

Bovine leukosis, brucellosis and tuberculosis in Italy

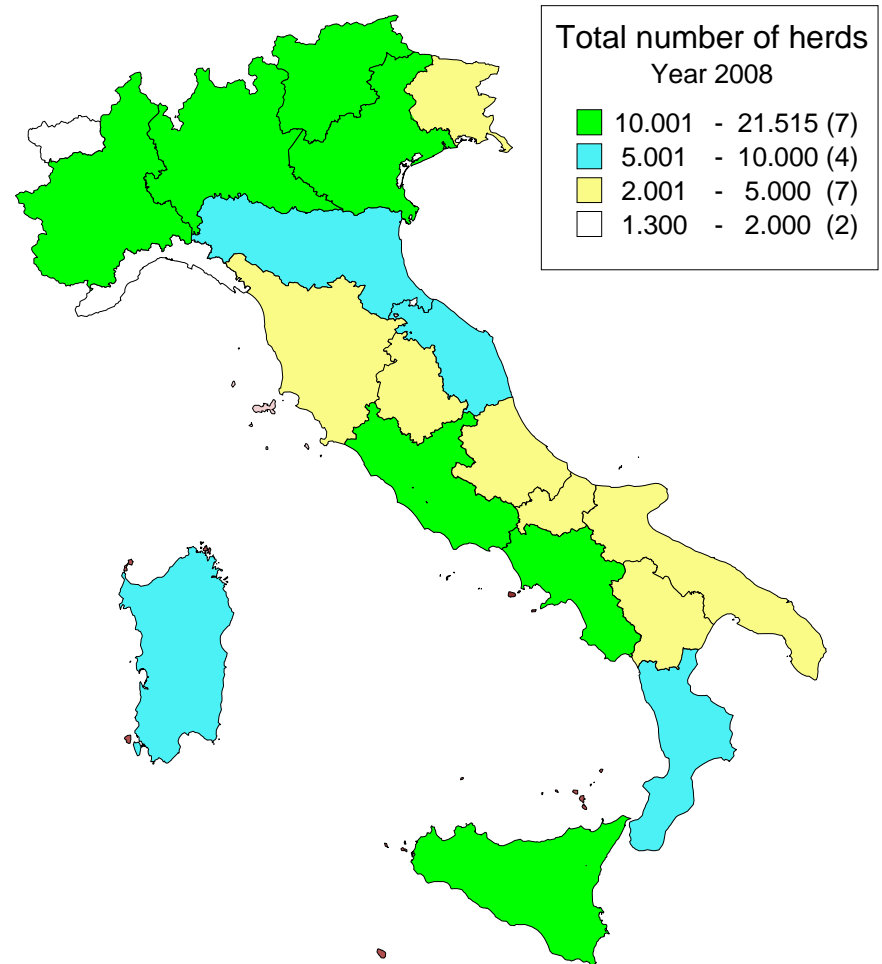


Ministry of Health – ITALY



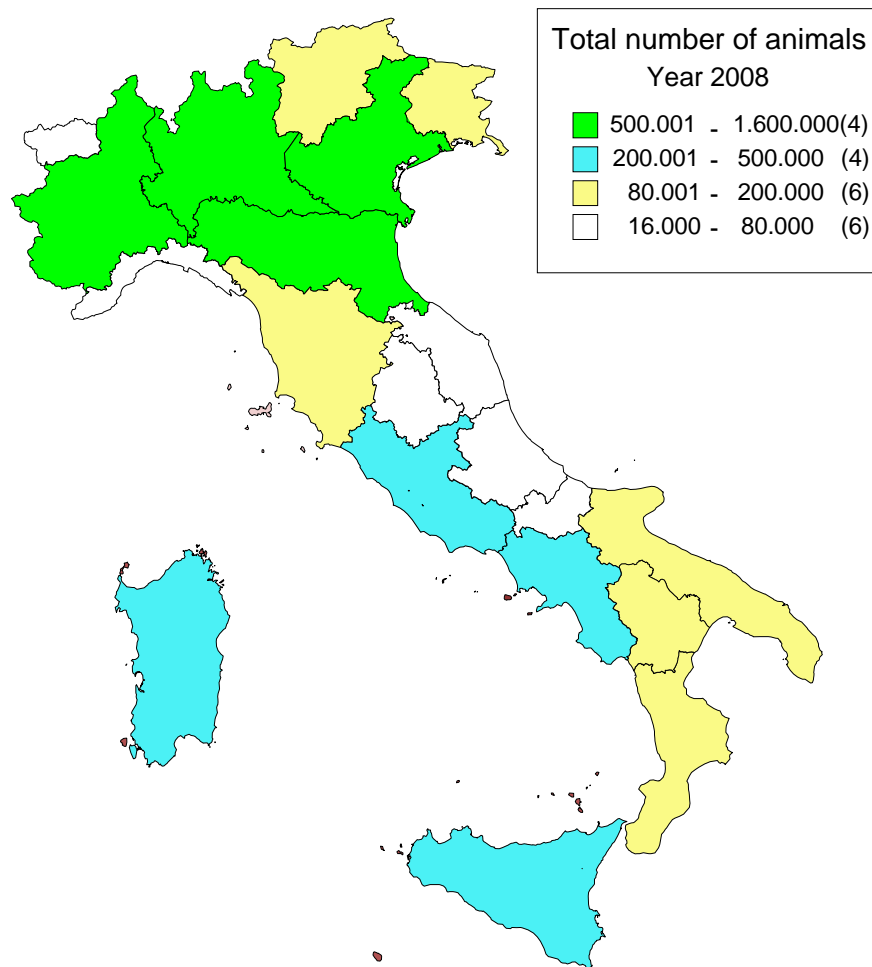
Year 2008: Cattle population (herds)

| Region | Total number of herds |
|-----------------------|-----------------------|
| Lombardia | 21.515 |
| Piemonte | 17.202 |
| Veneto | 16.608 |
| Lazio | 13.253 |
| Campania | 13.239 |
| Sicilia | 11.094 |
| Emilia Romagna | 9.203 |
| Sardegna | 9.083 |
| Bolzano | 8.709 |
| Calabria | 7.572 |
| Marche | 5.071 |
| Toscana | 4.713 |
| Puglia | 4.668 |
| Friuli Venezia Giulia | 4.489 |
| Umbria | 4.056 |
| Abruzzo | 3.799 |
| Basilicata | 3.473 |
| Molise | 3.111 |
| Liguria | 1.508 |
| Trento | 1.490 |
| Valle d'Aosta | 1.379 |
| Total | 165.235 |

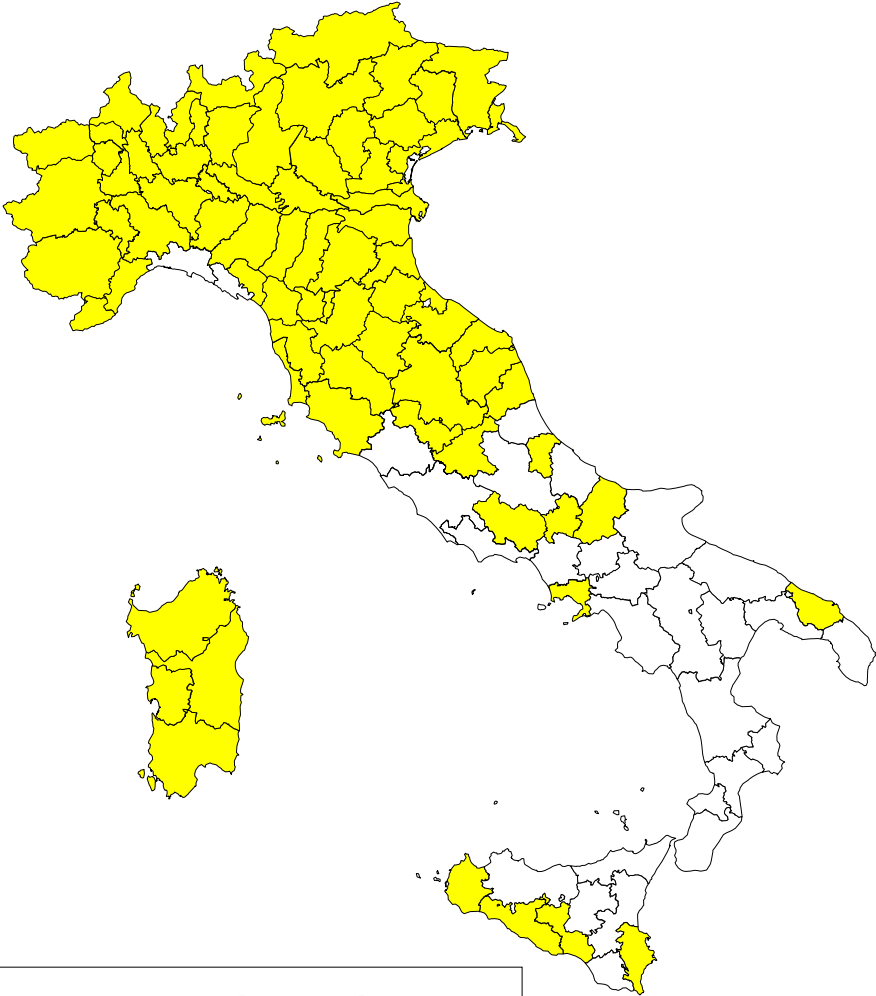


Year 2008: Cattle population (animals)

| Region | Total number of animals |
|-----------------------|-------------------------|
| Lombardia | 1.578.453 |
| Veneto | 870.986 |
| Piemonte | 841.894 |
| Emilia Romagna | 572.856 |
| Sicilia | 377.733 |
| Sardegna | 264.965 |
| Lazio | 248.857 |
| Campania | 206.046 |
| Puglia | 183.018 |
| Friuli Venezia Giulia | 149.120 |
| Bolzano | 144.456 |
| Calabria | 118.924 |
| Toscana | 97.501 |
| Basilicata | 91.619 |
| Umbria | 69.070 |
| Marche | 60.262 |
| Valle d'Aosta | 54.555 |
| Abruzzo | 51.240 |
| Molise | 47.686 |
| Trento | 45.192 |
| Liguria | 16.274 |
| Total | 6.090.707 |



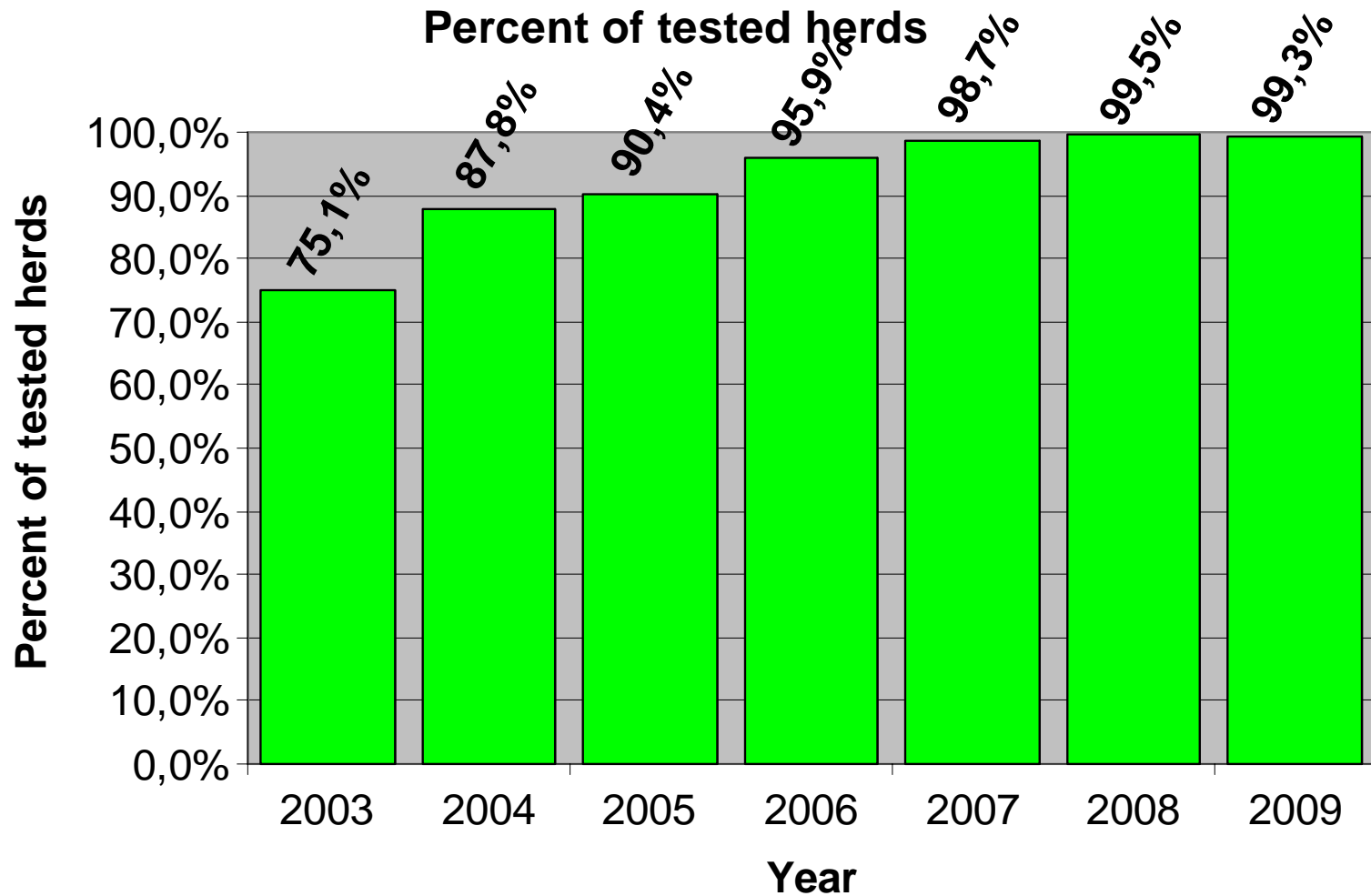
O.F. Provinces at 01-07-2010



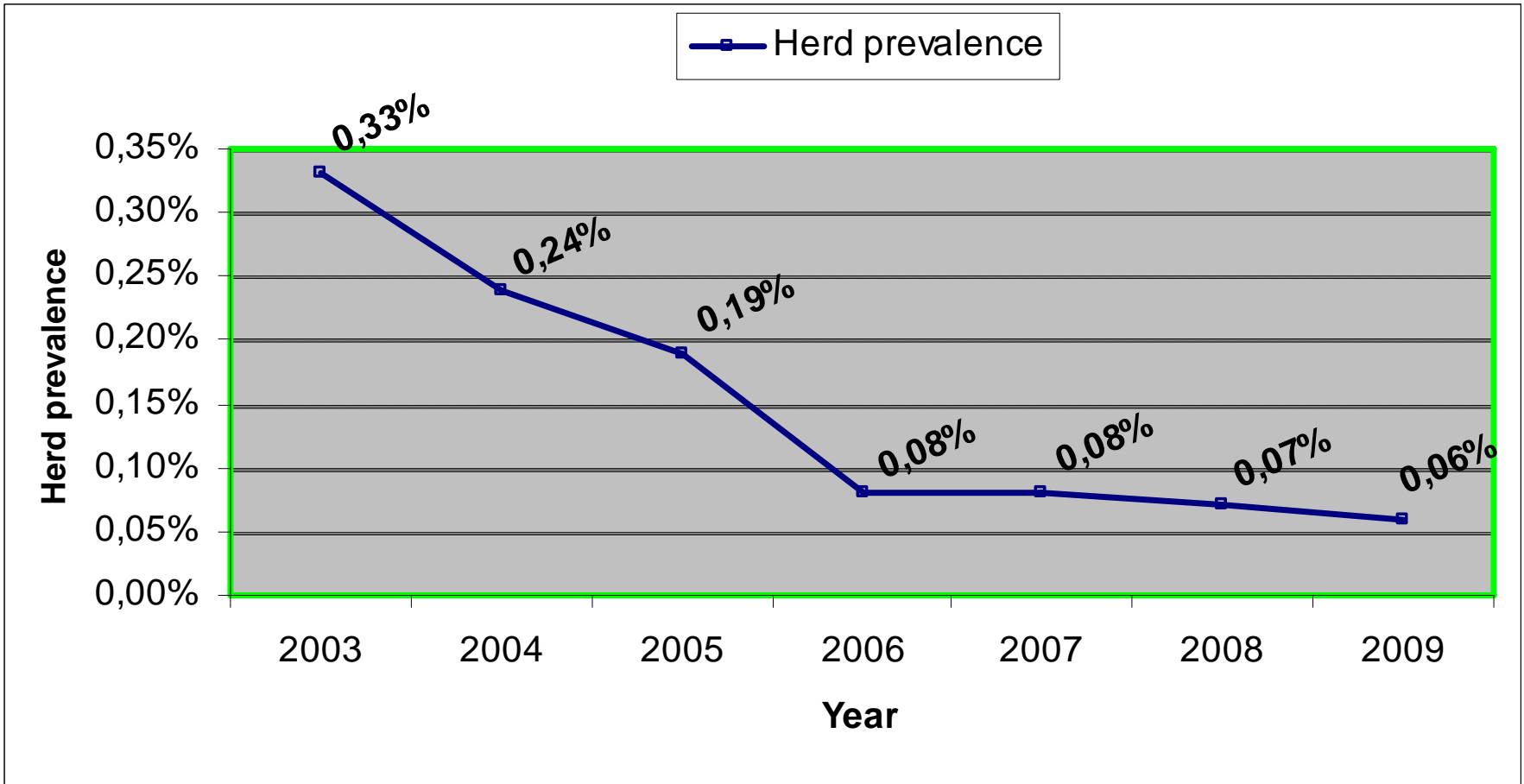
Enzootic Bovine Leukosis
 O.F. provinces
 (74)

| ITALIAN REGIONS | ITALIAN O.F. PROVINCES |
|-----------------------|---|
| Emilia Romagna | tutta la Regione |
| Lombardia | tutta la Regione |
| Marche | tutta la Regione |
| Sardegna | tutta la Regione |
| Toscana | tutta la Regione |
| Trentino Alto Adige | tutta la Regione |
| Umbria | tutta la Regione |
| Piemonte | tutta la Regione |
| Friuli Venezia Giulia | tutta la Regione |
| Liguria | Imperia, Savona |
| Veneto | tutta la Regione |
| Lazio | Frosinone, Rieti |
| Abruzzo | Pescara |
| Campania | Napoli |
| Puglia | Brindisi |
| Sicilia | Agrigento, Caltanissetta, Siracusa, Trapani |
| Val d'Aosta | tutta la Regione |
| Molise | tutta la Regione |
| TOTAL | 74 |

Bovine herds tested for EBL in Italy

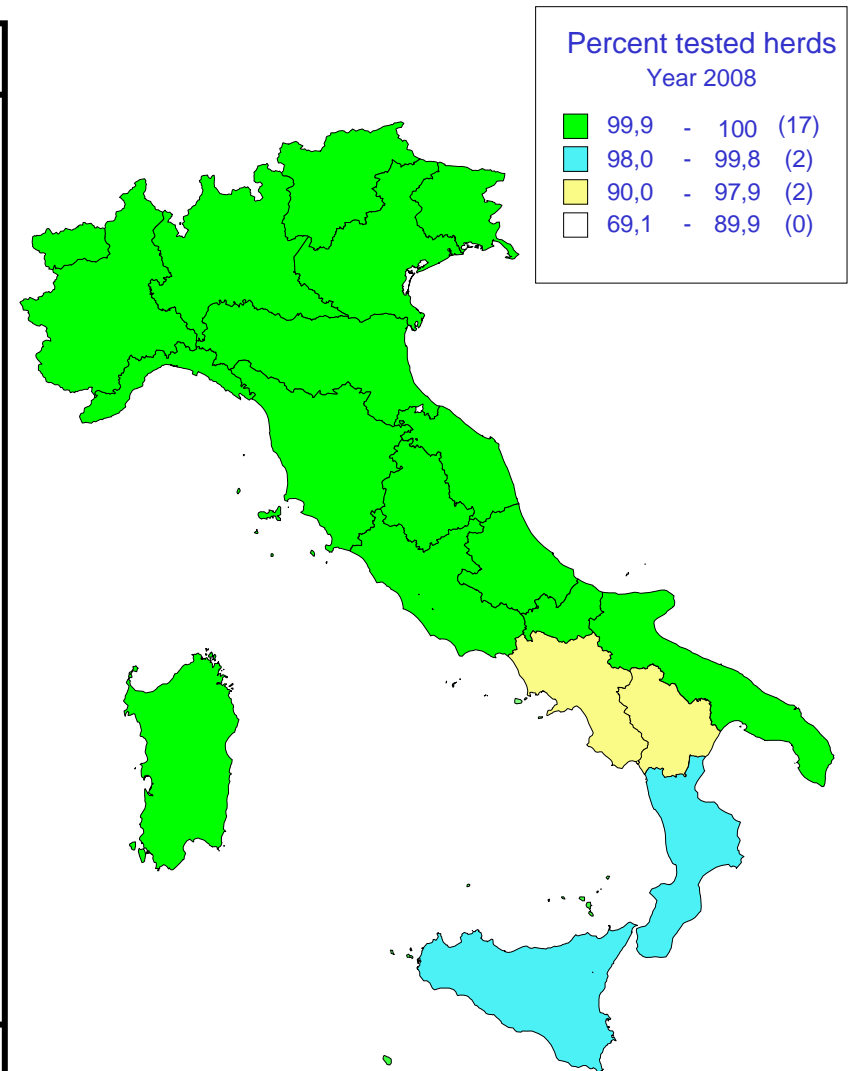


EBL positive herds



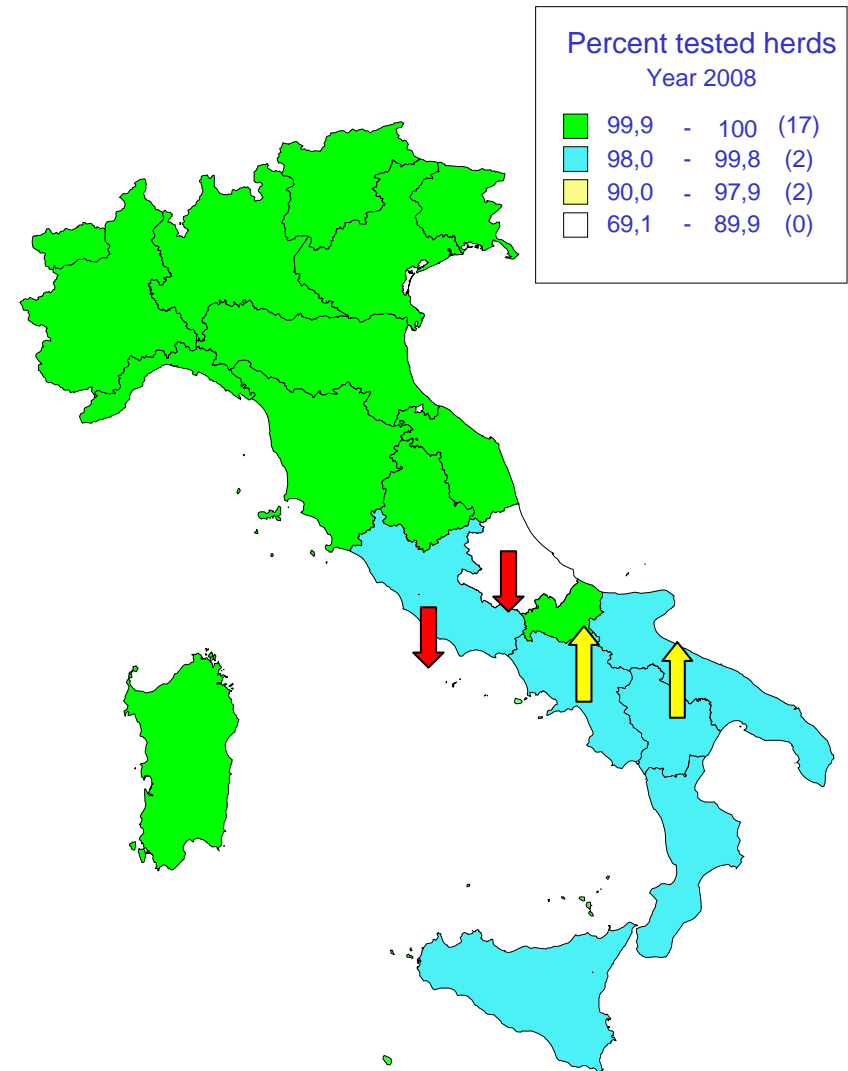
Year 2008: EBL tested herds

| Region | Tested herds |
|-----------------------|--------------|
| Bolzano | 100,0% |
| Emilia Romagna | 100,0% |
| Friuli Venezia Giulia | 100,0% |
| Liguria | 100,0% |
| Lombardia | 100,0% |
| Marche | 100,0% |
| Molise | 100,0% |
| Piemonte | 100,0% |
| Puglia | 100,0% |
| Sardegna | 100,0% |
| Toscana | 100,0% |
| Trento | 100,0% |
| Umbria | 100,0% |
| Valle d'Aosta | 100,0% |
| Veneto | 100,0% |
| Lazio | 99,9% |
| Abruzzo | 99,9% |
| Calabria | 99,3% |
| Sicilia | 99,0% |
| Campania | 97,0% |
| Basilicata | 95,1% |
| Total | 99,5% |



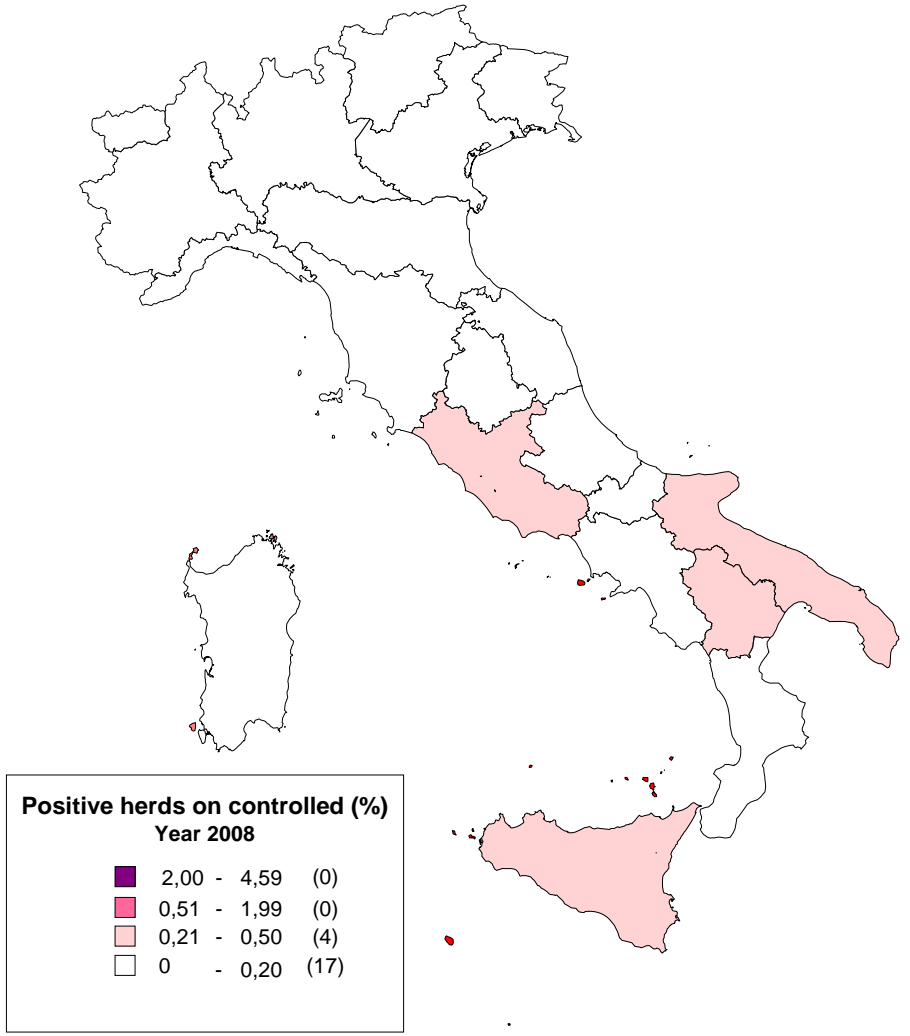
Year 2009: EBL tested herds

| Region | Tested herds |
|------------------------------|---------------|
| Bolzano | 100,0% |
| Emilia Romagna | 100,0% |
| Friuli Venezia Giulia | 100,0% |
| Liguria | 100,0% |
| Lombardia | 100,0% |
| Marche | 100,0% |
| Molise | 100,0% |
| Piemonte | 100,0% |
| Sardegna | 100,0% |
| Toscana | 100,0% |
| Trento | 100,0% |
| Umbria | 100,0% |
| Valle d'Aosta | 100,0% |
| Veneto | 100,0% |
| Calabria | 99,8% |
| Sicilia | 99,6% |
| Lazio | 99,4% |
| Basilicata | 99,2% |
| Puglia | 98,1% |
| Campania | 98,0% |
| Abruzzo | 89,6% |
| Total | 99,3% |



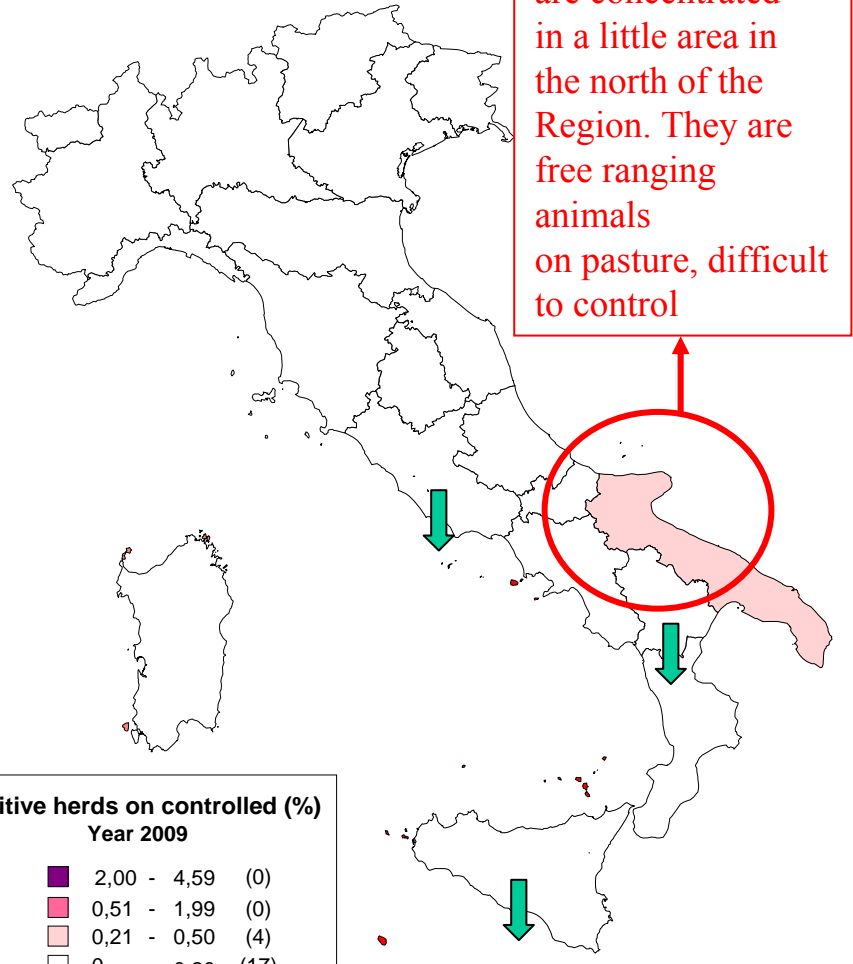
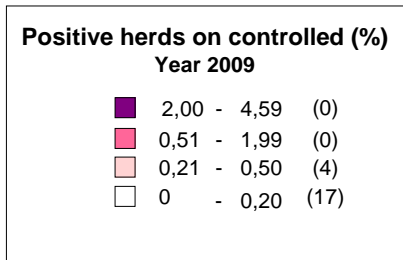
Year 2008: EBL positive herds

| Region | Percent positive herds |
|-----------------------|------------------------|
| Puglia | 0,47% |
| Sicilia | 0,29% |
| Lazio | 0,26% |
| Basilicata | 0,23% |
| Calabria | 0,06% |
| Campania | 0,06% |
| Emilia Romagna | 0,04% |
| Piemonte | 0,01% |
| Lombardia | 0,00% |
| Abruzzo | 0,00% |
| Bolzano | 0,00% |
| Friuli Venezia Giulia | 0,00% |
| Liguria | 0,00% |
| Marche | 0,00% |
| Molise | 0,00% |
| Sardegna | 0,00% |
| Toscana | 0,00% |
| Trento | 0,00% |
| Umbria | 0,00% |
| Valle d'Aosta | 0,00% |
| Veneto | 0,00% |
| Italy | 0,07% |

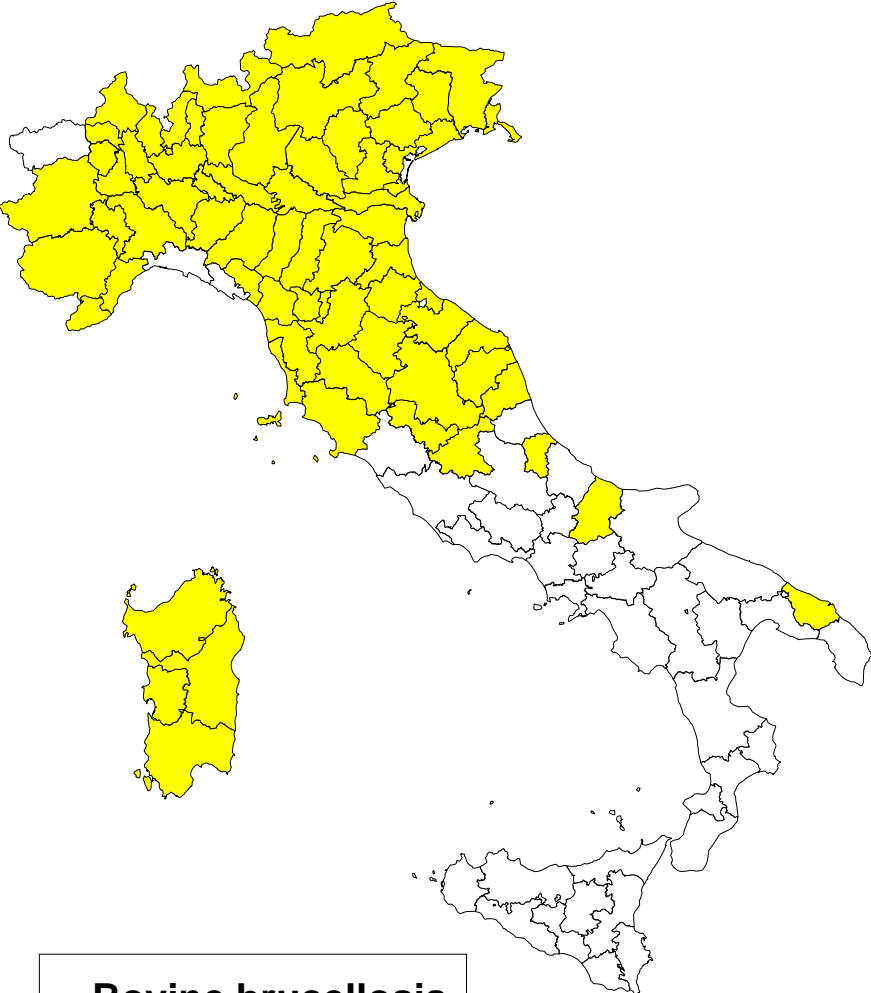


Year 2009: EBL positive herds

| Region | Percent positive herds |
|-----------------------|------------------------|
| Puglia | 0,41% |
| Sicilia | 0,20% |
| Calabria | 0,15% |
| Lazio | 0,14% |
| Basilicata | 0,10% |
| Campania | 0,02% |
| Emilia Romagna | 0,01% |
| Abruzzo | 0,00% |
| Bolzano | 0,00% |
| Friuli Venezia Giulia | 0,00% |
| Liguria | 0,00% |
| Lombardia | 0,00% |
| Marche | 0,00% |
| Molise | 0,00% |
| Piemonte | 0,00% |
| Sardegna | 0,00% |
| Toscana | 0,00% |
| Trento | 0,00% |
| Umbria | 0,00% |
| Valle d'Aosta | 0,00% |
| Veneto | 0,00% |
| Italy | 0,06% |



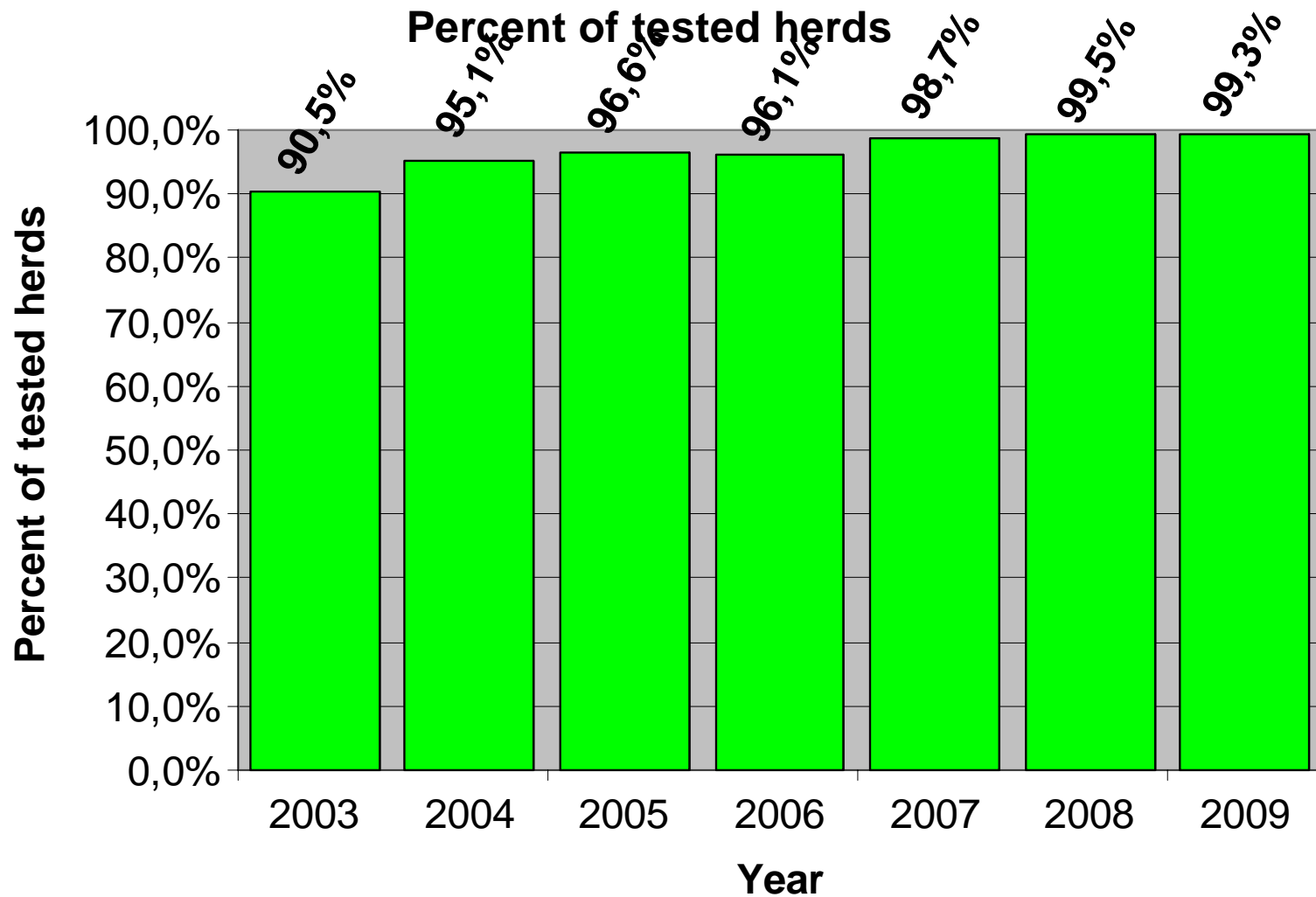
O.F. Provinces at 01-07-2010



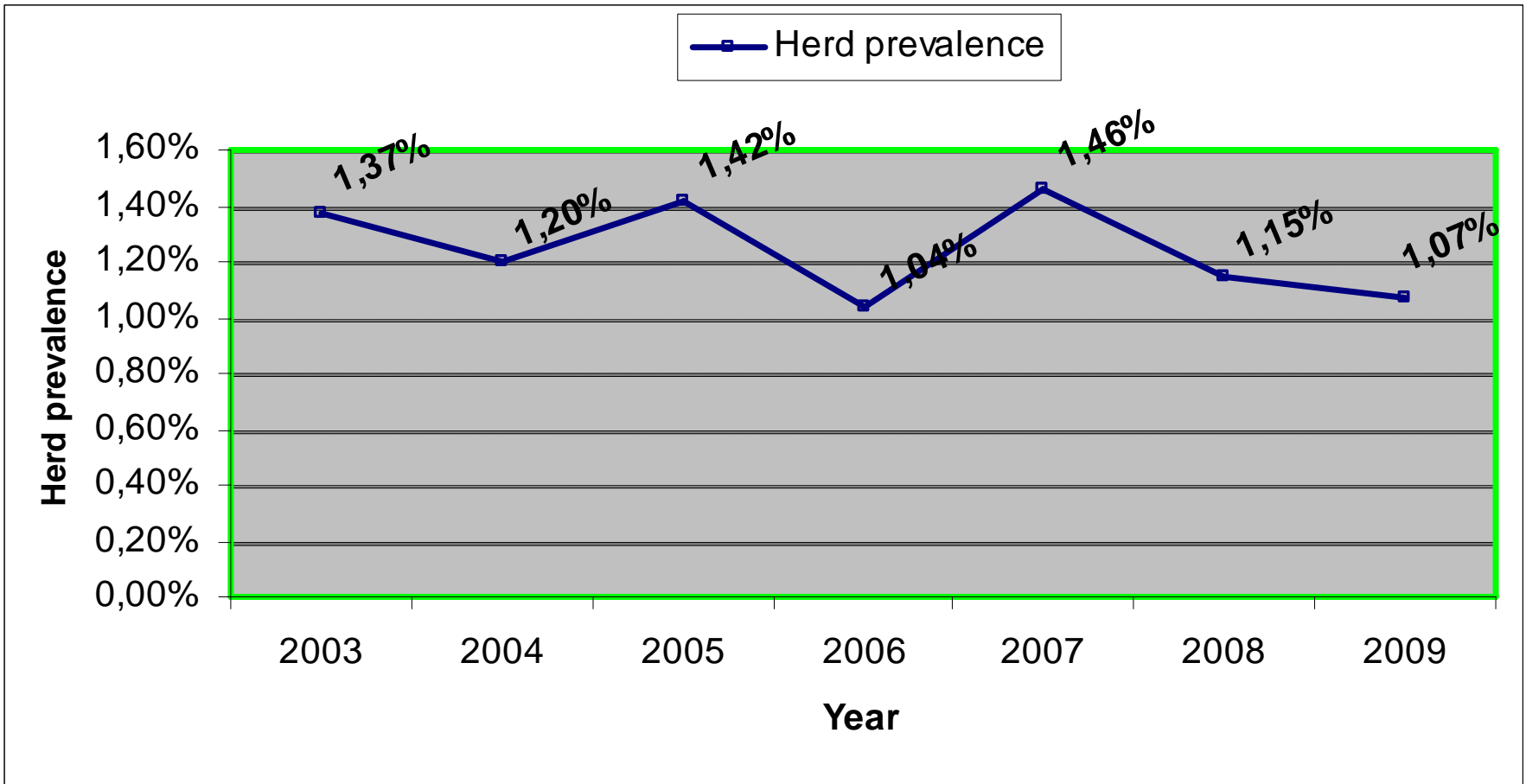
Bovine brucellosis
 OBF provinces
 (66)

| ITALIAN REGIONS | ITALIAN OBF PROVINCES |
|-----------------------|-----------------------|
| Emilia-Romagna | whole Region |
| Lombardia | whole Region |
| Marche | whole Region |
| Sardegna | whole Region |
| Toscana | whole Region |
| Trentino Alto Adige | whole Region |
| Umbria | whole Region |
| Piemonte | whole Region |
| Friuli Venezia Giulia | whole Region |
| Liguria | Imperia, Savona |
| Veneto | whole Region |
| Lazio | Rieti |
| Abruzzo | Pescara |
| Molise | Campobasso |
| Puglia | Brindisi |
| TOTAL | 66 |

Bovine herds tested for brucellosis in Italy

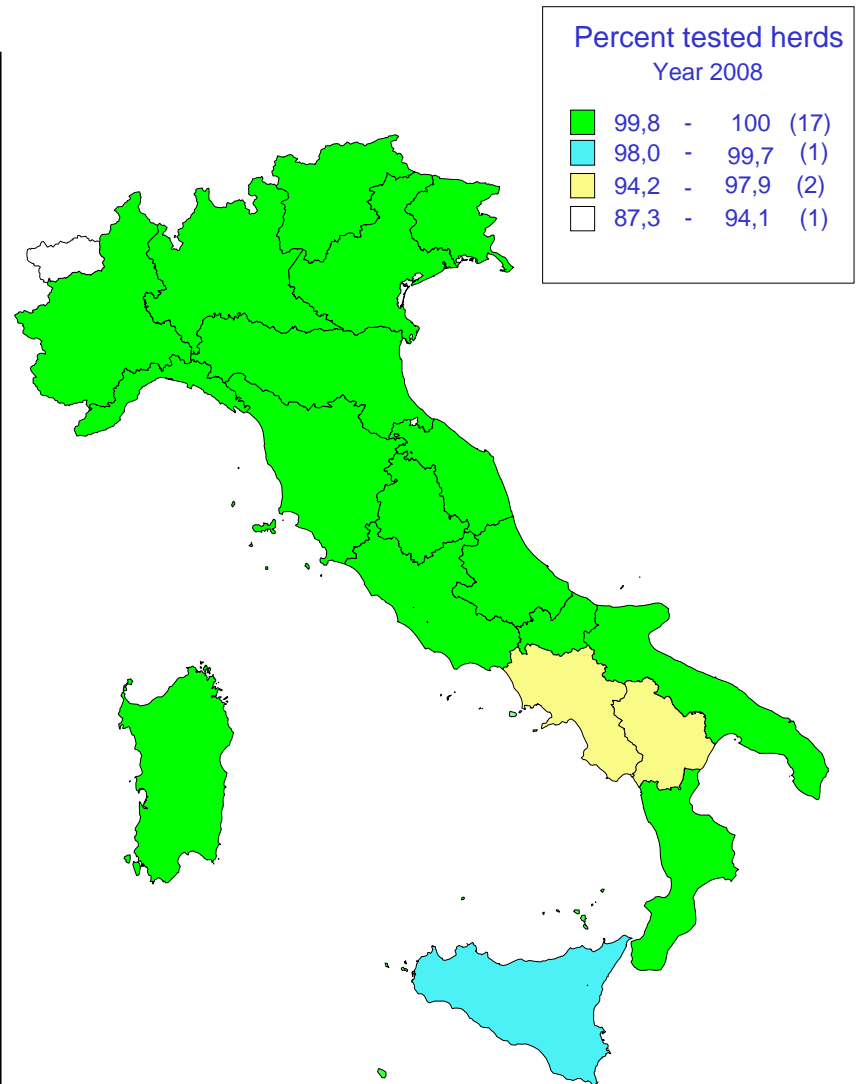


Brucellosis positive herds



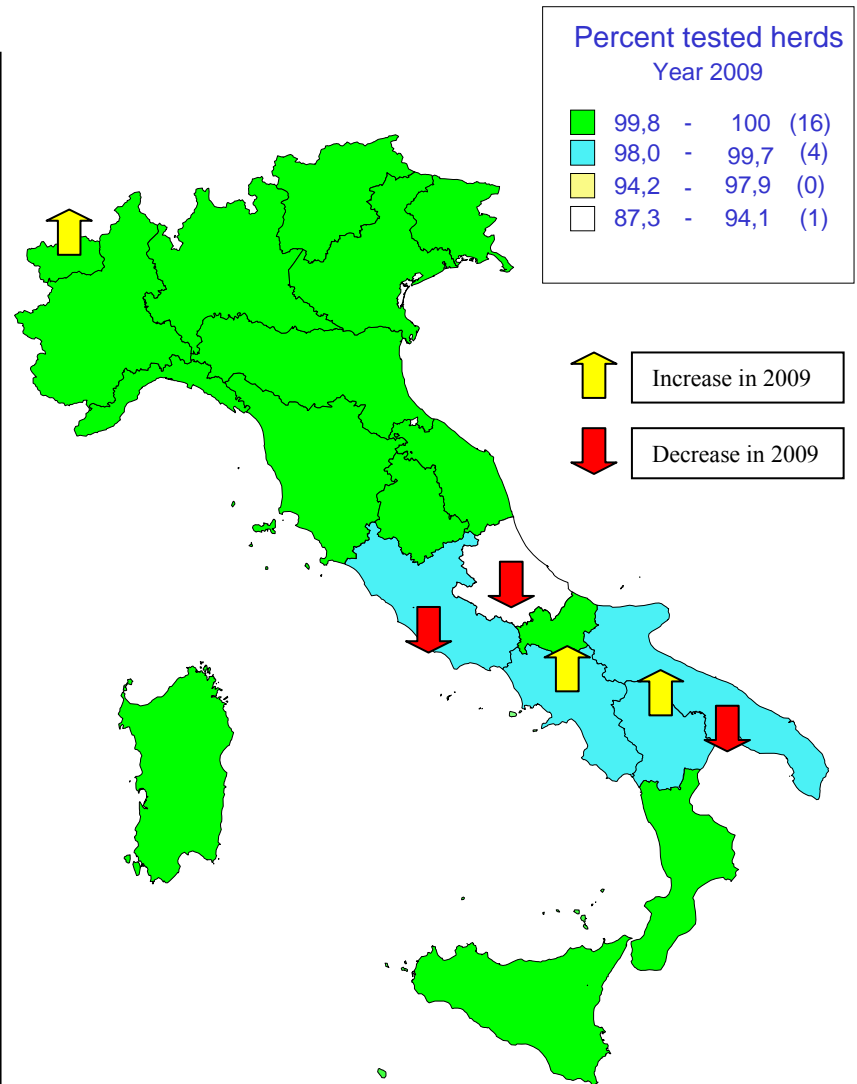
Year 2008: Brucellosis tested herds

| Region | Tested herds (%) |
|-----------------------|------------------|
| Lombardia | 100,0 |
| Trentino-Alto Adige | 100,0 |
| Veneto | 100,0 |
| Friuli-Venezia Giulia | 100,0 |
| Emilia-Romagna | 100,0 |
| Umbria | 100,0 |
| Marche | 100,0 |
| Molise | 100,0 |
| Puglia | 100,0 |
| Piemonte | 100,0 |
| Toscana | 100,0 |
| Calabria | 100,0 |
| Liguria | 100,0 |
| Sardegna | 99,8 |
| Lazio | 99,8 |
| Abruzzo | 99,8 |
| Sicilia | 99,6 |
| Campania | 97,5 |
| Basilicata | 95,1 |
| Valle d'Aosta | 92,7 |
| Total | 99.5 |



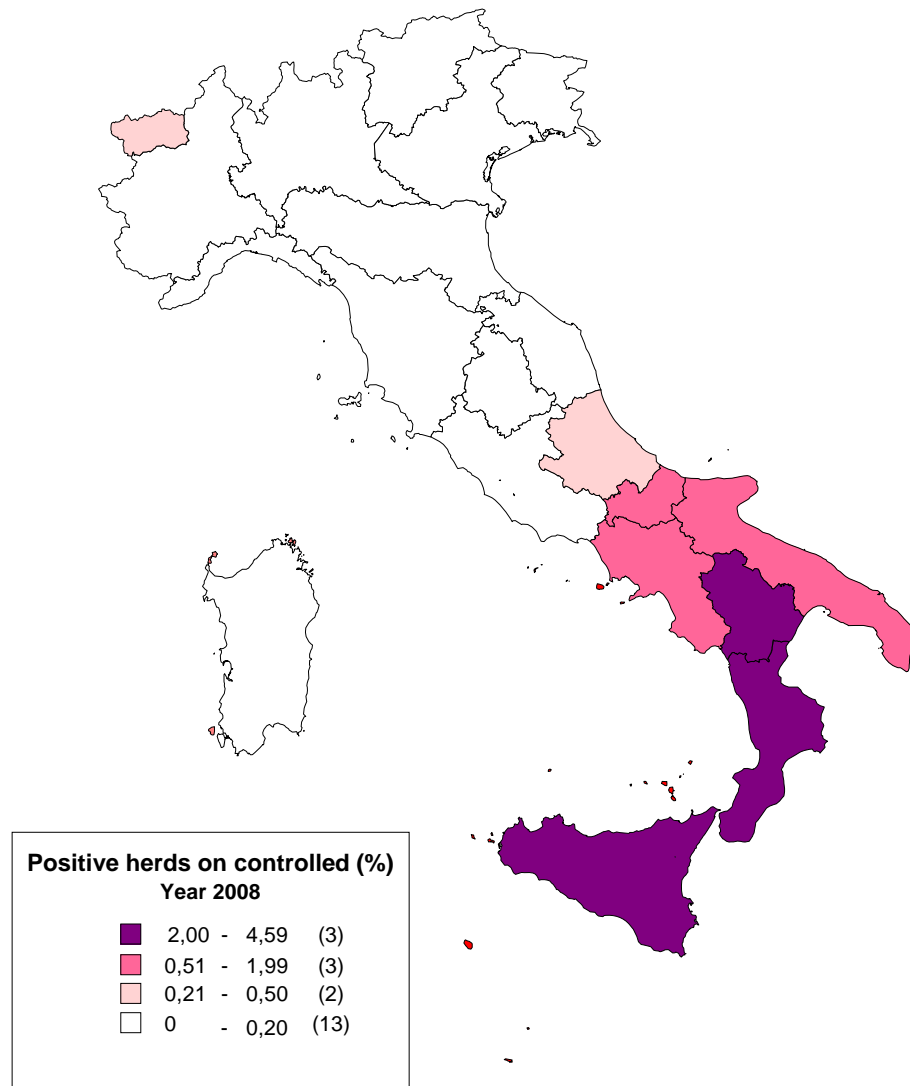
Year 2009: Brucellosis tested herds

| Region | Tested herds |
|-----------------------|--------------|
| Bolzano | 100,0% |
| Calabria | 100,0% |
| Emilia Romagna | 100,0% |
| Friuli Venezia Giulia | 100,0% |
| Liguria | 100,0% |
| Lombardia | 100,0% |
| Molise | 100,0% |
| Piemonte | 100,0% |
| Toscana | 100,0% |
| Umbria | 100,0% |
| Valle d'Aosta | 100,0% |
| Veneto | 100,0% |
| Marche | 100,0% |
| Sardegna | 99,9% |
| Trento | 99,9% |
| Sicilia | 99,9% |
| Basilicata | 99,7% |
| Lazio | 99,2% |
| Puglia | 98,1% |
| Campania | 98,1% |
| Abruzzo | 89,6% |
| Total | 99.3% |



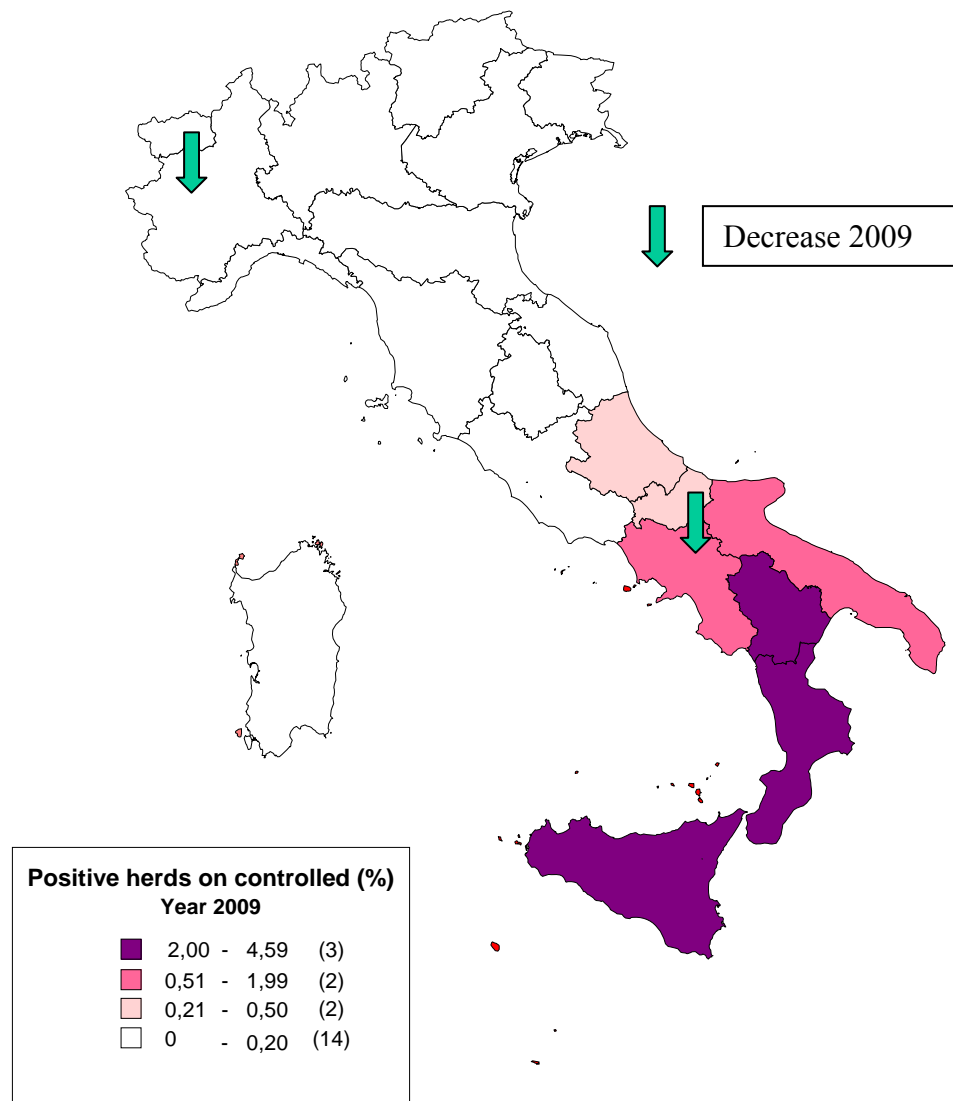
Year 2008: Brucellosis positive herds

| Region | Percent positive herds |
|-----------------------|------------------------|
| Sicilia | 6,12 |
| Calabria | 5,84 |
| Basilicata | 3,22 |
| Puglia | 1,99 |
| Campania | 1,11 |
| Molise | 0,52 |
| Valle d'Aosta | 0,32 |
| Abruzzo | 0,30 |
| Lazio | 0,11 |
| Sardegna | 0 |
| Marche | 0 |
| Piemonte | 0 |
| Lombardia | 0 |
| Trentino-Alto Adige | 0 |
| Veneto | 0 |
| Friuli-Venezia Giulia | 0 |
| Liguria | 0 |
| Emilia-Romagna | 0 |
| Toscana | 0 |
| Umbria | 0 |
| Italy | 1,15% |

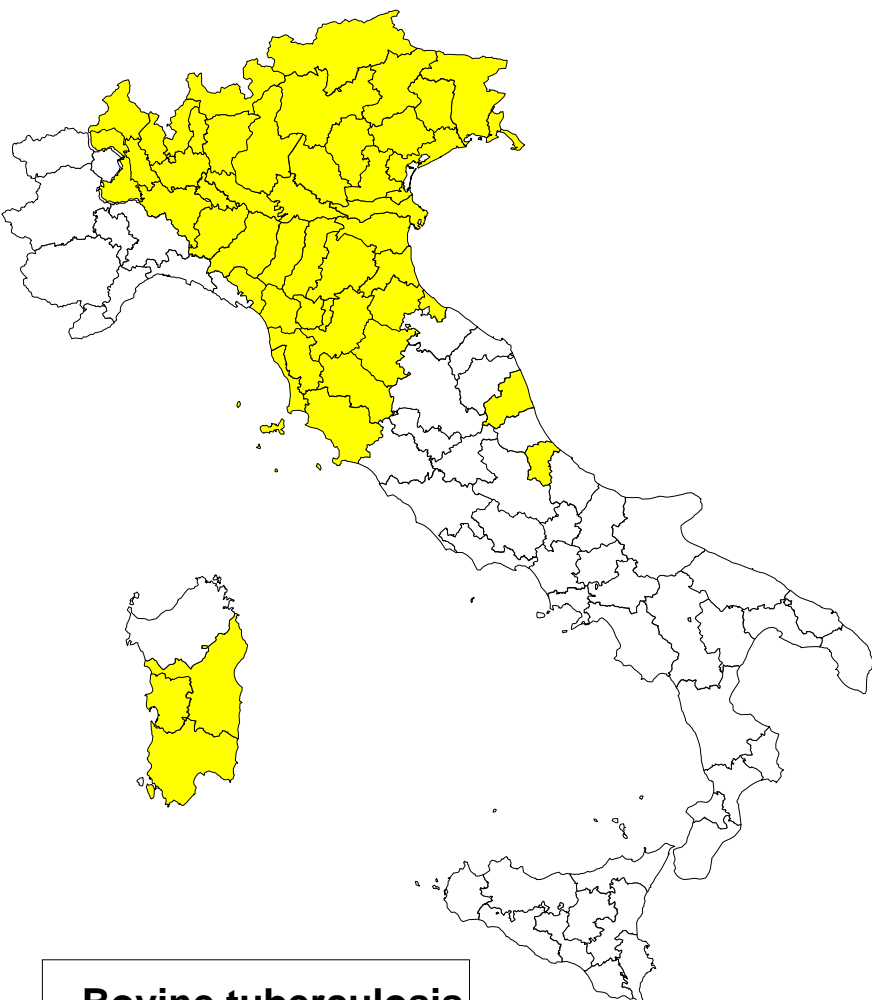


Year 2009: Brucellosis positive herds

| Region | Percent positive herds |
|-----------------------|------------------------|
| Sicilia | 6,72% |
| Calabria | 4,12% |
| Basilicata | 2,13% |
| Campania | 1,28% |
| Puglia | 1,27% |
| Molise | 0,36% |
| Abruzzo | 0,32% |
| Trento | 0,07% |
| Lazio | 0,04% |
| Sardegna | 0,01% |
| Lombardia | 0,01% |
| Bolzano | 0,00% |
| Emilia Romagna | 0,00% |
| Friuli Venezia Giulia | 0,00% |
| Liguria | 0,00% |
| Marche | 0,00% |
| Piemonte | 0,00% |
| Toscana | 0,00% |
| Umbria | 0,00% |
| Valle d'Aosta | 0,00% |
| Veneto | 0,00% |
| Italy | 1,07% |




Officially tuberculosis free provinces at 01-07-2010



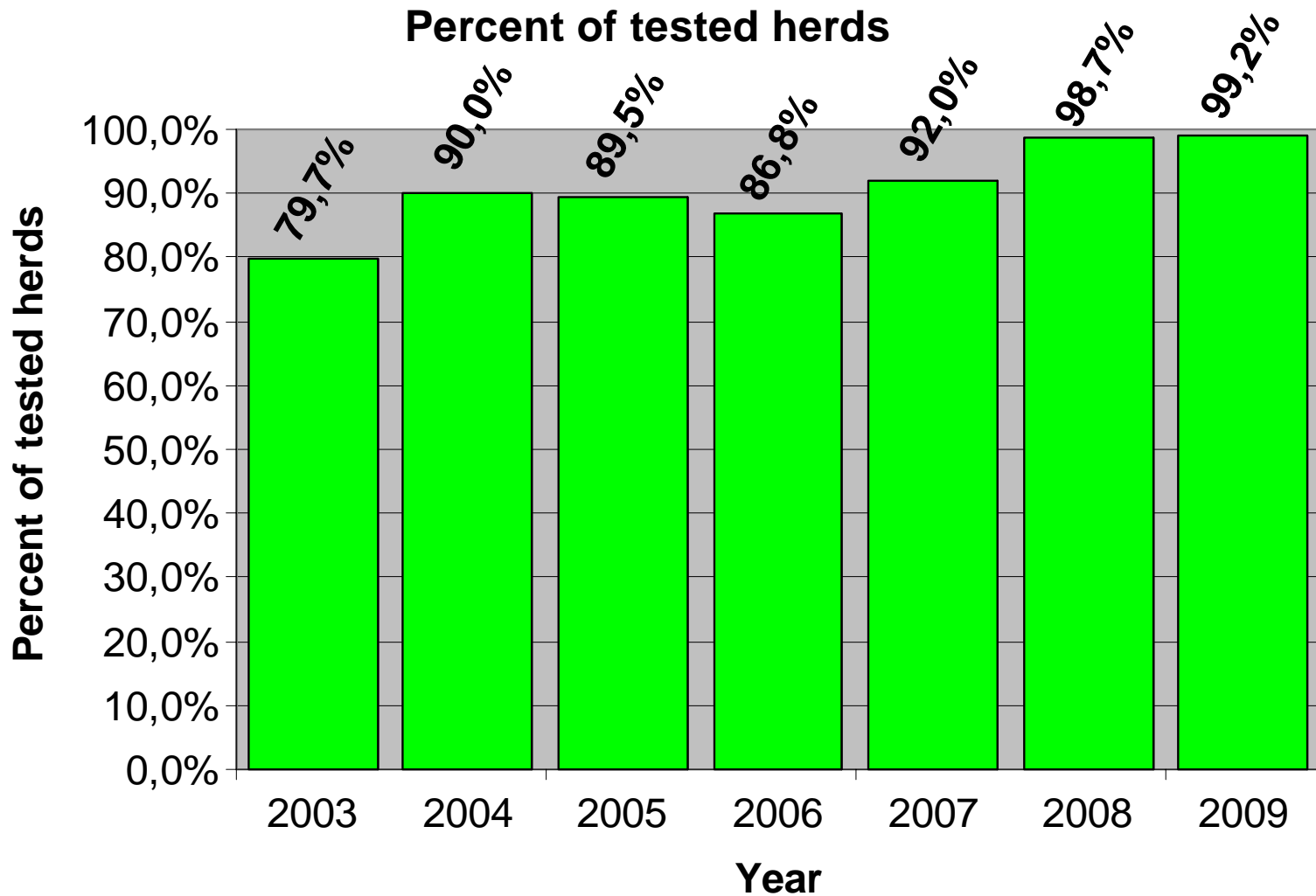
| ITALIAN REGIONS | ITALIAN PROVINCES |
|-----------------------|--|
| EMILIA-ROMAGNA | whole Region (9) |
| LOMBARDIA | whole Region (11) |
| MARCHE | Ascoli Piceno |
| TOSCANA | whole Region (10) |
| TRENTINO ALTO ADIGE | whole Region (2) |
| PIEMONTE | Novara, Verbania, Vercelli |
| FRIULI VENEZIA GIULIA | whole Region (4) |
| VENETO | whole Region (7) |
| SARDEGNA | Cagliari, Medio-Campidano, Ogliastra, Olbia-Tempio, Oristano |
| ABRUZZO | Pescara |
| TOTAL | 53 |

Bovine tuberculosis

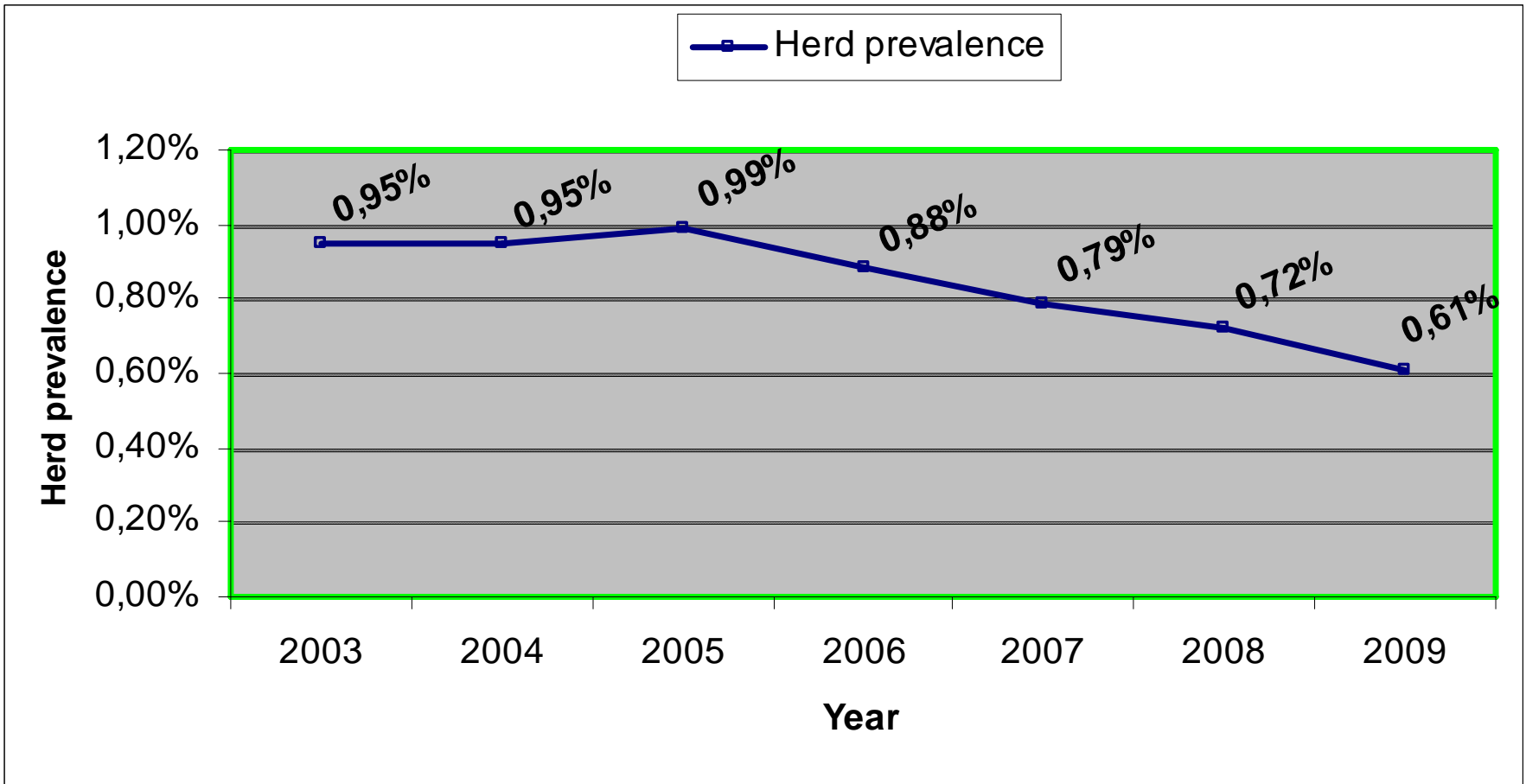
O.F. provinces

 (53)

Bovine herds tested for TB in Italy

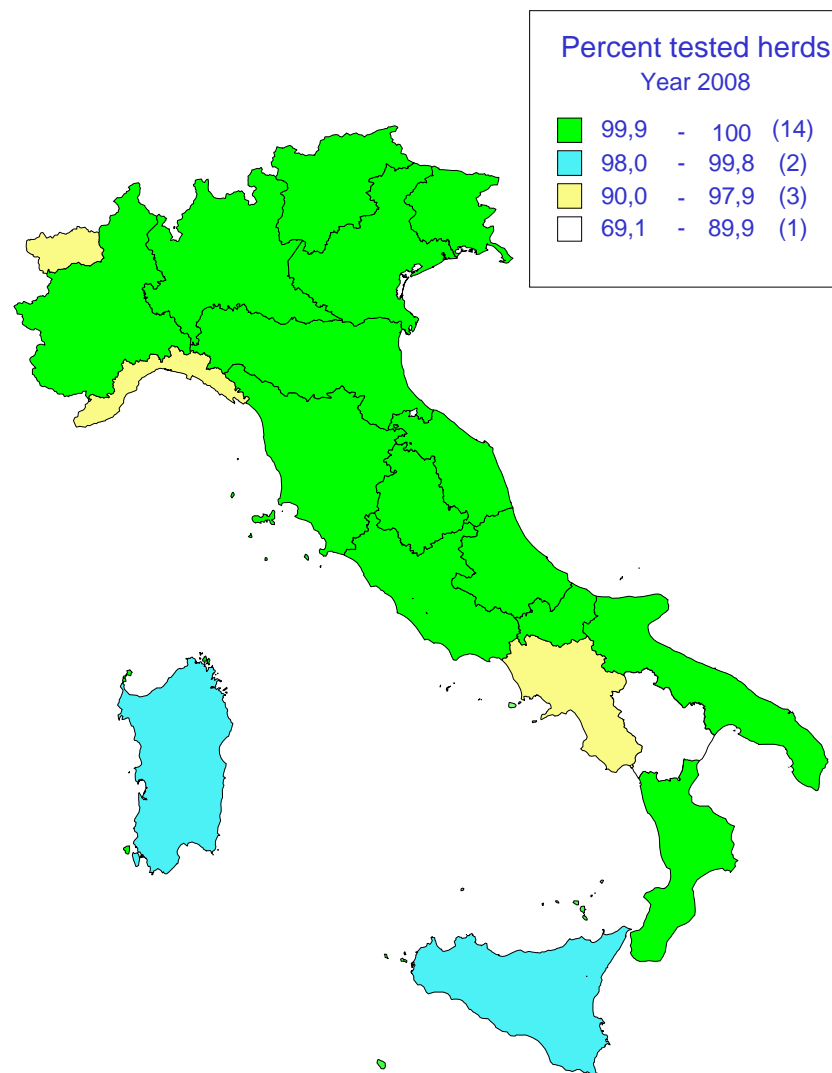


TB positive herds



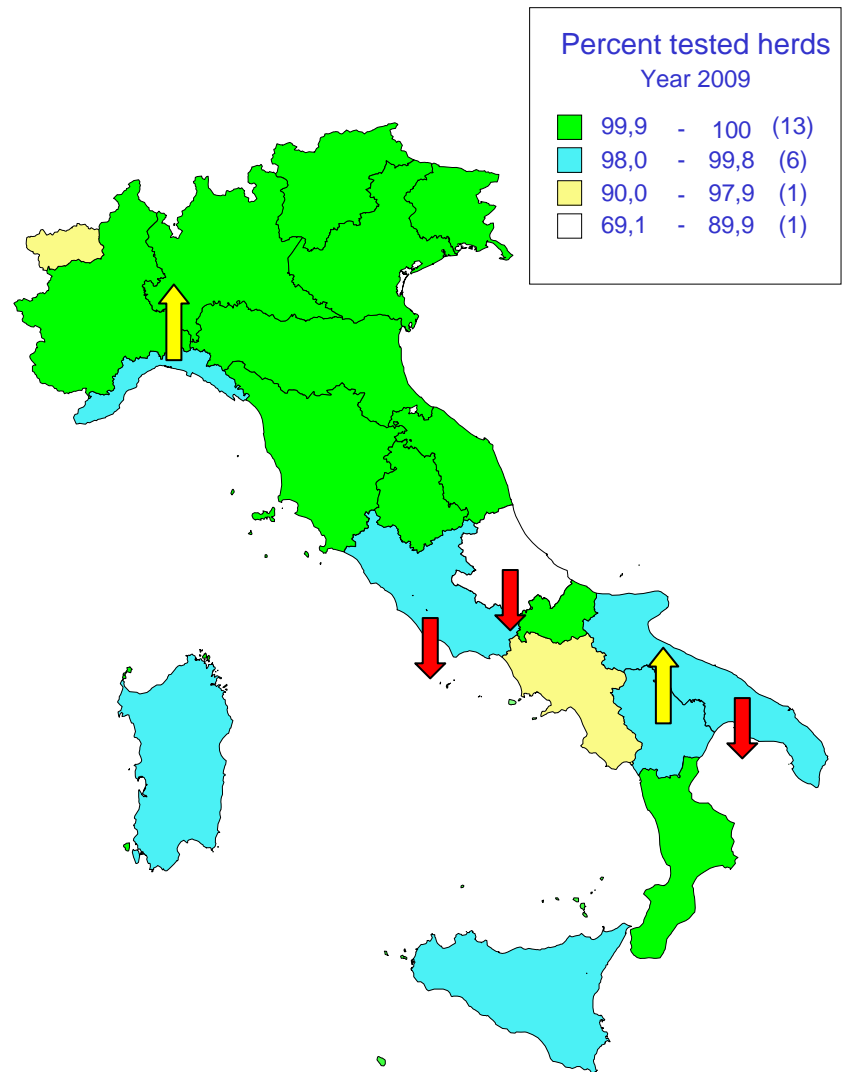
Year 2008: TB tested herds

| Region | Tested herds (%) |
|-----------------------|------------------|
| Bolzano | 100,0% |
| Calabria | 100,0% |
| Emilia Romagna | 100,0% |
| Friuli Venezia Giulia | 100,0% |
| Lombardia | 100,0% |
| Marche | 100,0% |
| Molise | 100,0% |
| Piemonte | 100,0% |
| Puglia | 100,0% |
| Trento | 100,0% |
| Umbria | 100,0% |
| Veneto | 100,0% |
| Toscana | 100,0% |
| Abruzzo | 99,9% |
| Lazio | 99,9% |
| Sardegna | 99,7% |
| Sicilia | 99,5% |
| Liguria | 96,7% |
| Campania | 96,5% |
| Valle d'Aosta | 93,7% |
| Basilicata | 82,2% |
| Total | 98,7% |



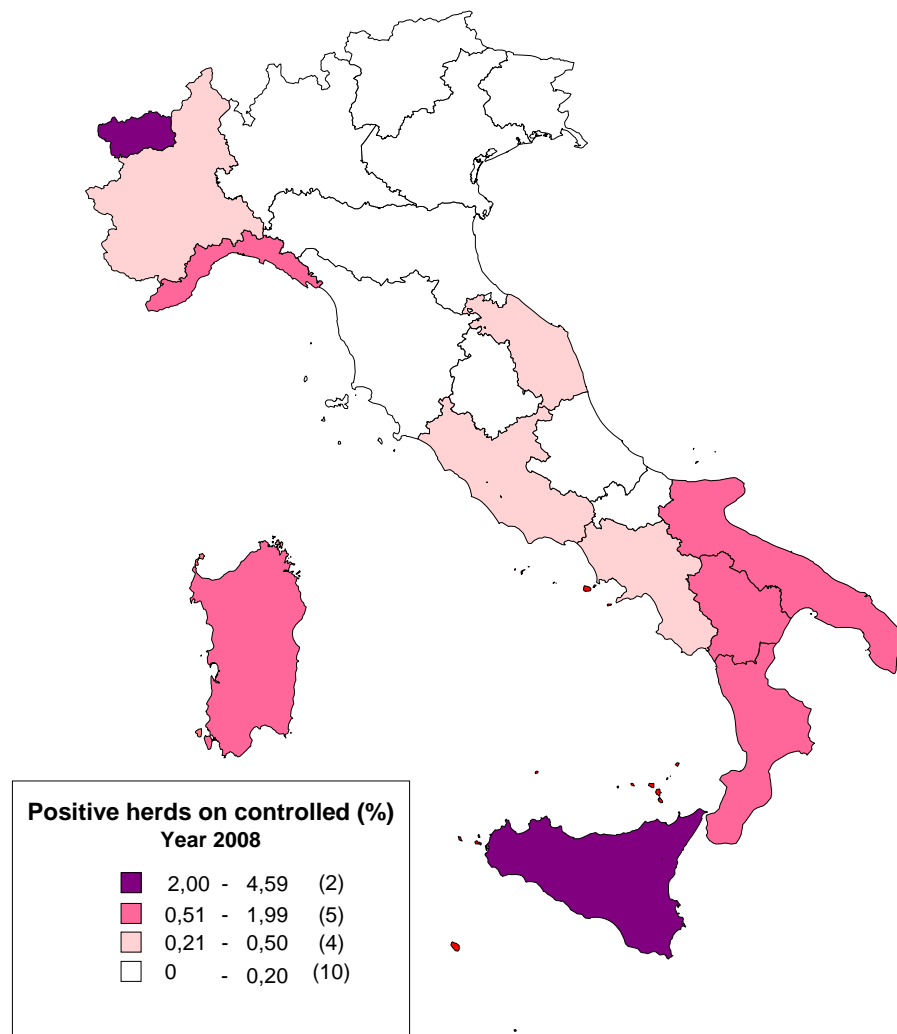
Year 2009: TB tested herds

| Region | Tested herds (%) |
|-----------------------|------------------|
| Bolzano | 100,0% |
| Calabria | 100,0% |
| Lombardia | 100,0% |
| Molise | 100,0% |
| Piemonte | 100,0% |
| Toscana | 100,0% |
| Umbria | 100,0% |
| Valle d'Aosta | 100,0% |
| Veneto | 100,0% |
| Marche | 100,0% |
| Friuli Venezia Giulia | 100,0% |
| Emilia Romagna | 99,9% |
| Liguria | 99,8% |
| Sardegna | 99,8% |
| Trento | 99,7% |
| Sicilia | 99,7% |
| Lazio | 98,8% |
| Basilicata | 98,7% |
| Puglia | 98,2% |
| Campania | 97,8% |
| Abruzzo | 89,3% |
| Total | 99,2% |



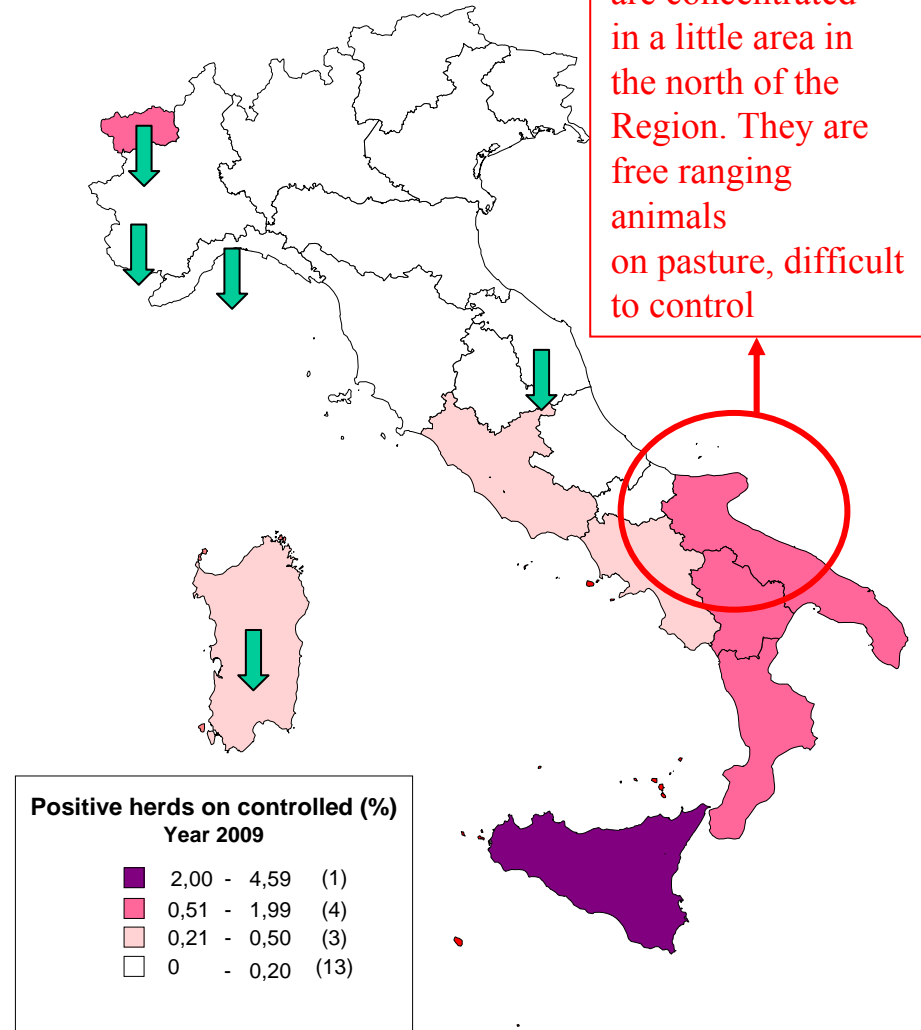
Year 2008: TB positive herds

| Region | Percent positive herds |
|-----------------------|------------------------|
| Valle d'Aosta | 4,59% |
| Sicilia | 4,10% |
| Liguria | 1,55% |
| Calabria | 0,91% |
| Sardegna | 0,88% |
| Basilicata | 0,69% |
| Puglia | 0,62% |
| Lazio | 0,42% |
| Campania | 0,37% |
| Marche | 0,30% |
| Piemonte | 0,23% |
| Lombardia | 0,19% |
| Toscana | 0,13% |
| Abruzzo | 0,04% |
| Molise | 0,04% |
| Bolzano | 0,00% |
| Emilia Romagna | 0,00% |
| Friuli Venezia Giulia | 0,00% |
| Trento | 0,00% |
| Umbria | 0,00% |
| Veneto | 0,00% |
| Italy | 0,72% |



Year 2009: TB positive herds

| Region | Percent positive herds |
|-----------------------|------------------------|
| Sicilia | 3,71% |
| Puglia | 1,89% |
| Valle d'Aosta | 1,60% |
| Basilicata | 0,73% |
| Calabria | 0,72% |
| Campania | 0,44% |
| Lazio | 0,31% |
| Trento | 0,27% |
| Sardegna | 0,22% |
| Umbria | 0,20% |
| Abruzzo | 0,16% |
| Piemonte | 0,08% |
| Molise | 0,08% |
| Emilia Romagna | 0,06% |
| Friuli Venezia Giulia | 0,04% |
| Lombardia | 0,04% |
| Bolzano | 0,00% |
| Liguria | 0,00% |
| Marche | 0,00% |
| Toscana | 0,00% |
| Veneto | 0,00% |
| Italy | 0,61% |



Actions proposed at a Central Level

- Inspections by Ministry of Health
- Identification of all animals with electronic boluses in some free ranging areas (e.g. Puglia)
- Use of IDT and γ -interferon in Valle d'Aosta for a better diagnosis
- Control of transhumance in Sicily and Valle d'Aosta
- Use of SANAN in Calabria, Puglia, Sicilia and Valle d'Aosta in order to check in real time the level of controls performed by the Local Veterinary Services (ASL) and apply corrective measures in case of deficiency

Thank you for your attention

Ministry of Health - ITALY

