Second<br>Third<br>Fourth<br>Fifth<br>Sixth<br>Seventh | 315<br>630<br>945<br>1260<br>1575<br>1890<br>2205   | →     | →     | →     | →     | →     | →    | →    | →    | →    | →    | →   | →   | →   | →   | →   | →  | →  | →  | →  | →  | →   | →   | →   | →   | →   | →    |
| R                       | First<br>Second<br>Third<br>Fourth<br>Fifth<br>Sixth<br>Seventh | 500<br>1000<br>1500<br>2000<br>2500<br>3000<br>3500 | →     | →     | →     | →     | →     | →    | →    | →    | →    | →    | →   | →   | →   | →   | →   | →  | →  | →  | →  | →  | →   | →   | →   | →   | →   | →    |
| S                       | First<br>Second<br>Third<br>Fourth<br>Fifth<br>Sixth<br>Seventh | 800<br>1600<br>2400<br>3200<br>4000<br>4800<br>5600 | →     | →     | →     | →     | →     | →    | →    | →    | →    | →    | →   | →   | →   | →   | →   | →  | →  | →  | →  | →  | →   | →   | →   | →   | →   | →    |

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 (refer to preceding page, when necessary).  
 Ac Acceptance number  
 Re Rejection number  
 \* Use corresponding single sampling plan (or alternatively, use multiple sampling plan below, where available).  
 \* Acceptance not permitted at this sample size.

**MULTIPLE  
TIGHTENED**



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

(See 9.4 and 9.5)

| Sample size code letter | Sample size | Com-<br>muni-<br>cative<br>sample<br>size | Acceptable Quality Levels (reduced inspection) <sup>†</sup> |       |       |       |       |     |     |     |     |     |    |    |    |    |    |     |     |     |     |     |      |  |  |  |
|-------------------------|-------------|---|---|-------|-------|-------|-------|-----|-----|-----|-----|-----|----|----|----|----|----|-----|-----|-----|-----|-----|------|--|--|--|
|                         |             |   | 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 |  |  |  |
| L                       | First       | 20  | Ac  | Re    | Ac    | Re    | Ac    | Re  | Ac  | Re  | Ac  | Re  | Ac | Re | Ac | Re | Ac | Re  | Ac  | Re  | Ac  | Re  | Ac   |  |  |  |
|                         | Second      | 20  | Ac  | Re    | Ac    | Re    | Ac    | Re  | Ac  | Re  | Ac  | Re  | Ac | Re | Ac | Re | Ac | Re  | Ac  | Re  | Ac  | Re  | Ac   |  |  |  |
|                         | Third       | 40  | Ac  | Re    | Ac    | Re    | Ac    | Re  | Ac  | Re  | Ac  | Re  | Ac | Re | Ac | Re | Ac | Re  | Ac  | Re  | Ac  | Re  | Ac   |  |  |  |
|                         | Fourth      | 60  | Ac  | Re    | Ac    | Re    | Ac    | Re  | Ac  | Re  | Ac  | Re  | Ac | Re | Ac | Re | Ac | Re  | Ac  | Re  | Ac  | Re  | Ac   |  |  |  |
|                         | Fifth       | 80  | Ac  | Re    | Ac    | Re    | Ac    | Re  | Ac  | Re  | Ac  | Re  | Ac | Re | Ac | Re | Ac | Re  | Ac  | Re  | Ac  | Re  | Ac   |  |  |  |
|                         | Sixth       | 100                                       | Ac  | Re    | Ac    | Re    | Ac    | Re  | Ac  | Re  | Ac  | Re  | Ac | Re | Ac | Re | Ac | Re  | Ac  | Re  | Ac  | Re  | Ac   |  |  |  |
|                         | Seventh     | 120                                       | Ac  | Re    | Ac    | Re    | Ac    | Re  | Ac  | Re  | Ac  | Re  | Ac | Re | Ac | Re | Ac | Re  | Ac  | Re  | Ac  | Re  | Ac   |  |  |  |
| M                       | First       | 32  | Ac  | Re    | Ac    | Re    | Ac    | Re  | Ac  | Re  | Ac  | Re  | Ac | Re | Ac | Re | Ac | Re  | Ac  | Re  | Ac  | Re  | Ac   |  |  |  |
|                         | Second      | 32  | Ac  | Re    | Ac    | Re    | Ac    | Re  | Ac  | Re  | Ac  | Re  | Ac | Re | Ac | Re | Ac | Re  | Ac  | Re  | Ac  | Re  | Ac   |  |  |  |
|                         | Third       | 64  | Ac  | Re    | Ac    | Re    | Ac    | Re  | Ac  | Re  | Ac  | Re  | Ac | Re | Ac | Re | Ac | Re  | Ac  | Re  | Ac  | Re  | Ac   |  |  |  |
|                         | Fourth      | 96  | Ac  | Re    | Ac    | Re    | Ac    | Re  | Ac  | Re  | Ac  | Re  | Ac | Re | Ac | Re | Ac | Re  | Ac  | Re  | Ac  | Re  | Ac   |  |  |  |
|                         | Fifth       | 128                                       | Ac  | Re    | Ac    | Re    | Ac    | Re  | Ac  | Re  | Ac  | Re  | Ac | Re | Ac | Re | Ac | Re  | Ac  | Re  | Ac  | Re  | Ac   |  |  |  |
|                         | Sixth       | 160                                       | Ac  | Re    | Ac    | Re    | Ac    | Re  | Ac  | Re  | Ac  | Re  | Ac | Re | Ac | Re | Ac | Re  | Ac  | Re  | Ac  | Re  | Ac   |  |  |  |
|                         | Seventh     | 192                                       | Ac  | Re    | Ac    | Re    | Ac    | Re  | Ac  | Re  | Ac  | Re  | Ac | Re | Ac | Re | Ac | Re  | Ac  | Re  | Ac  | Re  | Ac   |  |  |  |
| N                       | First       | 50  | Ac  | Re    | Ac    | Re    | Ac    | Re  | Ac  | Re  | Ac  | Re  | Ac | Re | Ac | Re | Ac | Re  | Ac  | Re  | Ac  | Re  | Ac   |  |  |  |
|                         | Second      | 50  | Ac  | Re    | Ac    | Re    | Ac    | Re  | Ac  | Re  | Ac  | Re  | Ac | Re | Ac | Re | Ac | Re  | Ac  | Re  | Ac  | Re  | Ac   |  |  |  |
|                         | Third       | 100                                       | Ac  | Re    | Ac    | Re    | Ac    | Re  | Ac  | Re  | Ac  | Re  | Ac | Re | Ac | Re | Ac | Re  | Ac  | Re  | Ac  | Re  | Ac   |  |  |  |
|                         | Fourth      | 150                                       | Ac  | Re    | Ac    | Re    | Ac    | Re  | Ac  | Re  | Ac  | Re  | Ac | Re | Ac | Re | Ac | Re  | Ac  | Re  | Ac  | Re  | Ac   |  |  |  |
|                         | Fifth       | 200                                       | Ac  | Re    | Ac    | Re    | Ac    | Re  | Ac  | Re  | Ac  | Re  | Ac | Re | Ac | Re | Ac | Re  | Ac  | Re  | Ac  | Re  | Ac   |  |  |  |
|                         | Sixth       | 250                                       | Ac  | Re    | Ac    | Re    | Ac    | Re  | Ac  | Re  | Ac  | Re  | Ac | Re | Ac | Re | Ac | Re  | Ac  | Re  | Ac  | Re  | Ac   |  |  |  |
|                         | Seventh     | 300                                       | Ac  | Re    | Ac    | Re    | Ac    | Re  | Ac  | Re  | Ac  | Re  | Ac | Re | Ac | Re | Ac | Re  | Ac  | Re  | Ac  | Re  | Ac   |  |  |  |
| P                       | First       | 80  | Ac  | Re    | Ac    | Re    | Ac    | Re  | Ac  | Re  | Ac  | Re  | Ac | Re | Ac | Re | Ac | Re  | Ac  | Re  | Ac  | Re  | Ac   |  |  |  |
|                         | Second      | 80  | Ac  | Re    | Ac    | Re    | Ac    | Re  | Ac  | Re  | Ac  | Re  | Ac | Re | Ac | Re | Ac | Re  | Ac  | Re  | Ac  | Re  | Ac   |  |  |  |
|                         | Third       | 160                                       | Ac  | Re    | Ac    | Re    | Ac    | Re  | Ac  | Re  | Ac  | Re  | Ac | Re | Ac | Re | Ac | Re  | Ac  | Re  | Ac  | Re  | Ac   |  |  |  |
|                         | Fourth      | 240                                       | Ac  | Re    | Ac    | Re    | Ac    | Re  | Ac  | Re  | Ac  | Re  | Ac | Re | Ac | Re | Ac | Re  | Ac  | Re  | Ac  | Re  | Ac   |  |  |  |
|                         | Fifth       | 320                                       | Ac  | Re    | Ac    | Re    | Ac    | Re  | Ac  | Re  | Ac  | Re  | Ac | Re | Ac | Re | Ac | Re  | Ac  | Re  | Ac  | Re  | Ac   |  |  |  |
|                         | Sixth       | 400                                       | Ac  | Re    | Ac    | Re    | Ac    | Re  | Ac  | Re  | Ac  | Re  | Ac | Re | Ac | Re | Ac | Re  | Ac  | Re  | Ac  | Re  | Ac   |  |  |  |
|                         | Seventh     | 480                                       | Ac  | Re    | Ac    | Re    | Ac    | Re  | Ac  | Re  | Ac  | Re  | Ac | Re | Ac | Re | Ac | Re  | Ac  | Re  | Ac  | Re  | Ac   |  |  |  |
| Q                       | First       | 125                                       | Ac  | Re    | Ac    | Re    | Ac    | Re  | Ac  | Re  | Ac  | Re  | Ac | Re | Ac | Re | Ac | Re  | Ac  | Re  | Ac  | Re  | Ac   |  |  |  |
|                         | Second      | 125                                       | Ac  | Re    | Ac    | Re    | Ac    | Re  | Ac  | Re  | Ac  | Re  | Ac | Re | Ac | Re | Ac | Re  | Ac  | Re  | Ac  | Re  | Ac   |  |  |  |
|                         | Third       | 250                                       | Ac  | Re    | Ac    | Re    | Ac    | Re  | Ac  | Re  | Ac  | Re  | Ac | Re | Ac | Re | Ac | Re  | Ac  | Re  | Ac  | Re  | Ac   |  |  |  |
|                         | Fourth      | 375                                       | Ac  | Re    | Ac    | Re    | Ac    | Re  | Ac  | Re  | Ac  | Re  | Ac | Re | Ac | Re | Ac | Re  | Ac  | Re  | Ac  | Re  | Ac   |  |  |  |
|                         | Fifth       | 500                                       | Ac  | Re    | Ac    | Re    | Ac    | Re  | Ac  | Re  | Ac  | Re  | Ac | Re | Ac | Re | Ac | Re  | Ac  | Re  | Ac  | Re  | Ac   |  |  |  |
|                         | Sixth       | 625                                       | Ac  | Re    | Ac    | Re    | Ac    | Re  | Ac  | Re  | Ac  | Re  | Ac | Re | Ac | Re | Ac | Re  | Ac  | Re  | Ac  | Re  | Ac   |  |  |  |
|                         | Seventh     | 750                                       | Ac  | Re    | Ac    | Re    | Ac    | Re  | Ac  | Re  | Ac  | Re  | Ac | Re | Ac | Re | Ac | Re  | Ac  | Re  | Ac  | Re  | Ac   |  |  |  |
| H                       | First       | 200                                       | Ac  | Re    | Ac    | Re    | Ac    | Re  | Ac  | Re  | Ac  | Re  | Ac | Re | Ac | Re | Ac | Re  | Ac  | Re  | Ac  | Re  | Ac   |  |  |  |
|                         | Second      | 200                                       | Ac  | Re    | Ac    | Re    | Ac    | Re  | Ac  | Re  | Ac  | Re  | Ac | Re | Ac | Re | Ac | Re  | Ac  | Re  | Ac  | Re  | Ac   |  |  |  |
|                         | Third       | 400                                       | Ac  | Re    | Ac    | Re    | Ac    | Re  | Ac  | Re  | Ac  | Re  | Ac | Re | Ac | Re | Ac | Re  | Ac  | Re  | Ac  | Re  | Ac   |  |  |  |
|                         | Fourth      | 600                                       | Ac  | Re    | Ac    | Re    | Ac    | Re  | Ac  | Re  | Ac  | Re  | Ac | Re | Ac | Re | Ac | Re  | Ac  | Re  | Ac  | Re  | Ac   |  |  |  |
|                         | Fifth       | 800                                       | Ac  | Re    | Ac    | Re    | Ac    | Re  | Ac  | Re  | Ac  | Re  | Ac | Re | Ac | Re | Ac | Re  | Ac  | Re  | Ac  | Re  | Ac   |  |  |  |
|                         | Sixth       | 1000                                      | Ac  | Re    | Ac    | Re    | Ac    | Re  | Ac  | Re  | Ac  | Re  | Ac | Re | Ac | Re | Ac | Re  | Ac  | Re  | Ac  | Re  | Ac   |  |  |  |
|                         | Seventh     | 1200                                      | Ac  | Re    | Ac    | Re    | Ac    | Re  | Ac  | Re  | Ac  | Re  | Ac | Re | Ac | Re | Ac | Re  | Ac  | Re  | Ac  | Re  | Ac   |  |  |  |

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 (refer to preceding page when necessary).

Ac Acceptance number

Re Rejection number

He He

† If, after the final sample, the acceptance number has been exceeded, but the rejection number has not been reached, arrange the lot, but reinspect normal inspection (see 10.1.4).

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

(See 11.4)

| Code Letter | Sample Size | Acceptable Quality Level |       |       |       |       |     |     |     |     |     |    |    |    |    |    | 1000 |
|-------------|-------------|--------------------------|-------|-------|-------|-------|-----|-----|-----|-----|-----|----|----|----|----|----|------|
|             |             | 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 |      |
| A           | 2           |                          |       |       |       |       |     |     |     |     | 18  |    |    |    |    |    | 400  |
| B           | 3           |                          |       |       |       |       |     |     |     | 12  |     |    | 28 | 46 | 65 | 97 | 250  |
| C           | 5           |                          |       |       |       |       |     |     | 7.4 |     |     | 17 | 27 | 39 | 63 | 90 | 430  |
| D           | 8           |                          |       |       |       |       |     |     |     |     |     |    |    |    |    |    | 410  |
| E           | 13          |                          |       |       |       |       |     |     |     |     |     |    |    |    |    |    | 470  |
| F           | 20          |                          |       |       |       |       |     |     |     |     |     |    |    |    |    |    | 490  |
| G           | 32          |                          |       |       |       |       |     |     |     |     |     |    |    |    |    |    | 270  |
| H           | 50          |                          |       |       |       |       |     |     |     |     |     |    |    |    |    |    | 250  |
| J           | 80          |                          |       |       |       |       |     |     |     |     |     |    |    |    |    |    |      |
| K           | 125         |                          |       |       |       |       |     |     |     |     |     |    |    |    |    |    |      |
| L           | 200         |                          |       |       |       |       |     |     |     |     |     |    |    |    |    |    |      |
| M           | 315         |                          |       |       |       |       |     |     |     |     |     |    |    |    |    |    |      |
| N           | 500         |                          |       |       |       |       |     |     |     |     |     |    |    |    |    |    |      |
| P           | 800         |                          |       |       |       |       |     |     |     |     |     |    |    |    |    |    |      |
| Q           | 1250        |                          |       |       |       |       |     |     |     |     |     |    |    |    |    |    |      |
| R           | 2000        |                          |       |       |       |       |     |     |     |     |     |    |    |    |    |    |      |

Notes: For the exact AOQL, the above values must be multiplied by  $(1 - \frac{\text{Sample size}}{\text{Lot or Batch size}})$  (see 11.4)

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

(See 11.4)

| Code letter | Sample size | Acceptable Quality Level |       |       |       |       |     |     |       |       |       |       |      |      |      |      | 1000 |
|-------------|-------------|--------------------------|-------|-------|-------|-------|-----|-----|-------|-------|-------|-------|------|------|------|------|------|
|             |             | 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   |      |
| A           | 2           |                          |       |       |       |       |     |     |       |       | 12    |       |      |      | 42   | 69   | 970  |
| B           | 3           |                          |       |       |       |       |     |     |       | 7.4   |       |       |      | 28   | 46   | 65   | 620  |
| C           | 5           |                          |       |       |       |       |     |     |       |       |       |       | 17   | 27   | 39   | 63   | 650  |
| D           | 8           |                          |       |       |       |       |     |     | 4.6   |       |       |       |      | 24   | 40   | 64   | 400  |
| E           | 13          |                          |       |       |       |       | 1.8 | 2.8 |       |       | 6.5   | 11    | 17   | 24   | 40   | 61   | 260  |
| F           | 20          |                          |       |       |       |       |     |     |       | 4.2   | 6.9   | 9.7   | 16   | 26   | 40   | 62   | 410  |
| G           | 32          |                          |       |       |       |       |     |     | 2.6   | 4.3   | 6.1   | 9.9   | 16   | 25   | 39   |      | 270  |
| H           | 50          |                          |       |       |       |       |     |     | 1.7   | 2.7   | 3.9   | 6.3   | 10   | 16   | 25   |      | 250  |
| J           | 80          |                          |       |       |       |       |     |     | 1.1   | 1.7   | 2.4   | 4.0   | 9.9  | 16   |      |      | 160  |
| K           | 125         |                          |       |       |       |       |     |     | 1.1   | 1.6   | 2.5   | 4.1   | 6.4  | 9.9  |      |      | 150  |
| L           | 200         |                          |       |       |       |       |     |     | 0.87  | 1.6   | 2.6   | 4.0   | 6.2  |      |      |      | 240  |
| M           | 315         |                          |       |       |       |       |     |     | 0.42  | 0.69  | 1.0   | 1.6   | 2.5  |      |      |      |      |
| N           | 500         |                          |       |       |       |       |     |     | 0.27  | 0.44  | 0.62  | 1.0   | 1.6  |      |      |      |      |
| P           | 800         |                          |       |       |       |       |     |     | 0.17  | 0.27  | 0.39  | 0.63  | 1.0  | 1.6  |      |      |      |
| Q           | 1250        |                          |       |       |       |       |     |     | 0.11  | 0.17  | 0.24  | 0.40  | 0.64 | 0.99 | 1.6  |      |      |
|             |             |                          |       |       |       |       |     |     | 0.067 | 0.11  | 0.16  | 0.25  | 0.41 | 0.64 | 0.99 |      |      |
|             |             |                          |       |       |       |       |     |     | 0.042 | 0.069 | 0.10  | 0.16  | 0.26 | 0.40 | 0.62 |      |      |
|             |             |                          |       |       |       |       |     |     | 0.029 | 0.046 | 0.074 | 0.12  | 0.18 | 0.29 | 0.46 | 0.74 |      |
|             |             |                          |       |       |       |       |     |     | 0.018 | 0.027 | 0.042 | 0.069 | 0.10 | 0.16 | 0.26 | 0.40 |      |

Notes: For the exact AOQL, the above values must be multiplied by  $(1 - \frac{\text{Sample size}}{\text{Lot or Batch size}})$  (see 11.4)

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

(See 11.6)

| 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 |
| 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        |                          |       |       |       |       |      |      |      |      |      |     |

**LQ (DEFECTIVES)**  
**10.0%**



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

(See 11.6)

| 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 | 1.00 | 1.50 | 2.50 | 4.00 | 6.50 | 10.00 | 15.00 |
| 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         |                          |       |       |       |       |      |      |      |      |      |      |      |      |      |      |       |       |
| U           | 1250        |                          |       |       |       |       |      |      |      |      |      |      |      |      |      |      |       |       |
| V           | 2000        |                          |       |       |       |       |      |      |      |      |      |      |      |      |      |      |       |       |

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

(See 11.6)

|   |      | 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    |                          |       |       |       |       |      |      |      |      |      | 21  | 31  | 45  | 63  | 78  | 66 |
| B | 3    |                          |       |       |       |       |      |      |      |      |      |     |     |     |     |     |    |
| C | 5    |                          |       |       |       |       |      |      |      |      |      |     |     |     |     |     |    |
| D | 8    |                          |       |       |       |       |      |      |      |      |      |     |     | 22  | 32  | 47  | 60 |
| E | 13   |                          |       |       |       |       |      |      |      |      |      |     |     |     |     |     |    |
| F | 20   |                          |       |       |       |       |      |      |      |      |      |     |     |     |     |     |    |
| G | 32   |                          |       |       |       |       |      |      |      |      |      |     |     | 18  | 23  | 30  | 37 |
| H | 50   |                          |       |       |       |       |      |      |      |      |      |     |     |     |     |     |    |
| J | 80   |                          |       |       |       |       |      |      |      |      |      |     |     |     |     |     |    |
| K | 125  |                          |       |       |       |       |      |      |      |      |      |     |     | 11  | 14  | 18  | 24 |
| L | 200  |                          |       |       |       |       |      |      |      |      |      |     |     |     |     |     |    |
| M | 315  |                          |       |       |       |       |      |      |      |      |      |     |     |     |     |     |    |
| N | 500  | 0.38                     | 0.60  |       | 0.95  | 1.5   | 2.4  |      |      |      |      |     |     | 6.1 |     |     |    |
| P | 800  |                          |       |       |       |       |      |      |      |      |      |     |     |     |     |     |    |
| Q | 1250 |                          |       |       |       |       |      |      |      |      |      |     |     |     |     |     |    |
| R | 2000 | 0.24                     | 0.24  | 0.32  | 0.39  | 0.53  | 0.66 | 0.85 | 1.1  | 1.5  |      |     |     |     |     |     |    |

**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 11.6)

| Code letter | Sample size | Acceptable Quality Level |       |       |       |       |     |     |     |     |     |    |    |    |    |    |     |     |     |     |     |      |
|-------------|-------------|--------------------------|-------|-------|-------|-------|-----|-----|-----|-----|-----|----|----|----|----|----|-----|-----|-----|-----|-----|------|
|             |             | 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 |
| 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

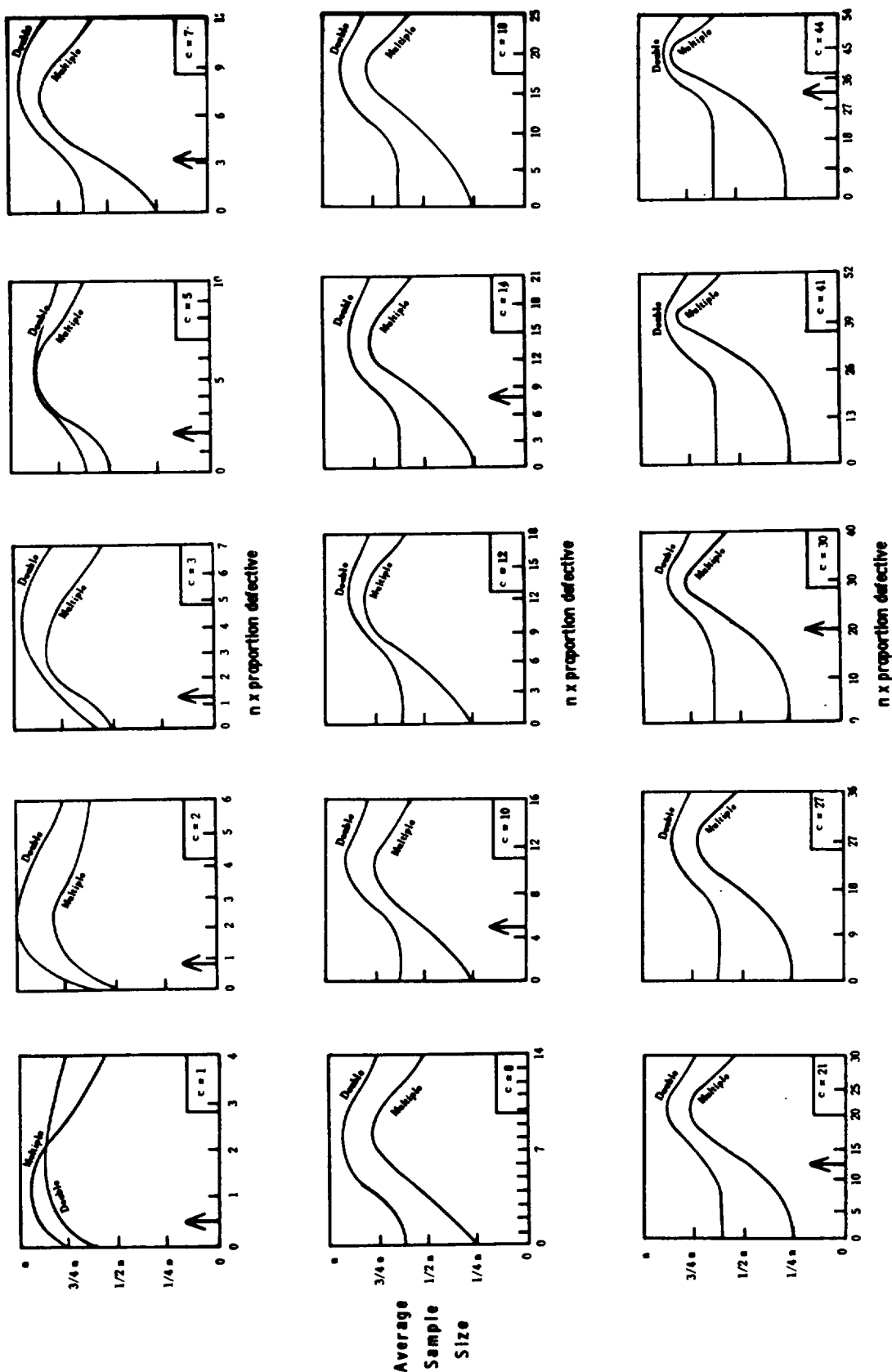
(See 8.3.3)

| Number of sample units from last 10 lots or batches | Acceptable Quality Level |       |       |       |       |      |      |      |     |     |     |     |      |      |      |      |
|---|--------------------------|-------|-------|-------|-------|------|------|------|-----|-----|-----|-----|------|------|------|------|
|   | 0.010                    | 0.015 | 0.025 | 0.040 | 0.065 | 0.10 | 0.15 | 0.25 | 40  | 65  | 100 | 150 | 250  | 400  | 650  | 1000 |
| 20 - 29   | •                        | •     | •     | •     | •     | •    | •    | •    | 4   | 8   | 14  | 22  | 40   | 68   | 115  | 181  |
| 30 - 49   | •                        | •     | •     | •     | •     | •    | •    | 3    | 7   | 13  | 22  | 36  | 63   | 105  | 178  | 277  |
| 50 - 79   | •                        | •     | •     | •     | •     | •    | •    | 7    | 14  | 25  | 40  | 63  | 110  | 181  | 301  |      |
| 80 - 129  | •                        | •     | •     | •     | •     | •    | •    | 0    | 24  | 42  | 68  | 105 | 181  | 297  |      |      |
| 130 - 199   | •                        | •     | •     | •     | •     | •    | •    | 0    | 25  | 42  | 72  | 115 | 177  | 301  | 490  |      |
| 200 - 319   | •                        | •     | •     | •     | •     | •    | •    | 2    | 68  | 115 | 181 | 277 | 471  |      |      |      |
| 320 - 499   | •                        | •     | •     | •     | •     | •    | •    | 4    | 113 | 189 |     |     |      |      |      |      |
| 500 - 799   | •                        | •     | •     | •     | •     | •    | •    | 7    | 181 |     |     |     |      |      |      |      |
| 800 - 1249  | •                        | •     | •     | •     | •     | •    | •    | 14   |     |     |     |     |      |      |      |      |
| 1250 - 1999   | •                        | •     | •     | •     | •     | •    | •    | 24   |     |     |     |     |      |      |      |      |
| 2000 - 3149   | •                        | •     | •     | •     | •     | •    | •    | 40   |     |     |     |     |      |      |      |      |
| 3150 - 4999   | •                        | •     | •     | •     | •     | •    | •    | 68   |     |     |     |     |      |      |      |      |
| 5000 - 7999   | •                        | •     | •     | •     | •     | •    | •    | 110  |     |     |     |     |      |      |      |      |
| 8000 - 12499  | •                        | •     | •     | •     | •     | •    | •    | 181  |     |     |     |     |      |      |      |      |
| 12500 - 19999                                       | •                        | •     | •     | •     | •     | •    | •    |      |     |     |     |     |      |      |      |      |
| 20000 - 31499                                       | 0                        | 0     | 2     | 4     | 8     | 14   | 22   | 40   | 68  | 115 | 181 | 297 | 490  | 797  | 1297 | 2097 |
| 31500 - 49999                                       | 0                        | 1     | 4     | 8     | 14    | 24   | 38   | 67   | 111 | 186 | 301 | 490 | 797  | 1297 | 2097 | 3297 |
| 50000 & Over  | 2                        | 3     | 7     | 14    | 25    | 40   | 63   | 110  | 181 | 301 | 490 | 797 | 1297 | 2097 | 3297 | 5097 |

Denotes that the number of sample units from the last 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 calculation, provided that the lots or batches used are the most recent ones in sequence, that they have all been on normal 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 11.5)

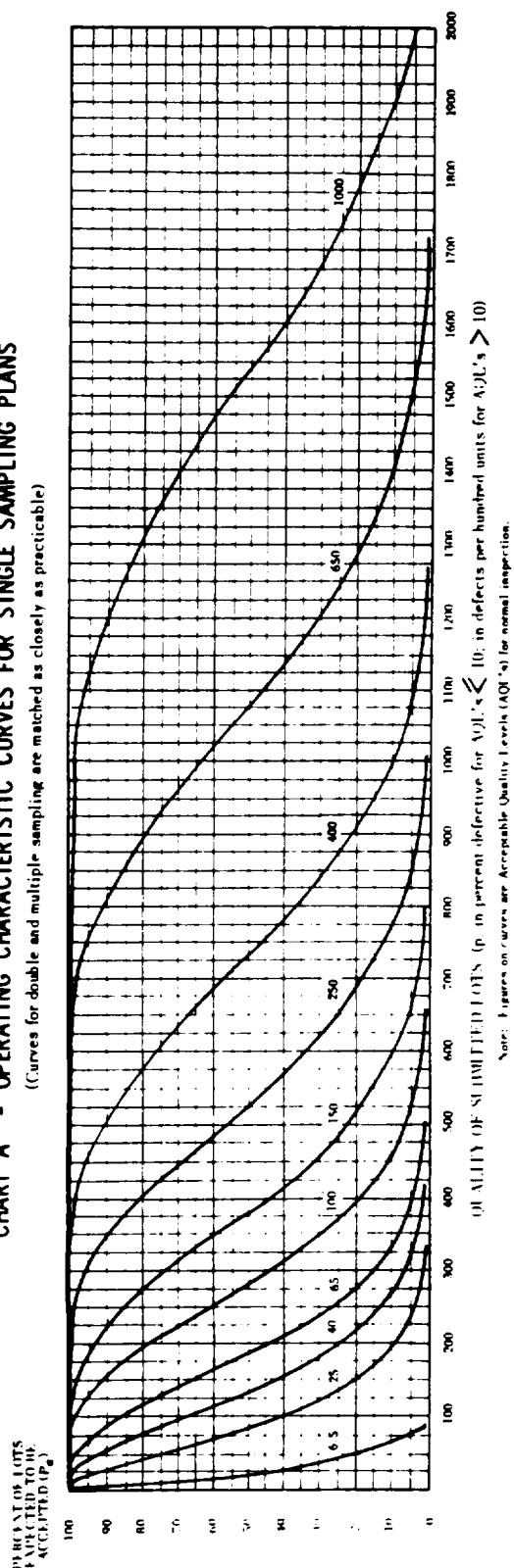


A

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)



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

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

| P <sub>a</sub> | Acceptable Quality Levels (normal inspection)    |      |      |      |      |     |     |      |      |      |      |      |      |      |      |
|----------------|--|------|------|------|------|-----|-----|------|------|------|------|------|------|------|------|
|                | p (in defects per hundred units)                 |      |      |      |      |     |     |      |      |      |      |      |      |      |      |
|                | 6.5  | 25   | 40   | 65   | 100  | 150 | 250 | 400  | 650  | 1000 | 1500 | 2000 | 2500 | 3000 | 3500 |
| 99.0           | 0.51   | 7.45 | 21.8 | 41.2 | 89.2 | 145 | 175 | 239  | 305  | 374  | 462  | 517  | 629  | 859  | 977  |
| 95.0           | 2.56   | 17.8 | 40.9 | 68.3 | 131  | 199 | 235 | 308  | 385  | 462  | 517  | 622  | 745  | 995  | 1122 |
| 90.0           | 5.13   | 26.6 | 55.1 | 87.3 | 158  | 233 | 272 | 351  | 432  | 515  | 584  | 684  | 812  | 1073 | 1206 |
| 75.0           | 13.4   | 48.1 | 86.8 | 127  | 211  | 298 | 342 | 431  | 521  | 612  | 733  | 833  | 934  | 1314 | 1354 |
| 50.0           | 29.3   | 83.9 | 134  | 184  | 284  | 383 | 413 | 533  | 633  | 733  | 833  | 933  | 1083 | 1383 | 1533 |
| 25.0           | 50.0   | 135  | 196  | 256  | 371  | 484 | 540 | 651  | 761  | 870  | 1006 | 1238 | 1409 | 1568 | 1728 |
| 10.0           | 68.4   | 195  | 266  | 334  | 464  | 589 | 650 | 770  | 889  | 1006 | 1141 | 1334 | 1512 | 1862 | 2035 |
| 5.0            | 77.6   | 237  | 315  | 388  | 526  | 657 | 722 | 848  | 972  | 1094 | 1272 | 1529 | 1718 | 2088 | 2270 |
| 1.0            | 90.0   | 332  | 420  | 502  | 655  | 800 | 870 | 1007 | 1141 | 1272 | 1529 | 1718 | 2088 | 2270 | 2500 |
|                | ×  | ×    | ×    | ×    | ×    | ×   | ×   | ×    | ×    | ×    | ×    | ×    | ×    | ×    | ×    |
|                | Acceptable Quality Levels (tightened inspection) |      |      |      |      |     |     |      |      |      |      |      |      |      |      |

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

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

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

(\*) = Use single sampling (or alternatively use letter B).

B

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)

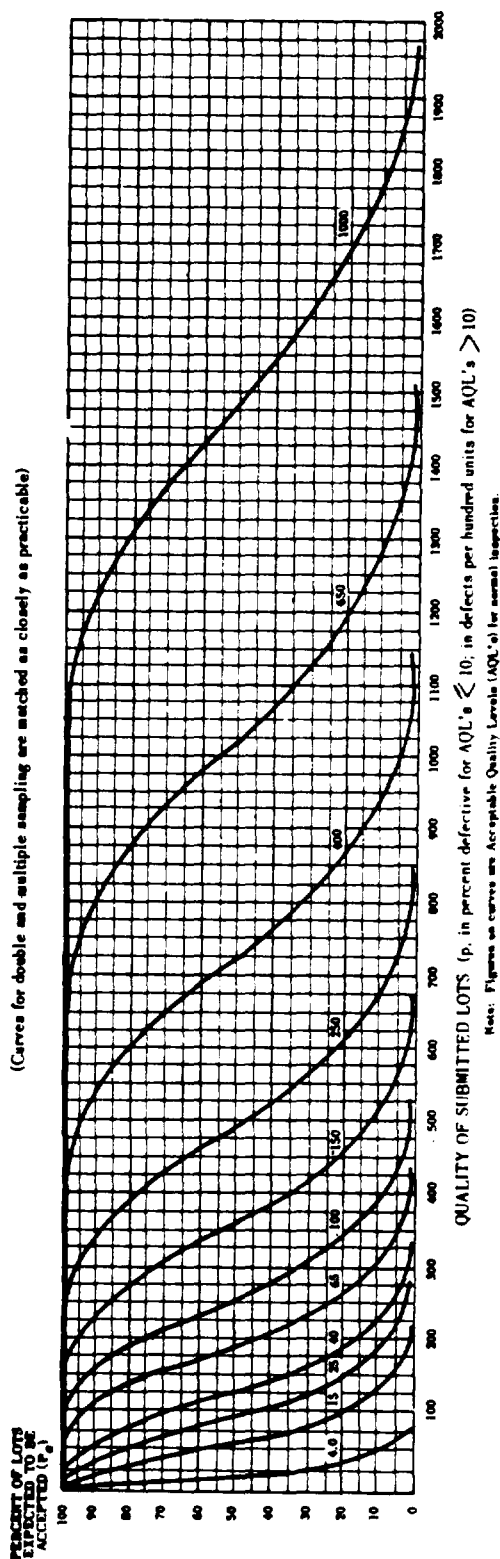


TABLE X-B-1 - TABULATED VALUES FOR OPERATING CHARACTERISTIC CURVES FOR SINGLE SAMPLING PLANS

| P <sub>a</sub> | Acceptable Quality Levels (normal inspection)    |      |      |      |      |      |      |     |     |     |      |      |                                  |      |      |      |      |
|----------------|--|------|------|------|------|------|------|-----|-----|-----|------|------|----------------------------------|------|------|------|------|
|                | 4.0  | 4.0  | 15   | 25   | 40   | 65   | 100  | 150 | 250 | 400 | 650  | 1000 | p (in defects per hundred units) |      |      |      |      |
|                | p (in percent defective)                         |      |      |      |      |      |      |     |     |     |      |      |                                  |      |      |      |      |
| 99.0           | 0.33   | 0.34 | 4.97 | 14.5 | 27.4 | 59.5 | 96.9 | 117 | 159 | 203 | 249  | 345  | 419                              | 573  | 651  | 947  | 1029 |
| 95.0           | 1.70   | 1.71 | 11.8 | 27.3 | 45.5 | 87.1 | 133  | 157 | 206 | 256 | 308  | 415  | 496                              | 663  | 748  | 1065 | 1152 |
| 90.0           | 3.45   | 3.50 | 17.7 | 36.7 | 58.2 | 105  | 155  | 181 | 234 | 288 | 343  | 456  | 541                              | 716  | 804  | 1131 | 1222 |
| 75.0           | 9.14   | 9.60 | 32.0 | 57.6 | 84.5 | 141  | 199  | 228 | 287 | 347 | 408  | 530  | 623                              | 809  | 903  | 1249 | 1344 |
| 50.0           | 20.6   | 23.1 | 55.9 | 89.1 | 122  | 189  | 256  | 289 | 356 | 422 | 489  | 622  | 722                              | 922  | 1022 | 1389 | 1489 |
| 25.0           | 37.0   | 46.2 | 89.8 | 131  | 170  | 247  | 323  | 360 | 434 | 507 | 580  | 724  | 832                              | 1046 | 1152 | 1539 | 1644 |
| 10.0           | 53.6   | 76.8 | 130  | 177  | 223  | 309  | 392  | 433 | 514 | 593 | 671  | 825  | 939                              | 1165 | 1277 | 1683 | 1793 |
| 5.0            | 63.2   | 99.9 | 158  | 210  | 258  | 350  | 438  | 481 | 565 | 648 | 730  | 890  | 1008                             | 1241 | 1356 | 1773 | 1886 |
| 1.0            | 78.4   | 154  | 221  | 280  | 335  | 437  | 533  | 580 | 672 | 761 | 848  | 1019 | 1145                             | 1392 | 1513 | 1951 | 2069 |
|                | 6.5  | 6.5  | 25   | 40   | 65   | 100  | 150  | 250 | 400 | 650 | 1000 | 1500 | 2000                             | 2500 | 3000 | 3500 | 4000 |
|                | Acceptable Quality Levels (tightened inspection) |      |      |      |      |      |      |     |     |     |      |      |                                  |      |      |      |      |

Note: Binomial distribution used for percent defective computations; 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   | 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 | Ac Re | Ac Re | Ac Re | Ac Re | Ac Re | Ac Re | Ac Re | Ac Re |          |                        |       |   |
| Single   | 3                      | ▽   | 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 41 | 42 44 45 | 3                      |       |   |
| Double   | 2<br>4                 | ▽   | •     | Use   | Use   | 0 2   | 0 3   | 1 4   | 2 5   | 3 7   | 5 9   | 6 10  | 7 11  | 9 14  | 11 16 | 15 20 | 17 22 | 23 29    | 25 31                  | 2     |   |
| Multiple   |                        | ▽   | •     | A     | D C   | 1 2   | 3 4   | 4 5   | 6 7   | 8 9   | 11 12 | 12 13 | 15 16 | 18 19 | 23 24 | 26 27 | 34 35 | 37 38    | 52 53                  | 56 57 | 4 |
|  |                        |   |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |                        |       |   |
|  |                        | Less than 6.5                                 | 6.5   | 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 letter F).

++ = Use double sampling plan above (or alternatively use 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)

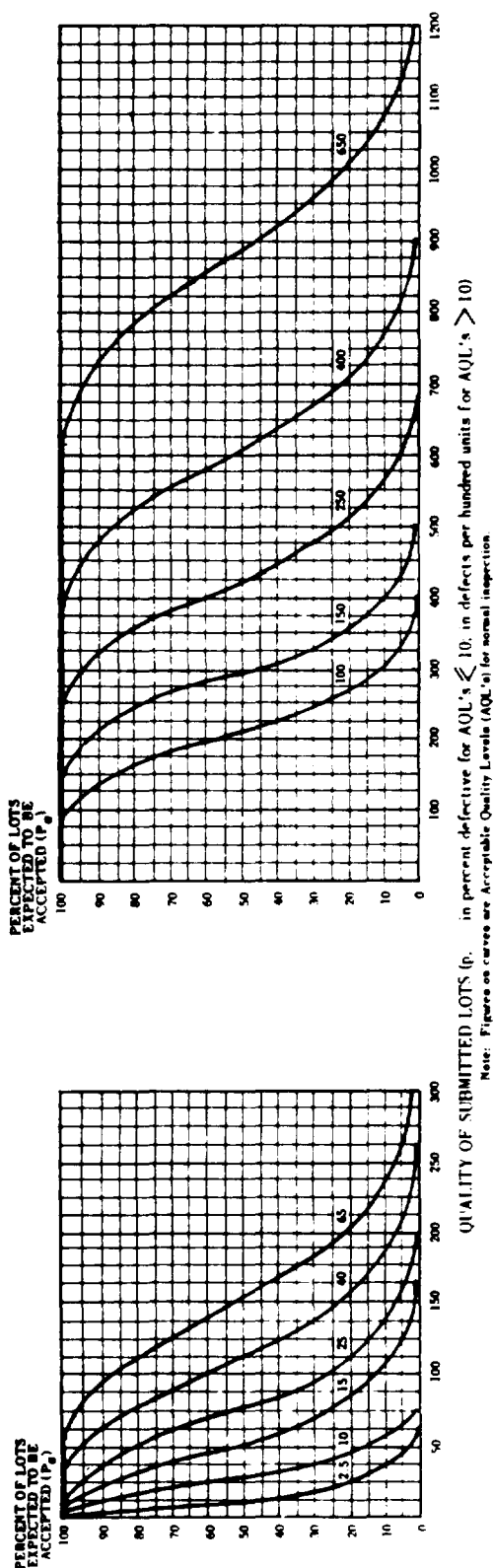


TABLE X-C-1 - TABULATED VALUES FOR OPERATING CHARACTERISTIC CURVES FOR SINGLE SAMPLING PLANS

| P <sub>a</sub>           | Acceptable Quality Levels (normal inspection)    |      |      |      |      |      |      |      |      |      |     |     |     |     |     |     |      |      |
|--------------------------|--|------|------|------|------|------|------|------|------|------|-----|-----|-----|-----|-----|-----|------|------|
|                          | 2.5  | 10   | 2.5  | 10   | 15   | 25   | 40   | 65   | 100  | 150  | 250 | 400 | 650 |     |     |     |      |      |
|                          | p (in defects per hundred units)                 |      |      |      |      |      |      |      |      |      |     |     |     |     |     |     |      |      |
| p (in percent defective) |  |      |      |      |      |      |      |      |      |      |     |     |     |     |     |     |      |      |
| 99.0                     | 0.20   | 3.28 | 0.20 | 2.89 | 8.72 | 16.5 | 35.7 | 58.1 | 70.1 | 95.4 | 122 | 150 | 207 | 251 | 344 | 391 | 568  | 618  |
| 95.0                     | 1.02   | 7.63 | 1.03 | 7.10 | 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 | 2.10 | 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 | 5.76 | 19.2 | 34.5 | 50.7 | 84.4 | 119  | 137  | 172  | 208 | 245 | 318 | 374 | 485 | 542 | 749  | 806  |
| 50.0                     | 12.9   | 31.4 | 13.9 | 33.6 | 53.5 | 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  | 987  |
| 10.0                     | 36.9   | 58.4 | 46.1 | 77.8 | 106  | 134  | 186  | 235  | 260  | 308  | 356 | 403 | 495 | 564 | 699 | 766 | 1010 | 1076 |
| 5.0                      | 45.1   | 65.8 | 59.9 | 94.9 | 126  | 155  | 210  | 263  | 289  | 339  | 389 | 438 | 534 | 605 | 745 | 814 | 1064 | 1131 |
| 1.0                      | 60.2   | 77.8 | 92.1 | 133  | 168  | 201  | 262  | 320  | 348  | 403  | 456 | 509 | 612 | 687 | 835 | 908 | 1171 | 1241 |
|                          | 4.0  | X    | 4.0  | 15   | 25   | 40   | 65   | X    | 100  | X    | 150 | X   | 250 | X   | 400 | X   | 650  | X    |
|                          | Acceptable Quality Levels (tightened inspection) |      |      |      |      |      |      |      |      |      |     |     |     |     |     |     |      |      |

Note: Binomial distribution used for percent defective calculations; Formulas for defects per hundred units.

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

| Type of sampling plan | Cumulative sample size | Acceptable Quality Levels (tightened inspection) |     |     |     |    |    |    |    |    |     |     |     |     |     |      | Cumulative sample size |
|-----------------------|------------------------|--|-----|-----|-----|----|----|----|----|----|-----|-----|-----|-----|-----|------|------------------------|
|                       |                        | Less than 2.5                                    | 2.5 | 4.0 | 6.5 | 10 | 15 | 25 | 40 | 65 | 100 | 150 | 250 | 400 | 650 | 1000 |                        |
| Single                | 5                      | Ac   | Re  | Ac  | Re  | Ac | Re | Ac | Re | Ac | Re  | Ac  | Re  | Ac  | Re  | Ac   | Re                     |
|                       |                        | 0  | 1   |     |     | 1  | 2  | 3  | 4  | 5  | 6   | 7   | 8   | 9   | 10  | 11   | 12                     |
| Double                | 3<br>6                 | Ac   | Re  | Ac  | Re  | Ac | Re | Ac | Re | Ac | Re  | Ac  | Re  | Ac  | Re  | Ac   | Re                     |
|                       |                        | 0  | 1   |     |     | 0  | 2  | 3  | 4  | 5  | 6   | 7   | 8   | 9   | 10  | 11   | 12                     |
| Multiple              |                        | Ac   | Re  | Ac  | Re  | Ac | Re | Ac | Re | Ac | Re  | Ac  | Re  | Ac  | Re  | Ac   | Re                     |
|                       |                        | 0  | 1   |     |     | 0  | 2  | 3  | 4  | 5  | 6   | 7   | 8   | 9   | 10  | 11   | 12                     |

▽ = 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 letter F).

++ = Use double sampling plan above (or alternatively use letter D).

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)

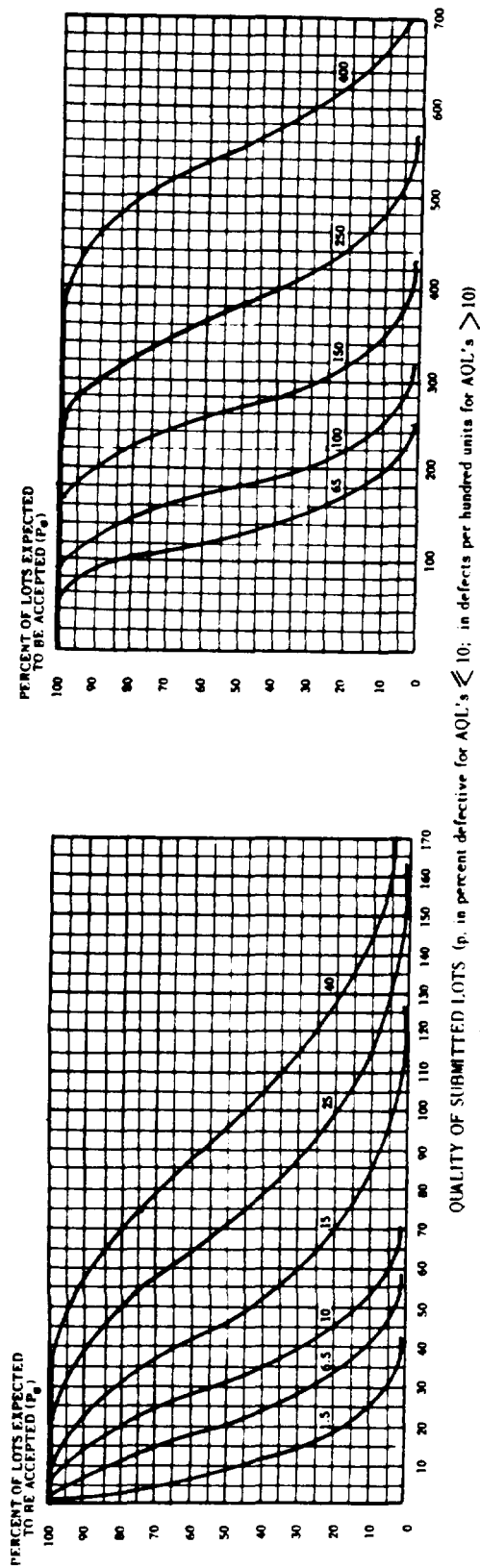


TABLE X-D-1 - TABULATED VALUES FOR OPERATING CHARACTERISTIC CURVES FOR SINGLE SAMPLING PLANS

| P <sub>a</sub> | Acceptable Quality Levels (normal inspection)    |      |      |      |      |      |      |      |      |      |     |                                  |     |     |     |     |
|----------------|--|------|------|------|------|------|------|------|------|------|-----|----------------------------------|-----|-----|-----|-----|
|                | 1.5  | 6.5  | 10   | 15   | 25   | 40   | 65   | 100  | 150  | 250  | 400 | p (in defects per hundred units) |     |     |     |     |
|                | p (in percent defective)                         |      |      |      |      |      |      |      |      |      |     |                                  |     |     |     |     |
| 99.0           | 0.13   | 2.00 | 6.00 | 10.3 | 22.3 | 36.3 | 43.8 | 59.6 | 76.2 | 93.5 | 129 | 157                              | 215 | 244 | 355 | 386 |
| 95.0           | 0.64   | 2.64 | 11.1 | 17.1 | 32.7 | 49.8 | 58.7 | 77.1 | 96.1 | 116  | 156 | 186                              | 249 | 281 | 399 | 432 |
| 90.0           | 1.31   | 6.88 | 14.7 | 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 | 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 | 45.9 | 70.9 | 95.9 | 108  | 133  | 158  | 183  | 233 | 271                              | 346 | 383 | 521 | 558 |
| 25.0           | 15.9   | 30.3 | 43.3 | 63.9 | 92.8 | 121  | 135  | 163  | 190  | 218  | 272 | 312                              | 392 | 432 | 577 | 617 |
| 10.0           | 25.0   | 40.6 | 53.9 | 83.5 | 116  | 147  | 162  | 193  | 222  | 252  | 309 | 352                              | 437 | 478 | 631 | 672 |
| 5.0            | 31.2   | 47.1 | 59.9 | 96.9 | 131  | 164  | 180  | 212  | 243  | 274  | 334 | 378                              | 465 | 509 | 665 | 707 |
| 1.0            | 43.8   | 58.8 | 70.7 | 126  | 164  | 200  | 218  | 252  | 285  | 318  | 382 | 429                              | 522 | 568 | 732 | 776 |
|                | 2.5  | 10   | 25   | 40   | 65   | 100  | 150  | 215  | 281  | 355  | 432 | 504                              | 588 | 672 | 776 | 880 |
|                | Acceptable Quality Levels (tightened inspection) |      |      |      |      |      |      |      |      |      |     |                                  |     |     |     |     |
|                | 1.5  | 6.5  | 10   | 15   | 25   | 40   | 65   | 100  | 150  | 250  | 400 | p (in defects per hundred units) |     |     |     |     |
|                | p (in percent defective)                         |      |      |      |      |      |      |      |      |      |     |                                  |     |     |     |     |
| 99.0           | 0.13   | 2.00 | 6.00 | 10.3 | 22.3 | 36.3 | 43.8 | 59.6 | 76.2 | 93.5 | 129 | 157                              | 215 | 244 | 355 | 386 |
| 95.0           | 0.64   | 2.64 | 11.1 | 17.1 | 32.7 | 49.8 | 58.7 | 77.1 | 96.1 | 116  | 156 | 186                              | 249 | 281 | 399 | 432 |
| 90.0           | 1.31   | 6.88 | 14.7 | 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 | 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 | 45.9 | 70.9 | 95.9 | 108  | 133  | 158  | 183  | 233 | 271                              | 346 | 383 | 521 | 558 |
| 25.0           | 15.9   | 30.3 | 43.3 | 63.9 | 92.8 | 121  | 135  | 163  | 190  | 218  | 272 | 312                              | 392 | 432 | 577 | 617 |
| 10.0           | 25.0   | 40.6 | 53.9 | 83.5 | 116  | 147  | 162  | 193  | 222  | 252  | 309 | 352                              | 437 | 478 | 631 | 672 |
| 5.0            | 31.2   | 47.1 | 59.9 | 96.9 | 131  | 164  | 180  | 212  | 243  | 274  | 334 | 378                              | 465 | 509 | 665 | 707 |
| 1.0            | 43.8   | 58.8 | 70.7 | 126  | 164  | 200  | 218  | 252  | 285  | 318  | 382 | 429                              | 522 | 568 | 732 | 776 |
|                | 2.5  | 10   | 25   | 40   | 65   | 100  | 150  | 215  | 281  | 355  | 432 | 504                              | 588 | 672 | 776 | 880 |
|                | Acceptable Quality Levels (tightened inspection) |      |      |      |      |      |      |      |      |      |     |                                  |     |     |     |     |
|                | 1.5  | 6.5  | 10   | 15   | 25   | 40   | 65   | 100  | 150  | 250  | 400 | p (in defects per hundred units) |     |     |     |     |
|                | p (in percent defective)                         |      |      |      |      |      |      |      |      |      |     |                                  |     |     |     |     |
| 99.0           | 0.13   | 2.00 | 6.00 | 10.3 | 22.3 | 36.3 | 43.8 | 59.6 | 76.2 | 93.5 | 129 | 157                              | 215 | 244 | 355 | 386 |
| 95.0           | 0.64   | 2.64 | 11.1 | 17.1 | 32.7 | 49.8 | 58.7 | 77.1 | 96.1 | 116  | 156 | 186                              | 249 | 281 | 399 | 432 |
| 90.0           | 1.31   | 6.88 | 14.7 | 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 | 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 | 45.9 | 70.9 | 95.9 | 108  | 133  | 158  | 183  | 233 | 271                              | 346 | 383 | 521 | 558 |
| 25.0           | 15.9   | 30.3 | 43.3 | 63.9 | 92.8 | 121  | 135  | 163  | 190  | 218  | 272 | 312                              | 392 | 432 | 577 | 617 |
| 10.0           | 25.0   | 40.6 | 53.9 | 83.5 | 116  | 147  | 162  | 193  | 222  | 252  | 309 | 352                              | 437 | 478 | 631 | 672 |
| 5.0            | 31.2   | 47.1 | 59.9 | 96.9 | 131  | 164  | 180  | 212  | 243  | 274  | 334 | 378                              | 465 | 509 | 665 | 707 |
| 1.0            | 43.8   | 58.8 | 70.7 | 126  | 164  | 200  | 218  | 252  | 285  | 318  | 382 | 429                              | 522 | 568 | 732 | 776 |
|                | 2.5  | 10   | 25   | 40   | 65   | 100  | 150  | 215  | 281  | 355  | 432 | 504                              | 588 | 672 | 776 | 880 |
|                | Acceptable Quality Levels (tightened inspection) |      |      |      |      |      |      |      |      |      |     |                                  |     |     |     |     |
|                | 1.5  | 6.5  | 10   | 15   | 25   | 40   | 65   | 100  | 150  | 250  | 400 | p (in defects per hundred units) |     |     |     |     |
|                | p (in percent defective)                         |      |      |      |      |      |      |      |      |      |     |                                  |     |     |     |     |
| 99.0           | 0.13   | 2.00 | 6.00 | 10.3 | 22.3 | 36.3 | 43.8 | 59.6 | 76.2 | 93.5 | 129 | 157                              | 215 | 244 | 355 | 386 |
| 95.0           | 0.64   | 2.64 | 11.1 | 17.1 | 32.7 | 49.8 | 58.7 | 77.1 | 96.1 | 116  | 156 | 186                              | 249 | 281 | 399 | 432 |
| 90.0           | 1.31   | 6.88 | 14.7 | 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 | 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 | 45.9 | 70.9 | 95.9 | 108  | 133  | 158  | 183  | 233 | 271                              | 346 | 383 | 521 | 558 |
| 25.0           | 15.9   | 30.3 | 43.3 | 63.9 | 92.8 | 121  | 135  | 163  | 190  | 218  | 272 | 312                              | 392 | 432 | 577 | 617 |
| 10.0           | 25.0   | 40.6 | 53.9 | 83.5 | 116  | 147  | 162  | 193  | 222  | 252  | 309 | 352                              | 437 | 478 | 631 | 672 |
| 5.0            | 31.2   | 47.1 | 59.9 | 96.9 | 131  | 164  | 180  | 212  | 243  | 274  | 334 | 378                              | 465 | 509 | 665 | 707 |
| 1.0            | 43.8   | 58.8 | 70.7 | 126  | 164  | 200  | 218  | 252  | 285  | 318  | 382 | 429                              | 522 | 568 | 732 | 776 |
|                | 2.5  | 10   | 25   | 40   | 65   | 100  | 150  | 215  | 281  | 355  | 432 | 504                              | 588 | 672 | 776 | 880 |
|                | Acceptable Quality Levels (tightened inspection) |      |      |      |      |      |      |      |      |      |     |                                  |     |     |     |     |
|                | 1.5  | 6.5  | 10   | 15   | 25   | 40   | 65   | 100  | 150  | 250  | 400 | p (in defects per hundred units) |     |     |     |     |
|                | p (in percent defective)                         |      |      |      |      |      |      |      |      |      |     |                                  |     |     |     |     |
| 99.0           | 0.13   | 2.00 | 6.00 | 10.3 | 22.3 | 36.3 | 43.8 | 59.6 | 76.2 | 93.5 | 129 | 157                              | 215 | 244 | 355 | 386 |
| 95.0           | 0.64   | 2.64 | 11.1 | 17.1 | 32.7 | 49.8 | 58.7 | 77.1 | 96.1 | 116  | 156 | 186                              | 249 | 281 | 399 | 432 |
| 90.0           | 1.31   | 6.88 | 14.7 | 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 | 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 | 45.9 | 70.9 | 95.9 | 108  | 133  | 158  | 183  | 233 | 271                              | 346 | 383 | 521 | 558 |
| 25.0           | 15.9   | 30.3 | 43.3 | 63.9 | 92.8 | 121  | 135  | 163  | 190  | 218  | 272 | 312                              | 392 | 432 | 577 | 617 |
| 10.0           | 25.0   | 40.6 | 53.9 | 83.5 | 116  | 147  | 162  | 193  | 222  | 252  | 309 | 352                              | 437 | 478 | 631 | 672 |
| 5.0            | 31.2   | 47.1 | 59.9 | 96.9 | 131  | 164  | 180  | 212  | 243  | 274  | 334 | 378                              | 465 | 509 | 665 | 707 |
| 1.0            | 43.8   | 58.8 | 70.7 | 126  | 164  | 200  | 218  | 252  | 285  | 318  | 382 | 429                              | 522 | 568 | 732 | 776 |
|                | 2.5  | 10   | 25   | 40   | 65   | 100  | 150  | 215  | 281  | 355  | 432 | 504                              | 588 | 672 | 776 | 880 |
|                | Acceptable Quality Levels (tightened inspection) |      |      |      |      |      |      |      |      |      |     |                                  |     |     |     |     |
|                | 1.5  | 6.5  | 10   | 15   | 25   | 40   | 65   | 100  | 150  | 250  | 400 | p (in defects per hundred units) |     |     |     |     |
|                | p (in percent defective)                         |      |      |      |      |      |      |      |      |      |     |                                  |     |     |     |     |
| 99.0           | 0.13   | 2.00 | 6.00 | 10.3 | 22.3 | 36.3 | 43.8 | 59.6 | 76.2 | 93.5 | 129 | 157                              | 215 | 244 | 355 | 386 |
| 95.0           | 0.64   | 2.64 | 11.1 | 17.1 | 32.7 | 49.8 | 58.7 | 77.1 | 96.1 | 116  | 156 | 186                              | 249 | 281 | 399 | 432 |
| 90.0           | 1.31   | 6.88 | 14.7 | 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 | 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 | 45.9 | 70.9 | 95.9 | 108  | 133  | 158  | 183  | 233 | 271                              | 346 | 383 | 521 | 558 |
| 25.0           | 15.9   | 30.3 | 43.3 | 63.9 | 92.8 | 121  | 135  | 163  | 190  | 218  | 272 | 312                              | 392 | 432 | 577 | 617 |
| 10.0           | 25.0   | 40.6 | 53.9 | 83.5 | 116  | 147  | 162  | 193  | 222  | 252  | 309 | 352                              | 437 | 478 | 631 | 672 |
| 5.0            | 31.2   | 47.1 | 59.9 | 96.9 | 131  | 164  | 180  | 212  | 243  | 274  | 334 | 378                              | 465 | 509 | 665 | 707 |
| 1.0            | 43.8   | 58.8 | 70.7 | 126  | 164  | 200  | 218  | 252  | 285  | 318  | 382 | 429                              | 522 | 568 | 732 | 776 |
|                | 2.5  | 10   | 25   | 40   | 65   | 100  | 150  | 215  | 281  | 355  | 432 | 504                              | 588 | 672 | 776 | 880 |
|                | Acceptable Quality Levels (tightened inspection) |      |      |      |      |      |      |      |      |      |     |                                  |     |     |     |     |
|                | 1.5  | 6.5  | 10   | 15   | 25   | 40   | 65   | 100  | 150  | 250  | 400 | p (in defects per hundred units) |     |     |     |     |
|                | p (in percent defective)                         |      |      |      |      |      |      |      |      |      |     |                                  |     |     |     |     |
| 99.0           | 0.13   | 2.00 | 6.00 | 10.3 | 22.3 | 36.3 | 43.8 | 59.6 | 76.2 | 93.5 | 129 | 157                              | 215 | 244 | 355 | 386 |
| 95.0           | 0.64   | 2.64 | 11.1 | 17.1 | 32.7 | 49.8 | 58.7 | 77.1 | 96.1 | 116  | 156 | 186                              | 249 | 281 | 399 | 432 |
| 90.0           | 1.31   | 6.88 | 14.7 | 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 | 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 | 45.9 | 70.9 | 95.9 | 108  | 133  | 158  | 183  | 233 | 271                              | 346 | 383 | 521 | 558 |
| 25.0           | 15.9   | 30.3 | 43.3 | 63.9 | 92.8 | 121  | 135  | 163  | 190  | 218  | 272 | 312                              | 392 | 432 | 577 | 617 |
| 10.0           | 25.0   | 40.6 | 53.9 | 83.5 | 116  | 147  | 162  | 193  | 222  | 252  | 309 | 352                              | 437 | 478 | 631 | 672 |
| 5.0            | 31.2   | 47.1 | 59.9 | 96.9 | 131  | 164  | 180  | 212  | 243  | 274  | 334 | 378                              | 465 | 509 | 665 | 707 |
| 1.0            | 43.8   | 58.8 | 70.7 | 126  | 164  | 200  | 218  | 252  | 285  | 318  | 382 | 429                              | 522 | 568 | 732 | 776 |
|                | 2.5  | 10   | 25   | 40   | 65   | 100  | 150  | 215  | 281  | 355  | 432 | 504                              | 588 | 672 | 776 | 880 |
|                | Acceptable Quality Levels (tightened inspection) |      |      |      |      |      |      |      |      |      |     |                                  |     |     |     |     |
|                | 1.5  | 6.5  | 10   | 15   | 25   | 40   | 65   | 100  | 150  | 250  | 400 | p (in defects per hundred units) |     |     |     |     |
|                | p (in percent defective)                         |      |      |      |      |      |      |      |      |      |     |                                  |     |     |     |     |
| 99.0           | 0.13   | 2.00 | 6.00 | 10.3 | 22.3 | 36.3 | 43.8 | 59.6 | 76.2 | 93.5 | 129 | 157                              | 215 | 244 | 355 | 386 |
| 95.0           | 0.64   | 2.64 | 11.1 | 17.1 | 32.7 | 49.8 | 58.7 | 77.1 | 96.1 | 116  | 156 | 186                              | 249 | 281 | 399 | 432 |
| 90.0           | 1.31   | 6.88 | 14.7 | 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 | 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 | 45.9 | 70.9 | 95.9 | 108  | 133  | 158  | 183  | 233 | 271                              | 346 | 383 | 521 | 558 |
| 25.0           | 15.9   | 30.3 | 43.3 | 63.9 | 92.8 | 121  | 135  | 163  | 190  | 218  | 272 | 312                              | 392 | 432 | 577 | 617 |
| 10.0           | 25.0   | 40.6 | 53.9 | 83.5 |      |      |      |      |      |      |     |                                  |     |     |     |     |

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

| Type of sampling plan | Cumulative sample size | Acceptable Quality Levels (normal inspection) |       |       |       |       |       |       |       |       |       |       |       |       |                 |  |       |    | Cumulative sample size |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |
|-----------------------|------------------------|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----------------|--|-------|----|------------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|---|
|                       |                        | Less than 1.5                                 | 1.5   | 2.5   | 4.0   | 6.5   | 10    | 15    | 25    | 40    | 65    | 100   | 150   | 250   | 400             | Higher than 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 |    |                        |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |
| Single                | 8                      | ▽   | 0     | 1     |       |       | 1     | 2     | 3     | 4     | 5     | 6     | 7     | 8     | 9               | 10   | 11    | 12 | 13                     | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 27 | 28 | 30 | 31 | 41 | 42 | 44 | 45 | △ |
|                       |                        |   |       |       |       |       |       |       |       |       |       |       |       |       |                 |  |       |    |                        |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |
| Double                | 5<br>10                | ▽   | •     |       |       |       | 0     | 2     | 3     | 1     | 4     | 2     | 5     | 3     | 7               | 3  | 5     | 9  | 6                      | 10 | 7  | 11 | 9  | 14 | 11 | 16 | 15 | 20 | 17 | 22 | 23 | 29 | 25 | 31 | △  |    |   |
|                       |                        |   |       |       |       |       | 1     | 2     | 3     | 4     | 5     | 6     | 7     | 8     | 9               | 11   | 12    | 12 | 13                     | 15 | 16 | 18 | 19 | 23 | 24 | 26 | 27 | 34 | 35 | 37 | 38 | 52 | 53 | 56 | 57 |    |   |
| Multiple              | 2                      | ▽   | •     |       |       |       | #     | 2     | #     | 3     | #     | 4     | 0     | 4     | 0               | 4  | 0     | 5  | 0                      | 6  | 1  | 7  | 1  | 8  | 2  | 9  | 3  | 10 | 4  | 12 | 6  | 15 | 6  | 16 | △  |    |   |
|                       | 4                      |   |       |       |       |       | #     | 2     | 0     | 3     | 0     | 3     | 1     | 5     | 1               | 6  | 2     | 7  | 3                      | 8  | 3  | 9  | 4  | 10 | 6  | 12 | 7  | 14 | 10 | 17 | 11 | 19 | 16 | 25 | 17 | 27 |   |
|                       | 6                      |   |       |       |       |       | 0     | 2     | 0     | 3     | 1     | 4     | 2     | 6     | 3               | 8  | 4     | 9  | 6                      | 10 | 7  | 12 | 8  | 13 | 11 | 17 | 13 | 19 | 17 | 24 | 19 | 27 | 26 | 36 | 29 | 39 |   |
|                       | 8                      |   |       |       |       |       | 0     | 3     | 1     | 4     | 2     | 5     | 3     | 7     | 5               | 10   | 6     | 11 | 8                      | 13 | 10 | 15 | 12 | 17 | 16 | 22 | 19 | 25 | 24 | 31 | 27 | 34 | 37 | 46 | 40 | 49 |   |
|                       | 10                     |   |       |       |       |       | 1     | 3     | 2     | 4     | 3     | 6     | 5     | 8     | 7               | 11   | 9     | 12 | 11                     | 15 | 14 | 17 | 17 | 20 | 22 | 25 | 29 | 32 | 37 | 36 | 40 | 49 | 55 | 53 | 58 |    |   |
|                       | 12                     |   |       |       |       |       | 1     | 3     | 3     | 5     | 4     | 6     | 7     | 9     | 10              | 12   | 12    | 14 | 14                     | 17 | 18 | 20 | 21 | 23 | 27 | 29 | 31 | 33 | 40 | 43 | 45 | 47 | 61 | 64 | 65 | 68 |   |
|                       | 14                     |   |       |       |       |       | 2     | 3     | 4     | 5     | 6     | 7     | 9     | 10    | 13              | 14   | 14    | 15 | 18                     | 19 | 21 | 22 | 25 | 26 | 32 | 33 | 37 | 38 | 48 | 49 | 53 | 54 | 72 | 73 | 77 | 78 |   |
|                       |                        | 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   | Use   | Use   |       |       |       |       |       |       |       |       |                 |  |       |    |                        |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |

△ = 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 letter G).

# = Acceptance not permitted at this sample size.

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)

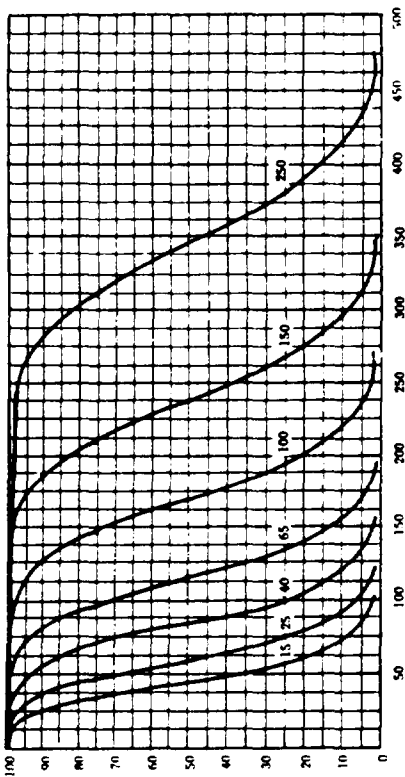
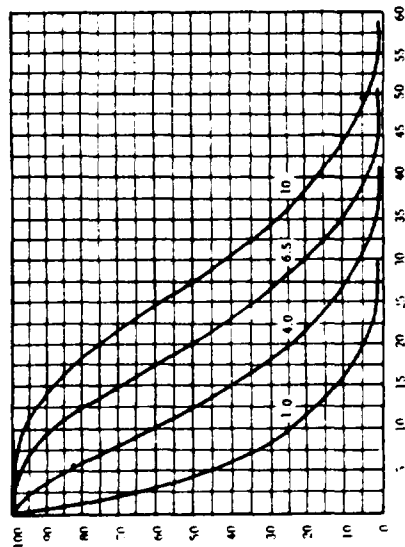
PERCENT OF LOTS  
ACCEPTED TO 100  
ACCEPTED (P<sub>a</sub>)QUALITY OF SUBMITTED LOTS (p, in percent defective for AQL's  $\leq 10$ ; in defects per hundred units for AQL's  $> 10$ )  
Note: Figures on curves are Acceptable Quality Levels (AQL's) for normal inspection.

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

| P <sub>a</sub> | Acceptable Quality Levels (normal inspection) |      |      |      |       |      |      |      |      |      |                                  |      |      |      |      |      |      |       |       |       |
|----------------|---|------|------|------|-------|------|------|------|------|------|----------------------------------|------|------|------|------|------|------|-------|-------|-------|
|                | 1.0   | 4.0  | 6.5  | 10   | 1.0   | 4.0  | 6.5  | 10   | 15   | 25   | 40                               | 65   | 100  | 150  | 250  |      |      |       |       |       |
|                | p (in percent defective)                      |      |      |      |       |      |      |      |      |      | p (in defects per hundred units) |      |      |      |      |      |      |       |       |       |
| 99.0           | 0.077   | 1.19 | 3.63 | 7.00 | 0.078 | 1.15 | 3.35 | 6.33 | 13.7 | 22.4 | 27.0                             | 36.7 | 46.9 | 57.5 | 79.6 | 96.7 | 132  | 150   | 219   | 238   |
| 95.0           | 0.394   | 2.81 | 6.63 | 11.3 | 0.395 | 2.73 | 6.29 | 10.5 | 20.1 | 30.6 | 36.1                             | 47.5 | 59.2 | 71.1 | 95.7 | 115  | 153  | 173   | 246   | 266   |
| 90.0           | 0.807   | 4.16 | 8.80 | 14.2 | 0.808 | 4.09 | 8.48 | 13.4 | 24.2 | 35.8 | 41.8                             | 54.0 | 66.5 | 79.2 | 105  | 125  | 165  | 185   | 261   | 282   |
| 75.0           | 2.19  | 7.41 | 13.4 | 19.9 | 2.22  | 7.39 | 13.3 | 19.5 | 32.5 | 45.8 | 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 | 97.5 | 113  | 144  | 168  | 213  | 236   | 321   | 344   |
| 25.0           | 10.1  | 19.4 | 28.0 | 36.2 | 10.7  | 20.7 | 30.2 | 39.3 | 57.1 | 74.5 | 83.1                             | 100  | 117  | 134  | 167  | 192  | 241  | 266   | 355   | 379   |
| 10.0           | 16.2  | 26.8 | 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  | 41.5 | 50.6 | 58.7 | 35.4  | 51.1 | 64.7 | 77.3 | 101  | 123  | 134                              | 155  | 176  | 196  | 235  | 264  | 321  | 349   | 450   | 477   |
|                | 1.5   | 6.5  | 10   | 15   | 25    | 40   | 65   | 100  | 150  | 250  | 400                              | 650  | 1000 | 1500 | 2500 | 4000 | 6500 | 10000 | 15000 | 25000 |
|                |   |      |      |      |       |      |      |      |      |      |                                  |      |      |      |      |      |      |       |       |       |

Acceptable Quality Levels (tightened inspection)

Note: Binomial distribution used for percent defective computations. Figures 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) |      |      |      |      |      |      |      |      |      |      |      |      |      |                 |    |  |  |  |  | Cumulative sample size |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    |
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|                       |                        | 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  | ReAc | ReAc | ReAc | ReAc | ReAc | ReAc | ReAc | ReAc | ReAc | ReAc | ReAc | ReAc | ReAc | ReAc            | Re |  |  |  |  |                        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    |
| Single                | 13                     | ▽   | 0    | 1    |      |      |      |      |      |      |      |      |      |      |      |                 |    |  |  |  |  |                        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | </ |

△ = 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 letter H).

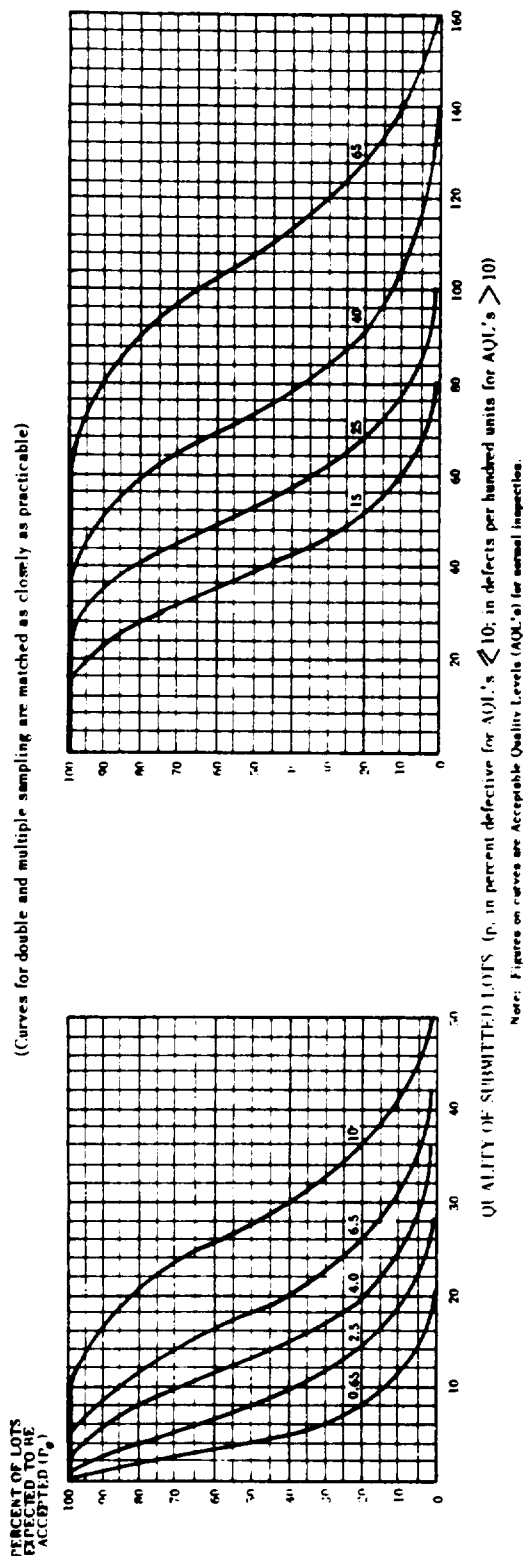
# = Acceptance not permitted at this sample size.



**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)



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

| P <sub>d</sub> | Acceptable Quality Levels (normal inspection) |      |      |      |      |       |      |                                  |      |      |      |      |      |      |      |
|----------------|---|------|------|------|------|-------|------|----------------------------------|------|------|------|------|------|------|------|
|                | p (in percent defective)                      |      |      |      |      |       |      | p (in defects per hundred units) |      |      |      |      |      |      |      |
|                | 0.65  | 2.5  | 4.0  | 6.5  | 10   | 0.65  | 2.5  | 4.0                              | 6.5  | 10   | 15   | 25   | 40   | 51.7 | 65   |
| 99.0           | 0.050   | 0.75 | 2.25 | 4.31 | 9.75 | 0.051 | 0.75 | 2.18                             | 4.12 | 8.92 | 14.5 | 23.9 | 30.5 | 37.4 | 62.9 |
| 95.0           | 0.256   | 1.80 | 4.22 | 7.13 | 14.0 | 0.257 | 1.78 | 4.09                             | 6.83 | 13.1 | 19.9 | 30.8 | 38.5 | 46.2 | 74.5 |
| 90.0           | 0.525   | 2.69 | 5.64 | 9.03 | 16.6 | 0.527 | 2.66 | 5.51                             | 8.73 | 15.8 | 23.3 | 35.1 | 43.2 | 51.5 | 81.2 |
| 75.0           | 1.43  | 4.81 | 8.70 | 12.8 | 21.6 | 1.44  | 4.81 | 8.68                             | 12.7 | 21.1 | 29.8 | 34.2 | 43.1 | 61.2 | 93.4 |
| 50.0           | 3.41  | 8.25 | 13.1 | 18.1 | 27.9 | 3.47  | 8.39 | 13.4                             | 18.4 | 28.4 | 38.3 | 43.3 | 63.3 | 73.3 | 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 | 76.1 | 87.0 | 125  |
| 10.0           | 10.9  | 18.1 | 24.5 | 30.4 | 41.5 | 11.5  | 19.5 | 26.6                             | 33.4 | 46.4 | 58.9 | 65.0 | 88.9 | 101  | 141  |
| 5.0            | 13.9  | 21.6 | 28.3 | 34.4 | 45.6 | 15.0  | 23.7 | 31.5                             | 38.8 | 52.6 | 65.7 | 72.2 | 97.2 | 109  | 151  |
| 1.0            | 20.6  | 28.9 | 35.6 | 42.0 | 53.4 | 23.0  | 33.2 | 42.0                             | 50.2 | 65.5 | 80.0 | 87.0 | 114  | 127  | 172  |
|                | 1.0   | 4.0  | 6.5  | 10   | 15   | 1.0   | 4.0  | 6.5                              | 10   | 15   | 25   | 40   | 65   | 108  | 172  |



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

| Type of sampling plan | Cumulative sample size | Acceptable Quality Levels (normal inspection)    |     |      |    |     |    |     |    |     |    |     |    |     |    |    |    |    |    |    |    |    |    |    |    |                |    |    |    | Cumulative sample size |    |                |    |
|-----------------------|------------------------|--|-----|------|----|-----|----|-----|----|-----|----|-----|----|-----|----|----|----|----|----|----|----|----|----|----|----|----------------|----|----|----|------------------------|----|----------------|----|
|                       |                        | Less than 0.65                                   |     | 0.65 |    | 1.0 |    | 1.5 |    | 2.5 |    | 4.0 |    | 6.5 |    | 10 |    | 15 |    | 25 |    | 40 |    | 65 |    | Higher than 65 |    |    |    |                        |    |                |    |
|                       |                        | 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 | Ac | Re | Ac             | Re |    |    |                        |    |                |    |
| Single                | 20                     | ▽  | 0   | 1    |    |     |    |     |    | 1   | 2  | 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  | 0   | 3  | 1   | 4  | 2  | 5  | 3  | 7  | 3  | 7  | 5  | 9  | 6  | 10 | 7              | 11 | 9  | 14 | 11                     | 16 | △              | 13 |
|                       | 26                     |  |     |      |    |     |    |     |    | 1   | 2  | 3   | 4  | 4   | 5  | 6  | 7  | 8  | 9  | 11 | 12 | 12 | 13 | 15 | 16 | 18             | 19 | 23 | 24 | 26                     | 27 |                | 26 |
| Multiple              | 5                      | ▽  | •   |      |    |     |    |     |    | •   | 2  | •   | 2  | •   | 3  | •  | 4  | 0  | 4  | 0  | 4  | 0  | 5  | 0  | 6  | 1              | 7  | 1  | 8  | 2                      | 9  | △              | 5  |
|                       | 10                     |  |     |      |    |     |    |     |    | •   | 2  | 0   | 3  | 0   | 3  | 1  | 5  | 1  | 6  | 2  | 7  | 3  | 8  | 3  | 9  | 4              | 10 | 6  | 12 | 7                      | 14 |                | 10 |
|                       | 15                     |  |     |      |    |     |    |     |    | 0   | 2  | 0   | 3  | 1   | 4  | 2  | 6  | 3  | 8  | 4  | 9  | 6  | 10 | 7  | 12 | 8              | 13 | 11 | 17 | 13                     | 19 |                | 15 |
|                       | 20                     |  |     |      |    |     |    |     |    | 0   | 3  | 1   | 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 | 25                     | 29 |                | 25 |
|                       | 30                     |  |     |      |    |     |    |     |    | 1   | 3  | 3   | 5  | 4   | 6  | 7  | 9  | 10 | 12 | 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 |      |    |     |    |     |    |     |    |     |    |     |    |    |    |    |    |    |    |    |    |    |    |                |    |    |    |                        |    | 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 single sampling plan above (or alternatively use letter J).

• = Acceptance not permitted at this sample size.



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

| Type of sampling plan | Cumulative sample size | Acceptable Quality Levels (normal inspection)    |      |      |      |     |    |     |     |     |     |     |    |     |    |    |    |    |    |                |    |    |    |                |    |    |    |    |    |    |    |    |
|-----------------------|------------------------|--|------|------|------|-----|----|-----|-----|-----|-----|-----|----|-----|----|----|----|----|----|----------------|----|----|----|----------------|----|----|----|----|----|----|----|----|
|                       |                        | Less than 0.40                                   | 0.40 |      | 0.65 | 1.0 |    | 1.5 | 2.5 |     | 4.0 | 6.5 |    | 10  | 15 |    | 25 | 40 |    | Higher than 40 |    |    |    |                |    |    |    |    |    |    |    |    |
|                       |                        |  | 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                | 32                     | ▽  | 0    | 1    |      |     |    |     |     |     |     |     |    |     |    |    |    |    |    |                |    |    |    |                |    |    |    |    |    | △  | 32 |    |
|                       |                        |  |      |      |      |     |    |     |     |     |     |     |    |     |    |    |    |    |    |                |    |    |    |                |    |    |    |    |    |    |    |    |
| Double                | 20                     | ▽  |      |      |      |     |    |     |     |     |     |     |    |     |    |    |    |    |    |                |    |    |    |                |    |    |    |    |    |    | △  | 20 |
|                       | 40                     |  |      |      |      |     |    |     |     |     |     |     |    |     |    |    |    |    |    |                |    |    |    |                |    |    |    |    |    |    |    | 40 |
| Multiple              | 8                      | ▽  |      |      |      |     |    |     |     |     |     |     |    |     |    |    |    |    |    |                |    |    |    |                |    |    |    |    |    |    | △  | 8  |
|                       | 16                     |  |      |      |      |     |    |     |     |     |     |     |    |     |    |    |    |    |    |                |    |    |    |                |    |    |    |    |    |    |    | 16 |
|                       | 24                     |  |      |      |      |     |    |     |     |     |     |     |    |     |    |    |    |    |    |                |    |    |    |                |    |    |    |    |    |    |    | 24 |
|                       | 32                     |  |      |      |      |     |    |     |     |     |     |     |    |     |    |    |    |    |    |                |    |    |    |                |    |    |    |    |    |    |    | 32 |
|                       | 40                     |  |      |      |      |     |    |     |     |     |     |     |    |     |    |    |    |    |    |                |    |    |    |                |    |    |    |    |    |    |    | 40 |
|                       | 48                     |  |      |      |      |     |    |     |     |     |     |     |    |     |    |    |    |    |    |                |    |    |    |                |    |    |    |    |    |    |    | 48 |
|                       | 56                     |  |      |      |      |     |    |     |     |     |     |     |    |     |    |    |    |    |    |                |    |    |    |                |    |    |    |    |    |    | 56 |    |
|                       |                        | Less than 0.65                                   |      | 0.65 |      | 1.0 |    | 1.5 |     | 2.5 |     | 4.0 |    | 6.5 |    | 10 |    | 15 |    | 25             |    | 40 |    | Higher than 40 |    |    |    |    |    |    |    |    |
|                       |                        | Acceptable Quality Levels (tightened inspection) |      |      |      |     |    |     |     |     |     |     |    |     |    |    |    |    |    |                |    |    |    |                |    |    |    |    |    |    |    |    |
|                       |                        | 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 |    |

△ = 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.

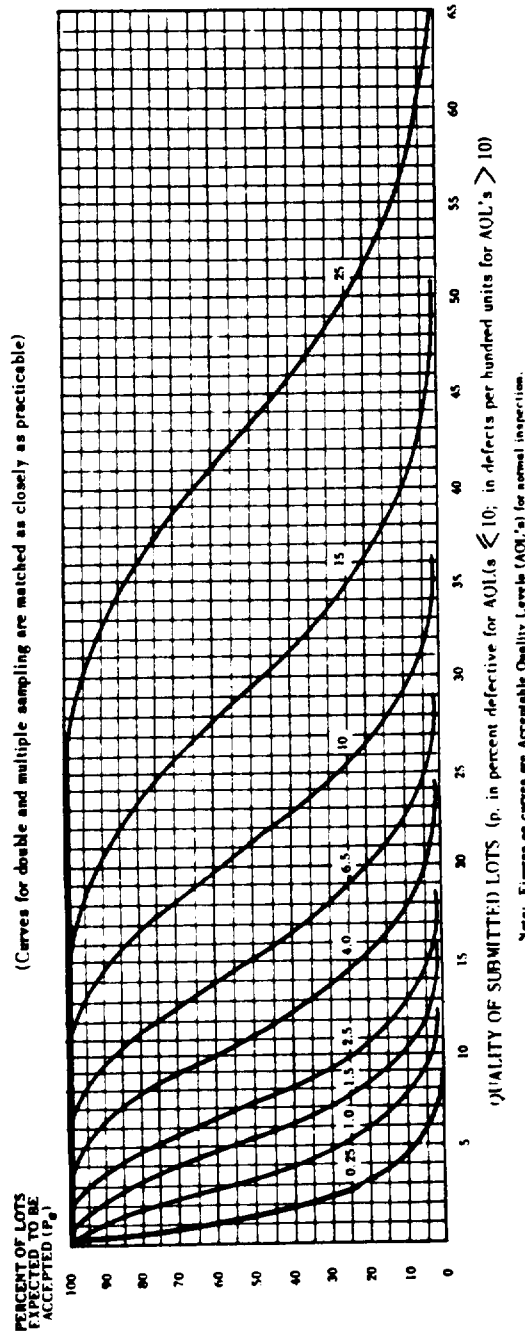
• = Use single sampling plan above (or alternatively use letter K).

• = Acceptance not permitted at this sample size.

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 matched as closely as practicable)



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

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

| $P_d$ | Acceptable Quality Levels (normal inspection) |       |       |      |      |      |      |                                  |       |       |      |      |      |      |      |
|-------|---|-------|-------|------|------|------|------|----------------------------------|-------|-------|------|------|------|------|------|
|       | p (in percent defective)                      |       |       |      |      |      |      | p (in defects per hundred units) |       |       |      |      |      |      |      |
|       | 0.25  | 1.0   | 1.5   | 2.5  | 4.0  | 6.5  | 10   | 0.25                             | 1.0   | 1.5   | 2.5  | 4.0  | 6.5  | 10   | 15   |
| 99.0  | 0.020   | 0.306 | 0.888 | 1.69 | 3.66 | 6.06 | 7.41 | 0.020                            | 0.298 | 0.872 | 1.65 | 3.57 | 5.81 | 7.01 | 9.54 |
| 95.0  | 0.103   | 0.712 | 1.66  | 2.77 | 5.34 | 8.20 | 9.74 | 0.103                            | 0.710 | 1.64  | 2.73 | 5.23 | 7.96 | 9.39 | 12.3 |
| 90.0  | 0.210   | 1.07  | 2.23  | 3.54 | 6.42 | 9.53 | 11.2 | 0.210                            | 1.06  | 2.20  | 3.49 | 6.30 | 9.31 | 10.9 | 14.0 |
| 75.0  | 0.574   | 1.92  | 3.46  | 5.09 | 8.51 | 12.0 | 13.8 | 0.576                            | 1.92  | 3.45  | 5.07 | 8.44 | 11.9 | 13.7 | 17.2 |
| 50.0  | 1.38  | 3.33  | 5.31  | 7.30 | 11.3 | 15.2 | 17.2 | 1.39                             | 3.36  | 5.35  | 7.34 | 11.3 | 15.3 | 17.3 | 20.8 |
| 25.0  | 2.74  | 5.30  | 7.70  | 10.0 | 14.5 | 18.8 | 21.0 | 2.77                             | 5.39  | 7.84  | 10.2 | 14.8 | 19.4 | 21.6 | 26.0 |
| 10.0  | 4.50  | 7.56  | 10.3  | 12.9 | 17.8 | 22.4 | 24.7 | 4.61                             | 7.78  | 10.6  | 13.4 | 18.6 | 23.5 | 26.0 | 30.8 |
| 5.0   | 5.82  | 9.13  | 12.1  | 14.8 | 19.9 | 24.7 | 27.0 | 5.99                             | 9.49  | 12.6  | 15.5 | 21.0 | 26.3 | 28.9 | 33.9 |
| 1.0   | 8.80  | 12.5  | 15.9  | 18.8 | 24.3 | 29.2 | 31.7 | 9.21                             | 13.3  | 16.8  | 20.1 | 26.2 | 32.0 | 34.8 | 40.3 |
| 0.40  | 1.5   | 2.5   | 4.0   | 6.5  | 10   | 15   | 25   | 0.40                             | 1.5   | 2.5   | 4.0  | 6.5  | 10   | 15   | 25   |

Acceptable Quality Levels (tightened inspection)

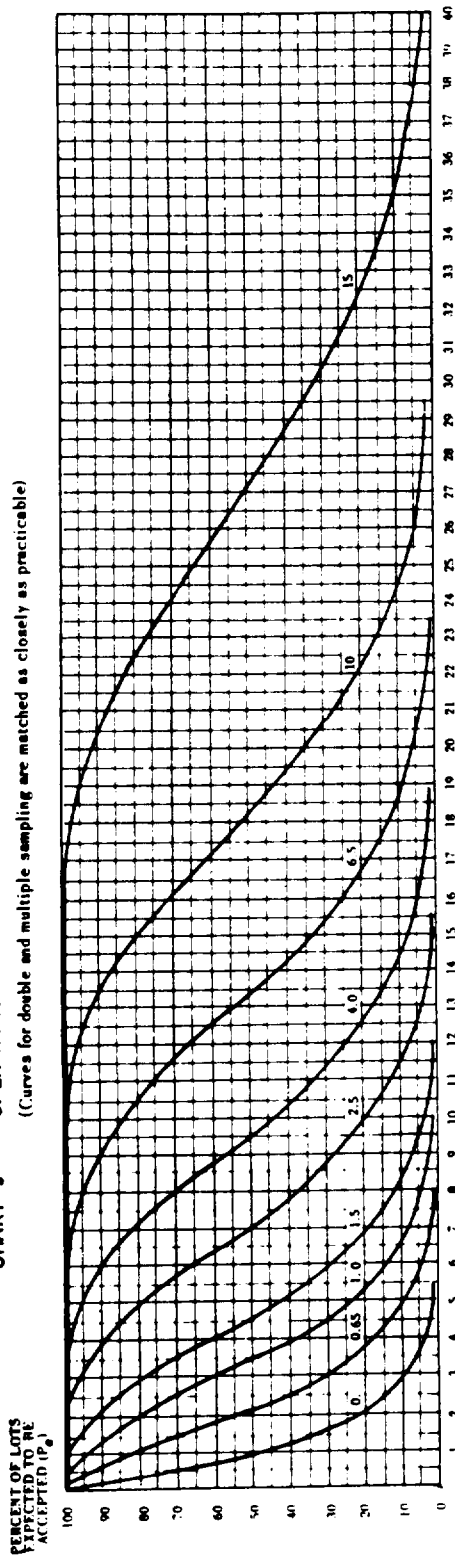
Note: Binomial distribution used for percent defective computations; Poisson for defects per hundred units.

Δ = 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  
 Rfe = Rejection number  
 \* = Use single sampling plan above (or alternatively use letter L).  
 † = Acceptance not permitted at this sample size.

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 matched as closely as practicable)



QUALITY OF SUBMITTED LOTS (p, in percent defective for AQL's  $\leq 10$ ; 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 <sub>a</sub> | Acceptable Quality Levels (normal inspection) |       |       |      |      |      |      |      |      |      |                                  |       |       |      |      |      |      |      |      |      |      |      |
|----------------|---|-------|-------|------|------|------|------|------|------|------|----------------------------------|-------|-------|------|------|------|------|------|------|------|------|------|
|                | p (in percent defective)                      |       |       |      |      |      |      |      |      |      | p (in defects per hundred units) |       |       |      |      |      |      |      |      |      |      |      |
|                | 0.15  | 0.65  | 1.0   | 1.5  | 2.5  | 4.0  | 6.5  | 10   | 0.15 | 0.65 | 1.0                              | 1.5   | 2.5   | 4.0  | 6.5  | 10   | 15   |      |      |      |      |      |
| 99.0           | 0.013   | 0.188 | 0.550 | 1.05 | 2.30 | 3.72 | 4.50 | 6.13 | 7.88 | 9.75 | 0.013                            | 0.186 | 0.545 | 1.03 | 2.23 | 3.63 | 4.38 | 5.96 | 7.62 | 9.35 | 12.9 | 15.7 |
| 95.0           | 0.064   | 0.444 | 1.03  | 1.73 | 3.32 | 5.06 | 5.98 | 7.91 | 9.89 | 11.9 | 0.064                            | 0.444 | 1.02  | 1.71 | 3.27 | 4.98 | 5.87 | 7.71 | 9.61 | 11.6 | 15.6 | 18.6 |
| 90.0           | 0.132   | 0.666 | 1.38  | 2.20 | 3.98 | 5.91 | 6.91 | 8.95 | 11.0 | 13.2 | 0.131                            | 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   | 1.202 | 2.16  | 3.18 | 5.30 | 7.50 | 8.62 | 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           | 0.861   | 2.09  | 3.33  | 4.57 | 7.06 | 9.55 | 10.8 | 13.3 | 15.8 | 18.3 | 0.866                            | 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  | 6.31 | 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 | 21.8 | 27.2 | 31.2 |
| 10.0           | 2.84  | 4.78  | 6.52  | 8.16 | 11.3 | 14.2 | 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  | 5.80  | 7.66  | 9.39 | 12.7 | 15.8 | 17.3 | 20.3 | 23.2 | 26.0 | 3.75                             | 5.93  | 7.87  | 9.69 | 13.1 | 16.4 | 18.0 | 21.2 | 24.3 | 27.4 | 33.4 | 37.8 |
| 1.0            | 5.59  | 8.00  | 10.1  | 12.0 | 15.6 | 18.9 | 20.5 | 23.6 | 26.5 | 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   | 25   | 0.25                             | 1.0   | 1.5   | 2.5  | 4.0  | 6.5  | 10   | 15   | 20   | 25   | 30   | 35   |
|                |   |       |       |      |      |      |      |      |      |      |                                  |       |       |      |      |      |      |      |      |      |      |      |

| Acceptable Quality Levels (tightened inspection) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

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

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

| Type of sampling plan | Cumulative sample size | Acceptable Quality Levels (normal inspection) |      |      |      |        |     |     |     |     |     |    |    |                |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | Case-lative sample size |    |    |    |    |    |    |    |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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|                       |                        | Less than 0.15                                | 0.15 | 0.25 | 0.40 | 0.65   | 1.0 | 1.5 | 2.5 | 4.0 | 6.5 | 10 | 15 | Higher than 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 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Single                | 80                     | ▽   | 0    | 1    |      | Use    | Ac  | Re  | Ac  | Re  | Ac  | Re | Ac | Re             | Ac | Re | Ac | Re | Ac | Re | Ac | Re | Ac | Re | Ac | Re | Ac | Re | Ac | Re                      | △  |    |    |    |    |    |    |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                       |                        |   |      |      |      |        |     |     |     |     |     |    |    |                |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |                         |    |    |    |    |    |    |    |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Double                | 50                     | ▽   | •    |      | Use  | Letter | Ac  | Re  | Ac  | Re  | Ac  | Re | Ac | Re             | Ac | Re | Ac | Re | Ac | Re | Ac | Re | Ac | Re | Ac | Re | Ac | Re | Ac | Re                      | △  |    |    |    |    |    |    |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                       | 100                    |   |      |      |      |        |     |     |     |     |     |    |    |                |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |                         |    |    |    |    |    |    |    |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

△ = 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 letter M)

# = Acceptance not permitted at this sample size.

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)

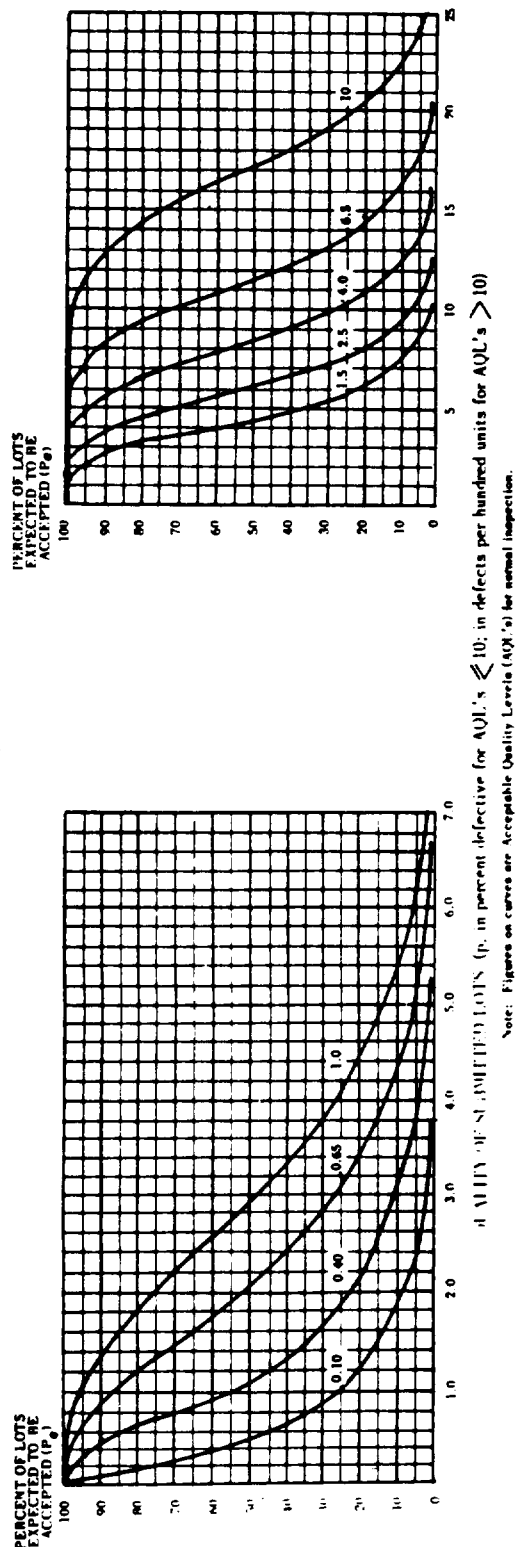


TABLE X-K-1 - TABULATED VALUES FOR OPERATING CHARACTERISTIC CURVES FOR SINGLE SAMPLING PLANS

| $P_d$ | 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  | 0.0081  | 0.119 | 0.349 | 0.658 | 1.43 | 2.33 | 2.81 | 4.88 | 5.98 | 8.28 |
| 95.0  | 0.0410  | 0.284 | 0.654 | 1.09  | 2.09 | 3.19 | 3.76 | 6.15 | 7.40 | 9.95 |
| 90.0  | 0.0840  | 0.426 | 0.882 | 1.40  | 2.52 | 3.73 | 4.35 | 6.92 | 8.24 | 10.9 |
| 75.0  | 0.230   | 0.769 | 0.382 | 2.03  | 3.38 | 4.77 | 5.47 | 8.34 | 9.79 | 12.7 |
| 50.0  | 0.554   | 1.34  | 2.14  | 2.94  | 4.54 | 6.14 | 6.94 | 10.1 | 11.7 | 14.9 |
| 25.0  | 1.11  | 2.15  | 3.14  | 4.09  | 5.94 | 7.75 | 8.64 | 12.2 | 13.9 | 17.4 |
| 10.0  | 1.84  | 3.11  | 4.26  | 5.35  | 7.42 | 9.42 | 10.4 | 14.2 | 16.1 | 19.8 |
| 5.0   | 2.40  | 3.80  | 5.04  | 6.20  | 8.41 | 10.5 | 11.5 | 15.6 | 17.5 | 21.4 |
| 1.0   | 3.66  | 5.31  | 6.73  | 8.04  | 10.5 | 12.8 | 18.3 | 20.4 | 24.5 | 27.5 |
|       | 0.15  | 0.65  | 1.0   | 1.5   | 2.5  | 4.0  | 6.5  | 10   | 10   | 10   |
|       | Acceptable Quality Levels (tightened inspection)        |       |       |       |      |      |      |      |      |      |

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



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

| Type of sampling plan | Cumulative sample size | Acceptable Quality Levels (normal inspection) |      |      |      |      |     |      |     |      |     |     |                |     |    |     |    |     |    |     |    |    |    |                |    | Cumulative sample size |           |    |
|-----------------------|------------------------|---|------|------|------|------|-----|------|-----|------|-----|-----|----------------|-----|----|-----|----|-----|----|-----|----|----|----|----------------|----|------------------------|-----------|----|
|                       |                        | 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 |    | Higher than 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 |
|                       |                        |   | 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    |      |      |     |      |     |      |     |     |                |     |    |     |    |     |    |     |    |    |    |                |    | △                      | 125       |    |
|                       | 80<br>160              | ▽   | •    |      |      |      |     |      |     |      |     |     |                |     |    |     |    |     |    |     |    |    |    |                |    | △                      | 80<br>160 |    |
| Multiple              | 32                     | ▽   | •    |      |      |      |     |      |     |      |     |     |                |     |    |     |    |     |    |     |    |    |    |                |    | △                      | 32        |    |
|                       | 64                     |   |      |      |      |      |     |      |     |      |     |     |                |     |    |     |    |     |    |     |    |    |    |                |    |                        | 64        |    |
|                       | 96                     |   |      |      |      |      |     |      |     |      |     |     |                |     |    |     |    |     |    |     |    |    |    |                |    |                        | 96        |    |
|                       | 128                    |   |      |      |      |      |     |      |     |      |     |     |                |     |    |     |    |     |    |     |    |    |    |                |    |                        | 128       |    |
|                       | 160                    |   |      |      |      |      |     |      |     |      |     |     |                |     |    |     |    |     |    |     |    |    |    |                |    |                        | 160       |    |
|                       | 192                    |   |      |      |      |      |     |      |     |      |     |     |                |     |    |     |    |     |    |     |    |    |    |                |    |                        | 192       |    |
| 224                   |                        |   |      |      |      |      |     |      |     |      |     |     |                |     |    |     |    |     |    |     |    |    |    |                |    | 224                    |           |    |
|                       |                        | 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 |     |    |     |    |     |    |     |    |    |    |                |    |                        |           |    |
|                       |                        | 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        |    |

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 letter N).

# = Acceptance not permitted at this sample size.

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 matched as closely as practicable)

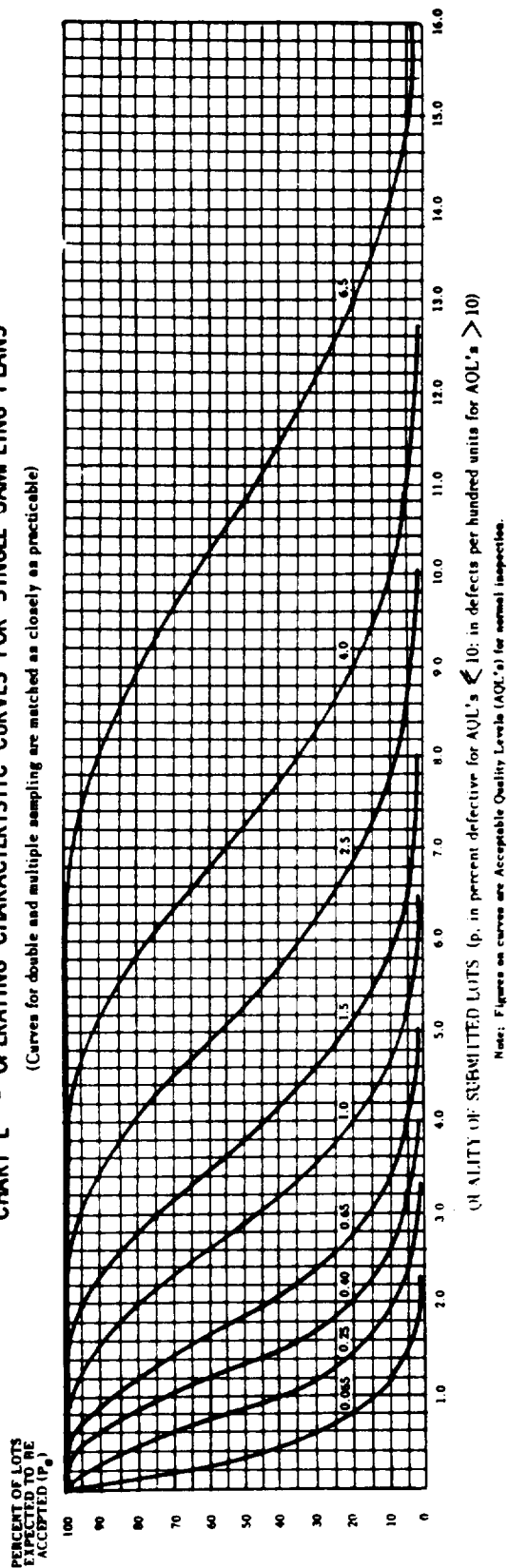


TABLE X-L-1 - TABULATED VALUES FOR OPERATING CHARACTERISTIC CURVES FOR SINGLE SAMPLING PLANS

| P <sub>a</sub> | Acceptable Quality Levels (normal inspection)         |       |       |       |       |      |      |      |      |      |      |
|----------------|---|-------|-------|-------|-------|------|------|------|------|------|------|
|                | 0.065   | 0.25  | 0.40  | 0.65  | 1.0   | 1.5  | 2.5  | 4.0  | 6.5  | 10.0 | 15.0 |
|                | p (in percent defective or defects per hundred units) |       |       |       |       |      |      |      |      |      |      |
| 99.0           | 0.0051  | 0.075 | 0.218 | 0.412 | 0.693 | 1.45 | 1.75 | 2.39 | 3.05 | 3.74 | 5.17 |
| 95.0           | 0.0256  | 0.178 | 0.409 | 0.683 | 1.31  | 1.99 | 2.35 | 3.09 | 3.85 | 4.62 | 6.22 |
| 90.0           | 0.0525  | 0.266 | 0.551 | 0.873 | 1.58  | 2.33 | 2.72 | 3.51 | 4.32 | 5.15 | 6.84 |
| 75.0           | 0.144   | 0.481 | 0.864 | 1.27  | 2.11  | 2.98 | 3.42 | 4.31 | 5.21 | 6.12 | 7.95 |
| 50.0           | 0.347   | 0.839 | 1.34  | 1.84  | 2.84  | 3.84 | 4.33 | 5.33 | 6.33 | 7.33 | 9.33 |
| 25.0           | 0.693   | 1.35  | 1.96  | 2.56  | 3.71  | 4.84 | 5.40 | 6.51 | 7.61 | 8.70 | 10.9 |
| 10.0           | 1.15  | 1.95  | 2.66  | 3.34  | 4.64  | 5.89 | 6.50 | 7.70 | 8.89 | 10.1 | 12.4 |
| 5.0            | 1.50  | 2.37  | 3.15  | 3.88  | 5.26  | 6.57 | 7.22 | 8.48 | 9.72 | 10.9 | 13.3 |
| 1.0            | 2.30  | 3.32  | 4.20  | 5.02  | 6.55  | 8.00 | 8.70 | 10.1 | 11.4 | 12.7 | 15.3 |
| 0.10           | 0.10  | 0.40  | 0.65  | 1.0   | 1.5   | 2.5  | 4.0  | 6.5  | 10.0 | 15.0 | 25.0 |
|                | Acceptable Quality Levels (tightened inspection)      |       |       |       |       |      |      |      |      |      |      |
|                | 0.065   | 0.25  | 0.40  | 0.65  | 1.0   | 1.5  | 2.5  | 4.0  | 6.5  | 10.0 | 15.0 |
|                | p (in percent defective or defects per hundred units) |       |       |       |       |      |      |      |      |      |      |
| 99.0           | 0.0051  | 0.075 | 0.218 | 0.412 | 0.693 | 1.45 | 1.75 | 2.39 | 3.05 | 3.74 | 5.17 |
| 95.0           | 0.0256  | 0.178 | 0.409 | 0.683 | 1.31  | 1.99 | 2.35 | 3.09 | 3.85 | 4.62 | 6.22 |
| 90.0           | 0.0525  | 0.266 | 0.551 | 0.873 | 1.58  | 2.33 | 2.72 | 3.51 | 4.32 | 5.15 | 6.84 |
| 75.0           | 0.144   | 0.481 | 0.864 | 1.27  | 2.11  | 2.98 | 3.42 | 4.31 | 5.21 | 6.12 | 7.95 |
| 50.0           | 0.347   | 0.839 | 1.34  | 1.84  | 2.84  | 3.84 | 4.33 | 5.33 | 6.33 | 7.33 | 9.33 |
| 25.0           | 0.693   | 1.35  | 1.96  | 2.56  | 3.71  | 4.84 | 5.40 | 6.51 | 7.61 | 8.70 | 10.9 |
| 10.0           | 1.15  | 1.95  | 2.66  | 3.34  | 4.64  | 5.89 | 6.50 | 7.70 | 8.89 | 10.1 | 12.4 |
| 5.0            | 1.50  | 2.37  | 3.15  | 3.88  | 5.26  | 6.57 | 7.22 | 8.48 | 9.72 | 10.9 | 13.3 |
| 1.0            | 2.30  | 3.32  | 4.20  | 5.02  | 6.55  | 8.00 | 8.70 | 10.1 | 11.4 | 12.7 | 15.3 |
| 0.10           | 0.10  | 0.40  | 0.65  | 1.0   | 1.5   | 2.5  | 4.0  | 6.5  | 10.0 | 15.0 | 25.0 |

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) |       |        |        |      |      |      |     |       |       |       |       |                 |       |       |    |     | Cumulative sample size |
|--|------------------------|---|-------|--------|--------|------|------|------|-----|-------|-------|-------|-------|-----------------|-------|-------|----|-----|------------------------|
|  |                        | 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   | Higher than 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    | Ac    | Re    | Ac              | Re    |       |    |     |                        |
| Single   | 200                    | ▽   | 0 1   |        |        | 1 2  | 2 3  | 3 4  | 5 6 | 7 8   | 8 9   | 10 11 | 12 13 | 14 15           | 18 19 | 21 22 | △  | 200 |                        |
|  |                        |   |       |        |        |      |      |      |     |       |       |       |       |                 |       |       |    |     |                        |
| Double   | 125                    | ▽   | •     |        | Use    | 0 2  | 0 3  | 1 4  | 2 5 | 3 7   | 3 7   | 5 9   | 6 10  | 7 11            | 9 14  | 11 16 | △  | 125 |                        |
|  | 250                    |   |       | Letter | Letter | 1 2  | 3 4  | 4 5  | 6 7 | 8 9   | 11 12 | 12 13 | 15 16 | 18 19           | 23 24 | 26 27 |    | 250 |                        |
| Multiple   | 50                     | ▽   | •     |        |        | •    | 2 •  | • 3  | • 4 | 0 4   | 0 4   | 0 5   | 0 6   | 1 7             | 1 8   | 2 9   | △  | 50  |                        |
|  | 100                    |   |       |        |        | •    | 2 0  | 3 0  | 3 1 | 5 1   | 6 2   | 7 3   | 8 3   | 9 4             | 10 6  | 12 7  | 14 | 100 |                        |
|  | 150                    |   |       |        |        | 0    | 2 0  | 3 1  | 4 2 | 6 3   | 8 4   | 9 6   | 10 7  | 12 8            | 13 11 | 17 13 | 19 | 150 |                        |
|  | 200                    |   |       |        |        | 0    | 3 1  | 4 2  | 5 3 | 7 5   | 10 6  | 11 8  | 13 10 | 15 12           | 17 16 | 22 19 | 25 | 200 |                        |
|  | 250                    |   |       |        |        | 1    | 3 2  | 4 3  | 6 5 | 8 7   | 11 9  | 12 11 | 15 14 | 17 20           | 22 25 | 29 25 |    | 250 |                        |
|  | 300                    |   |       |        |        | 1    | 3 3  | 5 4  | 7 6 | 10 12 | 12 14 | 14 17 | 18 20 | 21 23           | 27 29 | 31 33 |    | 300 |                        |
|  | 350                    |   |       |        |        | 2    | 3 4  | 5 6  | 7 9 | 10 13 | 14 15 | 18 19 | 21 22 | 25 26           | 32 33 | 37 38 |    | 350 |                        |
|  |                        | Less than 0.10                                | 0.10  | △      | 0.15   | 0.25 | 0.40 | 0.65 | 1.0 | 1.5   | 2.5   | 4.0   | 6.5   | 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

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

• = Acceptance not permitted at this sample size.

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)

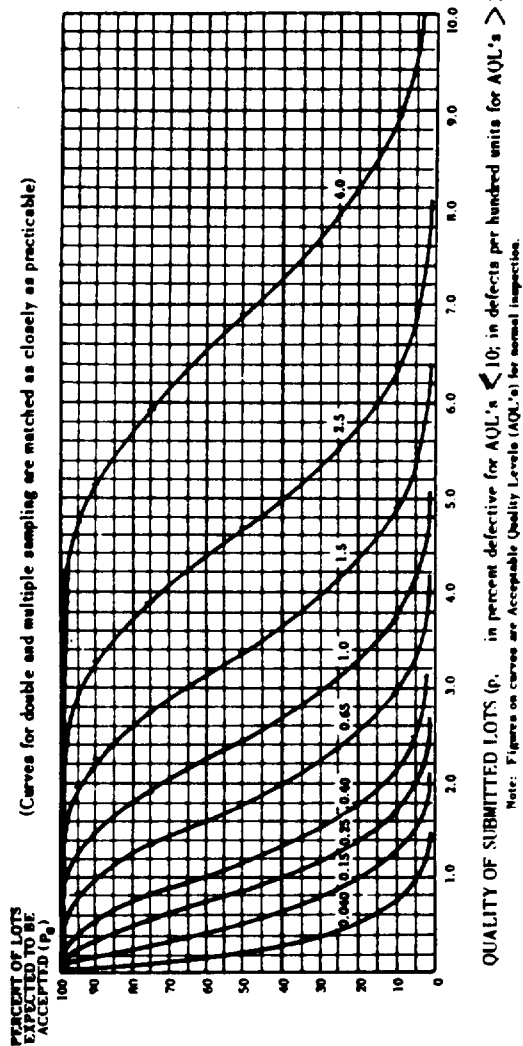


TABLE X-M-1 - TABULATED VALUES FOR OPERATING CHARACTERISTIC CURVES FOR SINGLE SAMPLING PLANS

| $P_o$  | Acceptable Quality Levels (normal inspection) |       |       |       |       |       |      |      |      |      |      |
|--|---|-------|-------|-------|-------|-------|------|------|------|------|------|
|  | 0.040   | 0.15  | 0.25  | 0.40  | 0.65  | 1.0   | 1.5  | 2.5  | 4.0  | 2.5  | 4.0  |
| $p$ (in percent defective or in defects per hundred units) |   |       |       |       |       |       |      |      |      |      |      |
| 99.0   | 0.0032  | 0.047 | 0.138 | 0.261 | 0.566 | 0.922 | 1.11 | 1.51 | 1.94 | 2.38 | 3.28 |
| 95.0   | 0.0163  | 0.112 | 0.259 | 0.433 | 0.829 | 1.26  | 1.49 | 1.96 | 2.44 | 2.94 | 3.95 |
| 90.0   | 0.0333  | 0.168 | 0.349 | 0.533 | 1.00  | 1.48  | 1.72 | 2.23 | 2.75 | 3.27 | 4.34 |
| 75.0   | 0.0914  | 0.305 | 0.590 | 0.804 | 1.34  | 1.89  | 2.17 | 2.74 | 3.31 | 3.89 | 5.05 |
| 50.0   | 0.220   | 0.532 | 0.848 | 1.17  | 1.80  | 2.43  | 2.75 | 3.39 | 4.02 | 4.66 | 5.93 |
| 25.0   | 0.440   | 0.854 | 1.24  | 1.62  | 2.36  | 3.07  | 3.43 | 4.13 | 4.83 | 5.52 | 6.88 |
| 10.0   | 0.731   | 1.23  | 1.69  | 2.12  | 2.94  | 3.74  | 4.13 | 4.89 | 5.65 | 6.39 | 7.92 |
| 5.0  | 0.951   | 1.51  | 2.00  | 2.46  | 3.34  | 4.17  | 4.58 | 5.38 | 6.17 | 6.95 | 8.95 |
| 1.0  | 1.46  | 2.11  | 2.67  | 3.19  | 4.16  | 5.08  | 5.53 | 6.40 | 7.25 | 8.08 | 10.9 |
| 0.065  | 0.25  | 0.40  | 0.65  | 1.0   | 1.5   | 2.5   | 4.0  | 6.0  | 9.0  | 13.0 | 20.0 |
| Acceptable Quality Levels (tightened inspection)           |   |       |       |       |       |       |      |      |      |      |      |
| 99.0   | 0.0032  | 0.047 | 0.138 | 0.261 | 0.566 | 0.922 | 1.11 | 1.51 | 1.94 | 2.38 | 3.28 |
| 95.0   | 0.0163  | 0.112 | 0.259 | 0.433 | 0.829 | 1.26  | 1.49 | 1.96 | 2.44 | 2.94 | 3.95 |
| 90.0   | 0.0333  | 0.168 | 0.349 | 0.533 | 1.00  | 1.48  | 1.72 | 2.23 | 2.75 | 3.27 | 4.34 |
| 75.0   | 0.0914  | 0.305 | 0.590 | 0.804 | 1.34  | 1.89  | 2.17 | 2.74 | 3.31 | 3.89 | 5.05 |
| 50.0   | 0.220   | 0.532 | 0.848 | 1.17  | 1.80  | 2.43  | 2.75 | 3.39 | 4.02 | 4.66 | 5.93 |
| 25.0   | 0.440   | 0.854 | 1.24  | 1.62  | 2.36  | 3.07  | 3.43 | 4.13 | 4.83 | 5.52 | 6.88 |
| 10.0   | 0.731   | 1.23  | 1.69  | 2.12  | 2.94  | 3.74  | 4.13 | 4.89 | 5.65 | 6.39 | 7.92 |
| 5.0  | 0.951   | 1.51  | 2.00  | 2.46  | 3.34  | 4.17  | 4.58 | 5.38 | 6.17 | 6.95 | 8.95 |
| 1.0  | 1.46  | 2.11  | 2.67  | 3.19  | 4.16  | 5.08  | 5.53 | 6.40 | 7.25 | 8.08 | 10.9 |
| 0.065  | 0.25  | 0.40  | 0.65  | 1.0   | 1.5   | 2.5   | 4.0  | 6.0  | 9.0  | 13.0 | 20.0 |

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 | Cams-lative sample size | Acceptable Quality Levels (normal inspection)    |       |    |       |    |      |    |      |    |      |    |      |    |      |    |     |    |     |    |     |    |     |    |                 |    |    |    |  | Cams-lative 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 | Ac  | Re | Ac  | Re | Ac  | Re | Ac              | Re | Ac | Re |  |                         |  |
| Single                | 315                     | ▽  | 0     | 1  |       |    |      |    |      |    |      |    |      |    |      |    |     |    |     |    |     |    |     |    |                 |    |    |    |  | △                       |  |
| Double                | 200                     | ▽  | *     |    |       |    |      |    |      |    |      |    |      |    |      |    |     |    |     |    |     |    |     |    |                 |    |    |    |  | △                       |  |
|                       | 400                     |  |       |    |       |    |      |    |      |    |      |    |      |    |      |    |     |    |     |    |     |    |     |    |                 |    |    |    |  |                         |  |
| Multiple              | 80                      | ▽  | *     |    |       |    |      |    |      |    |      |    |      |    |      |    |     |    |     |    |     |    |     |    |                 |    |    |    |  | △                       |  |
|                       | 160                     |  |       |    |       |    |      |    |      |    |      |    |      |    |      |    |     |    |     |    |     |    |     |    |                 |    |    |    |  |                         |  |
|                       | 240                     |  |       |    |       |    |      |    |      |    |      |    |      |    |      |    |     |    |     |    |     |    |     |    |                 |    |    |    |  |                         |  |
|                       | 320                     |  |       |    |       |    |      |    |      |    |      |    |      |    |      |    |     |    |     |    |     |    |     |    |                 |    |    |    |  |                         |  |
|                       | 400                     |  |       |    |       |    |      |    |      |    |      |    |      |    |      |    |     |    |     |    |     |    |     |    |                 |    |    |    |  |                         |  |
|                       | 480                     |  |       |    |       |    |      |    |      |    |      |    |      |    |      |    |     |    |     |    |     |    |     |    |                 |    |    |    |  |                         |  |
| 560                   |                         |  |       |    |       |    |      |    |      |    |      |    |      |    |      |    |     |    |     |    |     |    |     |    |                 |    |    |    |  |                         |  |
|                       |                         | Less than 0.065                                  | 0.065 |    |       |    |      |    |      |    |      |    |      |    |      |    |     |    |     |    |     |    |     |    |                 |    |    |    |  | 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 letter Q).

# = Acceptance not permitted at this sample size.

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

CHART N - OPERATING CHARACTERISTIC CURVES FOR SINGLE SAMPLING PLANS

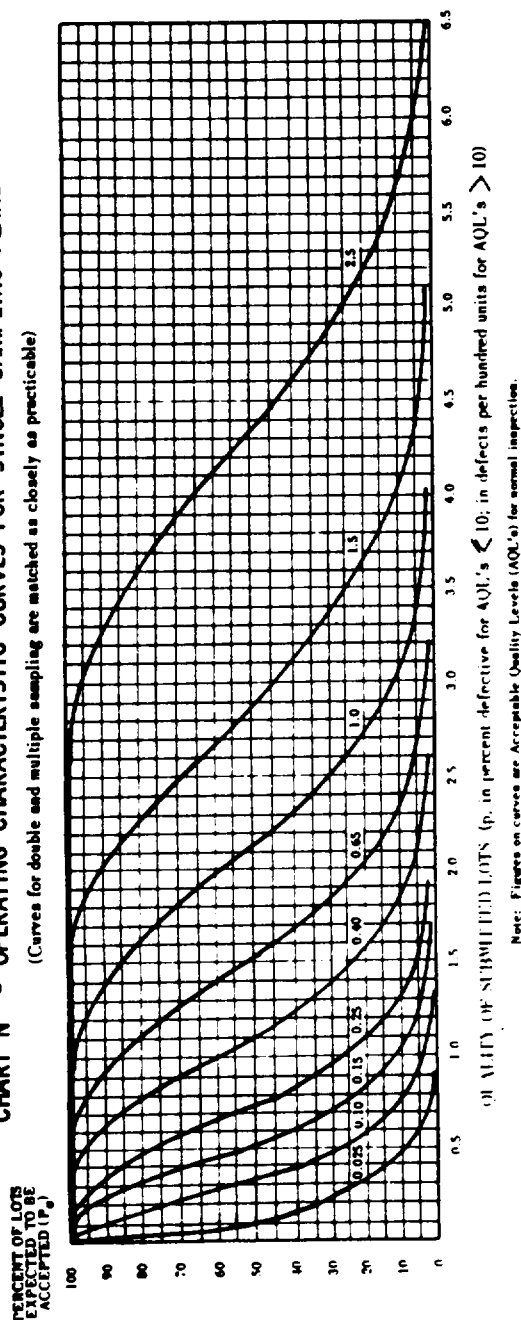


TABLE X-N-1 - TABULATED VALUES FOR OPERATING CHARACTERISTIC CURVES FOR SINGLE SAMPLING PLANS

| P <sub>a</sub>                                   | Acceptable Quality Levels (normal inspection)            |       |       |       |       |       |       |       |      |      |      |      |
|--|--|-------|-------|-------|-------|-------|-------|-------|------|------|------|------|
|  | 0.025  | 0.10  | 0.15  | 0.25  | 0.40  | 0.65  | 1.0   | 1.54  | 2.06 | 2.32 | 2.51 | 2.98 |
|  | p (in percent defective or in defects per hundred units) |       |       |       |       |       |       |       |      |      |      |      |
| 99.0   | 0.0020   | 0.030 | 0.087 | 0.165 | 0.357 | 0.581 | 0.701 | 0.954 | 1.22 | 1.50 | 2.07 | 2.51 |
| 95.0   | 0.0103   | 0.071 | 0.164 | 0.273 | 0.523 | 0.796 | 0.939 | 1.23  | 1.54 | 1.85 | 2.49 | 2.98 |
| 90.0   | 0.0210   | 0.106 | 0.220 | 0.349 | 0.630 | 0.931 | 1.09  | 1.40  | 1.73 | 2.06 | 2.73 | 3.25 |
| 75.0   | 0.0576   | 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 | 0.784 | 1.02  | 1.48  | 1.94  | 2.16  | 2.60  | 3.04 | 3.48 | 4.35 | 4.99 |
| 10.0   | 0.461  | 0.778 | 1.06  | 1.34  | 1.86  | 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  | 1.328 | 1.68  | 2.01  | 2.62  | 3.20  | 3.48  | 4.03  | 4.56 | 5.09 | 6.12 | 6.87 |
| 0.040  | 0.15   | 0.25  | 0.40  | 0.65  | 1.0   | 1.54  | 2.06  | 2.32  | 2.51 | 2.98 | 3.25 | 3.74 |
| 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                            | Cumulative sample size | Acceptable Quality Levels (normal inspection) |       |       |       |      |      |      |      |      |     |     |     |                 |    |    |    |    |    |    |    |    |    |    |    |    |    |     |    | Cumulative sample size |    |    |    |    |                 |    |    |    |    |
|--|------------------------|---|-------|-------|-------|------|------|------|------|------|-----|-----|-----|-----------------|----|----|----|----|----|----|----|----|----|----|----|----|----|-----|----|------------------------|----|----|----|----|-----------------|----|----|----|----|
|  |                        | Less than 0.025                               | 0.025 | 0.040 | 0.065 | 0.10 | 0.15 | 0.25 | 0.40 | 0.65 | 1.0 | 1.5 | 2.5 | Higher than 2.5 |    |    |    |    |    |    |    |    |    |    |    |    |    |     |    |                        |    |    |    |    |                 |    |    |    |    |
|  |                        |   |       |       |       |      |      |      |      |      |     |     |     |                 | 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   | 500                    | ▽   | 0     | 1     |       |      |      |      |      |      |     |     |     |                 |    |    |    |    |    |    |    |    |    |    |    |    |    |     |    |                        |    |    | △  |    |                 |    |    |    |    |
|  |                        |   |       |       |       |      |      |      |      |      |     |     |     |                 |    |    |    |    |    |    |    |    |    |    |    |    |    |     |    |                        |    |    |    |    |                 |    |    |    |    |
| Double   | 315<br>630             | ▽   | •     |       |       |      |      |      |      |      |     |     |     |                 |    |    |    |    |    |    |    |    |    |    |    |    |    |     |    |                        |    |    |    | △  |                 |    |    |    |    |
|  |                        |   |       |       |       |      |      |      |      |      |     |     |     |                 |    |    |    |    |    |    |    |    |    |    |    |    |    |     |    |                        |    |    |    |    |                 |    |    |    |    |
| Multiple   | 125                    | ▽   | •     |       |       |      |      |      |      |      |     |     |     |                 |    |    |    |    |    |    |    |    |    |    |    |    |    |     |    |                        |    |    |    | △  |                 |    |    |    |    |
|  | 250                    |   |       |       |       |      |      |      |      |      |     |     |     |                 |    |    |    |    |    |    |    |    |    |    |    |    |    |     |    |                        |    |    |    |    |                 |    |    |    |    |
|  | 375                    |   |       |       |       |      |      |      |      |      |     |     |     |                 |    |    |    |    |    |    |    |    |    |    |    |    |    |     |    |                        |    |    |    |    |                 |    |    |    |    |
|  | 500                    |   |       |       |       |      |      |      |      |      |     |     |     |                 |    |    |    |    |    |    |    |    |    |    |    |    |    |     |    |                        |    |    |    |    |                 |    |    |    |    |
|  | 625                    |   |       |       |       |      |      |      |      |      |     |     |     |                 |    |    |    |    |    |    |    |    |    |    |    |    |    |     |    |                        |    |    |    |    |                 |    |    |    |    |
|  | 750                    |   |       |       |       |      |      |      |      |      |     |     |     |                 |    |    |    |    |    |    |    |    |    |    |    |    |    |     |    |                        |    |    |    |    |                 |    |    |    |    |
|  | 875                    |   |       |       |       |      |      |      |      |      |     |     |     |                 |    |    |    |    |    |    |    |    |    |    |    |    |    |     |    |                        |    |    |    |    |                 |    |    |    |    |
|  |                        | Less than 0.040                               | 0.040 |       |       |      |      |      |      |      |     |     |     |                 |    |    |    |    |    |    |    |    |    |    |    |    |    |     |    |                        |    |    |    |    | Higher than 2.5 |    |    |    |    |
| Acceptable Quality Levels (tightened inspection) |                        |   |       |       |       |      |      |      |      |      |     |     |     |                 |    |    |    |    |    |    |    |    |    |    |    |    |    | 2.5 | △  |                        |    |    |    |    |                 |    |    |    |    |

△ = 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 letter R).

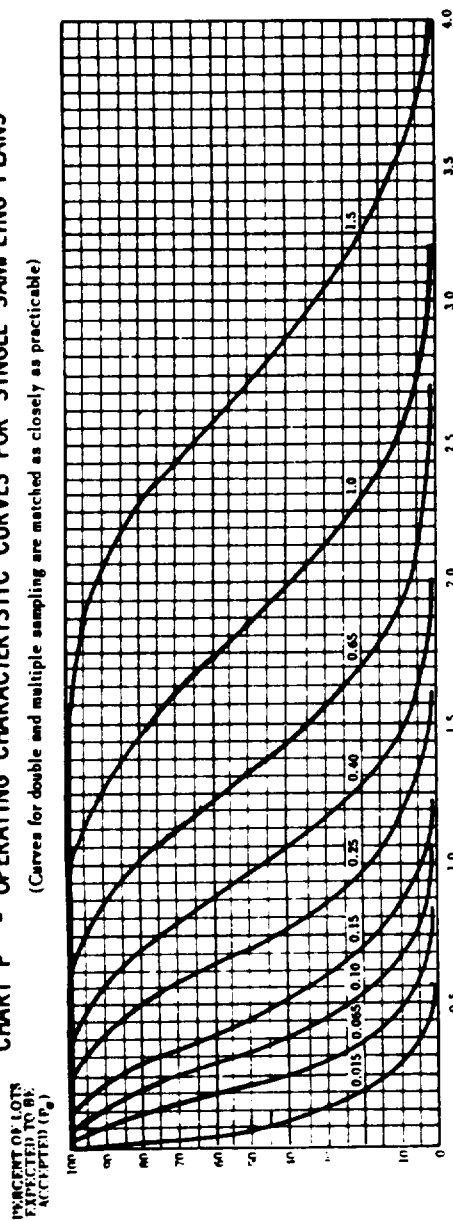
• = Acceptance not permitted at this sample size.

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)



QUALITY OF SUBMITTED LOTS (p in percent defective for AQL's  $\leq 10$ ; 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

| $P_a$   | Acceptable Quality Levels (normal inspection) |        |       |       |       |       |       |       |       |       |      |
|---|---|--------|-------|-------|-------|-------|-------|-------|-------|-------|------|
|   | 0.015   | 0.065  | 0.10  | 0.15  | 0.25  | 0.40  | 0.65  | 1.0   | 1.5   | 2.5   | 4.0  |
| p (in percent defective or defects per hundred units) |   |        |       |       |       |       |       |       |       |       |      |
| 99.0  | 0.0013  | 0.0186 | 0.055 | 0.103 | 0.223 | 0.363 | 0.438 | 0.596 | 0.762 | 0.935 | 1.29 |
| 95.0  | 0.0064  | 0.0444 | 0.102 | 0.171 | 0.327 | 0.498 | 0.587 | 0.771 | 0.961 | 1.16  | 1.56 |
| 90.0  | 0.0131  | 0.0665 | 0.138 | 0.218 | 0.394 | 0.582 | 0.679 | 0.878 | 1.08  | 1.29  | 1.71 |
| 75.0  | 0.0360  | 0.120  | 0.216 | 0.317 | 0.527 | 0.745 | 0.855 | 1.08  | 1.30  | 1.53  | 1.99 |
| 50.0  | 0.0866  | 0.210  | 0.334 | 0.459 | 0.709 | 0.959 | 1.08  | 1.33  | 1.58  | 1.83  | 2.33 |
| 25.0  | 0.173   | 0.337  | 0.490 | 0.639 | 0.928 | 1.21  | 1.35  | 1.63  | 1.90  | 2.18  | 2.72 |
| 10.0  | 0.288   | 0.486  | 0.665 | 0.835 | 1.16  | 1.47  | 1.62  | 1.93  | 2.22  | 2.52  | 3.09 |
| 5.0   | 0.375   | 0.593  | 0.787 | 0.969 | 1.31  | 1.64  | 1.80  | 2.12  | 2.43  | 2.74  | 3.34 |
| 1.0   | 0.576   | 0.830  | 1.05  | 1.26  | 1.64  | 2.00  | 2.18  | 2.52  | 2.85  | 3.18  | 3.82 |
| 0.025   | 0.10  | 0.10   | 0.15  | 0.25  | 0.40  | 0.65  | 1.0   | 1.5   | 2.5   | 4.0   | 6.5  |
| Acceptable Quality Levels (tightened inspection)      |   |        |       |       |       |       |       |       |       |       |      |
| 99.0  | 0.0013  | 0.0186 | 0.055 | 0.103 | 0.223 | 0.363 | 0.438 | 0.596 | 0.762 | 0.935 | 1.29 |
| 95.0  | 0.0064  | 0.0444 | 0.102 | 0.171 | 0.327 | 0.498 | 0.587 | 0.771 | 0.961 | 1.16  | 1.56 |
| 90.0  | 0.0131  | 0.0665 | 0.138 | 0.218 | 0.394 | 0.582 | 0.679 | 0.878 | 1.08  | 1.29  | 1.71 |
| 75.0  | 0.0360  | 0.120  | 0.216 | 0.317 | 0.527 | 0.745 | 0.855 | 1.08  | 1.30  | 1.53  | 1.99 |
| 50.0  | 0.0866  | 0.210  | 0.334 | 0.459 | 0.709 | 0.959 | 1.08  | 1.33  | 1.58  | 1.83  | 2.33 |
| 25.0  | 0.173   | 0.337  | 0.490 | 0.639 | 0.928 | 1.21  | 1.35  | 1.63  | 1.90  | 2.18  | 2.72 |
| 10.0  | 0.288   | 0.486  | 0.665 | 0.835 | 1.16  | 1.47  | 1.62  | 1.93  | 2.22  | 2.52  | 3.09 |
| 5.0   | 0.375   | 0.593  | 0.787 | 0.969 | 1.31  | 1.64  | 1.80  | 2.12  | 2.43  | 2.74  | 3.34 |
| 1.0   | 0.576   | 0.830  | 1.05  | 1.26  | 1.64  | 2.00  | 2.18  | 2.52  | 2.85  | 3.18  | 3.82 |
| 0.025   | 0.10  | 0.10   | 0.15  | 0.25  | 0.40  | 0.65  | 1.0   | 1.5   | 2.5   | 4.0   | 6.5  |

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) |       |       |       |       |      |       |      |       |     |      |                 |  |    |      |    |      |    |      |    |     |    |     |    | Cumulative sample size |                 |    |      |    |
|-----------------------|------------------------|---|-------|-------|-------|-------|------|-------|------|-------|-----|------|-----------------|--|----|------|----|------|----|------|----|-----|----|-----|----|------------------------|-----------------|----|------|----|
|                       |                        | 0.010   |       | 0.015 |       | 0.025 |      | 0.040 |      | 0.065 |     | 0.10 |                 | 0.15   |    | 0.25 |    | 0.40 |    | 0.65 |    | 1.0 |    | 1.5 |    |                        | Higher than 1.5 |    |      |    |
|                       |                        | Ac  | Re    | Ac    | Re    | Ac    | Re   | Ac    | Re   | Ac    | Re  | Ac   | Re              | Ac   | Re | Ac   | Re | Ac   | Re | Ac   | Re | Ac  | Re | Ac  | Re |                        | 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                | 800                    | ▽   | 0     | 1     |       |       |      |       |      |       |     |      |                 |  |    |      |    |      |    |      |    |     |    |     |    |                        |                 | △  | 800  |    |
|                       | 500                    | ▽   |       |       |       |       |      |       |      |       |     |      |                 |  |    |      |    |      |    |      |    |     |    |     |    |                        |                 | △  | 500  |    |
| Double                | 1000                   |   |       |       |       |       |      |       |      |       |     |      |                 |  |    |      |    |      |    |      |    |     |    |     |    |                        |                 |    | 1000 |    |
|                       | 200                    | ▽   |       |       |       |       |      |       |      |       |     |      |                 |  |    |      |    |      |    |      |    |     |    |     |    |                        |                 | △  | 200  |    |
| Multiple              | 400                    |   |       |       |       |       |      |       |      |       |     |      |                 |  |    |      |    |      |    |      |    |     |    |     |    |                        |                 |    | 400  |    |
|                       | 600                    |   |       |       |       |       |      |       |      |       |     |      |                 |  |    |      |    |      |    |      |    |     |    |     |    |                        |                 |    | 600  |    |
|                       | 800                    |   |       |       |       |       |      |       |      |       |     |      |                 |  |    |      |    |      |    |      |    |     |    |     |    |                        |                 |    | 800  |    |
|                       | 1000                   |   |       |       |       |       |      |       |      |       |     |      |                 |  |    |      |    |      |    |      |    |     |    |     |    |                        |                 |    | 1000 |    |
|                       | 1200                   |   |       |       |       |       |      |       |      |       |     |      |                 |  |    |      |    |      |    |      |    |     |    |     |    |                        |                 |    | 1200 |    |
|                       | 1400                   |   |       |       |       |       |      |       |      |       |     |      |                 |  |    |      |    |      |    |      |    |     |    |     |    |                        |                 |    | 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  | 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-R—Tables for sample size code letter: R

CHART R - OPERATING CHARACTERISTIC CURVES FOR SINGLE SAMPLING PLANS

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

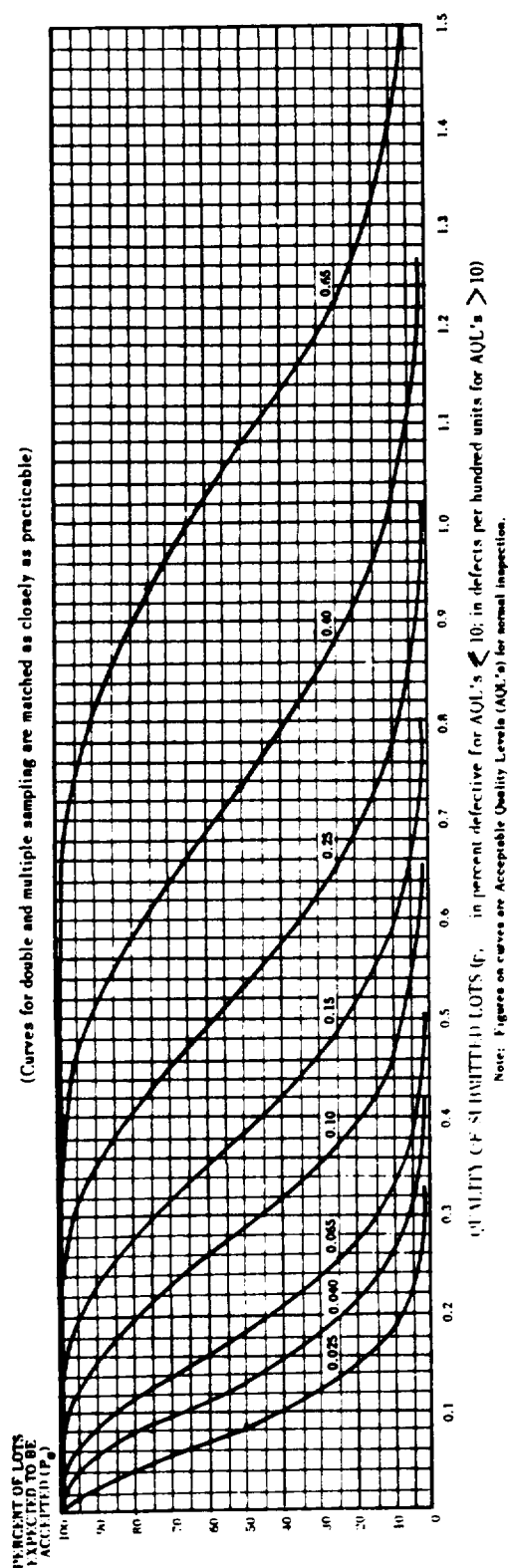


TABLE X-R-1 - TABULATED VALUES FOR OPERATING CHARACTERISTIC CURVES FOR SINGLE SAMPLING PLANS

| P <sub>a</sub>  | Acceptable Quality Levels (normal inspection) |        |        |        |       |       |       |       |       |       |
|---|---|--------|--------|--------|-------|-------|-------|-------|-------|-------|
|   | 0.025   | 0.040  | 0.065  | 0.10   | 0.15  | 0.25  | 0.40  | 0.65  | 1.0   | 1.5   |
| p (in percent defective or defects per hundred units) |   |        |        |        |       |       |       |       |       |       |
| 99.0  | 0.0074  | 0.0218 | 0.0412 | 0.0892 | 0.145 | 0.239 | 0.305 | 0.374 | 0.517 | 0.629 |
| 95.0  | 0.0178  | 0.0409 | 0.0683 | 0.131  | 0.199 | 0.309 | 0.385 | 0.462 | 0.622 | 0.745 |
| 90.0  | 0.0266  | 0.0551 | 0.0873 | 0.158  | 0.233 | 0.351 | 0.432 | 0.515 | 0.684 | 0.812 |
| 75.0  | 0.0481  | 0.0868 | 0.127  | 0.211  | 0.298 | 0.431 | 0.521 | 0.612 | 0.795 | 0.934 |
| 50.0  | 0.0839  | 0.134  | 0.184  | 0.284  | 0.384 | 0.533 | 0.633 | 0.733 | 0.933 | 1.08  |
| 25.0  | 0.115   | 0.196  | 0.256  | 0.371  | 0.484 | 0.651 | 0.761 | 0.870 | 1.09  | 1.25  |
| 10.0  | 0.195   | 0.266  | 0.334  | 0.464  | 0.589 | 0.770 | 0.889 | 1.01  | 1.24  | 1.41  |
| 5.0   | 0.237   | 0.315  | 0.388  | 0.526  | 0.657 | 0.848 | 0.972 | 1.09  | 1.33  | 1.51  |
| 1.0   | 0.332   | 0.420  | 0.502  | 0.655  | 0.800 | 1.02  | 1.14  | 1.27  | 1.53  | 1.72  |
|   | 0.040   | 0.065  | 0.10   | 0.15   | 0.25  | 0.40  | 0.65  | 1.0   | 1.5   | 2.0   |
| Acceptable Quality Levels (tightened inspection)      |   |        |        |        |       |       |       |       |       |       |

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

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

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

△ = 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 above.

• = Acceptance not permitted at this sample size.

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                    | #   | 2  |
|                       | 1600                   | #   | 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

# = Acceptance not permitted at this sample size.

*Index of terms with special meanings*

| <i>Term</i>                                 | <i>Paragraph</i> |
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