

Ante-mortem Inspection

OBJECTIVES

Upon completion of the ante-mortem inspection module the trainee will be able to:

1. Describe the following:
 - a. ante-mortem inspection
 - b. delayed slaughter ante-mortem inspection for livestock
 - c. voluntary segregation (previously referred to as alternative ante-mortem inspection) procedure for livestock
 - d. U.S. Suspect
 - e. U.S. Condemned
 - f. Non-ambulatory disabled
 - g. the reasons for ante-mortem inspection
2. Identify the establishment's responsibilities for:
 - a. livestock pens
 - b. U.S. Suspect pen for livestock
 - c. floors in livestock pens
 - d. assistance for ante-mortem livestock inspection
 - e. batteries or coops for ante-mortem poultry inspection
3. Identify the equipment and supplies that are needed to perform livestock ante-mortem inspection.
4. Describe the appropriate methods for conducting ante-mortem inspection:
 - a. for livestock
 - b. for poultry
5. Complete, given a list of information, the following in livestock inspection:
 - a. a pen card
 - b. FSIS Form 6150-1
 - c. FSIS Form 6200-16 (formerly MP Form 402-1)
6. Given a list describing methods used to dispose of a livestock carcass condemned on ante-mortem, select those methods that are approved by FSIS.

Ante-mortem Inspection

The term ante-mortem means “before death.” Ante-mortem inspection is the inspection of live animals and birds prior to being slaughtered. All livestock presented for slaughter by the establishment to which you are assigned must receive ante-mortem inspection. Ante-mortem inspection of poultry is performed on a lot basis. AM inspection is performed either by an FSIS PHV or a Food Inspector under veterinary supervision. However, if a Food Inspector performs AM inspection, the PHV must be notified of disease conditions that are observed.

Authorities

The Agency’s authority for conducting ante-mortem inspection can be traced to the statutes. The authority for conducting ante-mortem inspection in livestock is found in 21 U.S. Code (USC), Chapter 12, Section 603, of the Federal Meat Inspection Act (FMIA). The authority for conducting ante-mortem inspection in poultry is found in 21 USC, Chapter 10, Section 455(a), of the Poultry Products Inspection Act (PPIA).

The regulations covering ante-mortem inspection of livestock are found in Title 9 - Animals and Animal Products, Chapter III - Food Safety and Inspection Service, Department of Agriculture of the Code of Federal Regulations. Part 307.2 addresses the requirements for facilities for inspection. Part 309 covers ante-mortem inspection. Part 313 addresses the requirement for humane slaughter of livestock. Although we will cover the requirements for humane handling briefly, they are covered more extensively in the next module of this training.

The regulations covering ante-mortem inspection of poultry are found in Title 9 - Animals and Animal Products, Chapter III - Food Safety and Inspection Service, Department of Agriculture of the Code of Federal Regulations. Part 381.36(b) addresses the facilities for inspection. Parts 381.70 through 381.75 cover ante-mortem inspection.

There are some FSIS Directives and Notices related to ante-mortem inspection.

1. FSIS Directive 6000.1, “Responsibilities Related to Foreign Animal Diseases (FADs) and Reportable Conditions”
2. FSIS Directive 6020.1, Rev. 1, “Enhanced Inspection of Poultry in Response to a Notification of a Highly Pathogenic Avian Influenza Outbreak”
3. FSIS Directive 6100.1, Rev. 2, “Ante-mortem Livestock Inspection”
4. FSIS Directive 6100.3, “Ante-mortem and Post-mortem Poultry Inspection”
5. FSIS Directive 6170.1, “Ratite Ante-mortem and Post-mortem Inspection”
6. FSIS Directive 6240.1, Rev 2, “Inspection, Sampling, and Disposition of Animals for Tuberculosis”
7. FSIS Directive 6100.8, “Instructions for Verification of Improvest® Hogs”
8. FSIS Directive 6900.2, Rev. 2, “Humane Handling and Slaughter of Livestock”
9. FSIS Directive 9530.1, “Importation of Live Canadian Cattle, Sheep, and Goats into the United States”
10. FSIS Notice 66-16, “Requirements for the Disposition of Non-Ambulatory Disabled Veal Calves”

Remember, Directive and Notices are instructions to inspection personnel.

The statutes establish our authority to examine and inspect livestock and birds prior to slaughter. Under the statutes, we are to accept for slaughter only those animals and birds which are capable of producing products that are acceptable for use as human food. With this goal in mind, the purpose of ante-mortem inspection is to accept only those animals and birds that are healthful, safe from harmful chemical and drug residues, and capable of being converted into wholesome product for the consumer. Inspection of live animals and birds is a screening process to remove obviously diseased animals from the food supply prior to slaughter and to identify animals that require a more extensive postmortem examination by an FSIS PHV. It is the first line of defense in protecting the public from potentially harmful meat products. Those animals and birds that exhibit abnormal signs must be withheld from normal slaughter and segregated for closer examination.

Establishments are required to handle livestock humanely. When you are performing your ante-mortem duties, you will also make observations and document any noncompliance with the humane handling requirements. Be aware of this as we continue. We'll cover the humane handling requirements later.

Establishment responsibilities for facilities and conditions

The regulations identify requirements that the establishment must meet for maintaining facilities where ante-mortem inspection is to be conducted. You are responsible for verifying that the establishment has met the regulatory requirements for maintaining the facilities where ante-mortem inspection is to be conducted. The regulatory requirements for the establishment differ slightly from livestock to poultry. Let's review each of the requirements.

Livestock

The establishment's responsibilities for maintaining the premises where ante-mortem inspection is to be conducted for livestock are outlined in 9 CFR 307, which covers facilities for inspection, and in 313, the humane handling regulation. Let's review each of them. The pens must be satisfactory for conducting ante-mortem inspection, and maintained in a sanitary condition (307.2(a)). Pens must be kept clean and be well drained (307.2(a)). The pens, driveways, and ramps must be maintained in good repair and free from sharp objects that may cause injury or pain to animals (313.1(a)). The floors of pens, driveways, and ramps must be well constructed and maintained and provide good footing for animals (313.1(b)).

The lighting must be sufficient for inspection (307.2(b)). You will need to use your judgment in determining whether the light is adequate or not. The regulations do not specify any measurement or level of light that the establishment is required to provide. Suspect pens and restraining devices require more light because these are places where animals are more closely examined during inspection. The establishment must provide adequate areas for holding animals that are identified by FSIS as suspect and condemned (307.2(a)). These are typically designated as the suspect and condemned pens. Pens where suspect animals are held must be covered to protect them from adverse weather conditions (313.1(c)). Although it is not required by the regulations, some establishments may provide a covered area for inspection personnel to use while performing ante-mortem inspection in inclement weather. The establishment typically

also provides a restraining device such as a chute or squeeze gate for restraining animals and taking temperatures during the examination of animals.

The establishment is required to have an adequate system for the identification of animals presented for slaughter (307.2(a)). There is not a uniform method of presenting animals for ante-mortem inspection, but the establishment needs to do so in a manner that will allow IPP to document that ante-mortem inspection has been performed. The most commonly used way for establishments to meet this regulatory requirement is by using establishment identification cards, referred to as "pen cards" or "drive sheets". Although the pen cards themselves are non-regulatory in nature, they must be presented to the inspector before ante-mortem inspection is performed. The pen card or drive sheet should contain space to record the date and time of inspection, pen or lot number, number and slaughter class of animals presented, and IPP signature or initials. In most instances, the establishment will record the information directly on the card for you. However, you should check to see that the information is correct.

The regulations also require that establishments identify the carcass and parts with the animal from which they come (9 CFR 310.2 (a)), and that the establishment maintain records of the buyer and seller of livestock (9 CFR 320.1(b)(1)(iv)). Tags are typically used to maintain the identity of the carcass and its parts. Pen cards may be used to maintain a record of the buyer and seller of the livestock.

IPP are to periodically verify how accurately the establishment records the number of livestock presented for ante-mortem inspection. The frequency of this verification is determined by discussion between the PHV and FLS and is based on the establishment's history of accurately recording the number of livestock on the pen card or drive sheet. You should perform verification after the establishment has identified and presented livestock for ante-mortem inspection and have given the applicable pen card to you. If the count is accurate, the IPP can complete ante-mortem inspection. If the numbers are inaccurate, IPP are to ask management to correct the pen card and cross out the incorrect number. IPP are to initial the change and complete ante-mortem inspection. In rare cases that the establishment refuses to comply, the livestock would be retained and an NR would be documented under the Other Inspection Requirements, citing 9 CFR 307.2.

It is the responsibility of the establishment to provide adequate, competent employees to move, segregate, restrain, identify and dispose of animals (307.2(a)). Do not allow yourself to become the establishment foreman in the ante-mortem areas. You must closely monitor establishment personnel to assure that they use humane animal handling practices at all times. You must also observe safe principles, as large animals can be dangerous.

If the establishment has not met one or more of its responsibilities, you must take action. The action you may take will vary from withholding inspection of a single pen of animals until the pen is properly identified, or to withholding inspection of all animal pens because the establishment has failed to provide an employee to move and restrain the animals. There are more specific details for documenting noncompliance with the humane handling regulations that we will cover later.

Poultry

The establishment responsibilities for facilities and conditions for ante-mortem inspection of poultry are much simpler. The regulatory requirements identified in 9 CFR 381.36 state that the batteries, coops, or other facilities in which live poultry is presented for ante-mortem inspection shall be of such arrangement and construction, and shall be so placed with sufficient light provided so that the inspector can clearly see the birds to the extent needed to carry out adequate inspection. Remember that this inspection will be done on a lot basis while poultry are in the batteries or coops before or after their removal from trucks.

Supplies for performing ante-mortem inspection

The ante-mortem inspection of livestock takes place in the pens. Each animal must be observed. The following equipment and supplies are recommended for performing ante-mortem inspection for livestock. You should have access to a thermometer, U. S. Suspect and U. S. Condemn tags, tagging pliers and hog rings, and a pencil for writing. You may also want to have a pad of paper and a clipboard for taking notes. Many inspectors keep all of these items together in a kit that they keep under lock and key in the ante-mortem area or in the government office. Some of the items you will be commonly using are:

1. A thermometer- this is supplied by the establishment management. If you do not have one, or if the one you have is broken, request one from establishment management. You can also order one from the Beltsville Supply Center.
2. Pliers- the tagging pliers, commonly called "hog ringers"; the hog rings are used to attach the suspect and condemn tags to the animal's ear.
3. U.S. Suspect (silver) and U.S. Condemned (red) tags.
4. Ante-mortem Card- FSIS Form 6150-1 is used to record and track suspect and condemned animals.
5. FSIS Form 6502-1 (U. S. Reject/Retain Tag) is attached to areas such as livestock pens to show that they are rejected for use because they didn't meet FSIS requirements and therefore did not pass inspection.

Following ante-mortem inspection, you must record your findings. You will use the FSIS Form 6150-1 (Identification Tag-Ante-mortem), and may also use the FSIS Form 6200-16 (Summary of Ante-mortem Examination) at the discretion of the Frontline Supervisor, to record your ante-mortem findings. You will also record your findings on the pen card (a establishment form, discussed earlier). Remember that the pen card is a part of the procedure used to identify animals as having received ante-mortem inspection.

Observation

Livestock

Part 309 of the regulations covering livestock inspection states that, *"All livestock offered for slaughter in an official establishment shall be examined and inspected on the day of, and before, slaughter."* A few small-volume establishments are allowed exceptions to this rule, which will be discussed later. Part 309 goes on to say, *"Such ante-mortem inspection shall be made in pens on the premises of the establishment at which the*

livestock are offered for slaughter.” If the official establishment serves a dual purpose, such as a public stockyard or sale barn, as well as a slaughter facility, separate pens must be designated for animals presented for ante-mortem inspection and those destined for resale. You would only inspect those intended for slaughter. Livestock ante-mortem must be done by a PHV or a Food Inspector under the supervision of a PHV.

Ante-mortem inspection consists of two parts:

1. observe animals at rest
2. observe animals in motion

It is important to inspect the animals both at rest and in motion because certain abnormal signs, such as labored breathing, are easier to detect while the animals are at rest, while other abnormalities, such as lameness, may not be detected until you observe the animals in motion. Since the regulations do not require in motion inspection from both sides, the PHV must use his or her discretion during ante-mortem. The PHV may determine that in motion inspection from both sides is necessary to determine if the animals are eligible to be passed for regular slaughter. An example of this may be in high pathology cattle establishments with a greater incidence of acti, epithelioma, or injection site reactions which all can be unilateral in nature.

When you perform at-rest inspection, position yourself at various locations outside the pen. Observe all of the animals and note their general behavior while they're at rest. Determine if any of the animals show abnormal behavior patterns such as excessive excitability or severe depression. Look at the heads, necks, sides, rumps, and legs of as many animals as you can see. Make a note of any abnormalities.

When you perform in-motion inspection of the animals, you should position yourself outside of the pen next to the open gate so that you can easily view the animals as they are driven by you. You should direct the establishment employee to move all of the animals slowly and individually out of the pen, while you observe each animal for abnormalities by viewing the head, neck, shoulder, flank, legs, and rump. If the pen size permits, you may want to position yourself inside the pen and direct the establishment employee to move the animals past you in the pen. Do this only if it is safe. In general, it is only safe to position yourself inside the pen when inspecting small livestock such as sheep, market-sized hogs (up to 250 lbs.) and calves. It cannot be overemphasized to always be alert and think safety. Cattle can be surprisingly fast and agile, particularly when agitated or startled. Never go into a pen of large livestock. This is especially true of a pen with a bull or a cow with a calf. Don't make the mistake of performing in-motion inspection immediately behind a loose, swinging gate. As the animals are driven out of the pen, they could push against the swinging gate and force it against you. Also, never position yourself in a corner or in a place that allows no escape to safety should an animal turn aggressive. Don't climb on high, unstable fences to view the animals during ante-mortem inspection. As in all areas of the establishment, wearing your safety helmet during ante-mortem inspection is a good safety practice.

IPP are to verify that ante-mortem inspection has occurred at a minimum of once per shift. IPP can achieve this by verifying that establishment documentation matches the animals driven to slaughter and that the documentation has an IPP signature or initials, and the time ante-mortem was performed. If there is reason to suspect that the animals

were slaughtered without ante-mortem inspection, then IPP are to retain the carcasses and immediately call the District Office for guidance.

Voluntary segregation, delayed, and emergency ante-mortem inspection

In addition to the manner in which ante-mortem inspection has just been described, there are other ways for performing it. They include voluntary segregation, (previously referred to as alternative ante-mortem), delayed, and emergency ante-mortem inspection.

Voluntary Segregation procedure is the term used to describe the type of inspection that takes place when the establishment voluntarily segregates animals prior to ante mortem inspection. Many large establishments elect to voluntarily segregate animals.

Be aware that FSIS Directive 6100.1 states that **voluntary segregation is not permitted for cattle.**

Remember that inspection program personnel, under the Federal Meat Inspection Act, perform an ante-mortem examination and inspection on all animals prior to slaughter to determine that an animal is fit for slaughter for human food purposes. If an establishment fails to present animals for ante-mortem inspection in accordance with 21 USC 603 and 9 CFR 309.1, inspection program personnel will be unable to determine that carcasses are not adulterated during postmortem inspection, and therefore cannot permit the carcasses to be marked as "inspected and passed."

Provided the establishment properly presents animals for ante-mortem inspection and properly follows the Humane Slaughter Act, FSIS permits an establishment to voluntarily segregate animals, to facilitate the establishment's scheduling of swine and sheep (e.g., market hogs and lambs) for slaughter. As per Directive 6100.1, FSIS will only permit market classes of swine and sheep (i.e., market hogs and lambs), arriving for regular slaughter (i.e., not arriving for slaughter under any APHIS Veterinary Services permit or certificate) to continue to be voluntarily segregated by the establishment prior to FSIS ante-mortem inspection activities provided that:

- market classes of animals comprise the predominant class slaughtered at the establishment
- the establishment has documented its segregation procedures in a prerequisite program
- all animals are presented to inspection program personnel for examination and inspection prior to slaughter
- procedures in the prerequisite program and related records are available to inspection personnel upon request (as per FSIS Directive 5000.2)

Here are the inspection procedures you are to use to verify the establishment's segregation procedures for market swine and lambs prior to FSIS ante mortem inspection.

1. Verify that the segregation procedures are only for market classes of swine and lambs.

2. Examine all animals found normal by the establishment while the animals are "at rest," (i.e., by randomly moving around in the pens.) (9 CFR 309.1(a)).
3. Select 5 to 10 percent of all animals presented for ante-mortem inspection from several lots and observe them in motion.
4. Instruct the establishment to move abnormal animals that may be condemned under 9 CFR Part 311 to the designated "Suspect" pen under 9 CFR 307.2 for final disposition by the PHV.
5. Randomly observe establishment personnel performing segregation procedures (i.e., segregating those animals showing signs of abnormalities or diseases from healthy animals) at least once per month.

If an establishment does not have documented segregation procedures or fails to implement its segregation procedures properly, instruct inspection program personnel to not take into consideration the establishment's segregation program.

For livestock classes other than market swine and lambs (such as cattle), establishments may presort animals prior to inspection and move the animals that may be designated "U.S. Suspect" or "U.S. Condemned" under 9 CFR part 309 and 311 to the designated "Suspect" pen for final disposition by the PHV. The PHV must conduct a careful examination and inspection on all animals in the "Suspect" pen. Inspection program personnel are to conduct an examination and inspection of all remaining animals by observing them both at rest and in motion.

Delayed slaughter is covered in the regulations (309.1(a)). Delayed slaughter is a method of inspection that allows certain low volume establishments to have ante-mortem inspection completed on the day before the animal is scheduled for slaughter. This type of ante-mortem inspection is performed in the afternoon and is only for facilities that slaughter 1-15 animals per day. Prior approval of the Frontline Supervisor is needed before delayed slaughter can be implemented. For example, a low-volume establishment may be planning to slaughter two hogs on Friday morning at a time when the PHV will be conducting inspection duties at another establishment. If the establishment is approved for delayed slaughter, it is permissible for you to perform ante-mortem inspection late Thursday afternoon when you are at the establishment. **Delayed slaughter is not permitted for cattle** (9CFR 309.1(a) and 311.27).

Special provisions have been made to allow the **emergency slaughter** of seriously injured animals other than cattle, during other than normal inspection time. As an example, on a Sunday a truck headed for a slaughtering establishment overturns and several of the animals are seriously injured. As a result, the establishment wants to slaughter the animals immediately rather than have them suffer pain until slaughtering operations begin on Monday morning. The establishment must attempt to contact FSIS personnel, explain the situation, and arrangements made for inspection to take place. If the establishment is unable to contact FSIS personnel, the emergency slaughter provision allows establishment personnel to slaughter the animals without ante-mortem inspection provided the carcass and all parts, including the viscera, are retained for post-mortem inspection by FSIS. One very important thing to remember about emergency

slaughter: it is NOT intended to cover the slaughter of sick or dying animals, only those that are seriously injured. So animals that are sick or dying from a disease are not covered by emergency slaughter. In addition, emergency slaughter is not permitted for cattle. **Emergency slaughter is not permitted for cattle.**

Poultry

Poultry ante-mortem inspection must be performed on the day of slaughter. It can be performed by either a Food Inspector or PHV, unless the birds originate from a control area or the establishment is located in a control area during an outbreak of Highly Pathogenic Avian Influenza (HPAI), in which case the PHV must examine every truck load of birds during ante-mortem inspection, and follow all instructions in FSIS Directive 6020.1, Rev. 1. It is performed on a group basis, while the birds are in coops or batteries before or after removal from trucks. When performing ante-mortem inspection, inspection program personnel are to observe the overall condition of the birds including the head, with attention to the eyes, legs, and the body of the birds; and whether there are any unusual swellings or other abnormalities on the birds.

Ante-mortem dispositions

There are three possible outcomes, or dispositions, that follow observation of livestock or birds in ante-mortem inspection:

1. passed for slaughter,
2. suspect, and
3. condemned

Let's discuss each of these outcomes in more detail. The animal or lot of birds can be passed for slaughter. This means that the animals or birds were determined to be fit for human food. Those animals that clearly exhibit signs of diseases and conditions listed in the regulations must be condemned. This means that they are clearly not fit for human food, and they must be destroyed and not allowed to enter commerce as human food. Then there are those animals or birds that may exhibit signs of the diseases or conditions defined in the regulations, but further confirmation during post mortem inspection is needed before condemning the carcass or a part of the carcass. In each of these three cases, there are certain things that you must do. Let's review each situation for livestock, and then for poultry.

Livestock

Passed for Slaughter

After you complete ante-mortem inspection and properly record the results, you will then take action based on your findings. You will allow the animals that you have determined to be free of the diseases and conditions described in the regulations, and therefore fit for human food, to be released for slaughter. You will certify this to the establishment by signing and dating the time of ante-mortem inspection on the establishment's pen card or drive sheet. After you inspect the animals, you sign the card and write the time the animals received inspection. Signing the card indicates that the animals have received

ante-mortem inspection and are ready for slaughter. One commonly used option is that the pen card is taken from the pen and delivered to the postmortem inspector by a establishment employee prior to or at the time the animals are driven inside the establishment for slaughter. The post-mortem inspector can then collect all of the pen cards and compare the number of animals recorded on the cards with the number of animals being slaughtered. This is a method used to determine that all animals being slaughtered have received ante-mortem inspection. An original or copy of the signed and dated document used by the establishment in presenting animals for ante-mortem inspection is to be collected by IPP on a daily basis. Keep this document in the FSIS inspection office for one week following the end of the respective slaughter week.

Suspect

Some of the animals may exhibit signs that cause you to question whether the animal is affected by a disease or condition described in the regulations (309.2). You will direct the establishment to place a "U. S Suspect" tag in the animal's ear and to segregate those animals with abnormal signs into the suspect pen for further observation after you have completed the ante-mortem inspection. We'll cover some signs that will cause you to suspect animals of diseases and conditions listed in the regulations in the next section, and in great detail in the section on multi-species dispositions. But for now, a couple of simple examples of animals that should be tagged as "U.S. Suspect" and placed in the suspect pen are animals that are seriously crippled and non-ambulatory disabled or those that are non-ambulatory. The exception is non-ambulatory cattle, which must be condemned, including veal calves as per FSIS Notice 66-16. Section 309.2(n) states that all animals that are suspect must be set apart and slaughtered separately. When animals are placed in the suspect pen, they must be accompanied by FSIS Form 6150-1 (309.2 (o)).

After further examination of an animal in the suspect pen, the PHV may determine that the animal is not fit for human food according to the regulations and that it must be condemned. Alternately, you may determine that the suspect animal is normal or that the abnormal signs you observed are not severe enough to have the animal suspected or condemned. This animal may be released for slaughter. If the establishment employee moves this animal out of the suspect pen and into a different pen, be sure to make the necessary changes on the pen card. A third possibility is to have the suspect animal continue to be slaughtered separately, making the final disposition during post-mortem inspection.

Section 309.2 (p) provides for occasions when the establishment requests and receives permission to hold an animal for treatment in an effort to improve the animal's condition to the point that it may become eligible for slaughter. This "on-premises treatment" is a relatively rare occurrence, but, if it does occur, the PHV has certain responsibilities. The identity of the animal must be maintained throughout the treatment period. The animal must be placed in a separate pen identified with a pen card. In addition, the FSIS Form 6150-1 must be changed. Cross out the word, "slaughter," and write in the phrase "held for treatment" in the appropriate space. Following the treatment, the PHV will examine the animal and make an ante-mortem disposition.

Another possibility is that the establishment may request and receive permission to have an animal treated off-premise, such as at a local veterinary clinic. These animals must also be kept in an identified pen until they are picked up for treatment. The U. S.

Suspect tag is removed just before the animal is shipped. The tag can be removed because a different type of identification system will be used to identify the animal after it leaves the establishment premises. **It is not permitted to hold non-ambulatory disabled cattle for treatment, either on or off premises.** Non-ambulatory disabled cattle, including veal calves, are condemned on ante-mortem and must be promptly humanely euthanized by the establishment.

Condemned

An animal that is condemned during ante-mortem inspection is not eligible for slaughter because it has been identified as having diseases or conditions specified in the regulations that make it unfit for human food. For example, 309.3 indicate that dead, dying, disabled, or diseased livestock are to be condemned. It is your responsibility to identify the animal so that it is neither slaughtered nor used for human food. This is accomplished by placing a U. S. Condemned tag in the animal's ear. The FSIS Form 6150-1 must also be completed. The word "Suspect" is crossed out and the number of the "U. S. Condemned" tag that was placed in the animal's ear is written in the space provided on the form.

Section 309.13 covers the regulatory requirements for the disposition of condemned livestock. Any livestock that is condemned must have a U. S. Condemned tag placed in its ear. The FSIS PHV must complete FSIS Form 6150-1, and must ensure that the establishment properly disposes of the condemned animal.

Since the establishment cannot slaughter a condemned animal nor use it for human food, the establishment must promptly and humanely kill the animal and immediately dispose of the carcass in one of two ways that have been approved by regulation. Many establishments have their own disposal equipment and facilities. When a carcass is disposed of in this way, it is termed "on-premises rendering." Establishments that do not have their own disposal equipment and facilities have the carcass sent to some other place. This is called "off-premises disposal." Regardless of the establishment's method of disposal, inspection personnel have certain responsibilities.

Section 314.3 covers the regulatory requirements for disposition of condemned products at official establishments having no tanking facilities. It states that condemned products or carcasses shall be destroyed in the presence of an inspector by incineration, or denatured with crude carbolic acid, or cresylic disinfectant, or a formula consisting of one part FD&C No. 3 green coloring, 40 parts water, 40 parts liquid detergent, and 40 parts oil of citronella or any other proprietary material approved by the Administrator in specific cases.

Here's an example. Obviously, as stated earlier, a dead animal may not be used for human food. When you observe an animal that arrives at the establishment dead or subsequently dies in a pen, including the suspect pen, you must make sure that there is an adequate control to prevent the animal from entering the food supply. You must take the following steps:

1. Identify the animal as condemned with a red 'U.S. Condemned' tag.
2. Fill out an FSIS Form 6150-1 and write the words "Dead in Pens" or "Dead on Arrival" in the "Tagged For" space.
3. Ensure the animal is disposed of in accordance with 9 CFR 314.

FSIS Form 6150-1

As stated earlier, when you perform the ante-mortem inspection procedure, you observe each animal for abnormal signs. When you find an animal exhibiting signs of the diseases and conditions described in the regulations, you must record the signs on the FSIS Form 6150-1, Identification Tag Ante-mortem. The form (tag) will identify animals as "U.S. Suspect" or "U.S. Condemned" 9CFR 309.2(o)). The form (tag) is also used for animals identified as TB Reactors by using the reactor tag number instead of the suspect tag number.

For cattle identified as "U.S. Condemned" during ante-mortem inspection at federally inspected establishments, PHVs are to complete and sign the form. PHVs are to enter the justification for condemnation under the remarks section. Once the form is completed, form is to be filed in the inspection office. (9 CFR 309.2(o))

The form is divided into two sections:

1. The upper section contains most of the information that identifies the animal, such as the kind of animal, sex of the animal, and the animal approximate weight. You will complete the upper section of the card. When a single 6150-1 form is used to identify more than one animal, be sure to indicate the number in the section "kind of animal": 3 Herefords, 2 Holsteins, etc. Also record all back tag numbers, ear tag numbers, etc., for each animal.

Slaughter at establishment - indicate the official establishment number where the animal is to be slaughtered.

Condemned or suspect tag - if you apply a U.S. Suspect tag, enter the number of the tag and cross out the word "condemned?" If the form is used for more than one animal, be sure to enter all suspect tag numbers.

Kind of animals - terms like Hereford, Jersey, Buffalo, Santa Gertrudis, Hampshire, Yorkshire, Duroc, etc., should be used.

Sex - use terms like bull, cow, heifer, shoat, ewe, barrow, etc.

Tagged for - indicate the condition for which you tagged the animal, (e.g., actinobacillosis, epithelioma, non-ambulatory disabled, TB reactor, pneumonia, broken leg, etc). If you feel it is necessary to add more information, use a phrase like "see back of form" and then write the information on the back of the form.

Temperature - indicate the temperature in degrees °F. You must take the temperature of all non-ambulatory disabled livestock, TB reactors, mastitis elimination cows, and all animals exhibiting signs of an abnormal temperature.

Weight - estimate the animal's weight in pounds.

Remarks - the PHV will complete the remarks section after determining the ante-mortem disposition and then sign and date the form. Depending on local policy, the optional postmortem report section may or may not be completed.

2. The lower section is the postmortem report. This section will be completed by the PHV responsible for post-mortem inspection. The lower half of the form contains the following sections:

Findings – enter the postmortem examination findings

Disposal – enter the disposition of the carcass and parts based on the postmortem findings.

Inspector and date – the PHV signs and dates the form following final disposition

FSIS Form 6200-16

The FSIS Form 6200-16 (formerly MP Form 402-1) (Summary of Ante-mortem Examination) is used to record daily ante-mortem activities. This form is completed at the discretion of the Frontline Supervisor. The form is completed by a PHV and only on the days of slaughter. Following are instructions for completing the form:

- a. The date of the last slaughter day for this species.
- b. The establishment number.
- c. Today's date.
- d. The name of the species inspected (use a separate 6200-16 form for each species inspected on this date).
- e. The number of animals passed for regular slaughter (does not include suspects).
- f. The number of animals the PHV identified as "U.S. Suspect" from the previous day, but the establishment did not slaughter.
- g. The number of animals the PHV identified as "U.S. Suspect" today.
- h. The total of lines 6 and 7.
- i. The number of animals identified by the PHV as "U.S. Suspect" but later the PHV released the animal as not being a "U.S. Suspect".
- j. The number of animals that died in pens after the PHV identified the animal as being a "U.S. Suspect".
- k. The number of animals the PHV identified as "U.S. Suspect" and the establishment slaughtered on this date.

- l. The total of lines 9, 10, and 11.
- m. The number of animals the PHV identified as “U.S. Suspect” that the establishment chooses not to slaughter and the PHV is holding as U.S. Suspect.
- n. The number condemned on ante-mortem plus dead animals (do not include suspects that died in pens – they are reported on line 11).
- o. Write in “dead” or cause for condemnation and the number of animals disposed of in that category.
- p. The first “U.S. Condemn” tag number and the last “U.S. Condemn” tag number used.
- q. The signature of the PHV completing the report.

General signs of diseases and conditions identified in the regulations that can be detected at ante-mortem inspection

You will learn in detail about the signs of diseases and conditions identified in the regulations that can be detected during ante-mortem inspection during the Multi-species Disposition Basics section of this training. This section covers some general signs that indicate an animal may have a condition or disease referenced in the regulations, making it unwholesome, adulterated, or unfit for human food. In general, these signs include the following:

- body movement
- body condition
- signs on the body’s surface

Abnormal body movement

Ante-mortem signs that indicate an animal may have a condition or disease referenced in the regulations can be associated with body movement and action, body position, condition, function, surfaces, discharges, and body odor. Some examples of the signs associated with body movement, action and position include:

1. Lameness or limping-sometimes the cause of lameness is rather obvious; sometimes not.
2. Stiffness and pain-lameness may be caused by arthritis in one or more joints.
3. Central Nervous System (CNS) diseases-certain diseases such as rabies and listeriosis can affect the brain and CNS. The animal may appear extremely nervous or restless, excessively anxious or upset, or stagger or circle.
4. Certain poisons and toxic residues that the animal has been exposed to may cause abnormal movement and action, such as staggering or circling.

5. Depression or disinterest may be a sign that the animal is in a dying or moribund state. A moribund animal may not respond to noises or other stimuli. Animals in a moribund condition are not eligible for slaughter.
6. It is possible that an animal that is depressed or fails to respond normally to stimuli could be under the influence of a tranquilizer. Tranquilized animals are not eligible for slaughter. Tranquilizers and other drugs have specific withdrawal periods that must elapse before the animal is eligible for slaughter.
7. An animal may be disoriented and run into things or butt its head against objects.
8. Animals may scratch excessively or rub their hide against objects. Scratching and rubbing associated with hair loss may indicate that the animal has lice or mange infestation. Scabies is a mange condition that is a reportable disease. The PHV must report this condition to other health agencies. These agencies may want to take skin scrapings from the animal to confirm the diagnosis.
9. Animals may have muscle tremors or shivering, hold their head to one side, or have any number of abnormal gaits.
10. Animals may strain and assume abnormal body positions. For example, urinary or intestinal disorders may cause straining and abnormal positions such as arching of the back, tucking in of the abdomen, and extending the neck and tail.
11. An animal may have difficulty in rising, walking, or be unable to get up at all. 9 CFR 309.2(b) permanently replaces the term "downer" with non-ambulatory livestock. 9 CFR 309.2(b) defines non-ambulatory disabled livestock as those that cannot rise from a recumbent position or that cannot walk, including, but not limited to, those with broken appendages, severed tendons or ligaments, nerve paralysis, fractured vertebral column, or metabolic conditions. The PHV must examine all non-ambulatory disabled livestock. The PHV may choose to examine these animals where they are rather than move them to the suspect pen to avoid unnecessary handling and pain or injury to the animal.

All cattle, including veal calves, presented as non-ambulatory disabled on ante-mortem inspection must be condemned. FSIS Directive 6100.1, Rev. 2 provides guidance on re-examination of bovines that become non-ambulatory after passing ante-mortem inspection. On March 18, 2009, FSIS published a final rule, "Requirements for the disposition of cattle that become non-ambulatory disabled following ante-mortem inspection." The final rule requires that all non-ambulatory cattle, including those that have passed ante-mortem inspection, must be condemned and properly disposed of, and that establishment personnel must notify FSIS when cattle become non-ambulatory disabled after passing ante-mortem inspection.

The presence of the PHV in the livestock pen area is of critical importance. Establishments may have devices like hobbles to assist with ambulation, hip hoists to lift recumbent animals, or prods to urge the animals from a recumbent position. Remember that the cattle, including veal calves, must be able to rise from a recumbent position under their own strength and be able to walk under their own power without the use of such mechanical devices.

Abnormal body condition

You will also see animals with signs associated with abnormal body condition. Examples of abnormal body condition include:

1. Animals that are extremely thin and weak - you may see animals that are thin and weak due to chronic disease problems such as pericarditis, pneumonia, nephritis, etc. Animals that are in very poor condition and exhibit other signs such as depression, lethargy, respiratory difficulty, etc., should be placed in the suspect pen. Remember, though, that animals can be normally thin, so thinness alone may not be an abnormal sign. For example, some old cows may be very thin, but they may be bright and alert, have a good appetite, and show no other abnormal signs. They should not be placed in the suspect pen.
2. Calves (especially when very young) may be weak, thin, and dehydrated. They may be uncoordinated or barely able to stand. They should be placed in the suspect pen.

Abnormal signs associated with body functions include respiratory distress such as labored or rapid breathing. These signs are commonly seen in animals with lung disorders such as pneumonia. Coughing and sneezing are other signs associated with pneumonia and other respiratory disorders.

You may occasionally see animals in the act of parturition. The regulations prohibit the slaughter of these animals for human food until after they have given birth and passed the placenta (afterbirth). A cow with mastitis may have a hot, hard, swollen, and tender udder. Milk secretion may have partially or entirely stopped. A loss of appetite may be present. In advanced cases, the udder may become hardened throughout.

Animals may exhibit pain. Pain may be manifested by signs such as groaning, grunting, or grinding of teeth. You may also see animals that have difficulty drinking and swallowing or appear to be blind. All of these signs are abnormal and may be associated with a great variety of diseases.

It is not uncommon during ante-mortem inspection to observe an animal with an eye missing. Any bovine with an eye missing should be handled as a suspect for Epithelioma ("cancer eye"). The PHV must examine all U.S. Suspect animals.

Abnormal signs on the body's surface

There are a great number of abnormal signs associated with body surfaces. Injuries and fractures are included in this group. When observing animals, be on the alert for abnormal growths, swelling, and enlargements such as hernias. Three common conditions you may see are actinomycosis, actinobacillosis and epithelioma. Actinomycosis (commonly called "acti" or "lumpy jaw") involves the bony structures of the head, particularly the lower jaw (mandible). Actinobacillosis (commonly called "wooden tongue") involves soft tissues in head, particularly in the tongue. Epithelioma

(commonly referred to as "cancer eye" or "bug eye") is a neoplastic growth involving the eye, eyelids, and the orbital region. The tumor appears to originate in either the cornea, third eyelid, or the eyelids. Herefords are by far the breed most commonly affected.

Abnormalities of the skin and mucus membranes will be observed while performing ante-mortem inspection. Animals may exhibit a variety of skin lesions including papillomas (warts). They may have a roughened, dry, or dehydrated hair coat or large patches of hair missing. Be on the lookout for superficial ulcers, sores, blisters or vesicles, particularly around the feet or around the mouth. Several diseases may cause these signs, including those that are reportable such as foot-and-mouth disease. If lesions are infested with maggots, notify the PHV because he or she will have to collect samples and send them to the laboratory. The laboratory will examine the maggots to see if they are screwworm larvae. Allied government animal health agencies have been trying for years to control the incidence and spread of screwworm infestations in this country.

The color of exposed membranes of the body, such as the gums or the eyes, may be an indication of a disease condition. The membranes may appear reddened, or very pale, or may have a yellowish color to them.

While observing body surfaces, be on the lookout for injection sites. Abnormal swelling, especially in the round or neck areas, could be an indication that animal was recently given an injection. Approved drugs have a very specific withdrawal period prior to slaughter that, if not followed, can result in potentially harmful residues in the muscle tissue. If you observe an injection site on an animal, you must make it a suspect so that the PHV can perform tests to determine if residues are present in the tissues.

Animals may also show signs of abnormal body discharges or abnormal odors. Abnormal discharges can include excessive salivation, diarrhea, blood, and pus. In a broad sense, animals with a retained placenta (afterbirth) can be included in this group. Be sure that animals with a retained placenta are placed in the suspect pen as the regulations prohibit the slaughtering of such animals until all the membranes have been passed.

Along with a thorough visual examination of animals, your sense of smell is a very important aspect of performing ante-mortem inspection. For example, an animal may have a prolapsed rectum or uterus that is infected, resulting in a strong, foul odor. At times when looking at a large pen of animals, you may not at first see a wound or prolapse, but you may detect the characteristic odor that will alert you to look more closely at the animals. An epithelioma of the eye that has become infected is another example of an abnormality that may be associated with a very characteristic foul odor.

One of the steps in examining suspect livestock the PHV can conduct is to take the temperature of the animal. This chart shows the range of normal body temperatures, as well as the condemnation temperatures, for the various species. The regulations specifically state a certain temperature at which you must condemn the animal. This chart is given as a reference.

Normal Animal Temperature Ranges				
	Cattle	Swine	Sheep	Horses
Maximum	102.5	104.0	104.0	100.5
Average	101.5	102.5	102.5	100.0
Minimum	100.0	100.5	102.0	99.0
PHV Condemns on ante-mortem if:				
	105.0	106.0	105.0	105.0

Biological residues

Section 309.16 of the regulations covers livestock suspected of having biological residues. This includes livestock that have been exposed to any type of substance that would make the carcass or parts unfit for human food or otherwise adulterated. These livestock are to be condemned unless the following options are exercised. They may be held under the custody of FSIS until the animal's metabolic processes have reduced the residue sufficiently for the carcass or parts to become fit for human food and not adulterated. In these cases, once the holding time period has passed, the animal must be returned for slaughter and be re-examined in ante-mortem inspection. It is permitted to allow these animals to be slaughtered for the purpose of collecting tissue to conduct an analysis of the residue. The analysis can include in-plant screening tests (KIS). If the rapid in-plant antimicrobial residue screening test result is positive, the PHV is to continue to retain the carcass and parts and submit appropriate tissue samples (liver, kidney, and muscle tissue) for further testing at the appropriate FSIS Laboratory. You will learn more about the details of residue testing in an upcoming module.

Animals used for research

Section 309.17 covers livestock that have been used for research purposes. The regulations prohibit the slaughter of any livestock that have been used in experiments involving biological products, drugs, or chemicals unless the establishment has written documentation of the safety of these animals from an appropriate authority, such as APHIS, EPA, or FDA. Any animals that have been subjected to food additives or pesticide chemicals must demonstrate compliance with the FDA tolerance levels for these substances. The PHV may deny or withdraw slaughter for any suspect animals to ensure that all products that are prepared at the establishment are free from adulteration. You will learn more about how to deal with these situations in the Residue module.

Poultry

Condemned

Regulation 381.71 states that birds plainly showing any disease or condition in 381.80 to 381.93 that would cause condemnation of the carcass on post mortem inspection are condemned on ante-mortem. We will cover the specific regulations and conditions in the Multi-species Postmortem Disposition module. For now, just remember that you should ante-mortem condemn those poultry that would clearly be condemned on postmortem inspection.

According to 9 CFR 381.71, they are not to be dressed, nor shall they be conveyed into any part of the official establishment where poultry are prepared or held. They must be disposed of appropriately (9 CFR 381.95). We will cover methods of disposal for condemned birds when we discuss post mortem inspection. They include tanking, incineration, and denaturing. PHVs should ensure that dead-on-arrival (DOAs) are identified, counted, and weighed, and the number is recorded in the Public Health Information System (PHIS) Animal Disposition Reporting function.

Suspect

Birds that do not plainly show but are suspected of being affected by any disease or condition in 381.80 to 381.93 that would cause condemnation of the carcass or parts on post-mortem inspection are segregated and held for separate slaughter and examined under post-mortem (381.72). The PHV should verify that the establishment releases birds for treatment under the control of appropriate State or Federal officials. PHVs are to notify the District Office and follow instructions in FSIS Directive 6000.1, Responsibilities Related to Foreign Animal Diseases and Reportable Conditions, when he/she suspects a reportable or foreign animal disease. PHVs should also follow instructions in FSIS Directive 6020.1, Rev. 1, Enhanced Inspection of Poultry in Response to a Notification of a Highly Pathogenic Avian Influenza Outbreak, when FSIS issues specific instruction via an FSIS user notice. Section 381.73 covers the quarantine of diseased poultry. It states that live poultry affected by a contagious disease transmissible to humans must be segregated and either:

- slaughter separately if further handling does not create a health hazard, or
- release for treatment if practicable (and if further handling is a hazard), or
- condemn if treatment is not practicable (when further handling is determined to be hazardous)

Poultry suspected of having biological residues

Regulation 381.74 covers the requirements related to poultry suspected of having biological residues. There are three options. They can be returned to the grower if further holding is likely to result in their not being adulterated from the residue. They can be slaughtered and processed and retained for disposition. They also can be slaughtered and buried or incinerated.

Poultry used for research

Regulation 381.75 covers poultry that have been used for research. The establishment must have appropriate documentation that the biological product, drug, or chemical used in the research will not result in poultry products being adulterated – or it is condemned.

Abnormal signs

Just as is true with livestock, there are signs that indicate poultry have a disease or condition outlined in the regulations making them unfit for human food. These diseases and conditions can sometimes be detected through observations of body position, body condition, and body surfaces of poultry.

Symptoms of disease that may be observed on ante-mortem inspection include the following:

- Swelling around the head and eyes
- Edema, cyanosis, or petechial hemorrhages of the wattles
- Gasping and sneezing
- Off-colored diarrhea
- Skin lesions
- Lameness
- Torticollis or wry neck, or ataxia
- Bone or joint enlargement
- Dermatitis
- Emaciation

These abnormal signs will be covered in more detail in the dispositions section of the training.

Veterinary Services

Veterinary Services (VS) is an organizational unit of the Animal and Plant Health Inspection Service (APHIS). The overall mission of VS is to control or eradicate specified animal diseases in this country. Your role will be to contact VS when you suspect animals or poultry of having a reportable or foreign animal disease. Reportable diseases include anthrax, bluetongue, cysticercosis, scabies, tuberculosis, contagious ecthyma, myiasis (screwworm), scrapie, and vesicular diseases. Of these diseases anthrax, cysticercosis, tuberculosis, and contagious ecthyma are transmissible to humans. Foreign animal diseases include bovine spongiform encephalopathy (BSE), foot and mouth disease, rinderpest, African swine fever, hog cholera, contagious bovine pleuropneumonia, and Teschen's disease. In most cases, VS will want the livestock or poultry held so they can examine it. For example, in the case of livestock, the PHV will first identify the animal with a reportable disease as condemned and then have the animal placed in a separate pen identified with a pen card. The establishment employees will be notified that the animal is not to be removed from the pen for any reason without the permission of the PHV or some other animal health official. We will cover reportable and foreign animal diseases in more detail in a separate module later in the training.

WORKSHOP

Write your answers in the space provided.

1. State the body temperature at which each of the following species must be condemned.

Cattle _____ Sheep _____ Swine _____

2. The establishment disposes of dead or condemned livestock carcasses by sending them to a rendering establishment away from the official premises. FSIS requires these carcasses be properly denatured. From the following list of denaturants, identify those denaturants that are approved for this purpose.

_____ Crude carbolic acid

_____ Kerosene

_____ Cresylic disinfectant

_____ A formula consisting of 1 part FD&C green #3 coloring, 40 parts water, 40 parts liquid detergent, and 40 parts oil of citronella.

3. Which tag should be used for tagging an animal found dead in the pens?

_____ Silver U. S. Suspect tag

_____ Red U. S. Condemned tag

_____ A tag is not necessary

4. Non-ambulatory disabled animal is

_____ unable to rise or walk

_____ showing signs of an abnormal condition

_____ found dead in the pens

5. U.S. Suspect is an animal

_____ that is obviously sick

_____ that will not respond to stimuli

_____ identified with a U.S. Suspect tag in its ear or one that has been segregated into the U.S. Suspect pen because of an abnormal condition

6. U.S. Suspect tag is

_____ "U.S. Rejected."

_____ A serially numbered metal tag bearing the term "U.S. Suspect" and is silver in color

7. U.S. Condemned tag is

_____ A serially numbered metal ear tag bearing the term "U.S. Condemned"- usually red in color

_____ The paper tag used to identify equipment or product as "U.S. Retained" or "U.S. Rejected"

8. Emergency slaughter is

_____ The humane slaughter of an animal which has become sick or is in a dying state during the time an inspector is *not* on duty or *not* available for inspection

_____ The humane slaughter of animals other than cattle, which are injured at night, on a holiday, or during a weekend, and an inspector is *not* on duty or *not* available for inspection

9. Select those that the official establishment is required by regulation to provide:

_____ Restraining device in suspect pen (or other acceptable method)

_____ Covered suspect pen

_____ 20 foot-candles lighting in suspect pen.

_____ Suspect and condemned tags

_____ An accurate thermometer for inspection use

_____ Curbs at least 12" high around the ante-mortem pens

_____ Adequate personnel to handle and drive livestock, drinking water for livestock in each pen

_____ Maintain pens in a sanitary manner and in good repair, free from sharp objects that may cause injury

10. Use the following information to complete the pen card below:

You just performed ante-mortem inspection on 24 animals (13 Holstein cows, 5 Angus steers, and 6 Hereford heifers) in pen #16. They are in Lot #39. One of the 13 cows had a vaginal prolapse, therefore, you made her a U. S. Suspect.

PEN CARD	
DATE _____	PEN# _____
SPECIES: _____	LOT _____
BREED: _____	
NUMBER: _____	
TIME _____	SIGNATURE _____

11. What happens to the above pen card when the animals are sent to slaughter?

12. Complete the FSIS Form 6150-1 using the following information:

You performed ante-mortem inspection on this date at Est. 38. The PHV condemned one Hereford bull (back tag #999 and condemn tag #456) for epithelioma.

U.S. DEPARTMENT OF AGRICULTURE FOOD SAFETY AND INSPECTION SERVICE MEAT AND POULTRY INSPECTION OPERATIONS															
IDENTIFICATION TAG-ANTE MORTEM															
SLAUGHTER AT EST. NO.															
CONDEMNED OR SUSPECT TAG NO.															
KIND OF ANIMAL	SEX														
TAGGED FOR															
TEMPERATURE	WEIGHT														
REMARKS															
INSPECTOR	DATE														
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INSPECTOR	DATE														
FSIS FORM 6150-1 (9/99)	REPLACES MP 402-2 9/83 WHICH MAY BE USED UNTIL EXHAUSTED														

13. Complete the FSIS Form 6150-1 using the following information:

You performed ante-mortem inspection on this date at Est. 38. You detected three Hereford cows with actinobacillosis to the extent that this condition would be readily detected on postmortem. Back tag #333 was attached to one animal, #334 to another animal, and #335 to the remaining animal.

U.S. DEPARTMENT OF AGRICULTURE FOOD SAFETY AND INSPECTION SERVICE MEAT AND POULTRY INSPECTION OPERATIONS															
IDENTIFICATION TAG-ANTE MORTEM															
SLAUGHTER AT EST. NO.															
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FSIS FORM 6150-1 (9/99)	REPLACES MP 402-2 9/83 WHICH MAY BE USED UNTIL EXHAUSTED														

14. Complete the FSIS Form 6150-1 using the following information:

You performed ante-mortem inspection on this date at Est. 38. You found one Holstein cow TB reactor with back tag #336, reactor tag #337, and a 103 degree temperature.

U.S. DEPARTMENT OF AGRICULTURE FOOD SAFETY AND INSPECTION SERVICE MEAT AND POULTRY INSPECTION OPERATIONS															
IDENTIFICATION TAG-ANTE MORTEM															
SLAUGHTER AT EST. NO.															
CONDEMNED OR SUSPECT TAG NO.															
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