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OMB Approved 0579-0420 EXP: XX/XXXX

UNITED STATES DEPARTMENT OF AGRICULTURE
ANIMAL AND PLANT HEALTH INSPECTION
SERVICE
VETERINARY SERVICES
NATIONAL ANIMAL HEALTH MONITORING SYSTEM
2150 CENTRE AVE, BLDG B
FORT COLLINS, CO 80526

## NAHMS BISON 2022 STUDY SURVEY

The information you provide will be used for statistical purposes only. Your responses will be kept confidential and any person who willfully discloses ANY identifiable information about you or your operation is subject to a jail term, a fine, or both. This survey is conducted in accordance with the Confidential Information Protection and Statistical Efficiency Act of 2018, Title III of Pub. L. No. 115-435, codified in 44 U.S.C. Ch. 35 and other applicable Federal laws. For more information on how we protect your information please visit: https://www.nass.usda.gov/confidentiality. Response is **voluntary**.

If you would like to have your bison tested for internal parasites or enteric microbes and/or have your pasture forage tested for nutritional value, please sign up for this free testing at the end of this questionnaire. Thank you!

### Section 1. Inventory

For the purposes of this study, an "operation" is defined as a person or entity raising one or more bison that are under common ownership (public or private) and kept on one or more locations for commercial or conservation purposes. This includes conservation herds. For example, an operation might consist of one location for commercial bison cowcalf production and another location for a bison finishing operation. **Unless specifically stated otherwise, please answer for the entire operation.** 

- INCLUDE all bison raised on this operation, whether owned by your operation or raised under contract for another owner.
- EXCLUDE bison raised on another person's or entity's operation, even if you own the bison.
- 1. From July 1, 2021, through June 30, 2022, were any bison present on this operation, regardless of ownership?......b1001

o<sub>1</sub> Yes—

2. From July 1, 2021, through June 30, 2022, did this operation have bison at more than one location?.....

o<sub>1</sub> Yes

3. On July 1, 2022, how many bison were on this operation, by sex and age group? If you don't know sex of bison less than 1 year old, please enter total number of bison for the age group.

|                                  | Bison more than | Bison            | Bison less than | Total bison on |
|----------------------------------|-----------------|------------------|-----------------|----------------|
| Bison                            | 3 years old     | 1 to 3 years old | 1 year old      | July 1, 2022   |
| a. Females                       | b1003           | b1006            | b1009           | b1012          |
| b. Males                         | b1004           | b1007            | b1010           | b1013          |
| Total (add items 3.a and 3.b for |                 |                  |                 |                |
| each column)                     | b1005           | b1008            | b1011           | b1014          |

- 4. From July 1, 2021, through June 30, 2022, were any bison added to this operation's herd?...... $o_1$  Yes—**Continue**  $o_3$  No—**GO TO question 7**
- 5. From July 1, 2021, through June 30, 2022, how many bison were added to this operation's herd from the following external sources?

|  |                   |                | Bison more than |                  |                 |
|--|-------------------|----------------|-----------------|------------------|-----------------|
|  |                   |                |                 | Bison            | Bison less than |
| So                                       | urce              |                | 3 years old     | 1 to 3 years old | 1 year old      |
| a.                                       | Private sale      |                | b1016           | b1022            | b1028           |
| b.                                       | Trade             |                | b1017           | b1023            | b1029           |
| C.                                       | Auction/sale barn |                | b1018           | b1024            | b1030           |
| d.                                       | Dealer/broker     |                | b1019           | b1025            | b1031           |
| e.                                       | Other (specify:   | <b>)</b> b0120 | b1020           | b1026            | b1032           |
| Total (add items 5.a–5.e in each column) |                   | b1021          | b1027           | b1033            |                 |

| c. (  | Mexico   |                                | b1035                          | $o_1$ Yes $o_3$ No $o_1$ Yes $o_3$ No   |
|---|--|--------------------------------|--------------------------------|---|
| U. (  | Other country(-ies) (specify:  |                                | ) b0136 b1036                  | O <sub>1</sub> Yes O <sub>3</sub> No  |
|   | ly 1, 2021, through June 30, 2022, di<br>including those that were slaughtered   |                                |                                |   |
|   | ly 1, 2021, through June 30, 2022, he removed from the operation by the fo   |                                | rmanently left the op          | peration  |
| Mothod  | of removal   | Bison more than<br>3 years old | Bison<br>1 to 3 years old      | Bison less than   |
|   | ghtered on ranch   | •                              |                                | 1 year old  |
|   | et to off-site slaughter/packer  | b1038                          | b1050                          | b1062   |
|   | et to feedlot  | b1039                          | b1051                          | b1063   |
|   | at auction/sale barn   | b1040                          | b1052                          | b1064   |
|   | to dealer/broker   | b1041                          | b1053                          | b1065   |
|   | ate sale—for breeding stock  | b1042                          | b1054                          | b1066   |
|   | ate sale—onsite hunting  | b1043                          | b1055                          | b1067   |
|   | ate sale—for meat or other products  | b1044                          | b1056                          | b1068   |
|   | ed or given away   | b1045<br>b1046                 | b1057<br>b1058                 | b1069<br>b1070  |
|   | or stolen  | b1047                          | b1059                          | b1070   |
| ,   |  | b1047                          | b1059                          | b1071<br>b1072  |
| k. Other  | 1 (3DCCIIV. 100148)  |                                |                                |   |
| From Jul  | dd items 8.a–8.k for each column) lly 1, 2021, through June 30, 2022, di bllowing?   | d this operation expor         | t any live bison or bis        | b1073   |
| From Jul<br>to the fo<br>a. (<br>b. 1   | dd items 8.a–8.k for each column)  lly 1, 2021, through June 30, 2022, di bllowing? Canada   | d this operation expor         | t any live bison or bis        | son products $O_1  \text{Yes}  O_3  \text{No}$ $O_1  \text{Yes}  O_3  \text{No}$  |
| From Jul<br>to the fo<br>a. (<br>b. 1   | dd items 8.a–8.k for each column) lly 1, 2021, through June 30, 2022, di bllowing? Canada  | d this operation expor         | t any live bison or bis        | son products $o_1 \text{Yes}  o_3 \text{No}$  |
| From Jul<br>to the fo<br>a. (<br>b. f<br>c. (                                     | dd items 8.a–8.k for each column)  lly 1, 2021, through June 30, 2022, di bllowing? Canada   | d this operation expor         | b1061  t any live bison or bis | son products  O <sub>1</sub> Yes O <sub>3</sub> No O <sub>1</sub> Yes O <sub>3</sub> No O <sub>1</sub> Yes O <sub>3</sub> No                                      |
| From Jul<br>to the fo<br>a. (<br>b. f<br>c. (<br>From Jul<br>for slaug            | dd items 8.a–8.k for each column)  lly 1, 2021, through June 30, 2022, di bllowing? Canada Mexico Other country(-ies) (specify:  | d this operation expor         | b1061  t any live bison or bis | son products  O <sub>1</sub> Yes O <sub>3</sub> NO |
| From Jul<br>to the fo<br>a. (<br>b. I<br>c. (<br>From Jul<br>for slaug            | dd items 8.a–8.k for each column)  lly 1, 2021, through June 30, 2022, di bllowing?  Canada  | d this operation expor         | b1061  t any live bison or bis | son products  O <sub>1</sub> Yes O <sub>3</sub> NO |
| From Jul<br>to the fo<br>a. (<br>b. f<br>c. (<br>From Jul<br>for slaug            | Ily 1, 2021, through June 30, 2022, dictional dictional state of the s | d this operation expor         | b1061  t any live bison or bis | son products  O <sub>1</sub> Yes O <sub>3</sub> No |
| From Jul<br>to the fo<br>a. (<br>b. f<br>c. (<br>From Jul<br>for slaug<br>What wa | Ily 1, 2021, through June 30, 2022, dictional  | d this operation expor         | b1061  t any live bison or bis | son products  O <sub>1</sub> Yes O <sub>3</sub> No |
| From Jul<br>to the fo<br>a. (<br>b. f<br>c. (<br>From Jul<br>for slaug            | Ily 1, 2021, through June 30, 2022, dictional dictional state of the s | ere mobile units used          | b1061  t any live bison or bis | son products  O <sub>1</sub> Yes O <sub>3</sub> No |
| From Jul<br>to the fo<br>a. (<br>b. f<br>c. (<br>From Jul<br>for slaug<br>What wa | Ily 1, 2021, through June 30, 2022, dictional dictional state of the s | ere mobile units used          | b1061  t any live bison or bis | son products  O <sub>1</sub> Yes O <sub>3</sub> No |
| From Jul<br>to the fo<br>a. (<br>b. I<br>c. (<br>From Jul<br>for slaug<br>What wa | Ily 1, 2021, through June 30, 2022, dictional dictional state of the s | ere mobile units used          | b1061  t any live bison or bis | son products  O1 Yes O3 No  GO TO question 13   |
| From Jul<br>to the fo<br>a. (<br>b. I<br>c. (<br>From Jul<br>for slaug<br>What wa | Ily 1, 2021, through June 30, 2022, dictional dictional state of the s | ere mobile units used          | b1061  t any live bison or bis | son products  O <sub>1</sub> Yes O <sub>3</sub> No |
| From Jul to the for a. (a. (b. for slaug) What wa                                 | Ily 1, 2021, through June 30, 2022, dictional dictional state of the s | ere mobile units used          | b1061  t any live bison or bis | b1073  son products  O1 Yes O3 NO O1 Yes O3 NO O1 Yes O3 NO  GO TO question 13  c one only.] b1078  |
| From Jul to the for a. (a)  From Jul for slaug  What wa  Did the (2022? [C]       | dd items 8.a–8.k for each column)  lly 1, 2021, through June 30, 2022, dipllowing?  Canada   | ere mobile units used          | b1061  t any live bison or bis | b1073 son products  01 Yes 03 No 01 Yes 03 No 01 Yes 03 No O1 Yes 03 No  GO TO question 13  c one only.] b1078  |
| From Jul to the for a. (a) From Jul for slaug What wa  Did the (2022? [C)         | dd items 8.a–8.k for each column)  lly 1, 2021, through June 30, 2022, dipllowing?  Canada   | ere mobile units used          | b1061  t any live bison or bis | son products  O1 Yes O3 NO O1 Yes O3 NO O1 Yes O3 NO O1 Yes O1 NO  GO TO question 13  Cone only.] b1078   |
| From Jul to the for a. (a) From Jul for slaug What wa Did the (2022? [C)          | In the second se | ere mobile units used          | b1061  t any live bison or bis | son products  O1 Yes O3 NO O1 Yes O3 NO O1 Yes O3 NO O1 Yes O1 NO  GO TO question 13  Cone only.] b1078   |

14. From July 1, 2021, through June 30, 2022, how many of this operation's bison died or were euthanized due to the following natural causes?

| Course of natural death or outhonosis               | Bison more than | Bison            | Bison less than |
|---|-----------------|------------------|-----------------|
| Cause of natural death or euthanasia                | 3 years old     | 1 to 3 years old | 1 year old      |
| a. Disease, disorder, or other health problem       | b1081           | b1089            | b1097           |
| b. Injury/trauma not related to predation, handling | ,               |                  |                 |
| or weather  | b1082           | b1090            | b1098           |
| c. Predation  | b1083           | b1091            | b1099           |
| d. Handling-related problem                         | b1084           | b1092            | b1100           |
| e. Weather-related problem (e.g., lightning, flood) | b1085           | b1093            | b1101           |
| f. Other (specify:) b0186                           | b1086           | b1094            | b1102           |
| g. Unknown  | b1087           | b1095            | b1103           |
| Total (add items 14.a–14.g for each column)         | b1088           | b1096            | b1104           |

**Section 2. Operation Management** 

| _  |                       |  |                    |                   |
|----|-----------------------|--|--------------------|-------------------|
| 1. |                       | m July 1, 2021, through June 30, 2022, were bison kept on this operation the following reasons?  |                    |                   |
|    | a.                    | Bison cow-calf production (offspring intended for meat production)b2001  | $o_1$ Yes          | $o_3 No$          |
|    | b.                    | Seedstock production (offspring intended for breeding purposes) <sub>b2002</sub>   | o <sub>1</sub> Yes | O <sub>3</sub> No |
|    | C.                    | Finishing on grass (bison finished on pasture/grass for slaughter) <sub>b2003</sub>  | o <sub>1</sub> Yes | O <sub>3</sub> No |
|    | d.                    | Backgrounding/stocking (young bison prepared for a feedlot)b2004   | o <sub>1</sub> Yes | o <sub>3</sub> No |
|    | e.                    | Feedlot operation (bison from this or other operations being finished in feedlot for slaughter)b2005   | o <sub>1</sub> Yes | 0 <sub>3</sub> No |
|    | f.                    | Game ranch/hunting on this operationb2006  | o <sub>1</sub> Yes | O <sub>3</sub> No |
|    | g.                    | Preparation/sale of byproducts (e.g., hides, skulls, horns, hair)b2007   | o <sub>1</sub> Yes | o₃ No             |
|    | h.                    | Conservation b2008   | o <sub>1</sub> Yes | o₃ No             |
|    | i.                    | Hobby/pasture petb2009   |                    | 0 <sub>3</sub> No |
|    | j.                    | Agri-tourism/eco-tourismb2010  | o₁ Yes             | 0 <sub>3</sub> No |
|    | k.                    | Cultural useb2011  | o₁ Yes             | <b>o</b> ₃ No     |
|    | I.                    | Cutting horse trainingb2012  | o₁ Yes             | O <sub>3</sub> No |
|    | m.                    | Other (specify: ) b0213b2013   | o <sub>1</sub> Yes | o₃ No             |
| _  |                       |  |                    |                   |
| 2. |                       | this operation? [Enter one letter, a through m.]b2014  |                    | _ letter          |
| 3. | Ho                    | w many years have bison been raised at this location?b2015   |                    | years             |
| 4. |                       | ich of the following best describes plans for the bison herd on speration over the next year? [Check one only.]                                | b2                 | 016               |
|    | <b>O</b> <sub>1</sub> | Increase herd size   |                    |                   |
|    | 02                    | Maintain same herd size  |                    |                   |
|    | 03                    | Decrease herd size   |                    |                   |
|    | O <sub>4</sub>        | Get out of the business (specify reason:   | ) b0216            |                   |
|    |                       |  | _) 50210           |                   |
| 5. |                       | m July 1, 2021, though June 30, 2022, were the following records intained (electronic or handwritten) for this operation? [NA=Not applicable.] |                    |                   |
|    | a.                    | Purchases and sales  | O <sub>3</sub> No  | $O_4 NA$          |
|    | b.                    | Breeding   |                    | $O_4NA$           |
|    | C.                    | Healthb2019 O <sub>1</sub> Yes   | 0 <sub>3</sub> No  |                   |
|    | d.                    | Treatment of individual bison with antibioticsb2020 . O <sub>1</sub> Yes   | $o_3 No$           | $O_4 NA$          |
|    | e.                    | Pasture/natural resource conditions b2021 O1 Yes   | $o_3 No$           | $O_4NA$           |
|    | f                     | Other (specify: ) h0222 h2022 O1 Yes   | O <sub>2</sub> NO  |                   |

| on J<br>for I | luly<br>Vot <i>i</i> | ase answer the following questions about formally ide<br>1, 2022 (Section 1, Question 3), in number <b>OR</b> perce<br>Applicable if no bison in the age category.]   | entage of bison,                          | whichever is                               | s easier for you                      | ı. [Write               |                 |
|---------------|----------------------|---|---|--|---------------------------------------|-------------------------|-----------------|
|               | a.                   | As of July 1, 2022, how many or what percentage of (something that indicates a bison is a member of you   | bison <b>1 year o</b><br>ur operation's h | r older had<br>erd)? b2023 _               | a <b>herd identifi</b><br># <i>OR</i> | cation<br>———           | % bison         |
|               | b.                   | As of July 1, 2022, how many or what percentage of (identifies a bison as being a member of your operat   | bison less thation's herd)? b20           | n 1 year old                               | had a <b>herd id</b> d<br># <i>OR</i> | entificat<br>_% bisor   | ion<br>1        |
|               |                      | As of July 1, 2022, how many or what percentage of <b>unique individual identification</b> (a unique identified distinguished from all other bison in the herd)?  | r for each anima                          | al that enable                             | es it to be                           | _% biso                 | n               |
|               |                      | As of July 1, 2022, how many or what percentage of <b>unique individual identification</b> (a unique identified distinguished from all other bison in the herd)?  | r for each anima                          | al that enable                             | es it to be                           | _% biso                 | n               |
|               | e.                   | As of July 1, 2022, how many or what percentage of (no herd identification and no unique individual iden  |   |  |                                       |                         |                 |
| biso          | <b>on i</b> i<br>For | tions 6.c and 6.d BOTH = zero (no bison have un<br>the age category), GO TO question 8; otherwise<br>total bison inventory on July 1, 2022 (Section 1, Que<br>on had the following methods of individual identification | e, continue.] estion 3), how m            |  | •                                     | •                       |                 |
|               | Me                   | ethod of individual identification  | and                                       | Bison 1 year and older (Number OR Percent) |                                       | than<br>old<br>Percent) |                 |
|               | a.                   | Official ear tag (e.g., for brucellosis vaccination, national uniform eartagging system)  | #   | %  | #                                     |                         | b2028/<br>b2034 |
|               | b.                   | Other metal ear tag or plastic ear tag  | #   | %  | #                                     | %                       | b2029/<br>b2035 |
|               | C.                   | Electronic ear tag (radio-frequency identification [RFID])  | #   | %  | #                                     |                         | b2030/<br>b2036 |
|               | d.                   | Electronic implant/microchip  | #   | %  | #                                     | %                       | b2031/<br>b2037 |
|               | e.                   | Tattoo/freeze brand   | #   | %  | #                                     |                         | b2032/<br>b2038 |
|               | f.                   | Other (specify:) b0233  | #   | %  | #                                     | %                       | b2033/<br>b2039 |
| 8.            |                      | es this operation have facilities for handling/restrainin  If "Yes," were these facilities designed specifica  Section 3. Grazing and   | lly for bison?                            | b20  |                                       | es o₃N<br>es o₃N        | 0               |
|               | 0 <sub>1</sub> Y     | m July 1, 2021, through June 30, 2022, were any of tes—How many months were they on range/pastulo—GO TO question 7  | his operation's                           | bison on ran                               |                                       | montl                   | าร              |
|               |                      | m July 1, 2021, through June 30, 2022, how many tirner the majority of its pastured bison as a group?   |   |  |                                       | # tim                   | es              |
| [If q         | ues                  | tion 2 = zero, GO TO question 4; otherwise, conti   | inue.]                                    |  |                                       |                         |                 |
|               | as a                 | the most recent time this operation rounded up or ga<br>a group, were they gathered for the following reasons   | s?  |  |                                       |                         |                 |
|               |                      | Tagging/identificationVaccination   |   |  |                                       | es o₃N<br>es o₃N        |                 |
|               |                      | Deworming   |   |  | _                                     | es 03 N                 |                 |
|               |                      | Pregnancy checking  |   |  |                                       | es 0 <sub>3</sub> N     |                 |
|               | e.                   | Disease testing   |   | b30  | 008 O <sub>1</sub> Ye                 | es o <sub>3</sub> N     |                 |
|               |                      | Other veterinary need (e.g., physical exam, treatmer  |   |  |                                       | es o <sub>3</sub> N     |                 |
|               |                      | Weaning   |   |  |                                       |                         |                 |
|               |                      | Shipping (e.g., to slaughter, pasture)  Other (specify:   |   | b30<br>0312b30                             |                                       |                         |                 |

| 5. What is this operation's primary grazing system? [Check one only.]  O1 Rotational (often based on set number of days in each paddock) O2 Continuous O3 Holistic (requires some site-based evaluation and decision making to assess regeneration and determine schedule for moving animals among paddocks) O4 Other (specify: | 4. | From July 1, 2021, through June 30, 2022, what was the average stocking rate of bison on range/pasture (number of acres per bison animal unit) for this operation?b3013  | acres/anim         | al unit                  |
|---|----|--|--------------------|--------------------------|
| 6. From July 1, 2021, through June 30, 2022, were this operation's bison ever provided the following while on range/pasture?  a. Hay/roughage   | 5. | <ul> <li>O<sub>1</sub> Rotational (often based on set number of days in each paddock)</li> <li>O<sub>2</sub> Continuous</li> <li>O<sub>3</sub> Holistic (requires some site-based evaluation and decision making to assess regeneration and determine schedule for moving animals among paddocks)</li> </ul> |                    |                          |
| a. Hay/roughage   | 6. | From July 1, 2021, through June 30, 2022, were this operation's bison ever provided the f  | ollowing whi       | le on                    |
| b. Mineral supplements  |    | · ·  | o₁ Yes             | <b>0</b> <sub>3</sub> No |
| d. Energy/concentrates (e.g., grain)  |    | , ,  |                    |                          |
| 7. Does this operation use the following production practices for its bison?  a. Certified organic (certified to USDA organic standards)  |    | c. Vitamin supplementsb3017  | o <sub>1</sub> Yes | O <sub>3</sub> No        |
| a. Certified organic (certified to USDA organic standards)  |    | d. Energy/concentrates (e.g., grain)   | o <sub>1</sub> Yes | $o_3  No$                |
| a. Certified organic (certified to USDA organic standards)  | 7. | Does this operation use the following production practices for its bison?  |                    |                          |
| b. Grass fed (bison raised to meet USDA or American Grassfed Association [AGA] standards)   |    |  | o₁ Yes             | o <sub>3</sub> No        |
| <ul> <li>c. Raised without antibiotics</li></ul>  |    | b. Grass fed (bison raised to meet USDA or American Grassfed Association   |                    |                          |
| <ul> <li>d. Raised without feeds containing genetically modified organisms (GMOs)b3022 o₁Yes o₃No e. Certified for animal welfare, such as Global Animal Partnership (GAP) certified, Certified Humane®, American Humane Certified™</li></ul>   |    | [AGA] standards)b3020  | o <sub>1</sub> Yes | o <sub>3</sub> No        |
| e. Certified for animal welfare, such as Global Animal Partnership (GAP) certified, Certified Humane®, American Humane Certified™   |    |  | o₁Yes              | O <sub>3</sub> No        |
| Certified Humane®, American Humane Certified™   |    |  | o₁ Yes             | O <sub>3</sub> No        |
| 8. During the previous 5 years, did this operation ever conduct the following types of testing?  a. Forage testing  |    |  |                    |                          |
| a. Forage testing $$\tt b3024\tt$ $0_1Yes$ $0_3No$ b. Soil testing $\tt b3025\tt$ $0_1Yes$ $0_3No$ c. Water testing $\tt b3026\tt$ $0_1Yes$ $0_3No$   |    | Certified Humane®, American Humane Certified™b3023   | o₁Yes              | O <sub>3</sub> No        |
| b. Soil testing   | 8. | During the previous 5 years, did this operation ever conduct the following types of testing?   | )                  |                          |
| c. Water testing  |    | a. Forage testingb3024   | o <sub>1</sub> Yes | o <sub>3</sub> No        |
|   |    | b. Soil testing  | o <sub>1</sub> Yes | O <sub>3</sub> No        |
| Section 4. Biosecurity  |    | c. Water testing   | $o_1$ Yes          | o <sub>3</sub> No        |
| Section 4. Biosecurity  |    |  |                    |                          |
|   |    | Section 4. Biosecurity   |                    |                          |

1. From July 1, 2021, through June 30, 2022, were the following farmed animals ever present on **this operation**? If "Yes," could they have had physical contact with this operation's bison?

| Farmed animal                  | On operation?  If Yes, answer next column. → | Contact with bison?                  |              |
|--------------------------------|--|--------------------------------------|--------------|
| a. Cattle (beef or dairy)      | O <sub>1</sub> Yes O <sub>3</sub> No         | O <sub>1</sub> Yes O <sub>3</sub> No | b4001/ b4009 |
| b. Sheep or lambs              | o₁Yes o₃No                                   | O <sub>1</sub> Yes O <sub>3</sub> No | b4002/ b4010 |
| c. Goats                       | o₁Yes o₃No                                   | O <sub>1</sub> Yes O <sub>3</sub> No | b4003/ b4011 |
| d. Horses, donkeys, etc.       | o₁Yes o₃No                                   | O <sub>1</sub> Yes O <sub>3</sub> No | b4004/ b4012 |
| e. Swine                       | o <sub>1</sub> Yes o <sub>3</sub> No         | o <sub>1</sub> Yes o <sub>3</sub> No | b4005/ b4013 |
| f. Poultry                     | o₁Yes o₃No                                   | o <sub>1</sub> Yes o <sub>3</sub> No | b4006/ b4014 |
| g. Deer, elk, or other cervids | o <sub>1</sub> Yes o <sub>3</sub> No         | O <sub>1</sub> Yes O <sub>3</sub> No | b4007/ b4015 |
| h. Other (specify:) b0408      | o <sub>1</sub> Yes o <sub>3</sub> No         | O <sub>1</sub> Yes O <sub>3</sub> No | b4008/ b4016 |

2. From July 1, 2021, through June 30, 2022, were any of the following **farmed** animals belonging to **nearby operations** ever located within **1 mile** of this operation's bison? If "Yes," could they have had fence-line contact with this operation's bison?

| Neighboring farmed animal | Within 1 mile of operation's bison?                            | Fence-line contact                   |      |
|---------------------------|--|--------------------------------------|------|
| Neighboring farmed animal | If Yes, answer next column. → with operation's I               |                                      |      |
| a. Bison                  | o <sub>1</sub> Yes o <sub>2</sub> Don't know o <sub>3</sub> No | o <sub>1</sub> Yes o <sub>3</sub> No | b401 |
| b. Cattle (beef or dairy) | o <sub>1</sub> Yes o <sub>2</sub> Don't know o <sub>3</sub> No | o <sub>1</sub> Yes o <sub>3</sub> No | b401 |
| c. Sheep or lambs         | o <sub>1</sub> Yes o <sub>2</sub> Don't know o <sub>3</sub> No | O <sub>1</sub> Yes O <sub>3</sub> No | b401 |

b4017/ b4021 b4018/ b4022 b4019/ b4023 d. Deer, elk, or other cervids o<sub>1</sub> Yes o<sub>2</sub> Don't know o<sub>3</sub> No h4020/ h4024 O<sub>1</sub> Yes O<sub>3</sub> No

3. From July 1, 2021, through June 30, 2022, were the following wild animals ever seen inside this operation's perimeter fence or just outside the perimeter fence?

|                                | ANSWER B                             |                                      |              |
|--------------------------------|--------------------------------------|--------------------------------------|--------------|
| Wild animal                    | Inside perimeter fence?              | Just outside perimeter fence?        |              |
| a. Bison                       | o₁Yes o₃No                           | o₁Yes o₃No                           | b4025/ b4031 |
| b. Pronghorn (antelope)        | o₁Yes o₃No                           | o₁Yes o₃No                           | b4026/ b4032 |
| c. Sheep (e.g., bighorn)       | o₁Yes o₃No                           | o₁Yes o₃No                           | b4027/ b4033 |
| d. Deer, elk, or other cervids | O <sub>1</sub> Yes O <sub>3</sub> No | O <sub>1</sub> Yes O <sub>3</sub> No | b4028/ b4034 |
| e. Feral swine or wild boars   | o₁Yes o₃No                           | o₁Yes o₃No                           | b4029/ b4035 |
| f. Other (specify:) b0430      | O <sub>1</sub> Yes O <sub>3</sub> No | o <sub>1</sub> Yes o <sub>3</sub> No | b4030/ b4036 |

| 4. | From July 1, 2021, through June 30, 2022, did this operation take any actions wild animals or prevent them from accessing operation property or resources   |                                       |   | O <sub>3</sub> No                      |
|----|---|---------------------------------------|---|--|
| 5. | From July 1, 2021, through June 30, 2022, were any new bison brought on to (temporarily or permanently), or did any bison leave the operation and return or grazed off-site, taken to a show and returned, etc.)? $_{b4038}$ $O_1$ Yes— <b>Contin</b> | (such as b                            | eing bred   | stion 12                               |
| 6. | From July 1, 2021, through June 30, 2022, were any male or female bison temporarily <b>brought in</b> from other herds for breeding purposes?  a. Male bison  b. Female bison   |                                       | o <sub>1</sub> Yes<br>o <sub>1</sub> Yes  | 0 <sub>3</sub> N0<br>0 <sub>3</sub> N0 |
| 7. | From July 1, 2021, through June 30, 2022, were any male or female bison frosent to other herds for breeding purposes and subsequently returned to this a. Male bison  | operation<br>o <sub>4</sub> NA—N      | ?<br>No male bison  |  |
| 8. | From July 1, 2021, through June 30, 2022, were any bison from this operation grazing and subsequently <b>returned</b> to this operation? <sub>b4043</sub> O <sub>1</sub> Yes— <b>Continu</b>  |                                       | •   |  |
| 9. | Were bison sent off the operation for grazing commingled on pasture with the a. Bison from other operations   | O <sub>1</sub> Yes O <sub>1</sub> Yes | farmed anima<br>o <sub>2</sub> Don't know<br>o <sub>2</sub> Don't know<br>o <sub>2</sub> Don't know | 0 <sub>3</sub> No<br>0 <sub>3</sub> No |

## 10. From July 1, 2021, through June 30, 2022, how often were the following types of bison isolated (kept physically separated) before being commingled with this operation's bison? [NA=Not applicable: did not have that type of bison on the operation in the time frame.]

b. New bison joining the operation permanently or temporarily

## [If questions 10.a and 10.b BOTH = Never or NA, GO TO question 12; otherwise, continue.]

| 11 | . How many days were these types of t | oison typically isolated? | [NA=Not applicable; d | lid not have that type of biso | n |
|----|---------------------------------------|---------------------------|-----------------------|--------------------------------|---|
|    | on the operation in the time frame.]  |                           |                       |                                |   |
|    | a Diagn returning to the energtion    |                           |                       | 4 dovo o NIA                   |   |

a. Bison returning to the operation ......b4049

\_\_\_\_# days

o₁ Yes o₃ No

b. New bison joining the operation permanently or temporarily......<sub>b4050</sub>

\_\_\_\_# days O<sub>4</sub> NA

12. From July 1, 2021, through June 30, 2022, did this operation ever transport bison 

13. From July 1, 2021, through June 30, 2022, did this operation ever share any equipment other than trucks and trailers—such as tractors, chutes, feeding equipment, manure spreaders— 



- 14. Was shared equipment (other than trucks or trailers) cleaned prior to use? b4053.....01 Yes o2 DK o3 No

  If "Yes," which of the following best describes the cleaning procedures? [Check only one.] b4054

  o1 Wash equipment with water or steam only
  o2 Chemically disinfect only
  o3 Wash equipment and chemically disinfect
  o4 Other (specify:
- 15. For the following question, please answer with your best **estimates** to help us describe general visitor and bison contact patterns on operations. *Count a group of people visiting at the same time as a single visit.*For visitor types with more than zero visits, please complete the next two columns.

| Type of visitor  | Number of<br>month or<br>this visito<br>your ope<br>(best es | year by<br>r type to<br>eration | Did the v<br>typically<br>contac<br>operation<br>(touch/ha | y have<br>t with<br>bison?<br>ndle live | What is<br>the most<br>likely one-<br>way<br>distance<br>traveled<br>to your |                          |
|--|--|---------------------------------|--|---|--|--------------------------|
| from July 1, 2021, though June 30, 2022  | Month Or<br>If any visits, ar<br>next two colur              | nswer                           | bison o<br>through are<br>bison are<br>recently be         | eas where or have                       | operation<br>by this<br>visitor<br>type?<br>(miles)                          |                          |
| Business Visitors  |  |                                 |  |   |  |                          |
| A. Private or government veterinarian or animal health worker  |  |                                 | □Yes   | □ No                                    |  | b4055/b407<br>b4089/b410 |
| b. Extension agent   |  |                                 | □ Yes  | □ No                                    |  | b4056/b407<br>b4090/b410 |
| c. Nutritionist or feed company consultant   |  |                                 | □Yes   | □No                                     |  | b4057/b407<br>b4091/b410 |
| d. Other consultant(s) (specify: ) b0458   |  |                                 |  |   |  | b4058/b407<br>b4092/b410 |
| e. Bison trader, order buyer, or dealer/broker   |  |                                 | □ Yes  | □ No                                    |  | b4059/b407<br>b4093/b411 |
| f. Video auction representative  |  |                                 | □Yes   | □ No                                    |  | b4060/b407<br>b4094/b411 |
| g. Livestock hauler  |  |                                 | □ Yes  | □ No                                    |  | b4061/b407<br>b4095/b411 |
| h. Feed (hay or grain) hauler  |  |                                 | □ Yes  | □ No                                    |  | b4062/b407<br>b4096/b411 |
| i. Manure hauler   |  |                                 | □ Yes  | □ No                                    |  | b4063/b408<br>b4097/b411 |
| j. Mobile slaughter team   |  |                                 | □ Yes  | □ No                                    |  | b4064/b408<br>b4098/b411 |
| k. Renderer  |  |                                 | □ Yes  | □ No                                    |  | b4065/b408<br>b4099/b411 |
| <ol> <li>Consumer seeking bison products— e.g.,<br/>meat, hides, skulls</li> </ol>   |  |                                 | □Yes   | □ No                                    |  | b4066/b408<br>b4100/b411 |
| m. Consumer seeking activity—e.g., agri- or eco-tourism, game ranch/hunting  |  |                                 | □Yes   | □ No                                    |  | b4067/b408<br>b4101/b411 |
| n. School and other field trip visitors  |  |                                 | □ Yes  | □ No                                    |  | b4068/b408<br>b4102/b411 |
| Non-business Visitors  |  | 1                               | 1  |   | 1  |                          |
| o. Family, neighbors, friends, etc.  | Ť  |                                 | □ Yes  | □ No                                    |  | b4069/b408<br>b4103/b412 |
| <ul> <li>Other types of visitors not yet listed (home<br/>maintenance personnel, delivery, general<br/>services personnel, utility personnel, etc.)</li> </ul> |  |                                 | □ Yes  | □ No                                    |  | b4070/b408<br>b4104/b412 |
| q. Employees   |  |                                 | □Yes   | □ No                                    |  | b4071/b408               |
| q. ⊑πρισγεεσ   |  |                                 | 1 163  |   | I  | b4105/b412               |

16. For business visitors, non-business visitors, and employees, what number OR percentage of visits counted in Question 15 occurred in each season? If no visits occurred in a season, enter zero. The values for the four seasons should add up to 100% for each visitor class (unless there were zero visitors in the class).

| Season                                 | Business visitors |            | Non-busine | ess visitors | Employees |            |
|--|-------------------|------------|------------|--------------|-----------|------------|
| Season                                 | (Number O         | R Percent) | (Number C  | R Percent)   | (Number C | R Percent) |
| a.Winter (December, January, February) | #                 | %          | #          | %            | #         | %          |
| b.Spring (March, April, May)           | #                 | %          | #          | %            | #         | %          |
| c. Summer (June, July, August)         | #                 | %          | #          | %            | #         | %          |
| d.Fall (September, October, November)  | #                 | %          | #          | %            | #         | %          |
| Total                                  | #                 | 100%       | #          | 100%         | #         | 100%       |

b4123/ b4127/ b4131 b4124/ b4128/ b4132 b4125/ b4129/ b4133 b4126/ b4130/ b4134

# **Section 5. Reproduction**

| 1. | From July 1, 2021, through June 30, 2022, were an bison bred while on this operation?   |                         | o <sub>1</sub> Yes—Conti                | i <b>nue o</b> a     | 3 No— <b>GO</b> :         | TO section  | 6              |  |  |  |
|----|---|-------------------------|---|----------------------|---------------------------|---|----------------|--|--|--|
| 2. | Were the following practices used during the most ra. Natural breeding (bulls placed with cows and heb. Artificial insemination                                   | eifers)                 |   | b500                 | )2 <b>(</b> )3 <b>(</b> ) | s operation $0_1$ Yes $0_3$ N $0_1$ Yes $0_3$ N $0_1$ Yes $0_3$ N $0_1$ Yes $0_3$ N | 10<br>10       |  |  |  |
| 3. | Were the following reproductive techniques used fo a. Body condition scoring  | aluation,               | scrotal exam)                           | b5005 b5006 b5006    | 5 (6<br>6 (7)<br>7 (3)    | n?  01 Yes  | 10<br>10<br>10 |  |  |  |
| 4. | Were heifers bred on this operation during the most have not yet had a calf. $o_1$ Yes—At what age (months) were they first $o_3$ No                              |                         |   |                      |                           | le bison tha  |                |  |  |  |
| 5. | For this operation's breeding females that were breand cows had a calf born in 2022 that survived (or [Enter NA for Not Applicable if no bison bred in give       | likely wii              | i Survive) urilli w                     | age of he<br>eaning? |                           | eifers % co   |                |  |  |  |
| 6. | For as long as this operation has been breeding bis percentage of bred females (heifers and cows) that weaning? [Total number of years bison have been bred on or | bore a                  | calf that survived                      |                      | % heife                   |   | <b>VS</b>      |  |  |  |
| 7. | How are calves on this operation typically weaned? o 1 Natural weaning by mother bison o 2 Separation weaning / management practice                               | [Check                  | one only].                              | b501                 | 17                        |   |                |  |  |  |
| 8. | At what age (months) are calves on this operation to<br>the mother bison or by management practice?   |                         |   |                      |                           | montl   | ns             |  |  |  |
| 9. |   |                         |   |                      |                           |   |                |  |  |  |
| 1. | How familiar are you with the following diseases in I   | -                       |   |                      |                           |   |                |  |  |  |
| D  | isease  | Never<br>heard<br>of it | Recognize<br>the name, not<br>much else |                      | knowl-                    | Extremely knowl-edgeable  |                |  |  |  |
|    | Bovine tuberculosis (TB)  |                         |   |                      |                           |   | b6001          |  |  |  |
|    | . Brucellosis   |                         | $\square_2$                             | □₃                   | $\Box_4$                  | □ <sub>5</sub>  | b6001          |  |  |  |
|    | Bovine viral diarrhea (BVD)   |                         | $\square_2$                             | □₃                   | $\square_4$               | □5<br>□5  | b6002          |  |  |  |
|    | Malignant catarrhal fever (MCF)   |                         | $\square_2$                             | $\square_3$          | $\square_4$               | $\square_5$   | b6004          |  |  |  |
|    | Clostridial diseases  |                         | $\square_2$                             | □₃                   | $\square_4$               | □ <sub>5</sub>  | b6005          |  |  |  |
|    | Epizootic hemorrhagic disease (EHD)/ bluetongue   |                         | $\square_2$                             | □₃                   | $\square_4$               | <sub>5</sub>  | b6006          |  |  |  |
|    | Mannheimia/Pasteurella  |                         | $\square_2$                             | _3<br>□3             | $\square_4$               | —₃<br>□₅  | b6007          |  |  |  |

 $\square_1$ 

 $\square_2$ 

 $\square_3$ 

 $\square_4$ 

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h. Mycoplasma bovis

b6008

 $\square_5$ 

| 2. | From July 1, 2021, through June 30, 2022, inspection of your bison for general health   \( \preceq 1 \) Once a day \( \preceq 2 \) Once every few days \( \preceq 3 \) Once a week |  | ks<br>s often        | ation undertal   | (e a visua<br>) 60609                                       |
|----|--|--|----------------------|--|---|
| 3. | From July 1, 2021, through June 30, 2022, of this operation's bison dewormed?  | were any   |                      | -GO TO ques  |   |
| 4. | From July 1, 2021, through June 30, 2022, the majority of the bison on this operation of   |  | b6                   | 011  | # times   |
| 5. | From July 1, 2021, through June 30, 2022, on this operation? If "Yes," what was the av   |  |                      | r treatment?   |   |
| Pr | roduct   | Product used?  If Yes, answer next column. →               | Avera                | ge cost?   |   |
|    | Conventional dewormers (e.g.,<br>Ivermectin, Safeguard®, Doramectin)   | o <sub>1</sub> Yes o <sub>3</sub> No                       |                      | \$/bison/trtmt   | b6012/<br>b6015   |
|    | Natural/alternative dewormers (e.g., diatomaceous earth, botanicals, cayenne pepper) (specify:)  | O <sub>1</sub> Yes O <sub>3</sub> No                       |                      | \$/bison/trtmt   | b0613/<br>b6013/<br>b6016                                   |
| C. | Other dewormer (specify:   | O <sub>1</sub> Yes O <sub>3</sub> No                       |                      | \$/bison/trtmt   | b0614/<br>b6014/<br>b6017                                   |
| 7. | a. Pour-on   | did this operation do the following am? testinal parasites | b6019b6020b6021b6022 | O <sub>1</sub> Yes | 0 <sub>3</sub> No<br>0 <sub>3</sub> No<br>0 <sub>3</sub> No |
|    | ☐1 Self or employee on the ope<br>☐2 Private veterinarian<br>☐3 State/university laboratory  | □₅ Other (specify:   |                      |  | ) b0624   |
|    | b. Rotate dewormer type  |  |                      | o₁ Yes   |   |
|    | <ul><li>c. Give a combination of two or more dew</li><li>d. Use a different dose of dewormer in bis</li></ul>  | _  | b6026                | o <sub>1</sub> Yes   | O <sub>3</sub> No   |
|    | recommended for cattle   |  | b6027                | o <sub>1</sub> Yes   | O <sub>3</sub> No   |
|    | e. Rotate pastures   |  |                      | o <sub>1</sub> Yes   |   |
|    | f. Reduce stocking density   |  |                      | o₁ Yes   |   |
|    | g. Other (specify:   | ) b0630  | b6030                | o₁ Yes   | O <sub>3</sub> No   |
| 8. | From July 1, 2021, through June 30, 2022, ever used on this bison operation?   |  |                      |  |   |
|    | a. Diatomaceous earth (environmentally,  |  |                      | o₁Yes  |   |
|    | b. Other environmental fly control (e.g., sp   |  |                      | o <sub>1</sub> Yes   |   |
|    | c. Topical products (e.g., dust bags, dips,  |  |                      | 0 <sub>1</sub> Yes   |   |
|    | <ul><li>d. Oral products (e.g., feed-through larvic</li><li>e. Treated ear tags</li></ul>  |  |                      | o₁Yes<br>o₁Yes   | 0 <sub>3</sub> No   |
|    | f. Biological control (e.g., predator wasps  |  |                      | 0 <sub>1</sub> Yes   |   |
|    | n Garlic salt  | ·/·····  | hena7                | 0 <sub>1</sub> Tes   |   |

h. Other (specify: \_\_\_\_\_\_)  $_{b0638}$ ..... $_{b6038}$  o  $_{1}$  Yes o  $_{3}$  No



9. From July 1, 2021, through June 30, 2022, did this operation vaccinate any bison against the following diseases or pathogens? [Check box at top of column if none of that type of bison.]

|   | ANSWER BOTH COLUMNS        |                   |                           |                          |  |
|---|----------------------------|-------------------|---------------------------|--------------------------|--|
|   | Bison on                   | pasture           | Bison in                  | feedlot                  |  |
| Vaccinated against                                      | O <sub>4 NA</sub> -No biso | n on pasture      | O <sub>4 NA</sub> -No bis | on in feedlot            |  |
| a. Anthrax  | o₁ Yes                     | O <sub>3</sub> No | o₁ Yes                    | O <sub>3</sub> No        |  |
| b. Brucellosis  | o <sub>1</sub> Yes         | O <sub>3</sub> No | o₁ Yes                    | O <sub>3</sub> No        |  |
| c. Bovine respiratory syncytial virus (BRSV)            | o <sub>1</sub> Yes         | O <sub>3</sub> No | o₁ Yes                    | O <sub>3</sub> No        |  |
| d. Bovine viral diarrhea virus (BVDV)                   | o₁Yes                      | O <sub>3</sub> No | o₁ Yes                    | <b>0</b> <sub>3</sub> No |  |
| e. Clostridium species (tetanus, blackleg; e.g., 7-way) | o <sub>1</sub> Yes         | O <sub>3</sub> No | o₁ Yes                    | o <sub>3</sub> No        |  |
| f. Infectious bovine rhinotracheitis (IBR)              | o₁ Yes                     | O <sub>3</sub> NO | o₁ Yes                    | O <sub>3</sub> No        |  |
| g. Leptospirosis  | o₁ Yes                     | O <sub>3</sub> NO | o₁ Yes                    | o <sub>3</sub> No        |  |
| h. <i>Mycoplasma bovis</i>                              | o <sub>1</sub> Yes         | O <sub>3</sub> No | o₁ Yes                    | o <sub>3</sub> No        |  |
| i. Parainfluenza 3 virus (PI3)                          | o <sub>1</sub> Yes         | O <sub>3</sub> NO | o₁ Yes                    | <b>0</b> <sub>3</sub> No |  |
| j. Pasteurella species                                  | O <sub>1</sub> Yes         | O <sub>3</sub> No | o₁ Yes                    | o <sub>3</sub> No        |  |
| k. Rotavirus/coronavirus                                | o <sub>1</sub> Yes         | O <sub>3</sub> No | o₁ Yes                    | O <sub>3</sub> No        |  |
| l. Other disease/pathogen (specify:) 60650              | O <sub>1</sub> Yes         | O <sub>3</sub> No | O <sub>1</sub> Yes        | O <sub>3</sub> No        |  |

11. Did the veterinarian visit the bison operation in person for the following reasons?

| a. | Medical treatment of bison, for illness or injuryb6064      | o <sub>1</sub> Yes | $o_3  No$         |
|----|---|--------------------|-------------------|
| b. | Consultation, such as nutrition or reproduction adviceb6065 | o <sub>1</sub> Yes | $o_3  No$         |
| C. | Vaccinationb6066  | o <sub>1</sub> Yes | $o_3 No$          |
| d. | Health certificate issuanceb6067                            | o <sub>1</sub> Yes | $o_3  No$         |
| e. | Reproductive procedure (e.g., pregnancy check)b6068         | o <sub>1</sub> Yes | $o_3  No$         |
| f. | Disease testing/sample collectionb6069                      | $o_1$ Yes          | $o_3  No$         |
| g. | Tranquilization/handlingb6070                               | o <sub>1</sub> Yes | $o_3  No$         |
| h. | Euthanasiab6071   | o <sub>1</sub> Yes | $o_3  No$         |
| i. | Postmortem exam/necropsyb6072                               | $o_1$ Yes          | $o_3  No$         |
| j. | Employee trainingb6073                                      | o <sub>1</sub> Yes | $o_3  No$         |
| k. | Other (specify:) 6067466074                                 | $o_1$ Yes          | O <sub>3</sub> No |

12. From July 1, 2021, through June 30, 2022, were the following health problems present (suspected or confirmed) in any bison in the indicated age groups on this operation? [DK = Don't know/Not sure.]

| Health problem                    | Bison more than<br>3 years old                         | Bison<br>1 to 3 years old                              | Bison less than<br>1 year old                          |
|-----------------------------------|--|--|--|
| a. Pneumonia/respiratory          | O <sub>1</sub> Yes O <sub>2</sub> DK O <sub>3</sub> NO | o <sub>1</sub> Yes o <sub>2</sub> DK o <sub>3</sub> No | O <sub>1</sub> Yes O <sub>2</sub> DK O <sub>3</sub> No |
| b. Abortion/reproductive disorder | o <sub>1</sub> Yes o <sub>2</sub> DK o <sub>3</sub> No | o <sub>1</sub> Yes o <sub>2</sub> DK o <sub>3</sub> No | not applicable   |
| c. Arthritis/lameness             | o <sub>1</sub> Yes o <sub>2</sub> DK o <sub>3</sub> No | o <sub>1</sub> Yes o <sub>2</sub> DK o <sub>3</sub> No | O <sub>1</sub> Yes O <sub>2</sub> DK O <sub>3</sub> No |
| d. Internal parasites             | o <sub>1</sub> Yes o <sub>2</sub> DK o <sub>3</sub> No | o <sub>1</sub> Yes o <sub>2</sub> DK o <sub>3</sub> No | O <sub>1</sub> Yes O <sub>2</sub> DK O <sub>3</sub> No |
| e. Off feed/weight loss           | o₁Yes o₂DK o₃No  | o <sub>1</sub> Yes o <sub>2</sub> DK o <sub>3</sub> No | O <sub>1</sub> Yes O <sub>2</sub> DK O <sub>3</sub> No |
| f. Diarrhea                       | o₁Yes o₂DK o₃No  | o <sub>1</sub> Yes o <sub>2</sub> DK o <sub>3</sub> No | O <sub>1</sub> Yes O <sub>2</sub> DK O <sub>3</sub> No |
| g. Oral erosions                  | o <sub>1</sub> Yes o <sub>2</sub> DK o <sub>3</sub> No | o <sub>1</sub> Yes o <sub>2</sub> DK o <sub>3</sub> No | O <sub>1</sub> Yes O <sub>2</sub> DK O <sub>3</sub> No |
| h. Eye lesions                    | o₁Yes o₂DK o₃No  | o <sub>1</sub> Yes o <sub>2</sub> DK o <sub>3</sub> No | O <sub>1</sub> Yes O <sub>2</sub> DK O <sub>3</sub> No |
| i. Toxin exposure                 | o <sub>1</sub> Yes o <sub>2</sub> DK o <sub>3</sub> No | o <sub>1</sub> Yes o <sub>2</sub> DK o <sub>3</sub> No | O <sub>1</sub> Yes O <sub>2</sub> DK O <sub>3</sub> No |
| j. Other (specify:) b0684         | O <sub>1</sub> Yes O <sub>2</sub> DK O <sub>3</sub> No | O <sub>1</sub> Yes O <sub>2</sub> DK O <sub>3</sub> No | O <sub>1</sub> Yes O <sub>2</sub> DK O <sub>3</sub> No |

b6075/ b6085/ b6095 b6076/ b6086 b6077/ b6087/ b6096 b6078/ b6088/ b6097/ b6098/ b6080/ b6090/ b6099 b6081/ b6091/ b6100 b6082/ b6092/ b6101 b6083/ b6093/ b6102 b6084/ b6094/ b6103

- 13. Were any individual bison that became sick on this operation treated with antibiotics? b6104  $O_1$  Yes—**Continue**  $O_3$  No—**GO TO question 16**
- 14. For individual bison that were administered antibiotics to treat illness, how often was the following information noted in a record-keeping system? [Check one box per row.]

a. Date(s) treated  $0_1$  Always  $0_2$  Sometimes  $0_3$  Never  $0_4$  DK b. Antibiotic given  $0_1$  Always  $0_2$  Sometimes  $0_3$  Never  $0_4$  DK c. Antibiotic dose, regimen, or protocol  $0_1$  Always  $0_2$  Sometimes  $0_3$  Never  $0_4$  DK  $0_1$  Always  $0_2$  Sometimes  $0_3$  Never  $0_4$  DK

15. How important were the following factors in the selection of an antibiotic for treatment of a health problem? [Check one box per row.]

| Fa | ctor   | Not<br>important      | Slightly important    | Moderately important  | Very<br>important     | Extremely important   |                 |
|----|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------|
| a. | Veterinarian recommendations                                   | <b>O</b> <sub>1</sub> | $O_2$                 | <b>O</b> <sub>3</sub> | $O_4$                 | <b>O</b> <sub>5</sub> | b6108           |
| b. | Other producers' recommendations                               | <b>O</b> <sub>1</sub> | <b>O</b> <sub>2</sub> | <b>O</b> <sub>3</sub> | $O_4$                 | <b>O</b> <sub>5</sub> | b6109           |
| C. | Laboratory test results  | <b>O</b> <sub>1</sub> | <b>O</b> <sub>2</sub> | <b>O</b> <sub>3</sub> | <b>O</b> <sub>4</sub> | <b>O</b> <sub>5</sub> | b6110           |
| d. | Drug company advertisement                                     | <b>O</b> <sub>1</sub> | <b>O</b> <sub>2</sub> | <b>O</b> <sub>3</sub> | <b>O</b> <sub>4</sub> | <b>O</b> <sub>5</sub> | b6111           |
| e. | Personal experience (past response rates)                      | O <sub>1</sub>        | 02                    | <b>O</b> <sub>3</sub> | <b>O</b> <sub>4</sub> | <b>O</b> <sub>5</sub> | b6112           |
| f. | Cost of an antibiotic  | <b>O</b> <sub>1</sub> | <b>O</b> <sub>2</sub> | <b>O</b> <sub>3</sub> | $O_4$                 | <b>O</b> <sub>5</sub> | b6113           |
| g. | Approved route by which an antibiotic is given                 | <b>O</b> <sub>1</sub> | <b>O</b> <sub>2</sub> | <b>O</b> <sub>3</sub> | O <sub>4</sub>        | <b>O</b> <sub>5</sub> | b6114           |
| h. | Duration of action (e.g., only needs to be given once)         | 01                    | 02                    | <b>O</b> <sub>3</sub> | $O_4$                 | <b>O</b> <sub>5</sub> | b6115           |
| i. | Drug withdrawal time   | 01                    | 02                    | <b>O</b> <sub>3</sub> | $O_4$                 | <b>O</b> <sub>5</sub> | b6116           |
| j. | Over the counter availability (i.e., no prescription required) | 01                    | <b>O</b> <sub>2</sub> | O <sub>3</sub>        | <b>O</b> <sub>4</sub> | <b>O</b> <sub>5</sub> | b6117           |
| k. | Other (specify:)   | 01                    | <b>O</b> <sub>2</sub> | <b>O</b> <sub>3</sub> | <b>O</b> <sub>4</sub> | <b>O</b> <sub>5</sub> | b0618/<br>b6118 |

16. From July 1, 2021, through June 30, 2022, did any of the operation's bison in the indicated age groups die because of the following diseases, disorders, or health problems? [DK = Don't know.]

| Cause of death                                    | Bison more than 3 years old                            | Bison<br>1 to 3 years old                              | Bison less than<br>1 year old                          |                               |
|---|--|--|--|-------------------------------|
| a. Mycoplasma bovis<br>(confirmed by vet or lab)  | o <sub>1</sub> Yes o <sub>2</sub> DK o <sub>3</sub> No | o₁Yes o₂DK o₃No  | o₁Yes o₂DK o₃No  | b6119/ b6130/<br>b6141        |
| b. Malignant catarrhal fever (MCF)                | o₁Yes o₂DK o₃No  | o <sub>1</sub> Yes o <sub>2</sub> DK o <sub>3</sub> No | o <sub>1</sub> Yes o <sub>2</sub> DK o <sub>3</sub> No | b6120/ b6131/<br>b6142        |
| c. Epizootic hemorrhagic disease (EHD)/bluetongue | o <sub>1</sub> Yes o <sub>2</sub> DK o <sub>3</sub> No | o <sub>1</sub> Yes o <sub>2</sub> DK o <sub>3</sub> No | o <sub>1</sub> Yes o <sub>2</sub> DK o <sub>3</sub> No | b6121/ b6132/<br>b6143        |
| d. Parasitism as primary cause of death           | o <sub>1</sub> Yes o <sub>2</sub> DK o <sub>3</sub> No | o <sub>1</sub> Yes o <sub>2</sub> DK o <sub>3</sub> No | o <sub>1</sub> Yes o <sub>2</sub> DK o <sub>3</sub> No | b6122/ b6133/<br>b6144        |
| e. Mannheimia/Pasteurella                         | o <sub>1</sub> Yes o <sub>2</sub> DK o <sub>3</sub> No | o <sub>1</sub> Yes o <sub>2</sub> DK o <sub>3</sub> No | o <sub>1</sub> Yes o <sub>2</sub> DK o <sub>3</sub> No | b6123/ b6134/<br>b6145        |
| f. Other respiratory illness/<br>pneumonia        | o₁Yes o₂DK o₃No  | o₁Yes o₂DK o₃No  | o <sub>1</sub> Yes o <sub>2</sub> DK o <sub>3</sub> No | b6124/ b6135/<br>b6146        |
| g. Digestive illness                              | o <sub>1</sub> Yes o <sub>2</sub> DK o <sub>3</sub> No | o <sub>1</sub> Yes o <sub>2</sub> DK o <sub>3</sub> No | o <sub>1</sub> Yes o <sub>2</sub> DK o <sub>3</sub> No | b6125/ b6136/<br>b6147        |
| h. Neurologic disorder                            | o <sub>1</sub> Yes o <sub>2</sub> DK o <sub>3</sub> No | o <sub>1</sub> Yes o <sub>2</sub> DK o <sub>3</sub> No | o <sub>1</sub> Yes o <sub>2</sub> DK o <sub>3</sub> No | b6126/ b6137/<br>b6148        |
| i. Nutritional deficiency (specify:)              | o₁Yes o₂DK o₃No  | o₁Yes o₂DK o₃No  | o <sub>1</sub> Yes o <sub>2</sub> DK o <sub>3</sub> No | b1627/ b6127/<br>b6138/ b6149 |
| j. Other disease (specify:)                       | o₁Yes o₂DK o₃No  | o₁Yes o₂DK o₃No  | o <sub>1</sub> Yes o <sub>2</sub> DK o <sub>3</sub> No | b1628/ b6128/<br>b6139/b6150  |
| k. Unknown health problem                         | o <sub>1</sub> Yes o <sub>2</sub> DK o <sub>3</sub> No | o <sub>1</sub> Yes o <sub>2</sub> DK o <sub>3</sub> No | o <sub>1</sub> Yes o <sub>2</sub> DK o <sub>3</sub> No | b6129/ b6140/<br>b6151        |

| 17. |  | m July 1, 2021, through June 30, 20 formed on any of this operation's bis   |                       |   | O <sub>3</sub> No                              | —GO T                      | O questi  | on 19  |
|-----|--|---|-----------------------|---|--|----------------------------|---|--|
| 18. | O <sub>1</sub> O <sub>2</sub> O <sub>3</sub> | o performed the majority of necropsi<br>Owner/manager/staff<br>Private veterinarian<br>Federal or state veterinarian<br>Other (specify:   |                       |   | ,  | b1653                      |   | b6153  |
| 10  |  | m July 1, 2021, through June 30, 20   |                       |   |  |                            |   |  |
|     |  | disposing of dead bison? [Check one   |                       |   | iary iii                                       | Cuiou                      |   | b6154  |
|     | <b>O</b> <sub>1</sub>                        | NA - No bison died O <sub>5</sub>   | Re                    | endered   |  |                            |   |  |
|     | $\mathbf{O}_2$                               | Composted O <sub>5</sub>  | Ind                   | cinerated   |  |                            |   |  |
|     | $\mathbf{O}_2$                               |   |                       | o disposal method (left to nature/sc  | _  | •                          |   |  |
|     | <b>O</b> 3                                   | Sent to landfill $o_7$  | Ot                    | ther (specify:  |  |                            |   | ) b1654  |
| 20. | dis  | hin the past <b>5 years</b> , did this operati<br>ease-related death loss in its bison h<br>ough 24 as a level of death loss in yo  | erd<br>our h          | ? Abnormally high death loss is nerd more than twice what you'd no                        | define<br>ormally                              | d here for                 | or questic<br>for your h  | erd.   |
| 21. |  | ring the <b>most recent period</b> of abno<br>e groups experience high death loss?  | ? [N                  | A = Not applicable; no bison in age   |  |                            |   |  |
|     | a.   | Bison more than 3 years old   |                       |   |  | o <sub>1</sub> Yes         | 0 <sub>3</sub> No   | O <sub>4</sub> NA  |
|     | b.   | Bison 1 to 3 years old<br>Bison less than 1 year old  |                       |   |  | o₁ Yes<br>o₁ Yes           | o₃ No<br>o₃ No  | 0 <sub>4</sub> NA<br>0 <sub>4</sub> NA   |
|     | c.<br>d.                                     | Bison fetuses (spontaneous abortio  |                       |   |  | O <sub>1</sub> Yes         | 03 NO   | 0 <sub>4</sub> NA<br>0 <sub>4</sub> NA   |
|     | folloa.<br>b.<br>c.<br>d.<br>e.<br>f.        | the most recent period of abnormation by the most recent period of abnormation by the property of the most recent period of abnormation by the property of the most recent period of abnormation by the most recent period of abnormation before the m      | e the                 | ey died?  | b61<br>b61<br>b61                              | 61<br>62<br>63<br>64<br>65 | O <sub>1</sub> Yes | 0 <sub>3</sub> No<br>0 <sub>3</sub> No<br>0 <sub>3</sub> No<br>0 <sub>3</sub> No |
| 23. |  | the <b>most recent period</b> of abnormation the most recent period of abnormatic the firm the most recent period of abnormatic |                       |   |  | <b>!</b>                   |   |  |
|     | a.   | Mycoplasma bovis  | <b></b>               |   | b61  |                            | o <sub>1</sub> Yes  | O <sub>3</sub> No  |
|     | b.   | Malignant catarrhal fever (MCF)   |                       |   | b61  | 67                         | o <sub>1</sub> Yes  |  |
|     |  | Parasitism (internal and/or external Other (specify:  |                       |   |  |                            | o <sub>1</sub> Yes<br>o <sub>1</sub> Yes  |  |
|     | u.   |   |                       | . Disease Testing Practices   |  | .09                        | 01103   | 03110  |
| 1.  | ام   | s this operation ever had any of its b  |                       |   | <u>,                                      </u> |                            |   |  |
| Δ.  |  | prior to purchase/arrival on farm?  | 15011                 | b7001 O <sub>1</sub> Yes—Con  | tinue (  | o₃ No— <b>G</b>            | O TO qu   | estion 6   |
| 2.  | <b>O</b> <sub>1</sub> <b>O</b> <sub>2</sub>  | en was the most recent TB test for a<br>Less than 1 year ago<br>1 to 2 years ago<br>2 to 3 years ago  | ıny (                 | of this operation's bison? [Check of $o_4$ 3 to 5 years ago $o_5$ More than 5 years ago   | ne only  | /.]                        |   | b7002  |
| 3.  | <b>O</b> <sub>1</sub>                        | ring the most recent TB test, which b<br>Entire herd<br>Bison less than 1 year old only   | <b>O</b> <sub>4</sub> | n did this operation test? [Check or<br>Specific bison only (describe:<br>Other (specify: |  |                            |   | b7003<br>) b0703<br>) b0704  |

- o<sub>3</sub> Bison 1 year and older only
- 4. When this operation's bison were last tested for TB, were they tested for the following purposes?

| a. | Herd accreditation for TB-free statusb7004   | o <sub>1</sub> Yes | O <sub>3</sub> No |
|----|--|--------------------|-------------------|
| b. | Movement requirementb7005  | o <sub>1</sub> Yes | O <sub>3</sub> No |
| C. | Show or exhibition requirement <sub>b7006</sub>                                    | $o_1$ Yes          | O <sub>3</sub> No |
| d. | State requirementb7007   | o <sub>1</sub> Yes | O <sub>3</sub> No |
| e. | Veterinarian (nonregulatory, private practitioner) recommendation <sub>b7008</sub> | o <sub>1</sub> Yes | O <sub>3</sub> No |
| f. | Sale requirementb7009  | $o_1$ Yes          | o <sub>3</sub> No |
| g. | Other (specify:) 60710   | o <sub>1</sub> Yes | O <sub>3</sub> No |
|    |  |                    |                   |

- 5. Is this operation's bison herd an Accredited Herd for Tuberculosis (TB) or in the process of becoming an Accredited Herd?..... $o_1$  Yes  $o_3$  No
- 6. Has this operation ever had any of its bison tested for brucellosis, either on farm or prior to purchase/arrival on farm? b7012 O<sub>1</sub> O<sub>1</sub> Yes—**Continue** O<sub>3</sub> No—**GO TO question 9**
- 7. When this operation's bison were last tested for brucellosis, were they tested for the following purposes?

8. Is this operation's bison herd a Certified Brucellosis-Free Herd or in the

| a. | Herd certification for Brucellosis-Free Herd statusb7013                           | o₁Yes              | O <sub>3</sub> No |
|----|--|--------------------|-------------------|
| b. | Movement requirementb7014  | o <sub>1</sub> Yes | O <sub>3</sub> No |
| C. | Show or exhibition requirementb7015  | O <sub>1</sub> Yes | O <sub>3</sub> No |
| d. | State requirementb7016   | o <sub>1</sub> Yes | O <sub>3</sub> No |
| e. | Veterinarian (nonregulatory, private practitioner) recommendation <sub>b7017</sub> | o <sub>1</sub> Yes | O <sub>3</sub> No |
| f. | Sale requirementb7018  | o <sub>1</sub> Yes | O <sub>3</sub> No |
| g. | Other (specify:) 6071957019  | o <sub>1</sub> Yes | O <sub>3</sub> No |
|    |  |                    |                   |

- process of becoming a Certified Brucellosis-Free Herd? ......<sub>b7020</sub> o<sub>1</sub> Yes o<sub>3</sub> No
- 9. How concerned are you with the following issues and challenges related to testing this operation's bison for diseases, such as TB?

| Issues and challenges                                  | Not concerned         | Slightly concerned    | Moderately concerned  | Very concerned | Extremely concerned   |       |
|--|-----------------------|-----------------------|-----------------------|----------------|-----------------------|-------|
| a. Expense of testing                                  | 01                    | <b>O</b> <sub>2</sub> | <b>O</b> <sub>3</sub> | $\mathbf{O}_4$ | <b>O</b> <sub>5</sub> | b7021 |
| b. Stress on bison from testing                        | <b>O</b> <sub>1</sub> | $O_2$                 | <b>O</b> <sub>3</sub> | $O_4$          | <b>O</b> <sub>5</sub> | b7022 |
| c. Bison injuries or deaths from handling              | 01                    | <b>O</b> <sub>2</sub> | <b>O</b> <sub>3</sub> | $O_4$          | <b>O</b> <sub>5</sub> | b7023 |
| d. Reliability of tests (e.g., false-positive results) | <b>O</b> <sub>1</sub> | O <sub>2</sub>        | <b>O</b> <sub>3</sub> | $O_4$          | <b>O</b> <sub>5</sub> | b7024 |
| e. Amount of time required for testing                 | <b>O</b> <sub>1</sub> | <b>O</b> <sub>2</sub> | <b>O</b> <sub>3</sub> | $O_4$          | <b>O</b> <sub>5</sub> | b7025 |
| f. Lack of facilities to restrain bison for testing    | O <sub>1</sub>        | $O_2$                 | <b>O</b> <sub>3</sub> | $O_4$          | <b>O</b> <sub>5</sub> | b7026 |

## Section 8. Bison Shipments and Movements

**Note to Producer**: We are requesting detailed information about bison shipments on to and off your operation to provide baseline data for disease-simulation models for emergency preparedness, including comparing disease-control strategies and estimating resources needed in the event of a disease outbreak. The information will help researchers analyze the potential spread of bison diseases and evaluate possible response measures to the diseases to help reduce the negative impacts of an outbreak.

1. From July 1, 2021, through June 30, 2022, did this operation add any bison to its herd from off-site sources?

b8001 O<sub>1</sub> Yes—Continue O<sub>3</sub> No—GO TO question 4



- 2. From July 1, 2021, through June 30, 2022, how many **shipments** of bison were **added to** your operation from the following sources? What were the estimated shortest, most likely, and longest one-way distances of those shipments? For the most likely distance, indicate the estimated distance that most shipments likely traveled from the source to your operation.
  - A **shipment** is a group of bison (one or more) that are moved together on the same day, regardless of the number of vehicles required to move them. For the average number of bison in a shipment, count all bison regardless of age.
  - If no shipments occurred, enter zero to indicate no bison were shipped on to the operation from that source.

| Source                          | Number of shipments | Shortest 1-way<br>distance traveled<br>to your operation<br>from this type of<br>source (miles) | Most likely 1-way<br>distance traveled<br>to your operation<br>from this type of<br>source (miles) | Longest 1-way<br>distance traveled<br>to your operation<br>from this type of<br>source (miles) |   |
|---------------------------------|---------------------|---|--|--|---|
| a. Private sale                 |                     |   |  |  | b8002/ b8008/<br>b8013/ b8018/ b8023      |
| b.Trade                         |                     |   |  |  | b8003/ b8009/<br>b8014/ b8019/ b8024      |
| c. Auction/sale barn            |                     |   |  |  | b8004/ b8010/<br>b8015/ b8020/ b802!      |
| d.Dealer/broker                 |                     |   |  |  | b8005/ b8011/<br>b8016/ b8021/ b8020      |
| e.Other (specify:               |                     |   |  |  | b0806/b8006/ b8012<br>b8017/ b8022/ b8027 |
| f. Total (add items<br>2.a–2.e) |                     |   |  |  | b8007                                     |

3. Of the total shipments of bison added to your operation noted in Question 2.f above, what percentage of shipments occurred in each season? If no shipments occurred in a season, enter zero. The values for the four seasons should add up to 100%.

| Sagan  | Total shipments (Question 2.f) |            |       |  |  |
|--|--------------------------------|------------|-------|--|--|
| Season   | Number                         | OR Percent |       |  |  |
| a.Winter (December, January, February)               | #                              | %          | b8028 |  |  |
| b.Spring (March, April, May)                         | #                              | %          | b8029 |  |  |
| c. Summer (June, July, August)                       | #                              | %          | b8030 |  |  |
| d.Fall (September, October, November)                | #                              | %          | b8031 |  |  |
| Total (items 3.a–3.d should sum to Item 2.f OR 100%) | #                              | 100%       | b8032 |  |  |

- 4. From July 1, 2021, through June 30, 2022, did this operation send any bison from its herd permanently to off-site destinations? b8033 O<sub>1</sub> Yes—Continue O<sub>3</sub> NO—GO TO section 9
- 5. From July 1, 2021, through June 30, 2022, how many **shipments** of bison **left your** operation permanently for the following destinations? What were the estimated shortest, most likely, and longest one-way distances of those shipments? For the most likely distance, indicate the estimated distance that most shipments likely traveled from your operation to the destination
  - A shipment is a group of bison (one or more) that are moved together on the same day, regardless of the number of vehicles required to move them. For the average number of bison in a shipment, count all bison regardless of age.
  - If no shipments occurred, enter zero to indicate no bison were shipped off the operation to that destination.

| Destination                     | Number of shipments | ⊢ AT NICAN | Shortest one-way<br>distance traveled<br>from your<br>operation to this<br>type of<br>destination (miles) | traveled from your operation to this type of | Longest one-<br>way distance<br>traveled from<br>operation to<br>this type of<br>destination<br>(miles) |                                      |
|---------------------------------|---------------------|------------|---|--|---|--------------------------------------|
| a. Direct to off-site slaughter |                     |            |   |  |   | b8034/ b8041/ b8047/<br>b8053/ b8059 |
| b. Direct to feedlot            |                     |            |   |  |   | b8035/ b8042/ b8048/<br>b8054/ b8060 |
| c. Direct to auction/sale barr  |                     |            |   |  |   | b8036/ b8043/ b8049/<br>b8055/ b8061 |

| d. Direct to dealer/broker                            |  |  | b8037/ b8044/ b8050/<br>b8056/ b8062       |
|---|--|--|--|
| e. Direct to another bison operation (for any reason) |  |  | b8038/ b8045/ b8051/<br>b8057/ b8063       |
| f. Other (specify:                                    |  |  | b0839/b8039/ b8046/<br>b8052/ b8058/ b8064 |
| g. Total (sum items 5.a–5.f)                          |  |  | b8040                                      |

6. Of the total shipments of bison **removed from your operation permanently** noted in Question 5.g above, what percentage of shipments occurred in each season? If no shipments occurred in a season, enter zero. The values for the four seasons should add up to 100%.

| Season  | Total shipments (Question 5.g) |    |         |       |  |  |
|---|--------------------------------|----|---------|-------|--|--|
| Season  | Number                         | OR | Percent |       |  |  |
| a.Winter (December, January, February)                      | #                              |    | %       | b8065 |  |  |
| b.Spring (March, April, May)                                | #                              |    | %       | b8066 |  |  |
| c. Summer (June, July, August)                              | #                              |    | %       | b8067 |  |  |
| d.Fall (September, October, November)                       | #                              |    | %       | b8068 |  |  |
| <b>Total</b> (items 6.a–6.d should sum to Item 5.g OR 100%) | #                              |    | 100%    | b8069 |  |  |

# **Section 9. Associations and Information Sources**

| 1. | Do | you belong to the following bison or cattle associations?                       |                    |                   |
|----|----|---|--------------------|-------------------|
|    | a. | National Bison Associationb9001   | o <sub>1</sub> Yes | O <sub>3</sub> No |
|    | b. | Regional, state, and/or local bison associationsb9002                           | o <sub>1</sub> Yes | O <sub>3</sub> No |
|    | C. | InterTribal Buffalo Councilb9003  | o <sub>1</sub> Yes | O <sub>3</sub> No |
|    | d. | Regional, state, and/or local <b>Tribal</b> bison associations <sub>b9004</sub> | o <sub>1</sub> Yes | O <sub>3</sub> No |
|    | e. | Canadian Bison Associationb9005   | o <sub>1</sub> Yes | O <sub>3</sub> No |
|    | f. | National Cattlemen's Beef Associationb9006                                      | o <sub>1</sub> Yes | O <sub>3</sub> No |
|    | g. | U.S. Cattlemen's Association  | o <sub>1</sub> Yes | O <sub>3</sub> No |
|    | h. | R-CALF USAb9008   | o <sub>1</sub> Yes | O <sub>3</sub> No |
|    | i. | Regional, state, and/or local cattle associations                               | o <sub>1</sub> Yes | O <sub>3</sub> No |
|    | j. | Other (specify:) 60910  | o <sub>1</sub> Yes | O <sub>3</sub> No |

2. How important to you are the following bison health information sources? [Check one box per row.]

| Health information sources              | Not<br>important        | Slightly<br>t important | Moderately important  | •                     | Extremely important   |        |
|---|-------------------------|-------------------------|-----------------------|-----------------------|-----------------------|--------|
| a. Bison association resources/meetings | S <b>O</b> <sub>1</sub> | <b>O</b> <sub>2</sub>   | <b>O</b> <sub>3</sub> | $O_4$                 | <b>O</b> <sub>5</sub> | b9011  |
| b. Producer gatherings (informal)       | $O_1$                   | <b>O</b> <sub>2</sub>   | <b>O</b> <sub>3</sub> | $O_4$                 | <b>O</b> <sub>5</sub> | b9012  |
| c. Other producers—individually         | $O_1$                   | <b>O</b> <sub>2</sub>   | <b>O</b> <sub>3</sub> | $O_4$                 | <b>O</b> <sub>5</sub> | b9013  |
| d. Internet                             | $O_1$                   | <b>O</b> <sub>2</sub>   | <b>O</b> <sub>3</sub> | <b>O</b> <sub>4</sub> | <b>O</b> <sub>5</sub> | b9014  |
| e. Magazines/newsletters                | $O_1$                   | <b>O</b> <sub>2</sub>   | <b>O</b> <sub>3</sub> | $O_4$                 | <b>O</b> <sub>5</sub> | b9015  |
| f. University/extension                 | $O_1$                   | <b>O</b> <sub>2</sub>   | <b>O</b> <sub>3</sub> | $O_4$                 | <b>O</b> <sub>5</sub> | b9016  |
| g. Veterinarians                        | $O_1$                   | <b>O</b> <sub>2</sub>   | <b>O</b> <sub>3</sub> | <b>O</b> <sub>4</sub> | <b>O</b> <sub>5</sub> | b9017  |
| h. Feed and drug salespeople            | $O_1$                   | <b>O</b> <sub>2</sub>   | <b>O</b> <sub>3</sub> | <b>O</b> <sub>4</sub> | <b>O</b> <sub>5</sub> | b9018  |
| i. Other (specify:                      | $O_1$                   | $O_2$                   | $O_3$                 | $O_4$                 | <b>O</b> <sub>5</sub> | b0919/ |

|     | Section 10. Conclusion  |                                    |   |    |
|-----|---|------------------------------------|---|----|
| 1.  | We anticipate that results of this study will be published and available in 2024. Enter if you would like to be notified when results are available. You can also find survey re Studies" link at <a href="https://www.aphis.usda.gov/nahms/">www.aphis.usda.gov/nahms/</a> . 0001  | sults at th                        |   |    |
| 2.  | Please enter the date you completed this questionnaire (mm/dd/2022)0002   |                                    | <u>/2022</u>                                |    |
| 3.  | How many minutes did it take you to complete the questionnaire?   | _                                  | min   |    |
| 4.  | Which of the following best describes your position with this operation? [Check one or one on one on one one one one one one o  | nly.]                              | 0004  |    |
| 5.  | By completing this questionnaire, you are eligible to participate in biological testing of and enteric microbes and of your pasture forage for nutritional value, at no cost to you to you confidentially. The biological testing is entirely voluntary.  |                                    |   |    |
|     | If you choose to participate in any testing, USDA-NASS staff will provide your contact APHIS-NAHMS, which is a non-regulatory program. NAHMS will then ship you detail materials for collecting and shipping samples from your bison/operation. Data collected of the study will be confidential, using the same strong legal protections afforded this contact information will be associated with the data. Data are presented only in aggre- | ed instructed from the collection, | tions and<br>e biologics pha<br>and no name |    |
|     | Please indicate below whether you choose to participate in the listed sampling compo  | nents.                             |   |    |
|     | a. Fecal parasite testing (Fecal Samples)—pre-deworming (Baseline) 0006   | o₁ Yes                             | - 0 -                                       |    |
|     | <ul> <li>b. Fecal parasite testing (Fecal Samples)—post-deworming 0007</li> <li>c. Enteric microbe testing (Fecal Samples) 0008</li> </ul>  | o₁Yés<br>o₁Yes                     | -   |    |
|     | d. Pasture forage testing (Pasture Forage Samples) 0009   | o₁ Yes                             |   |    |
|     | ease see the Timeline/Benefits sheet and the Producer Informed Consent Form for mor<br>cuments can be found in your survey packet or accessed at <a href="https://www.aphis.usda.go">https://www.aphis.usda.go</a>  |                                    | tion; these                                 |    |
| [If | you answered "No" to 5.a-d and do not want to do any testing, GO TO question 7  | ; otherwi                          | se, continue.]                              | ]  |
| 6   | Please record the operator's name phone number address e-mail address and the   | FARM II                            | <b>)</b> (from the fro                      | nt |

page) below so that you can participate in the biological testing phase.

| page below so that you can participate in the biological testing | priaeer         |
|--|-----------------|
| Name:  | Phone number:   |
| Address:   | E-mail address: |
| 0012   |                 |
| FARM ID number (from front page):                                |                 |

7. Do you have any comments regarding this questionnaire or operation?0015

Thank you very much for completing the NAHMS Bison 2022 Study Survey! Please return this questionnaire to NASS in the enclosed pre-addressed, postage-paid envelope.

|  | OFFICE USE ONLY |   |      |   |       |        |                     |      |      |            |             |      |
|--|-----------------|---|------|---|-------|--------|---------------------|------|------|------------|-------------|------|
| Response Respondent  |                 | Mode  |      | Enum.   | Eval. | Change | Office Use for POID |      | )    |            |             |      |
| 1-Comp<br>2-R<br>3-Inaccesible<br>4-Office Hold<br>5-R – Est | 9901            | 1-Op/Mgr<br>2-Spouse<br>3-Acct/Bkpr<br>4-Partner<br>9-Oth | 9902 | 1-PASI (Mail)<br>2-PATI (Tel)<br>3-PAPI (Face-<br>to-Face)<br>6-Email | 9903  | 9998   | 9900<br>R. Unit     | 9985 | 9989 | <br>Option | <br>nal Use |      |
| 6-Inac – Est<br>7-Off Hold –<br>Est                          |                 |   |      | 7-Fax<br>19-Other   |       |        | 9921                |      | 9907 | 9908       | 9906        | 9916 |