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**Anhang:** [Figuren 3]

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Fig.3.1: Luftaktivität (Aerosole), Fribourg

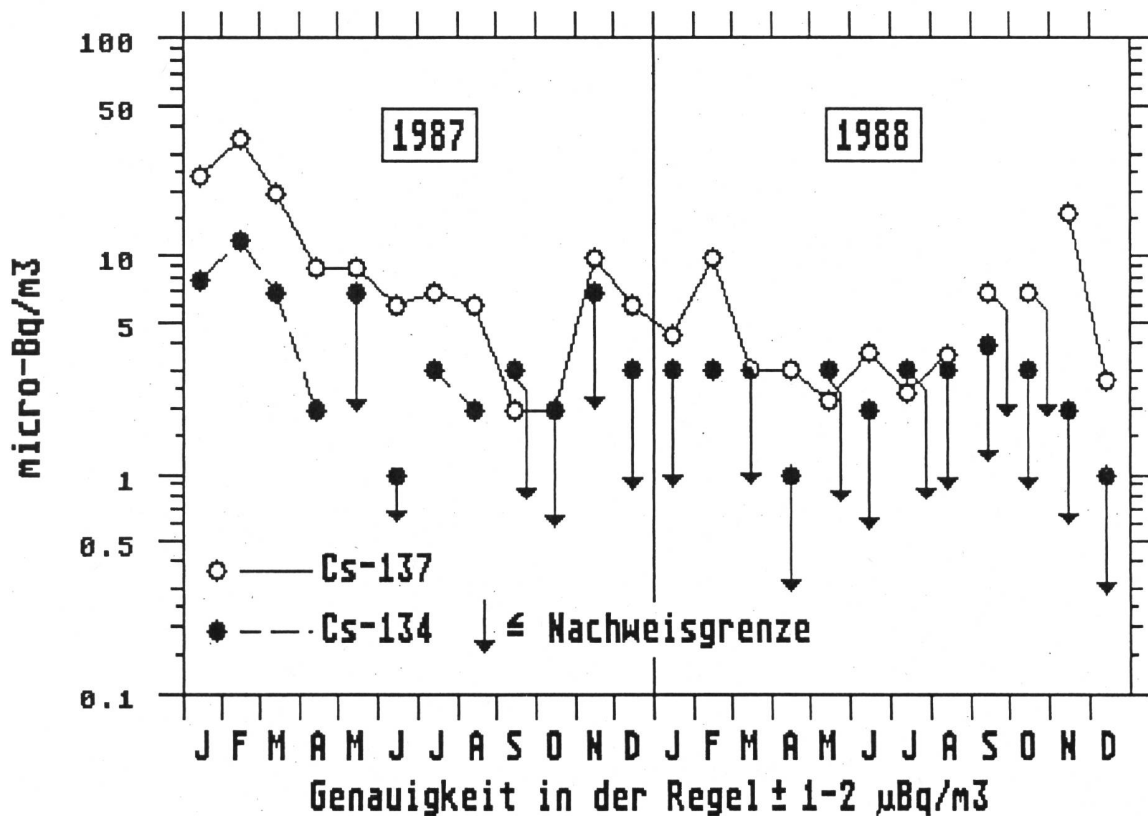


Fig.3.2: Luftaktivität (Aerosole), Gösgen

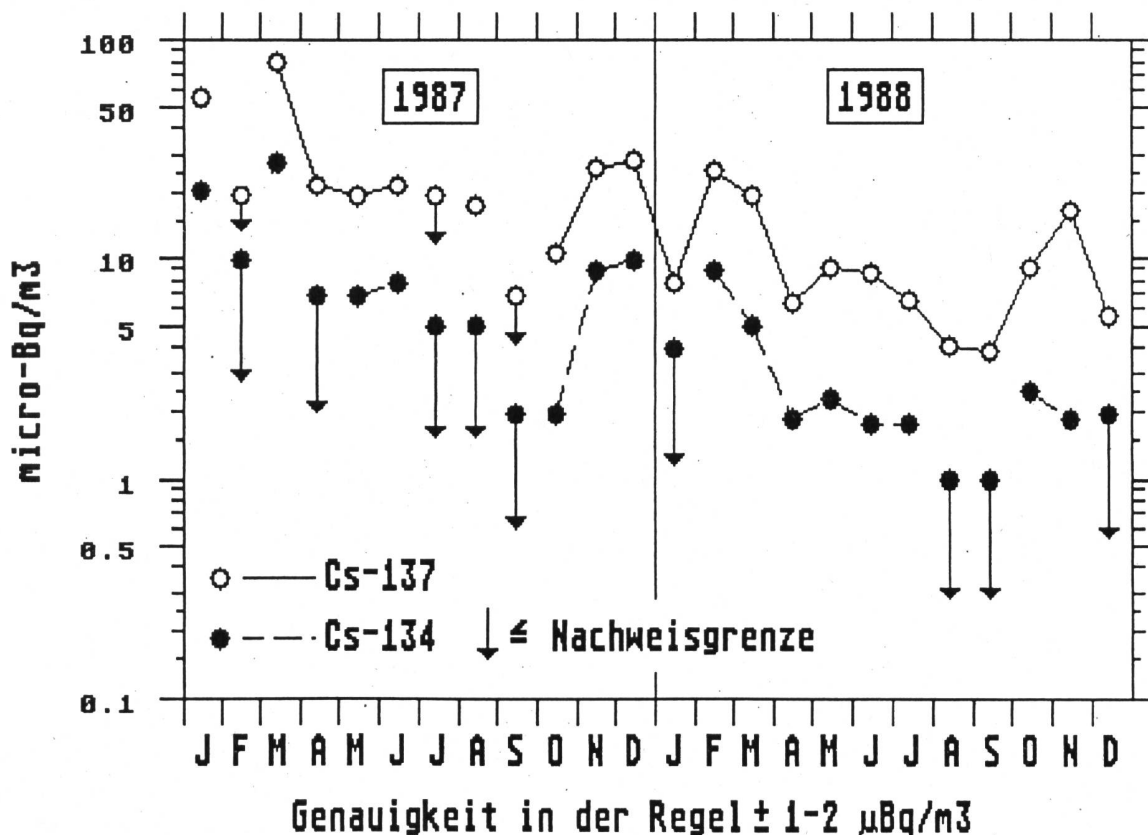


Fig.3.3: Luftaktivität (Aerosole), Leibstadt

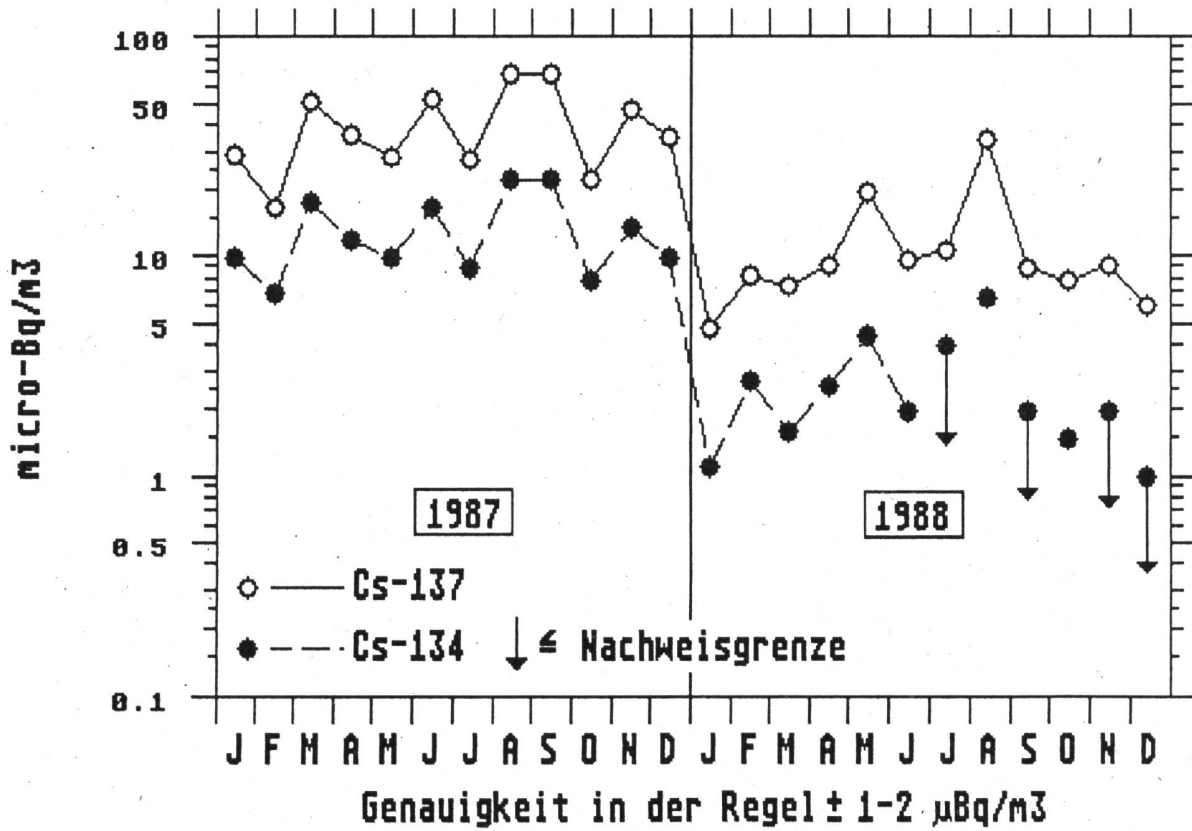


Fig.3.4: Luftaktivität (Aerosole), Mühleberg

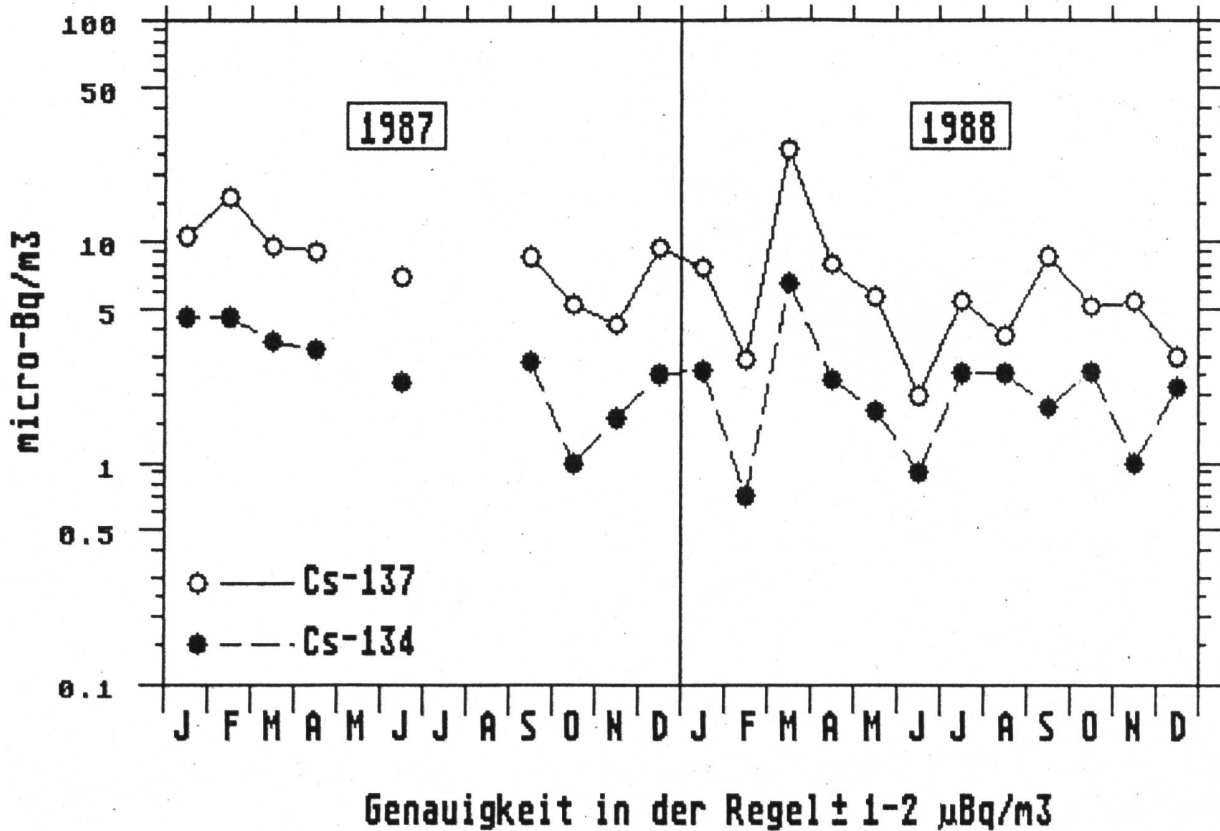


Fig. 3.5: Ar-37 in der Troposphärenluft von Bern

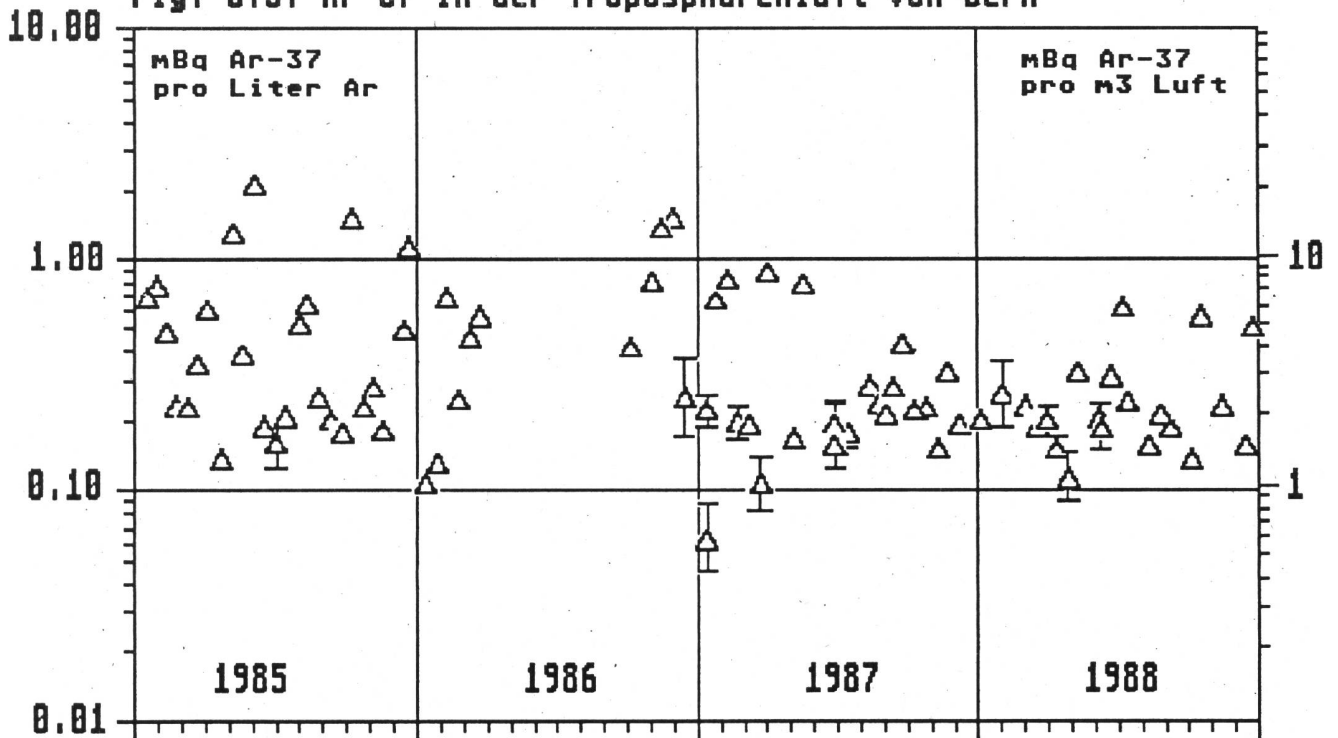


Fig. 3.6: Kr-85 in Luftproben aus Bern

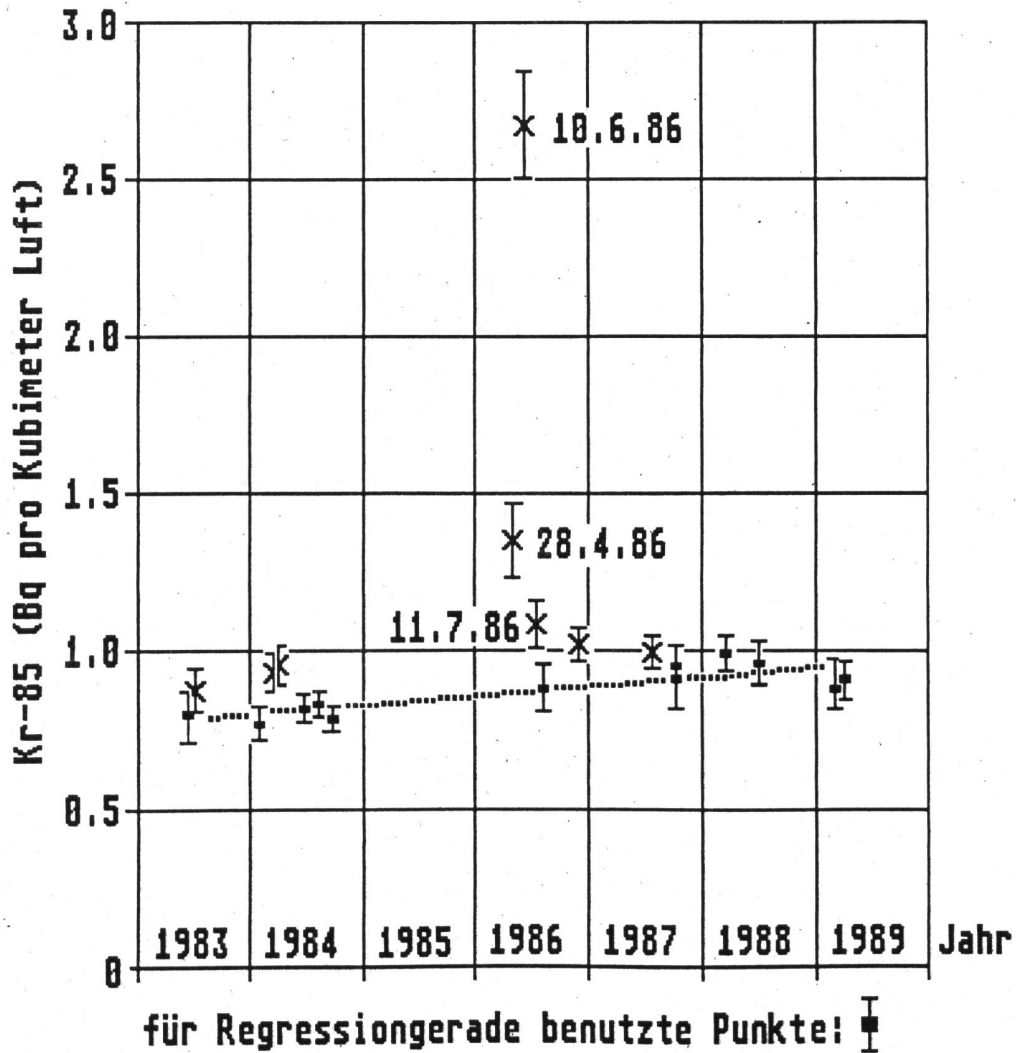


Fig.3.7: Gesamt- $\beta$ -Aktivität im Regen 1987

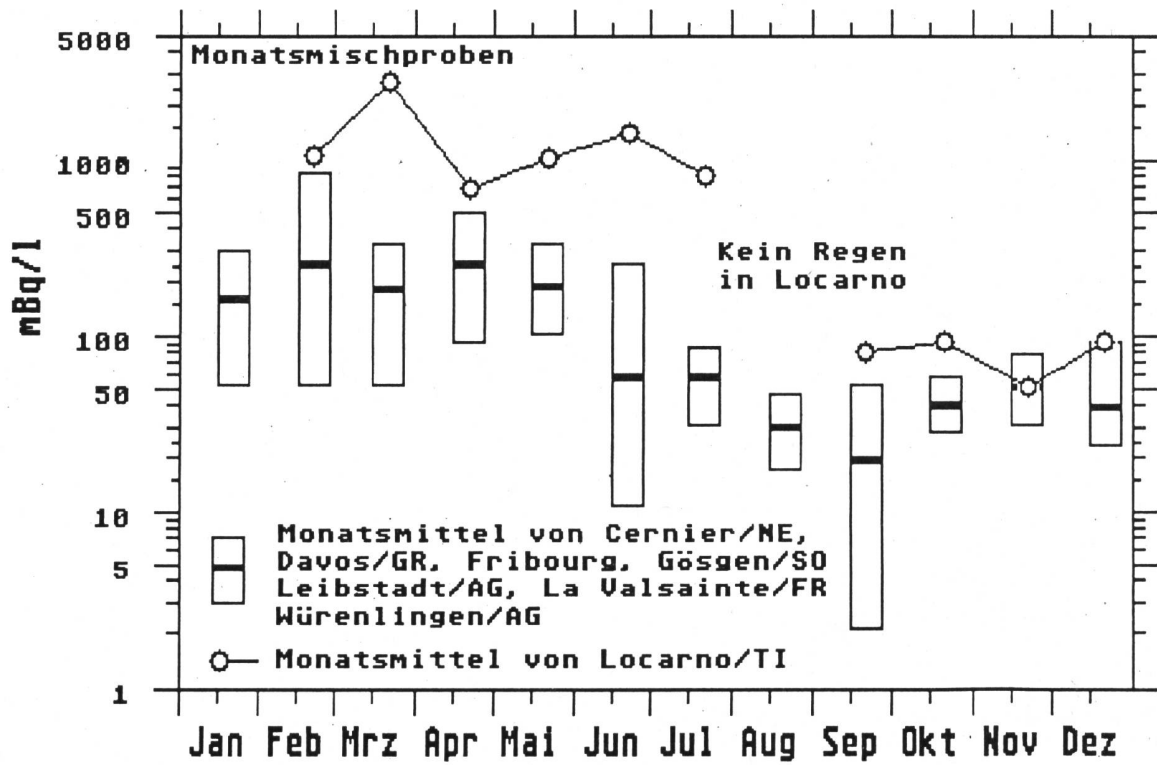


Fig.3.8: Radioaktivität im Regen 1988

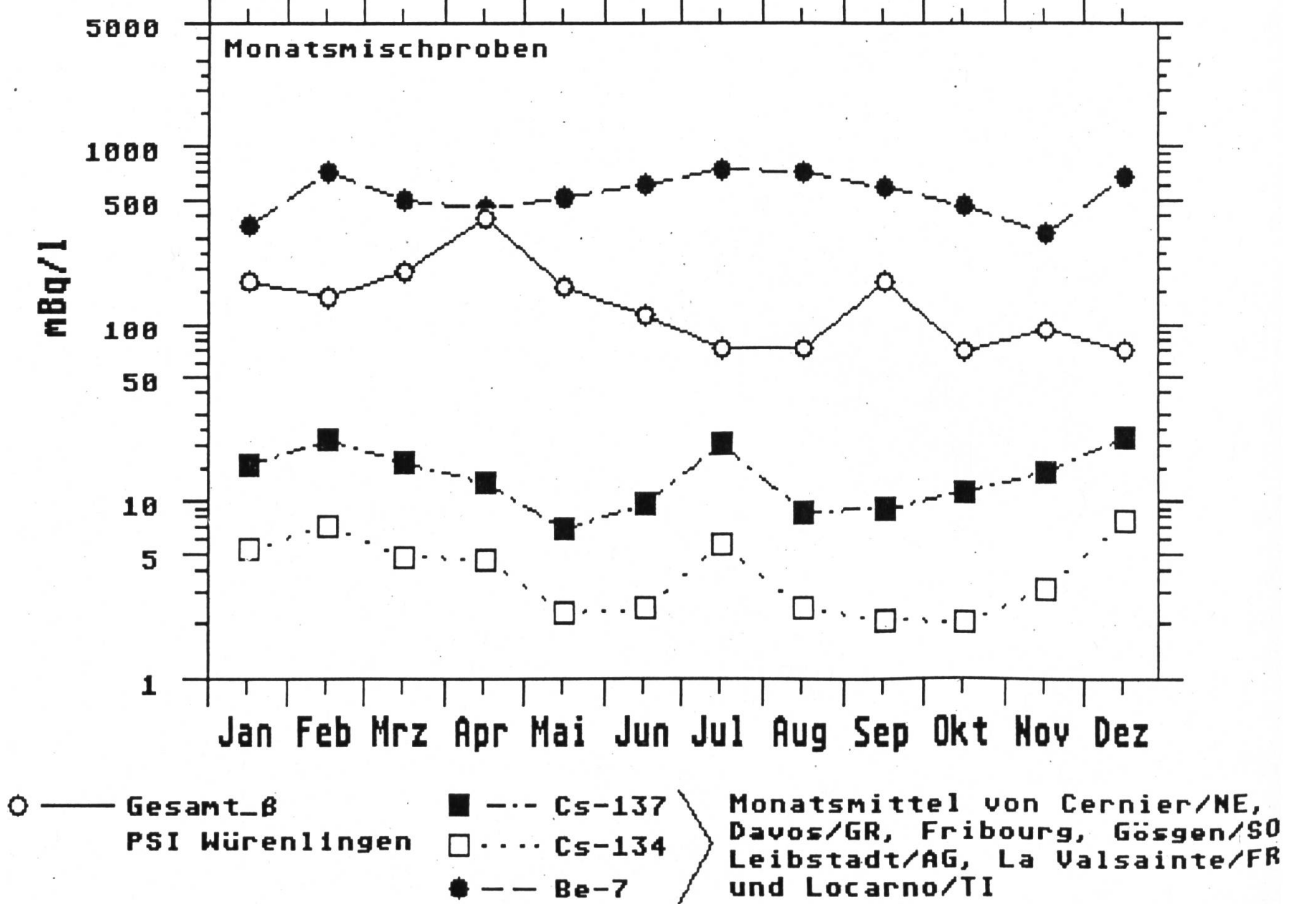


Fig.3.9: Tritium in Niederschlägen von Basel und Säntis

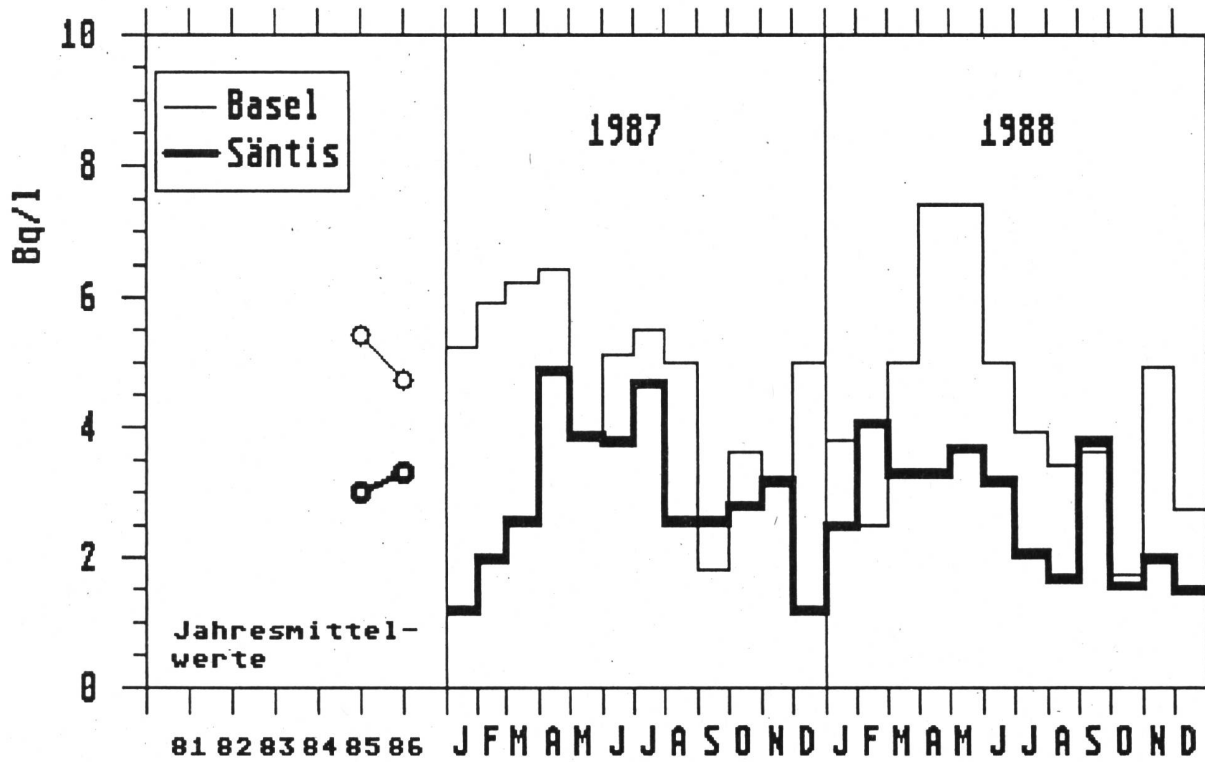


Fig.3.10: Tritium in Niederschlägen von Grindelwald / BE und Guttannen / BE

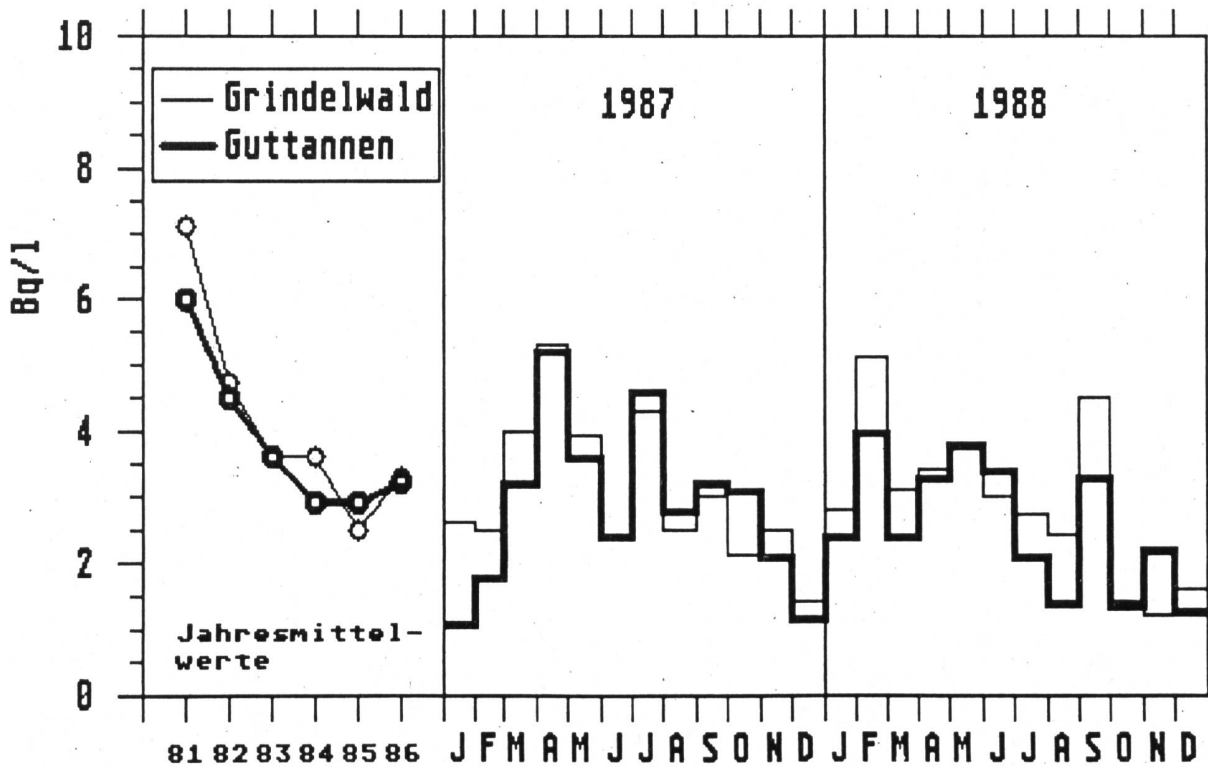


Fig.3.11: Tritium in Niederschlägen von Visp / VS und Locarno / TI

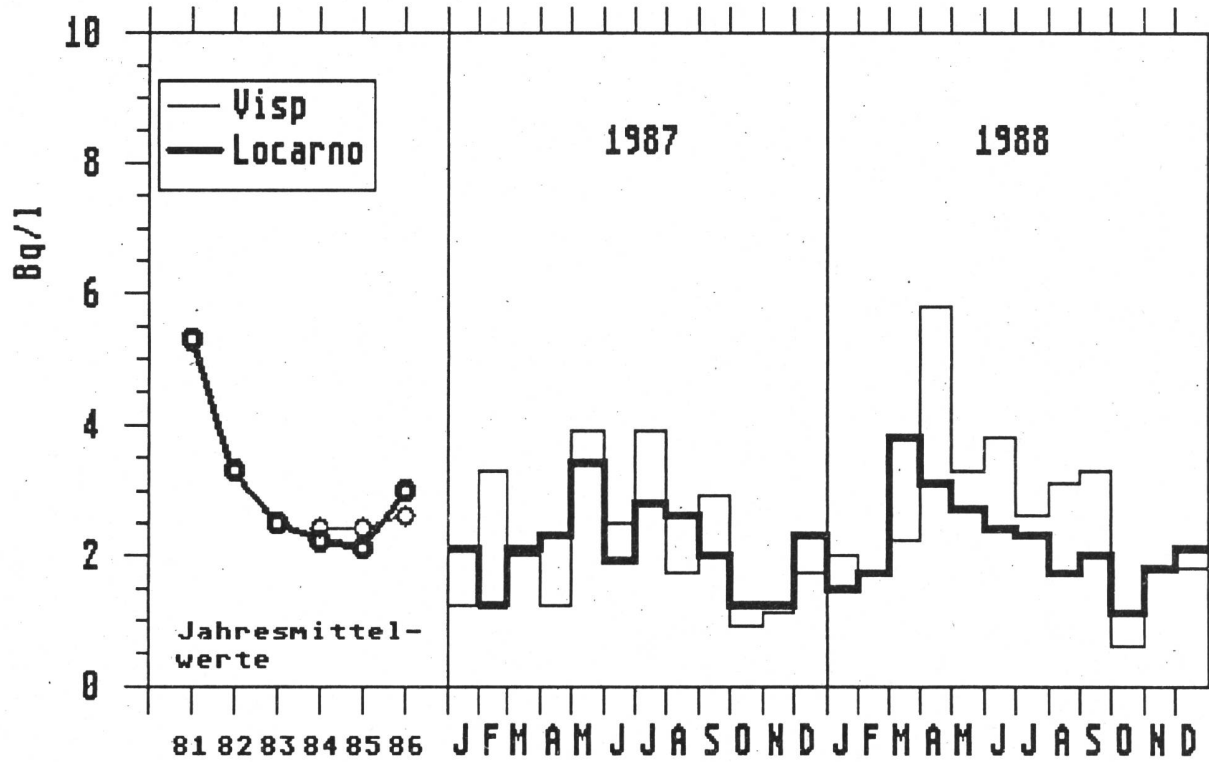


Fig.3.12: Tritium in Niederschlägen von Bern

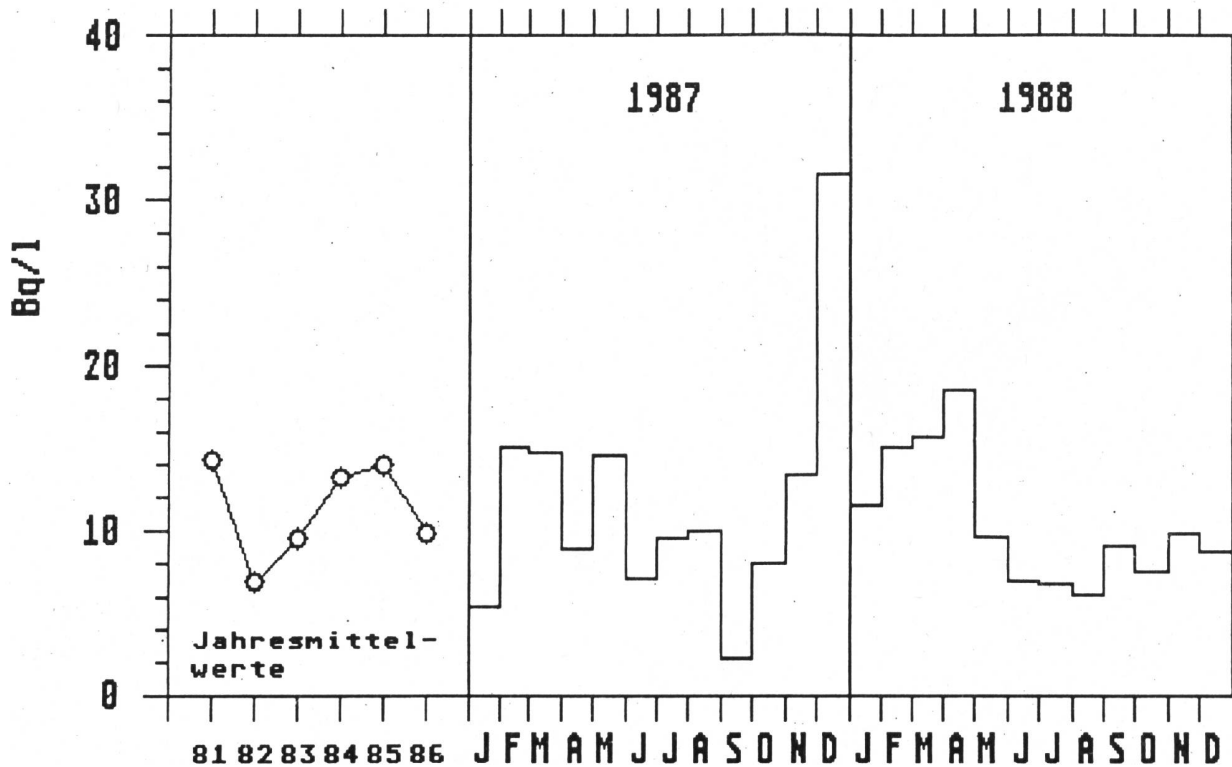


Fig.3.13: Tritium in Niederschlägen von Niedergösgen / SO und Dulliken / SO

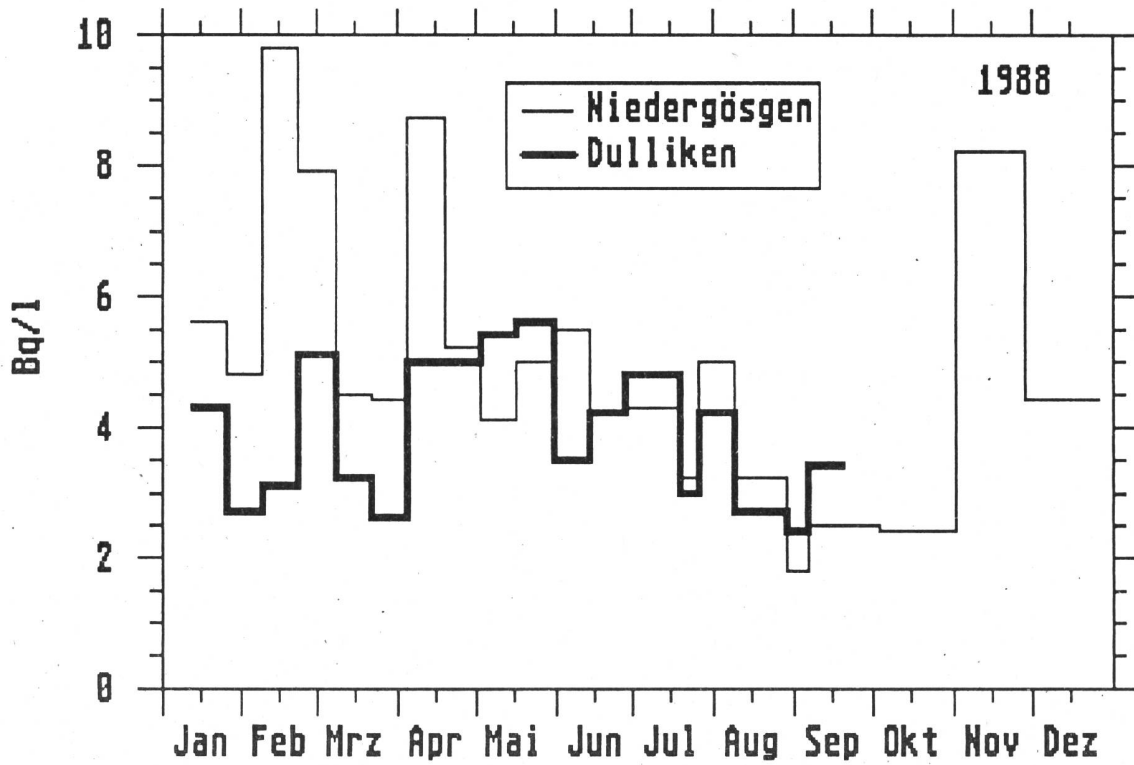
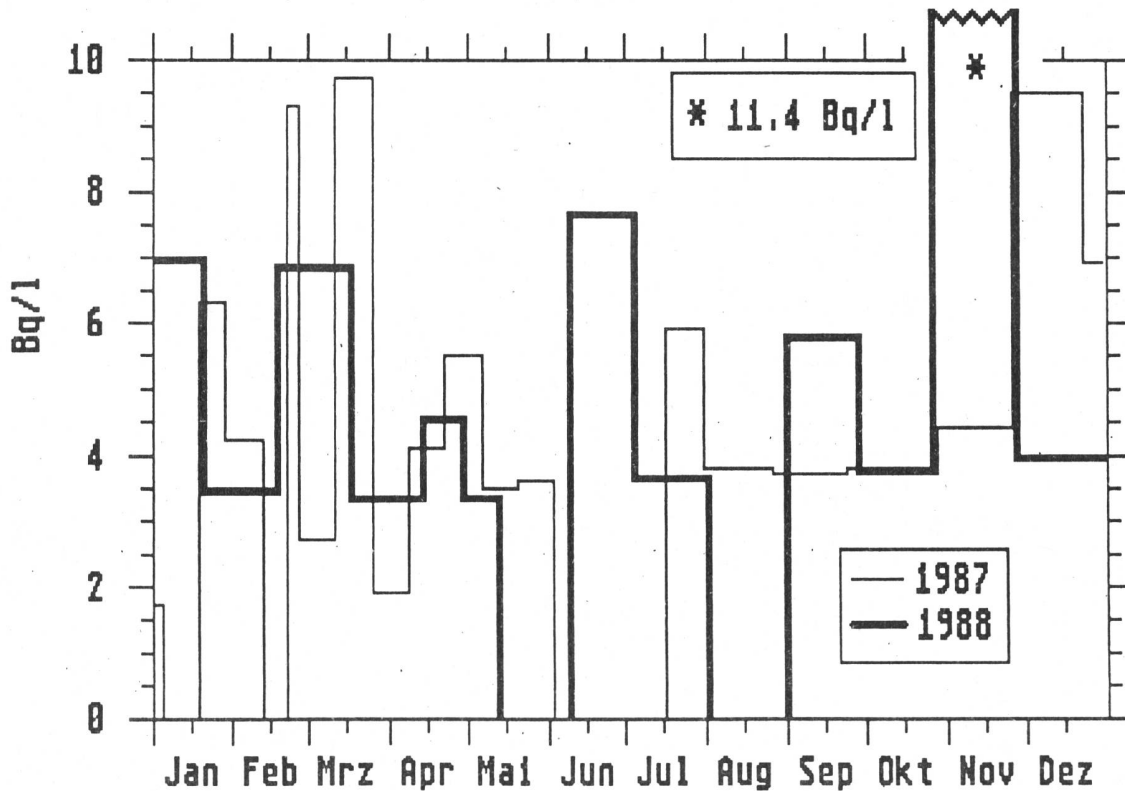


Fig.3.14: Tritium in Niederschlägen von KKW Mühleberg (Ufem Horn)



**Fig.3.15: Ortsdosen im Kanton Tessin**  
**Messungen im Mai 1987 (nSv/h)**  
**gemessen im Auftrag der NAZ im Kanton Tessin**

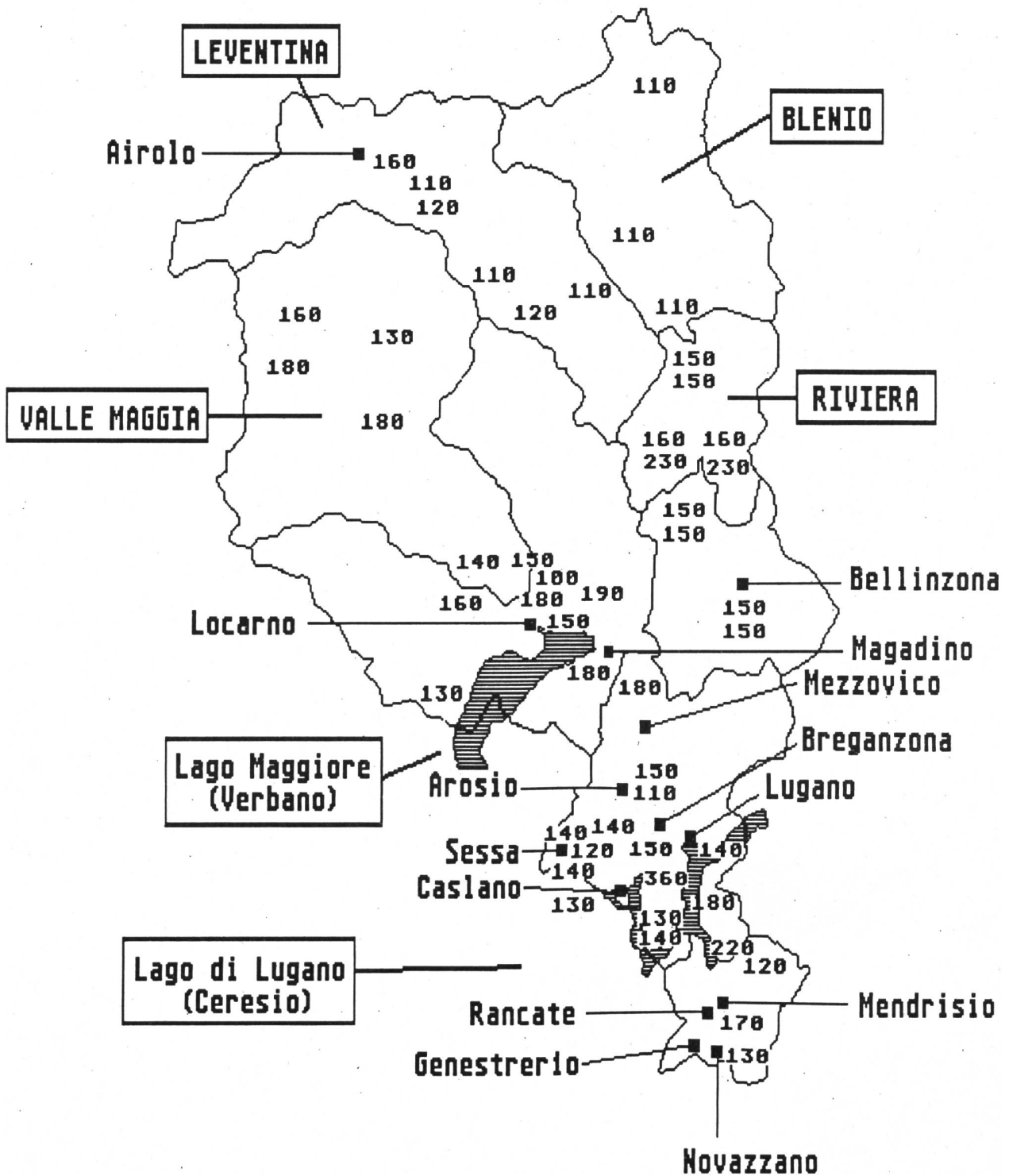


Fig. 3.16.a:

Einfluss von Niederschlägen auf den Tagesverlauf der Ortsdosisleistung  
an der NADAM-Station Neuchâtel am 9.9.1988

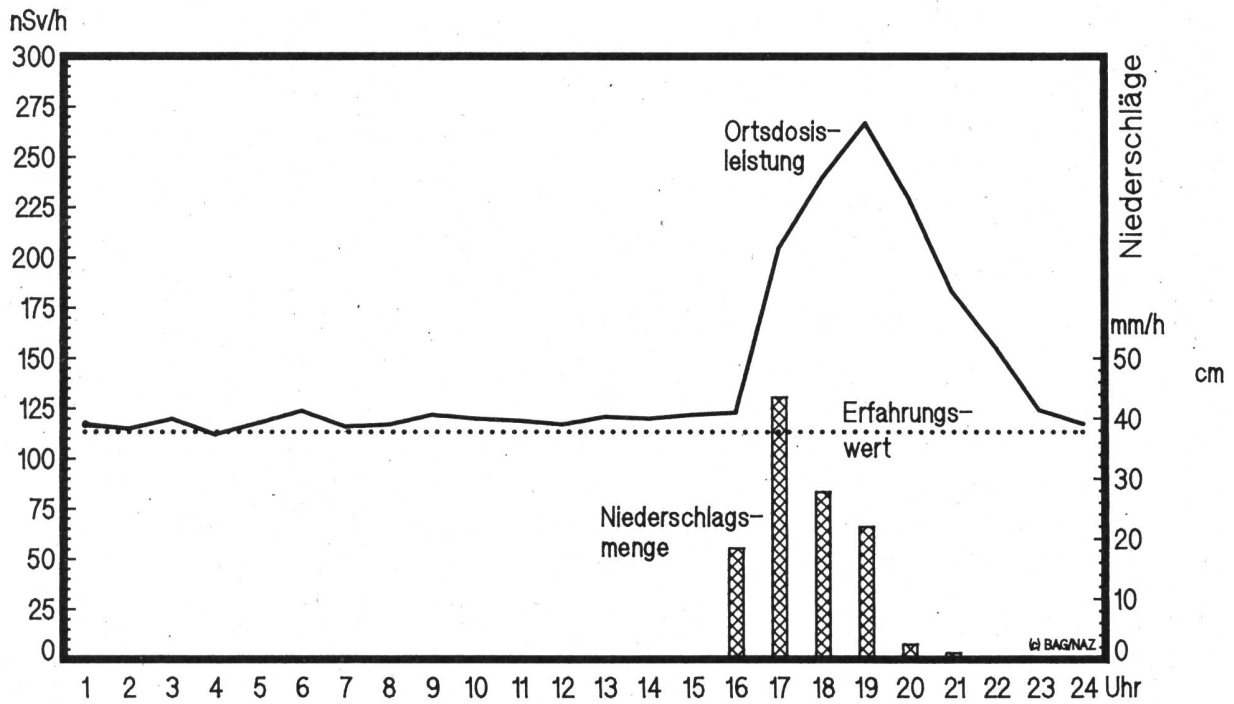


Fig. 3.16.b:

Einfluss von Schneefällen auf die Ortsdosisleistung  
an der Nadam-Station La Chaux-de-Fonds im 1. Quartal 1988

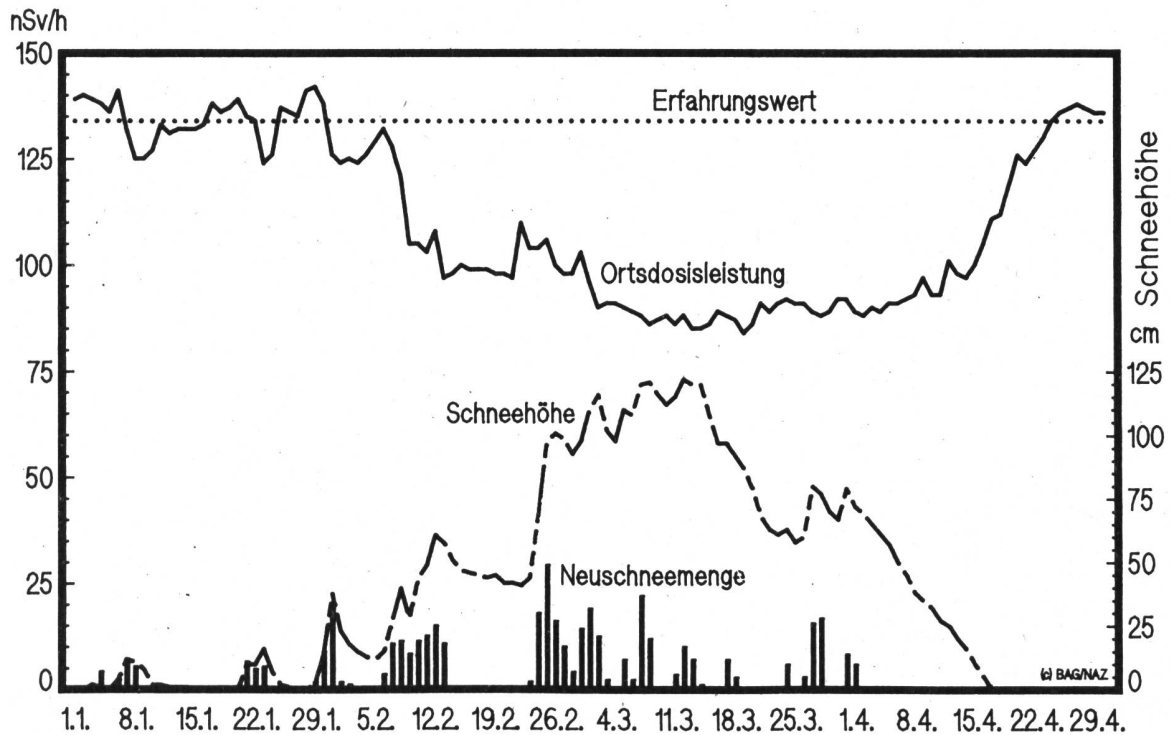


Fig. 3.16.c: NADAM-Stationen:

Jahresmittelwerte 1987 nach Regionen

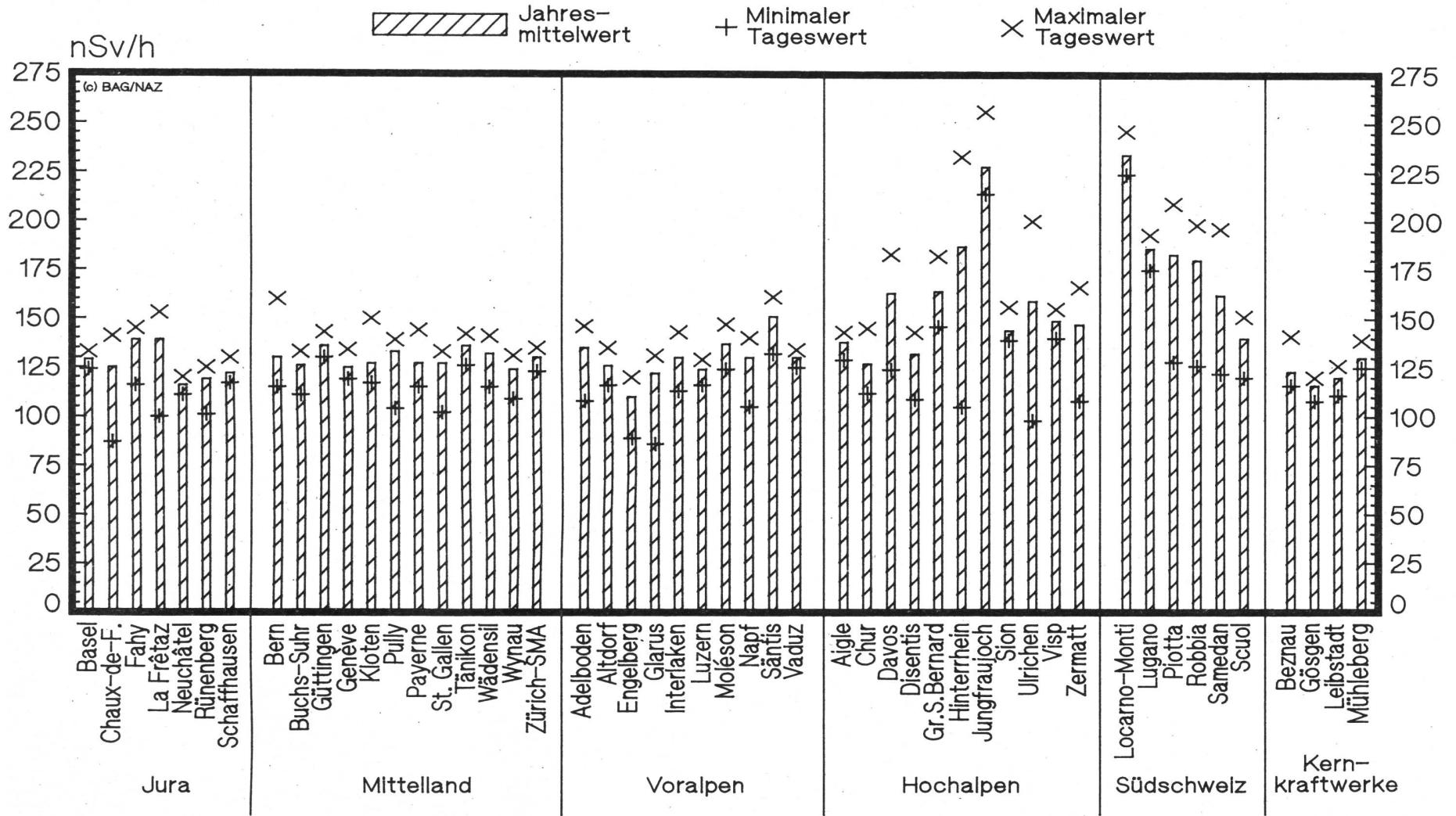


Fig. 3.16.d: Wochenmittelwerte der NADAM-Stationen in nSv/h 1988

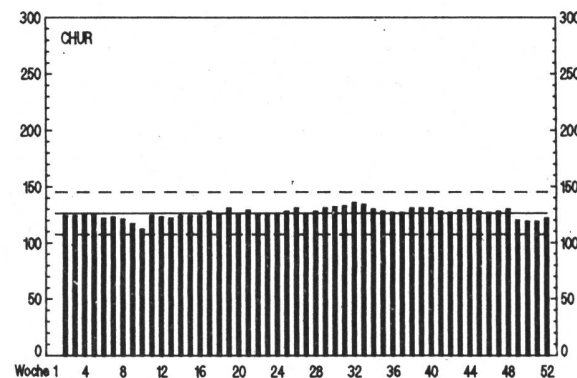
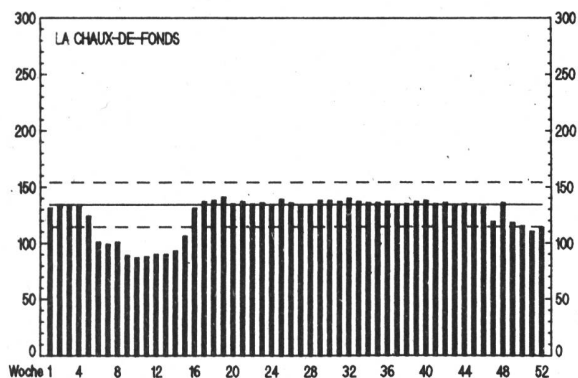
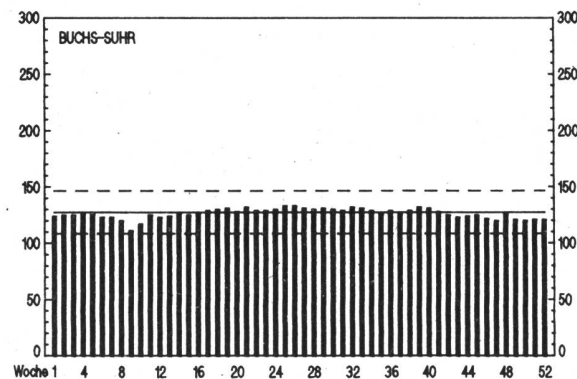
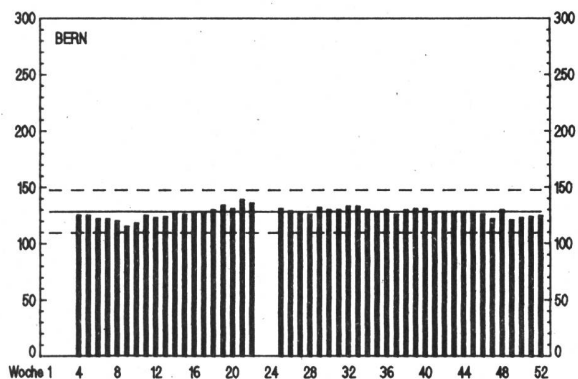
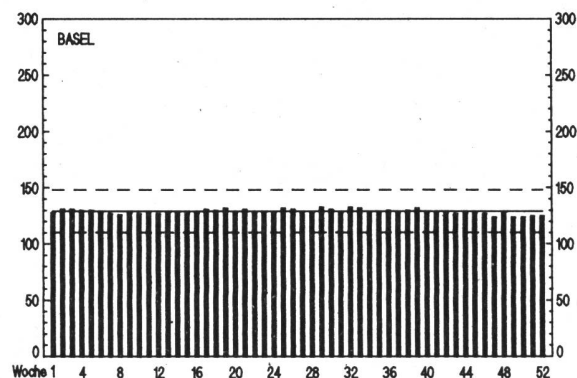
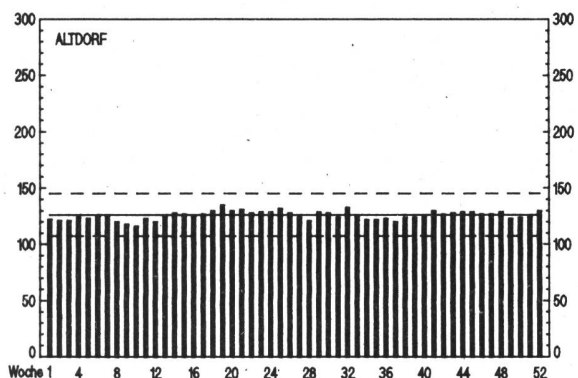
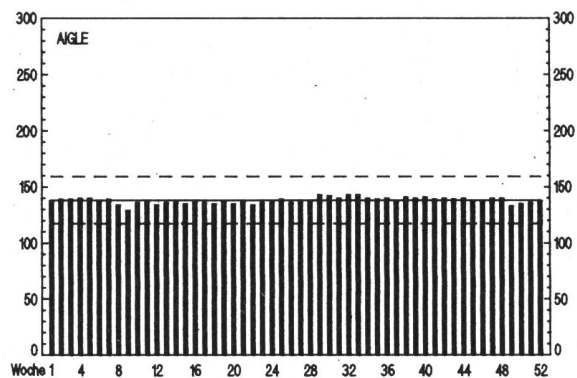
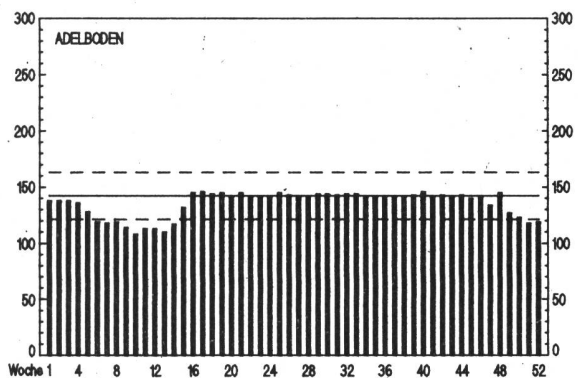


Fig. 3.16.e: Wochenmittelwerte der NADAM-Stationen in nSv/h 1988

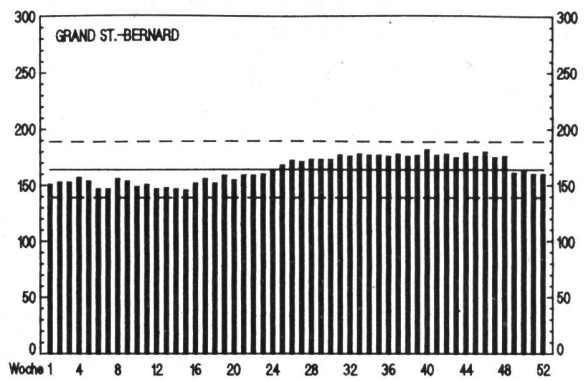
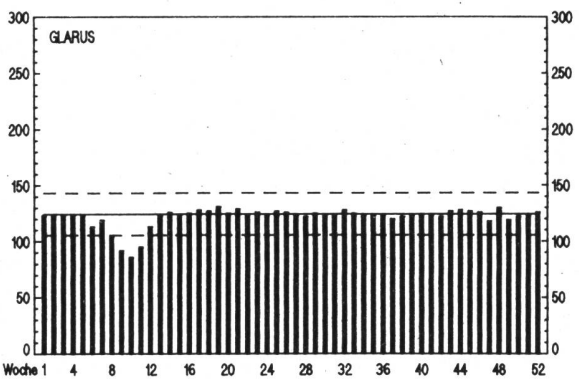
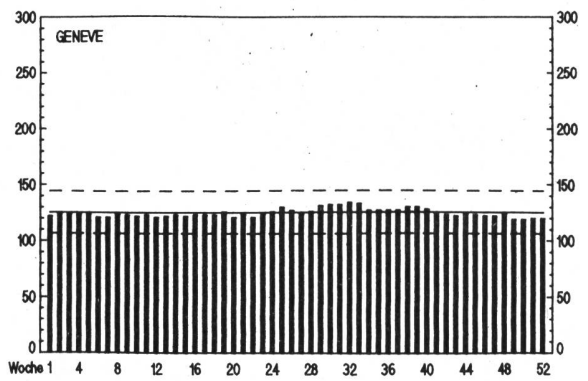
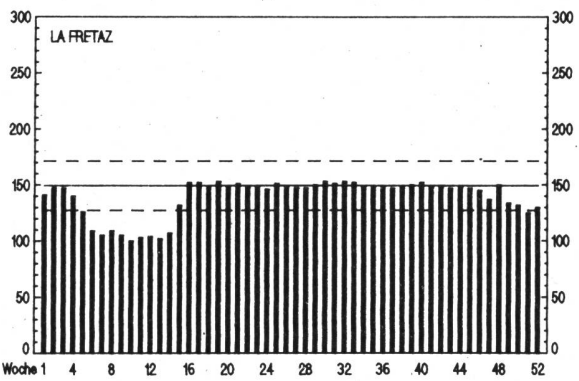
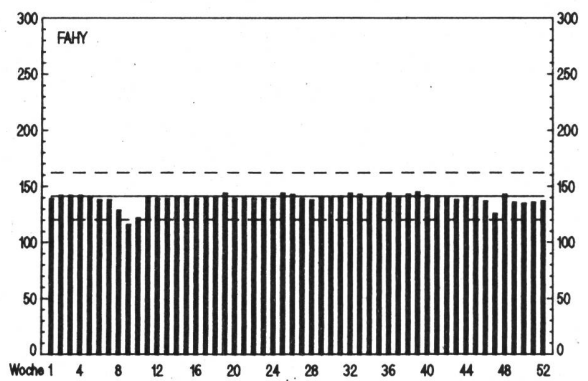
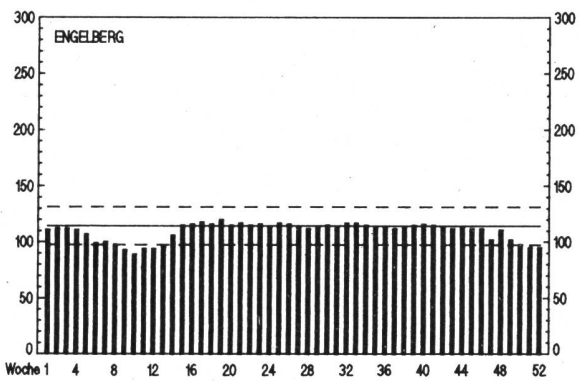
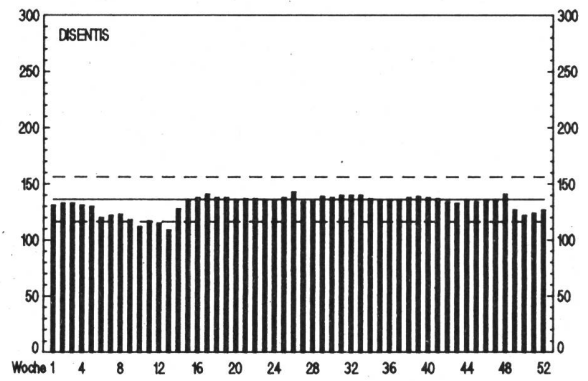
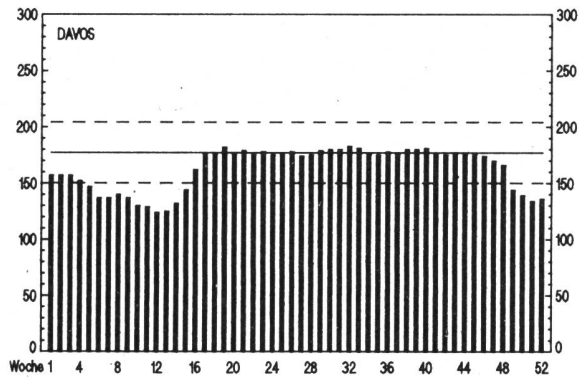


Fig. 3.16.f: Wochenmittelwerte der NADAM-Stationen in nSv/h 1988

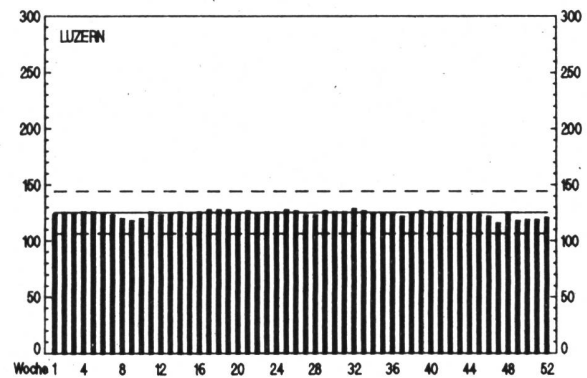
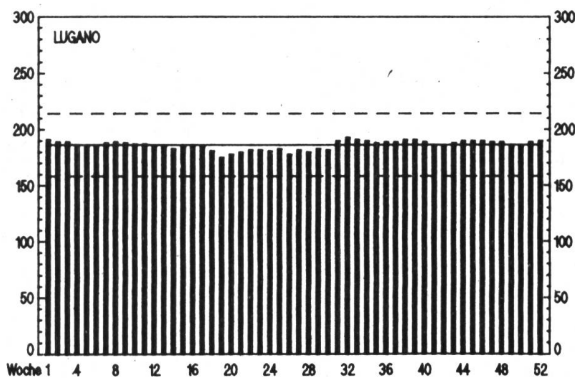
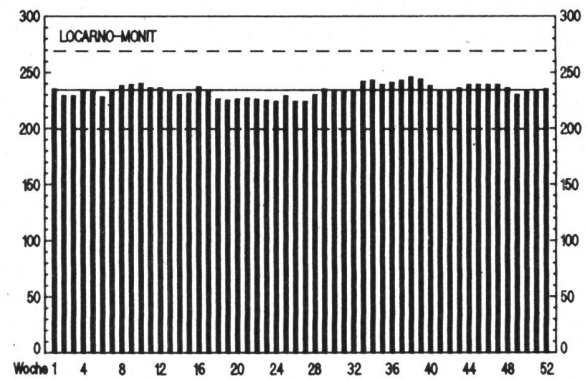
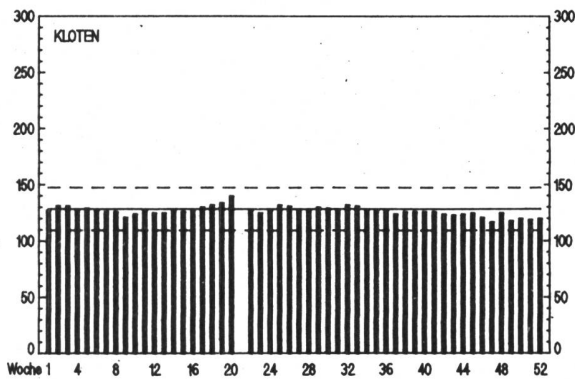
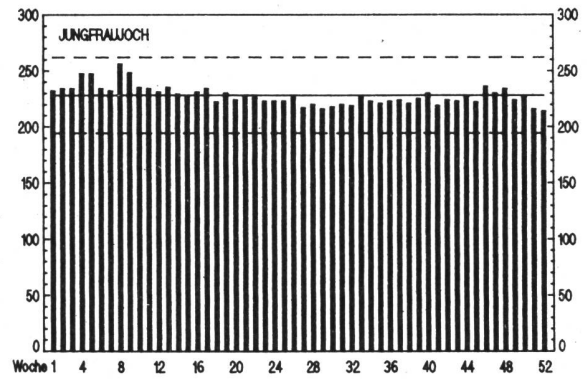
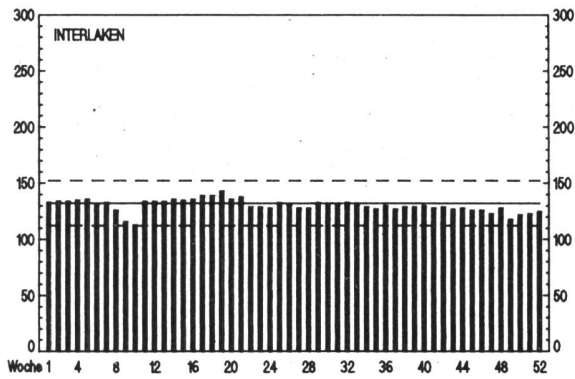
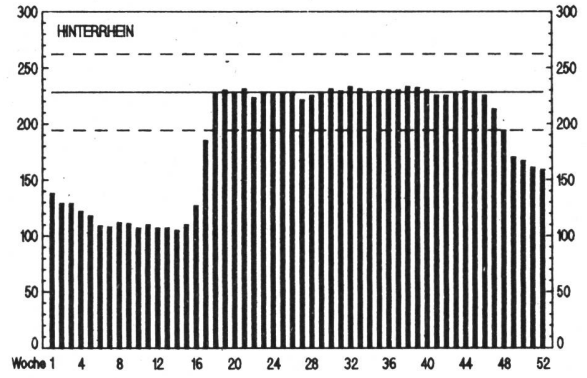
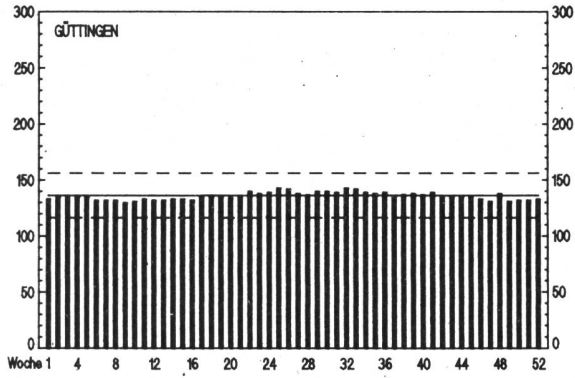


Fig. 3.16.g: Wochenmittelwerte der NADAM-Stationen in nSv/h 1988

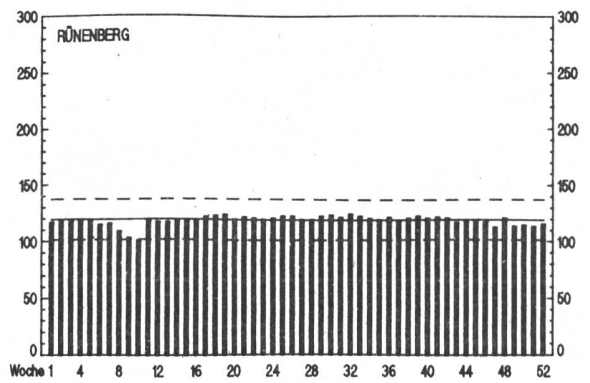
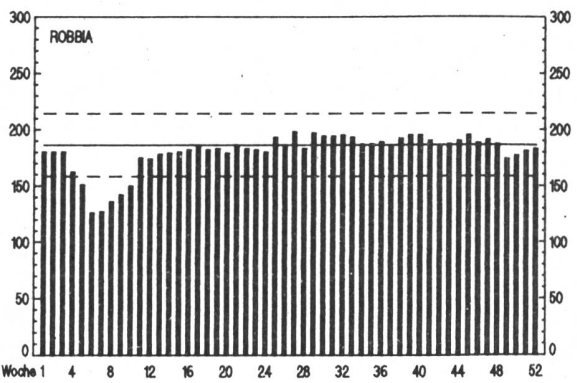
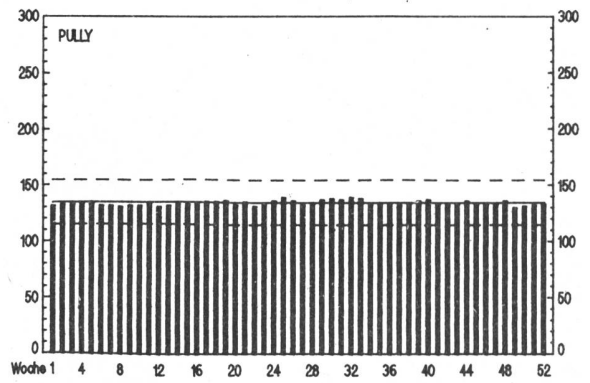
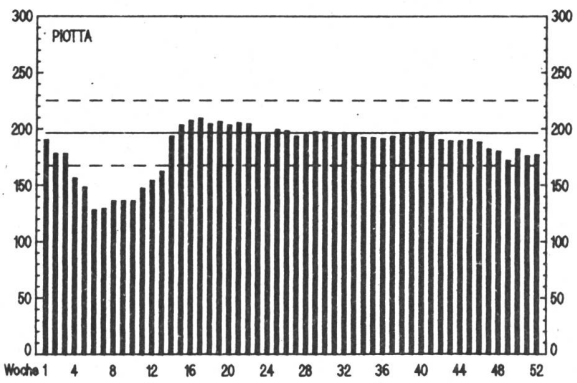
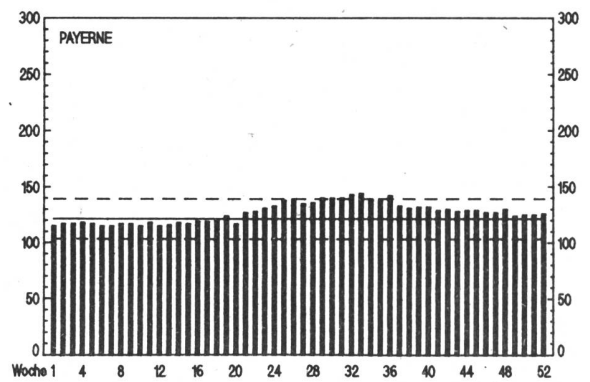
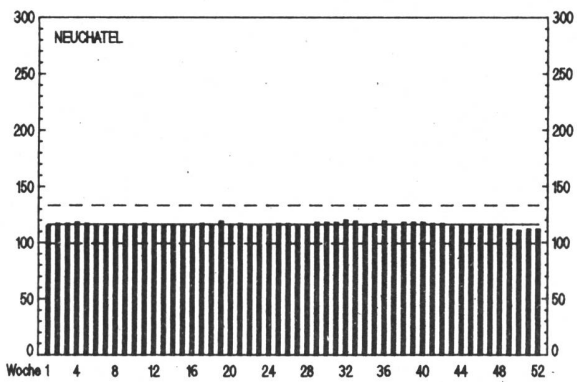
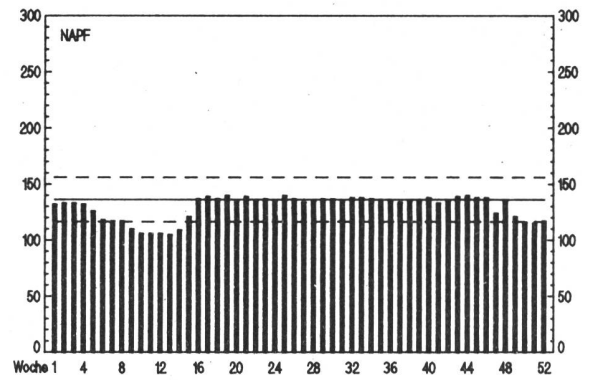
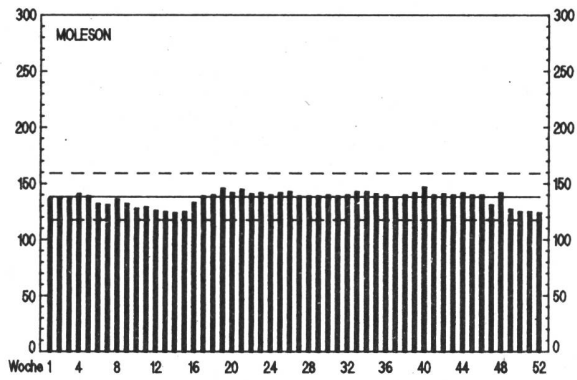


Fig. 3.16.h: Wochenmittelwerte der NADAM-Stationen in nSv/h 1988

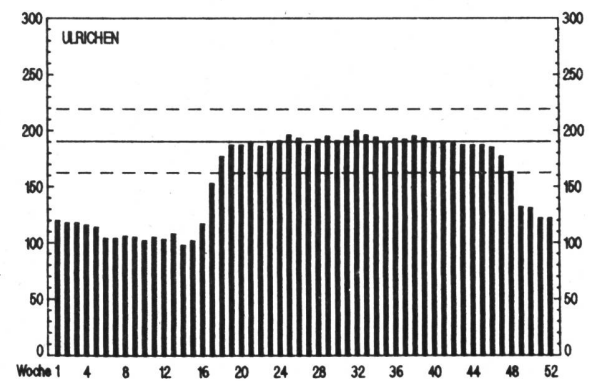
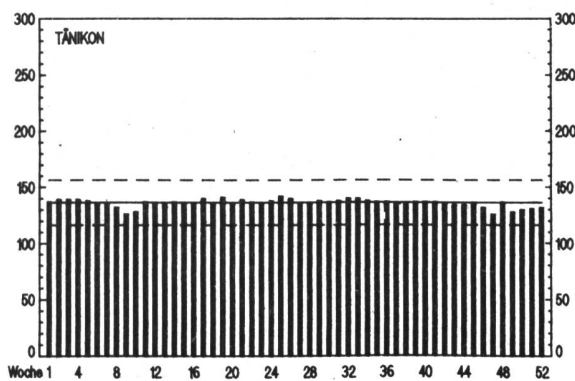
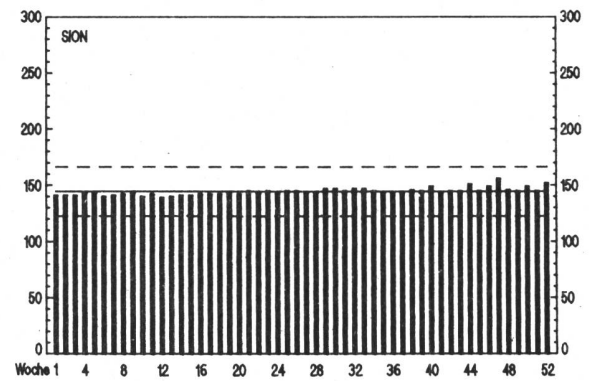
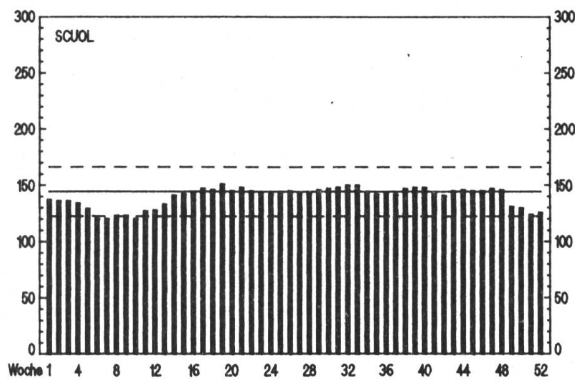
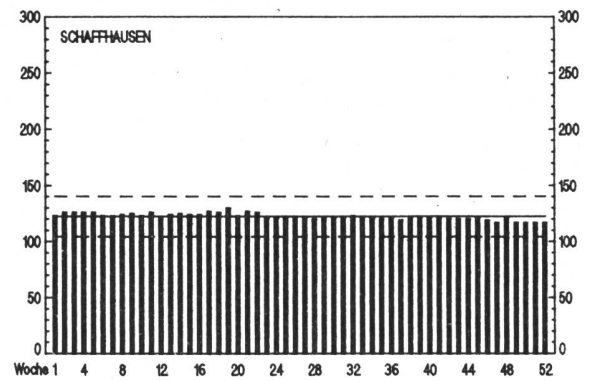
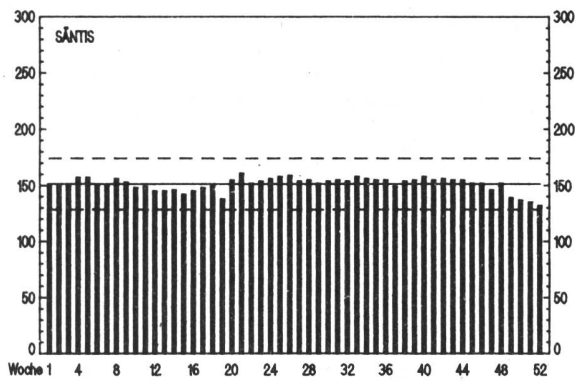
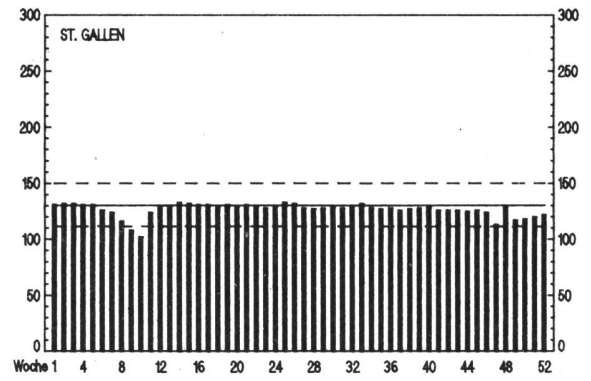
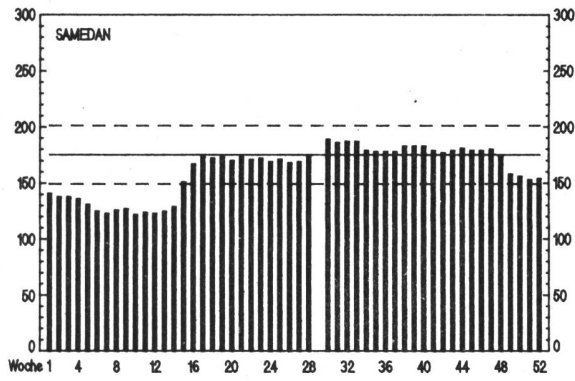


Fig. 3.16.i: Wochenmittelwerte der NADAM-Stationen in nSv/h 1988

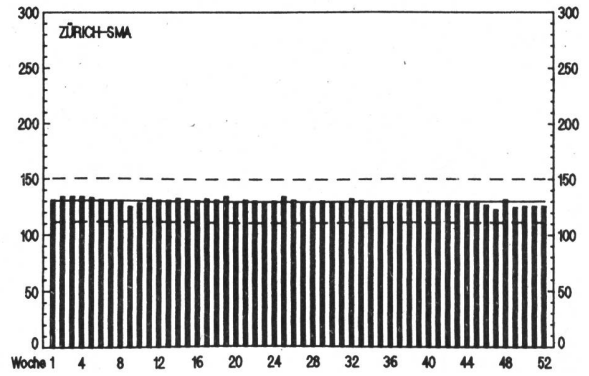
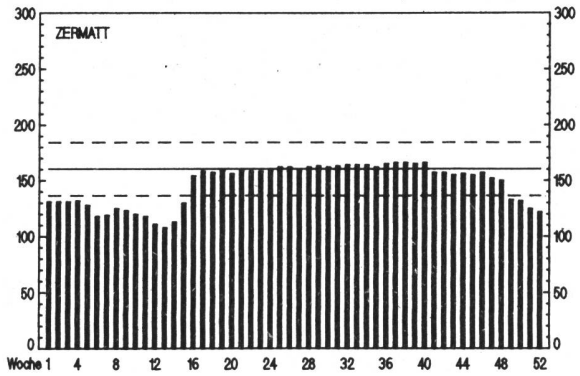
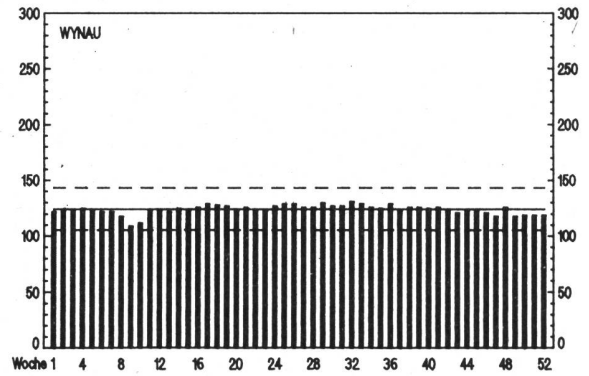
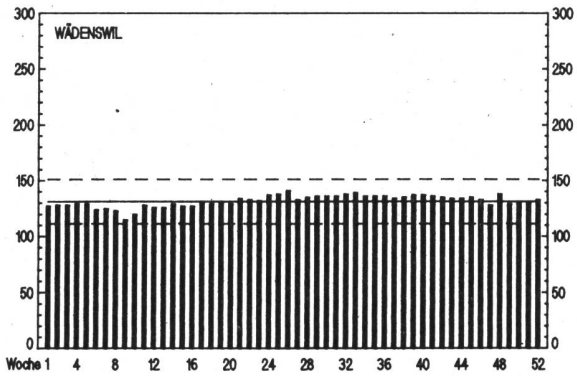
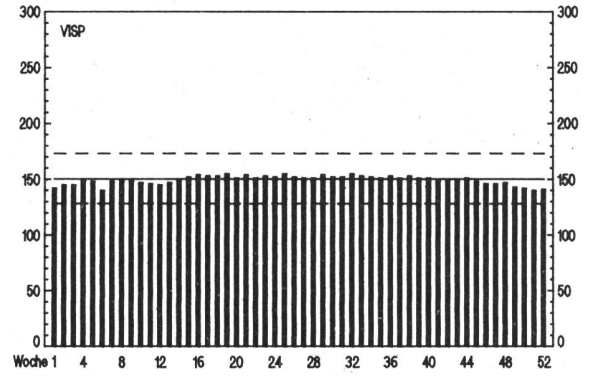
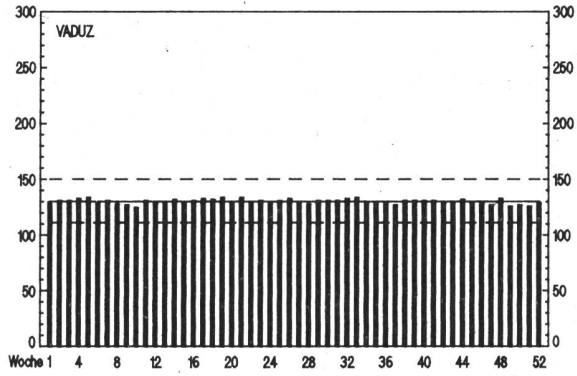
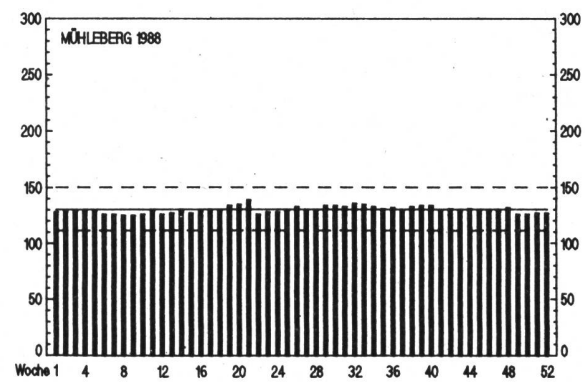
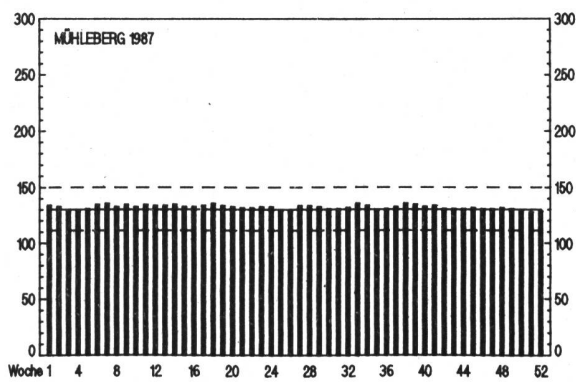
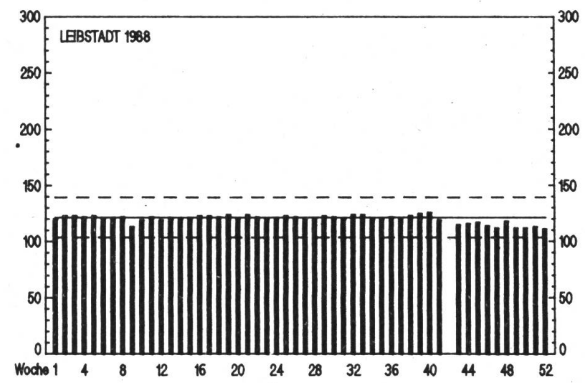
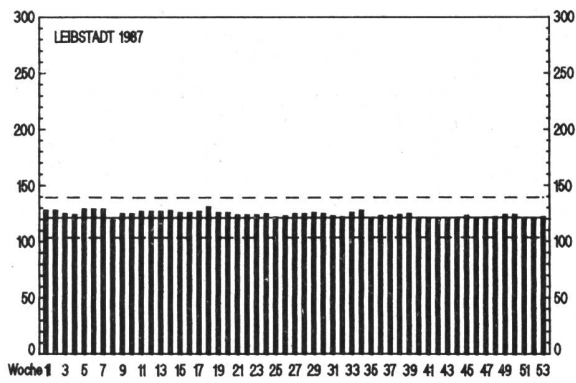
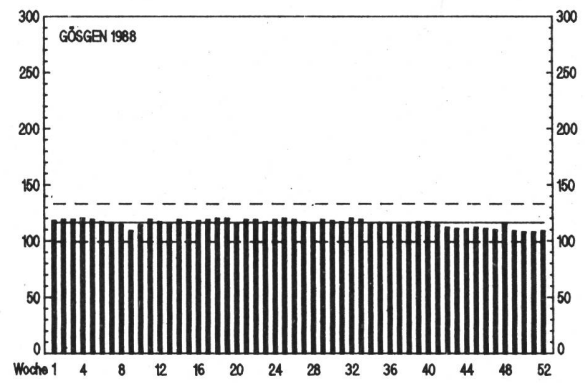
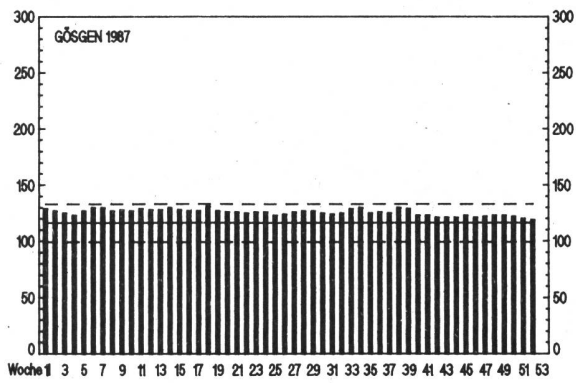
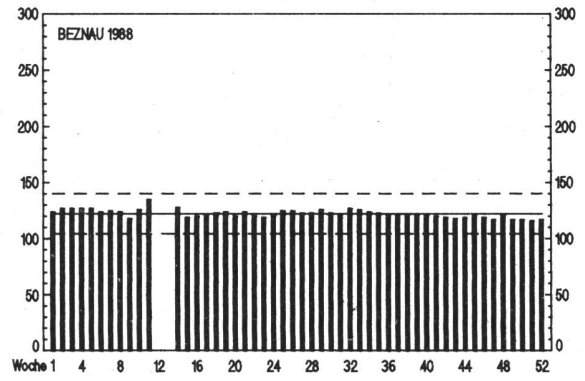
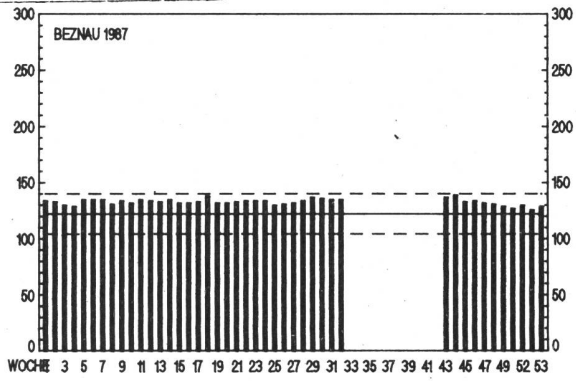
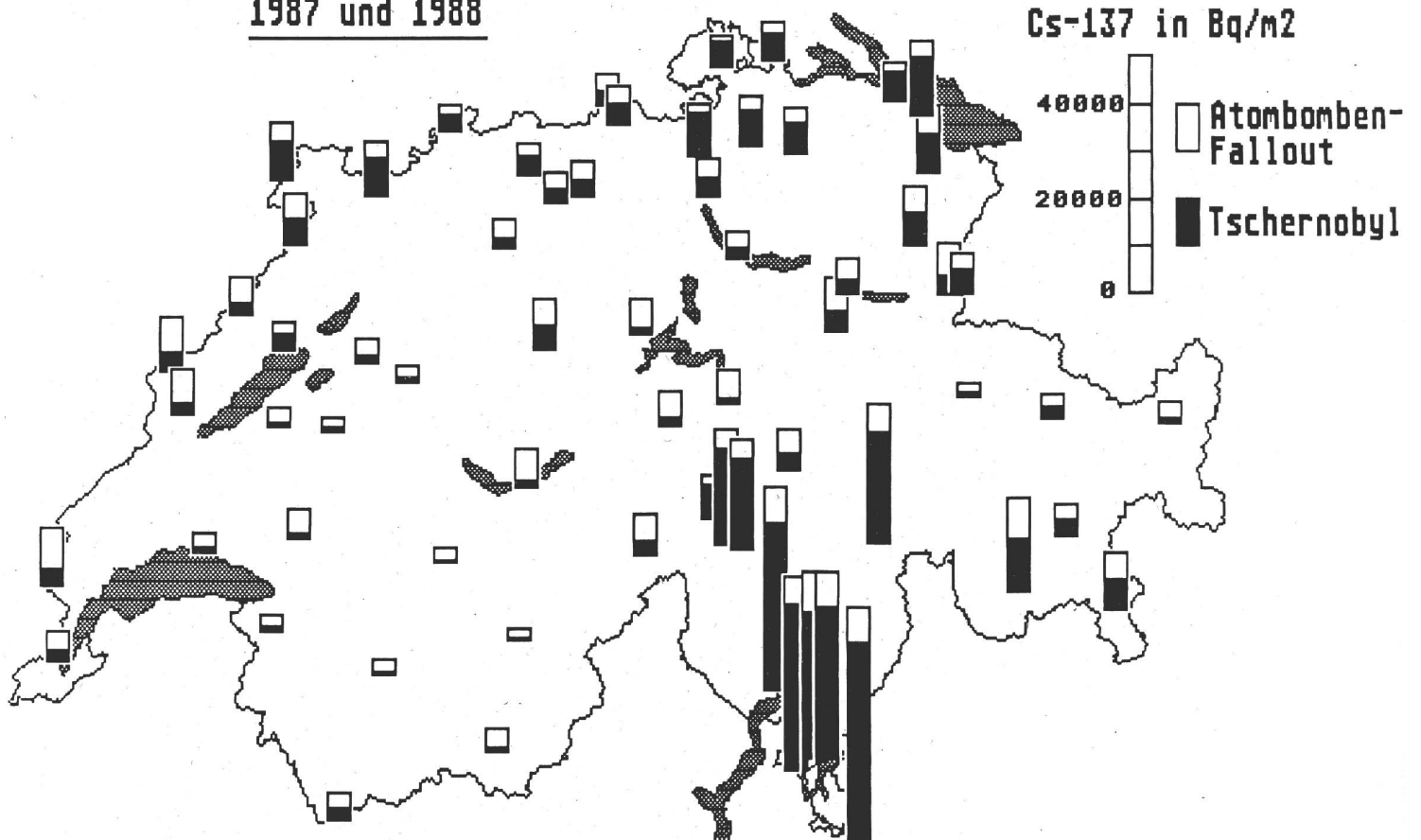


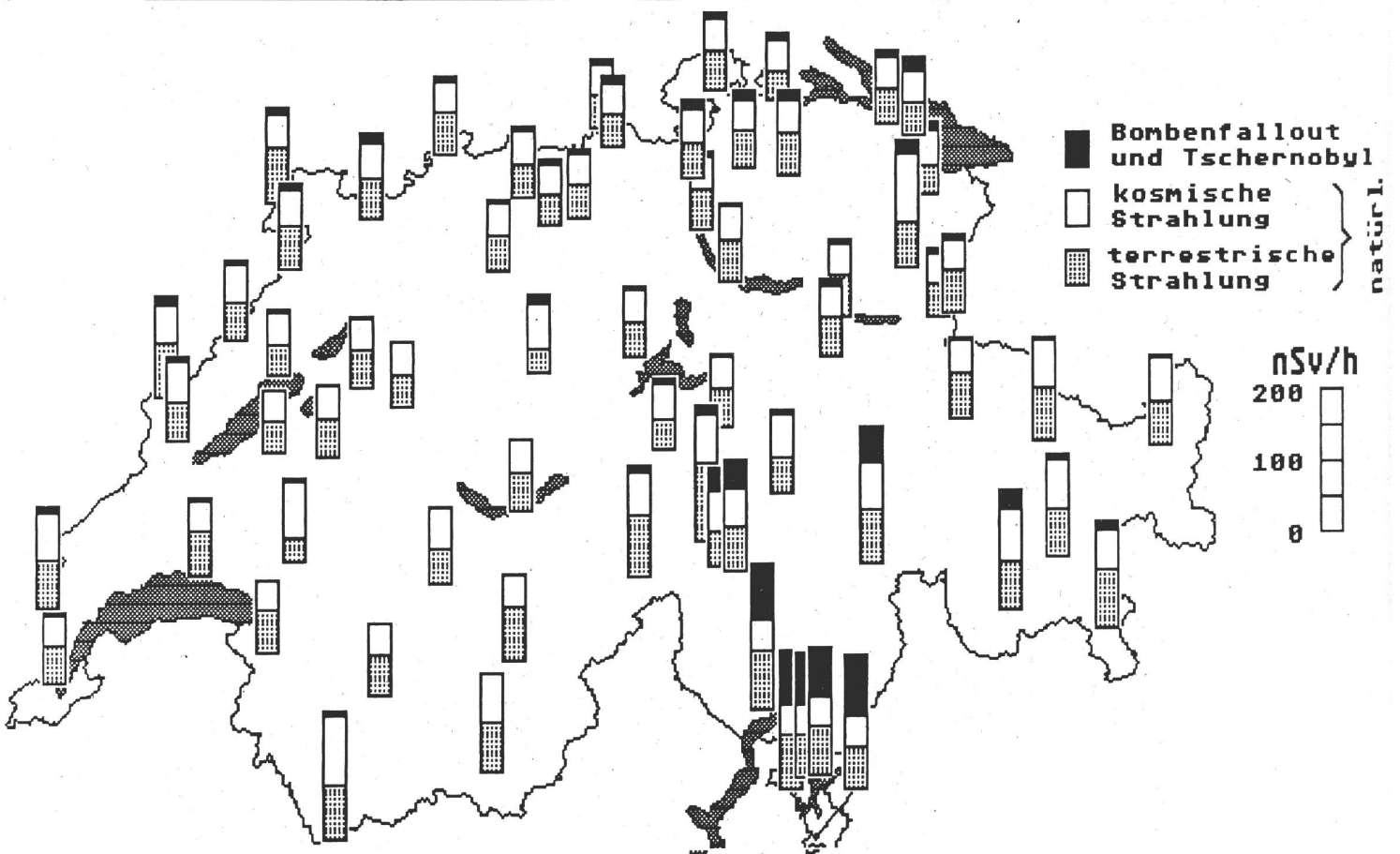
Fig. 3.16.k: Wochenmittelwerte der NADAM-Stationen in nSv/h 1988



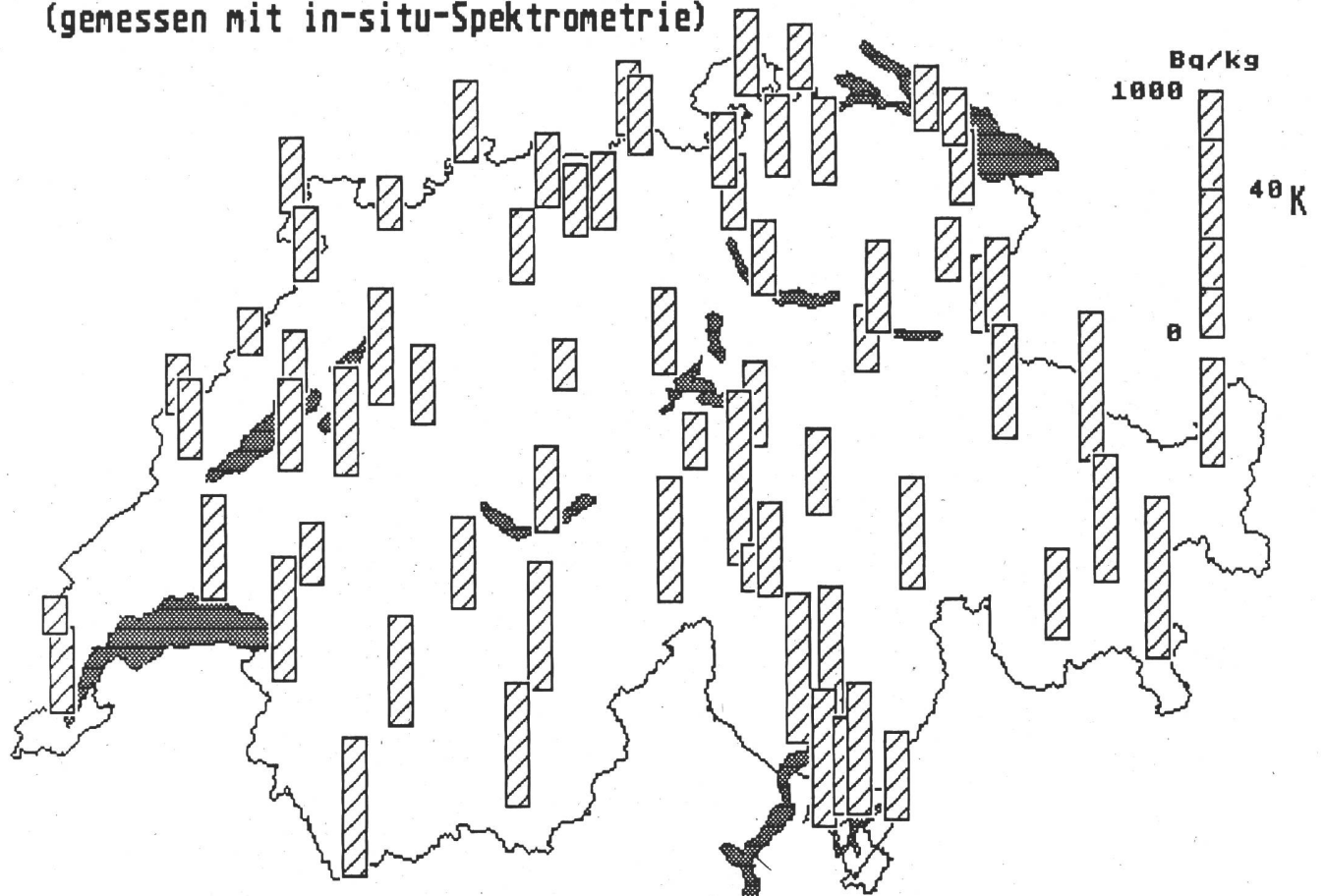
**Fig.3.17.a: Aktivitätsflächenbelegung durch Cs-137 in Bq/m<sup>2</sup> in der Schweiz 1987 und 1988**



**Fig.3.17.b: Beiträge zur Ortsdosisleistung in der Schweiz (1988)**



**Fig.3.17.c: Kalium-40-Gehalt des Bodens in der Schweiz  
(gemessen mit in-situ-Spektrometrie)**



**Fig.3.17.d: Natürlicher Radioaktivitätsgehalt des Bodens in der Schweiz  
(gemessen mit in-situ-Spektrometrie)**

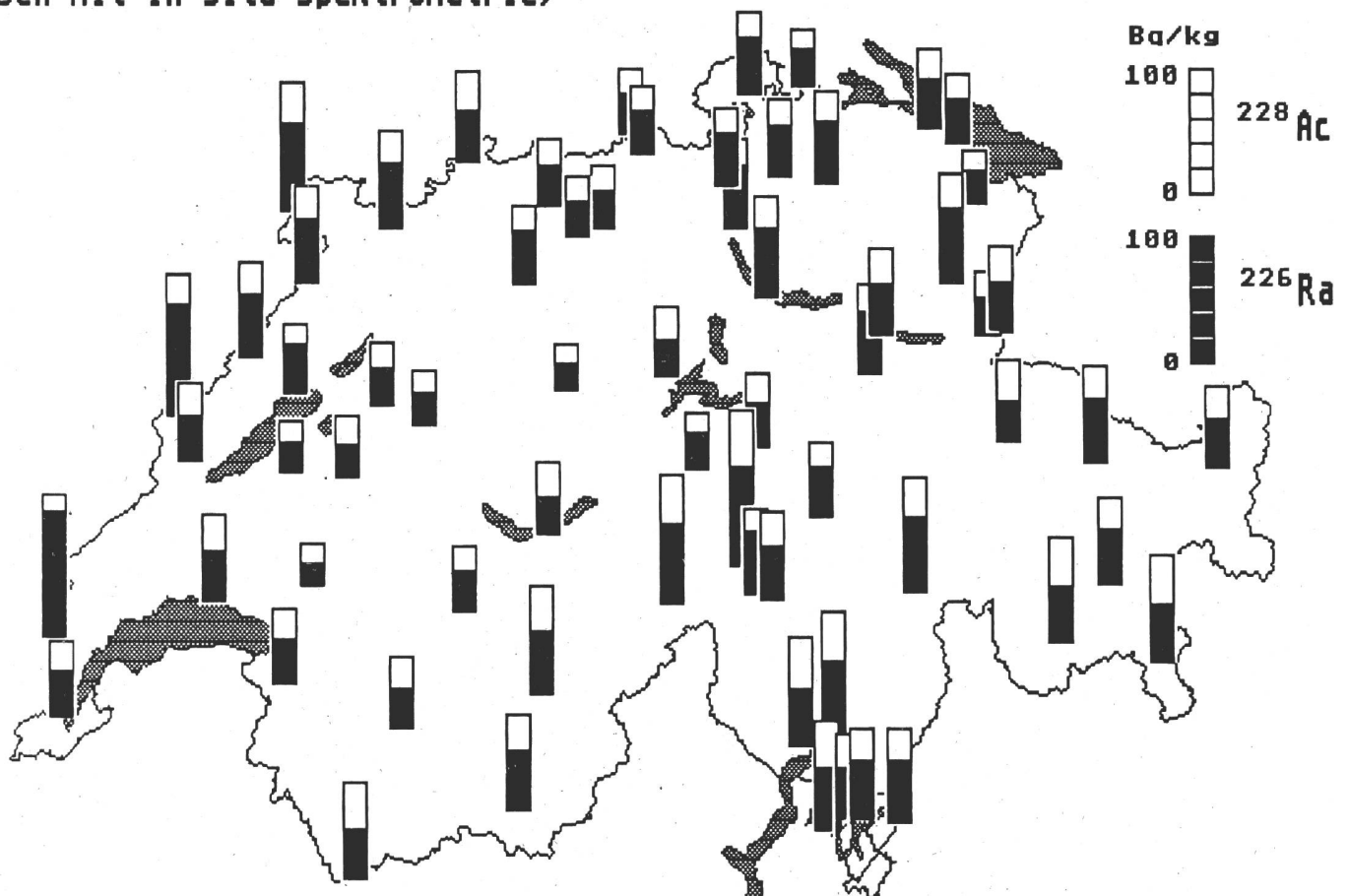


Fig.3.17.e: Verhältnis der Messwerte:  
NADAM / Ionisationskammer (1986-1988)

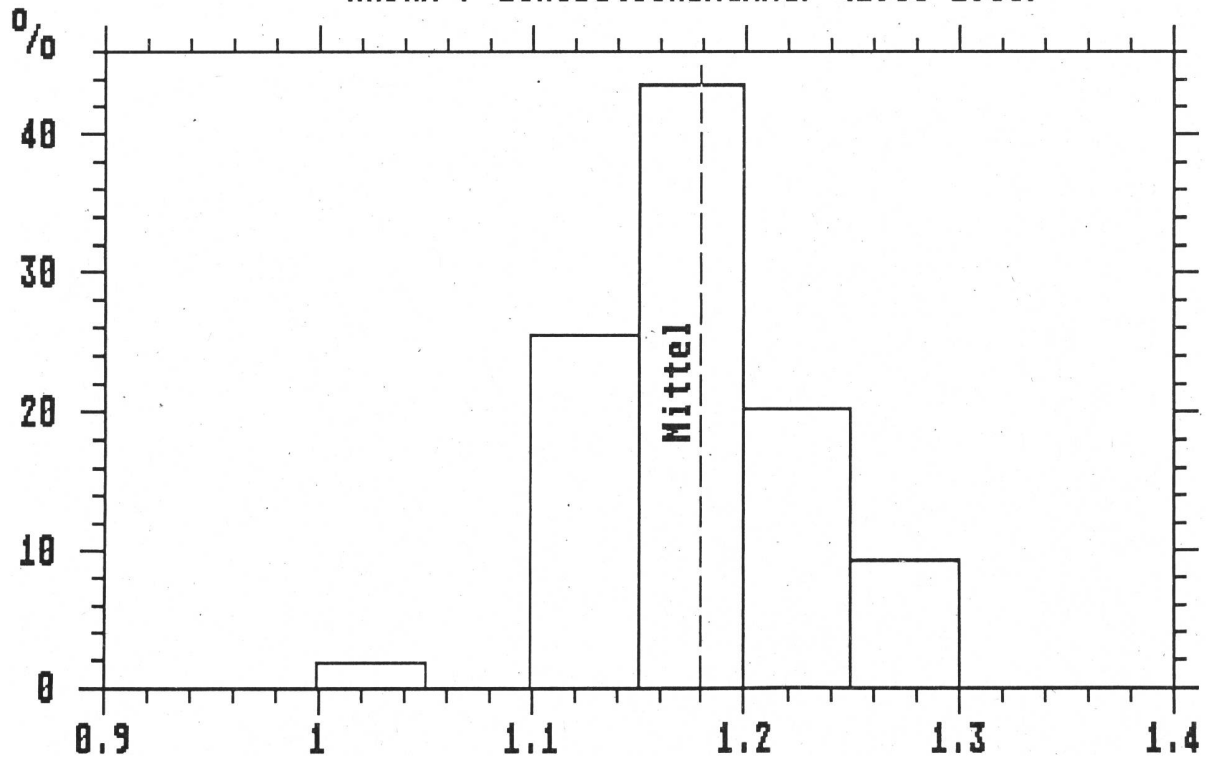


Fig. 3.17.f: Caesium in Genestrerio/TI (1986-88)

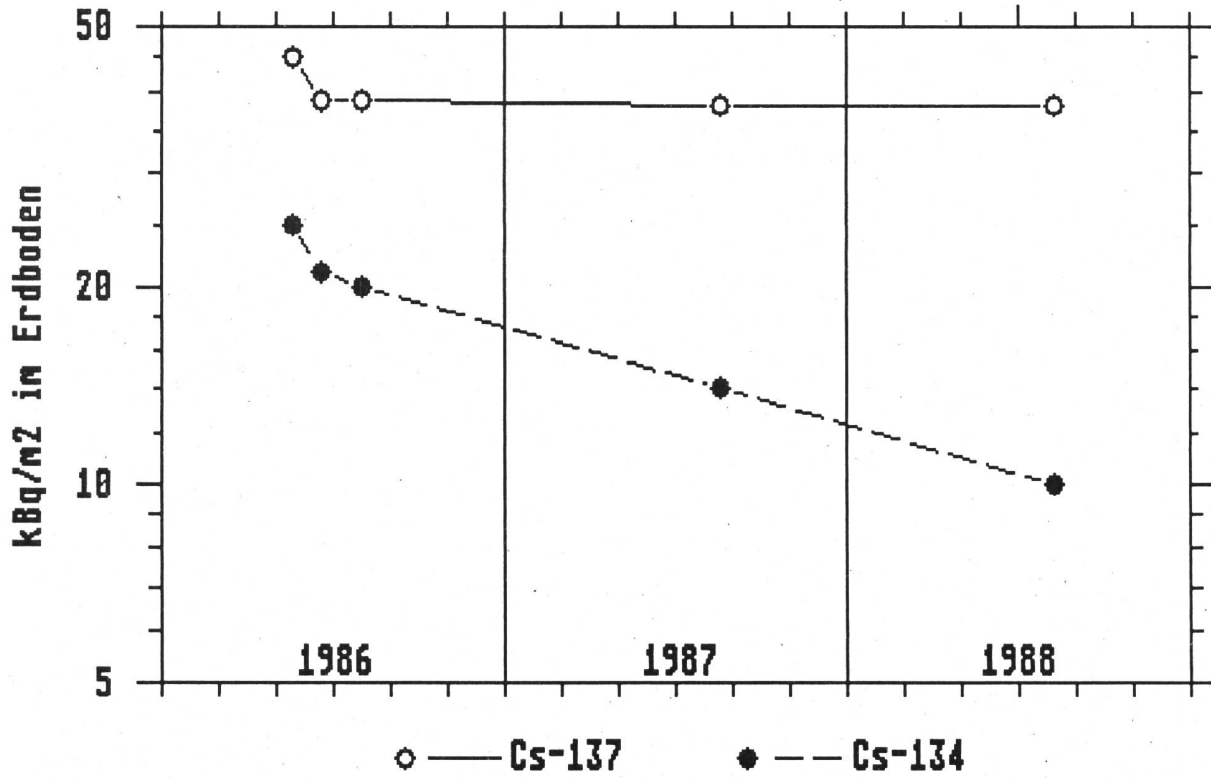


Fig 3.17.g: Caesium in Genestrerio/TI (1986-88)

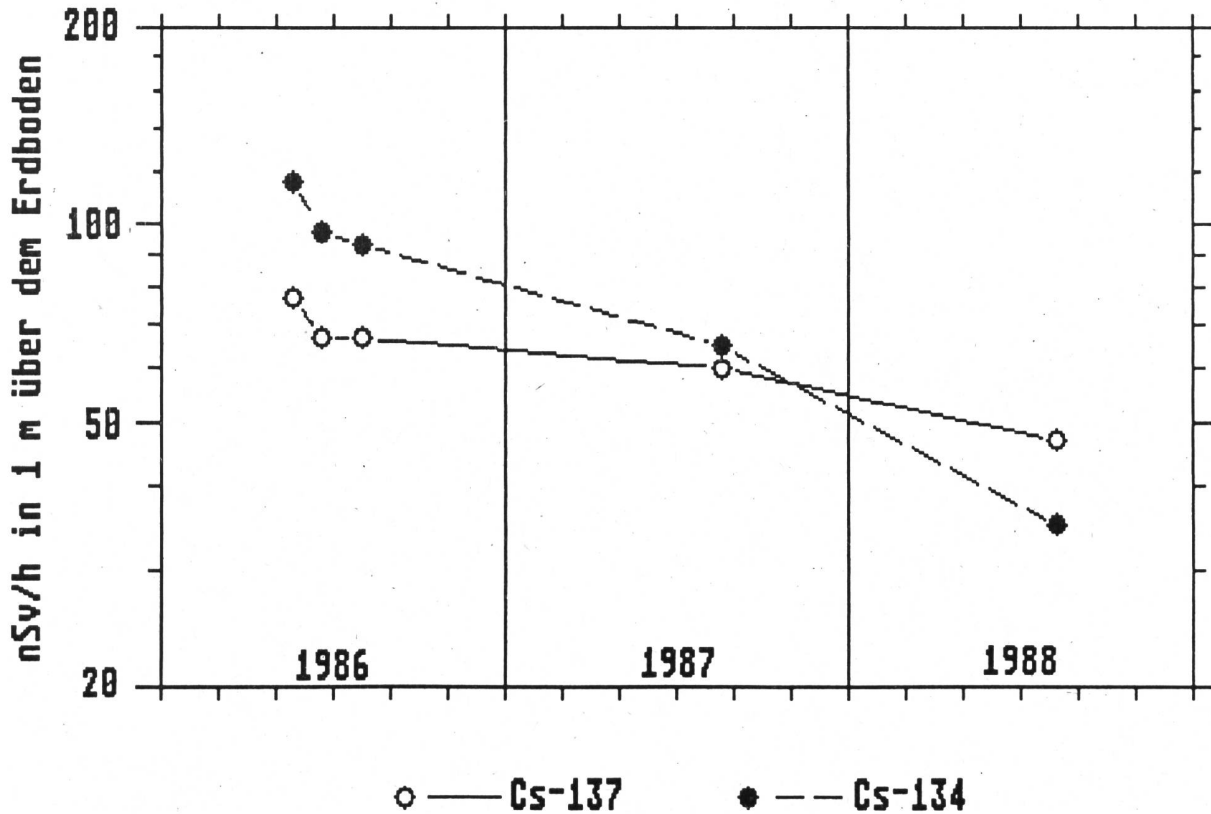


Fig.3.18.a: K-40 in Erde 87 und 88

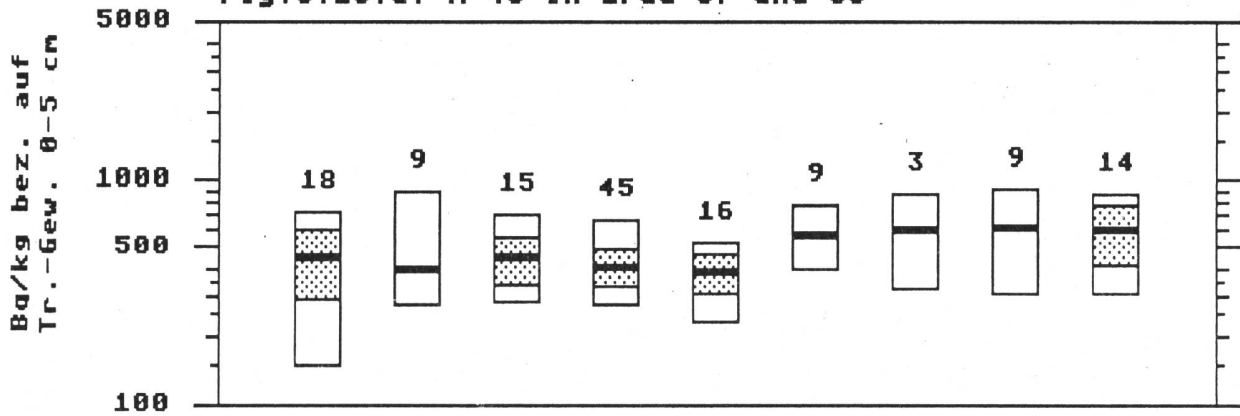


Fig.3.18.b: Cs-137 in Erde 87 und 88 : Tschernobyl-Anteil

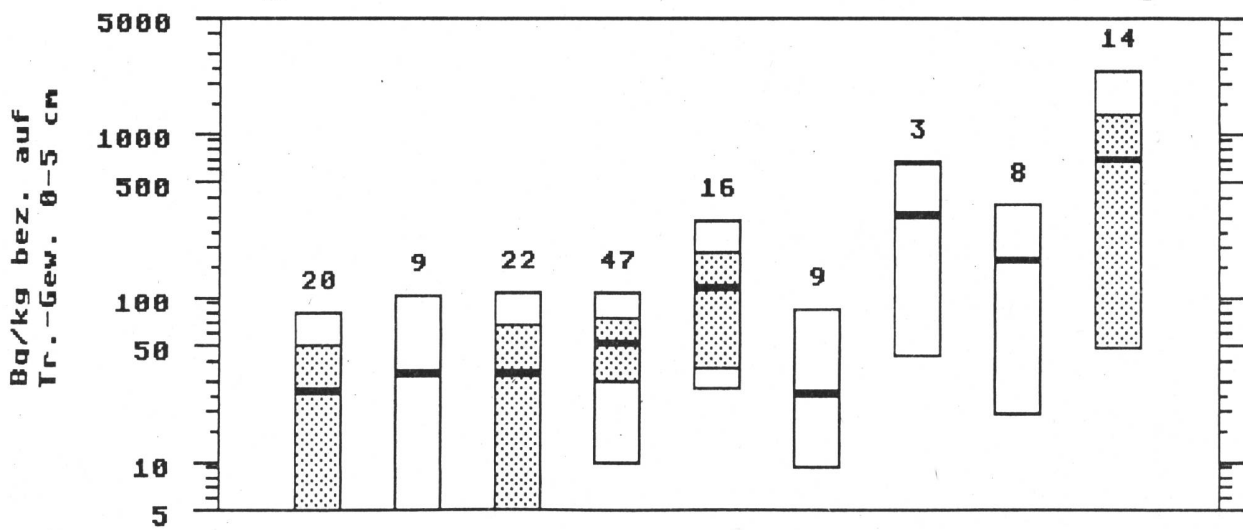
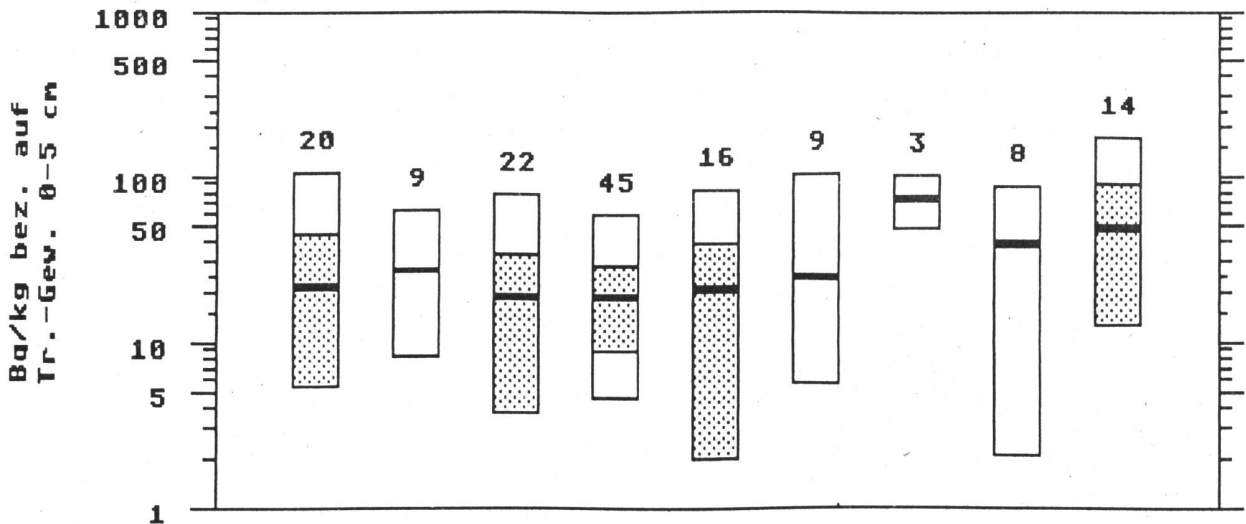


Fig.3.18.c: Cs-137 in Erde 87 und 88 : Bomben Fallout



West-Schweiz  
 Zentral-Schweiz  
 BE/JU/BS/BL  
 AG/SO  
 Ost-Schweiz ohne GR  
 GR : Nord  
 GR : Süd  
 TI : Nord  
 TI : Süd

Fig.3.19.a: Cs-137 in Gras frisch

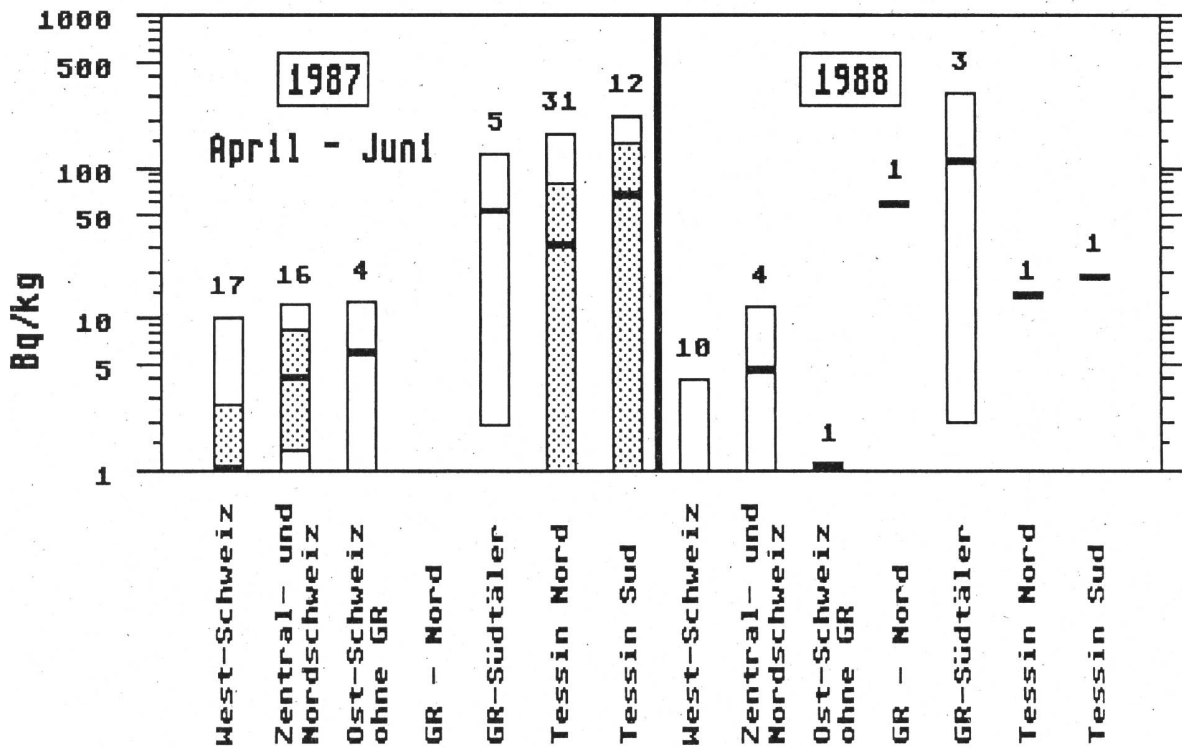


Fig.3.19.b: Cs-137 in Gras (auf trocken umgerechnet) & Heu

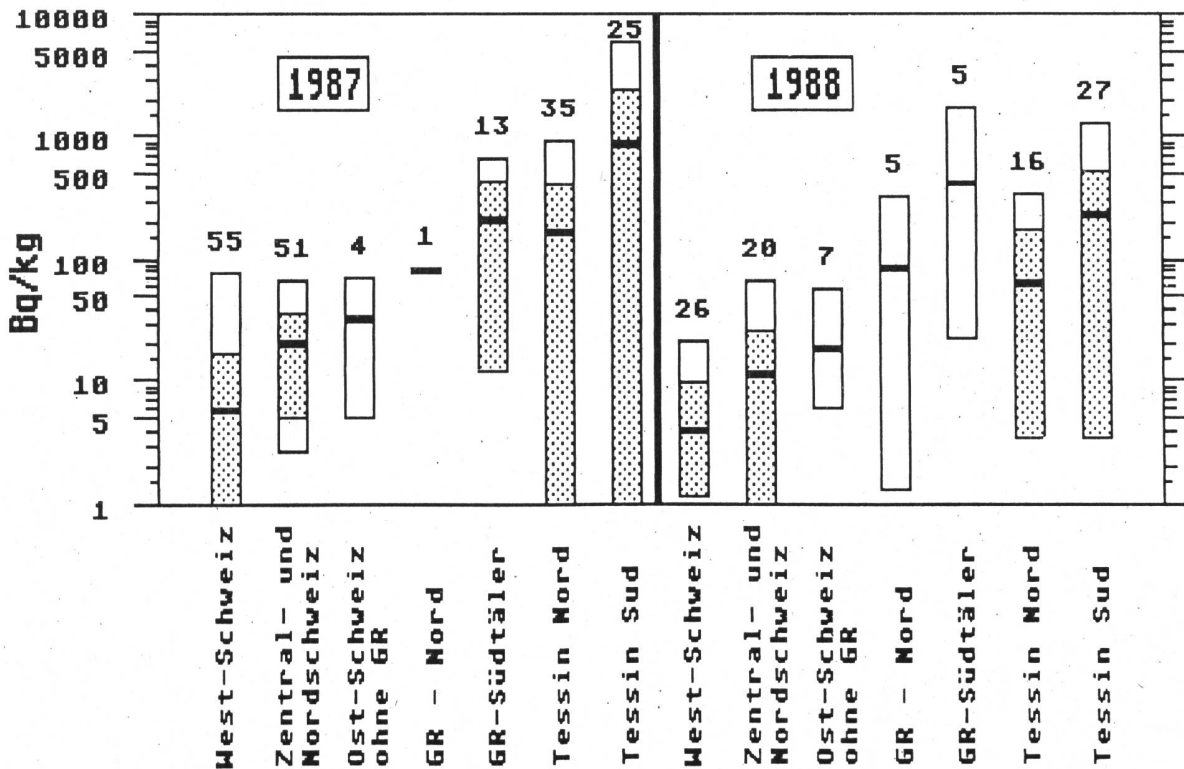


Fig.3.19.c: Cs-137 in Gras (frisch) Spiez, Faulensee und Alp Ober-Suldtal/BE 1987

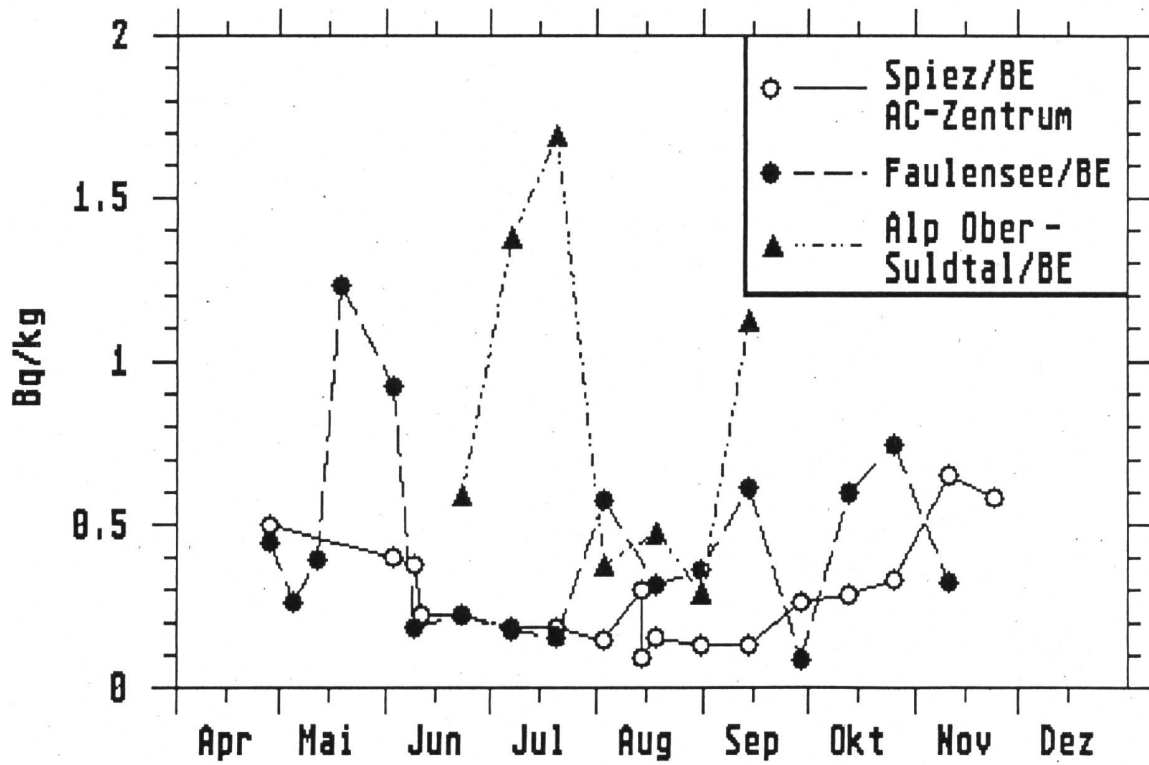


Fig. 3.19.d: Cs-137 in Silofutter (87) (=Ernte 86)

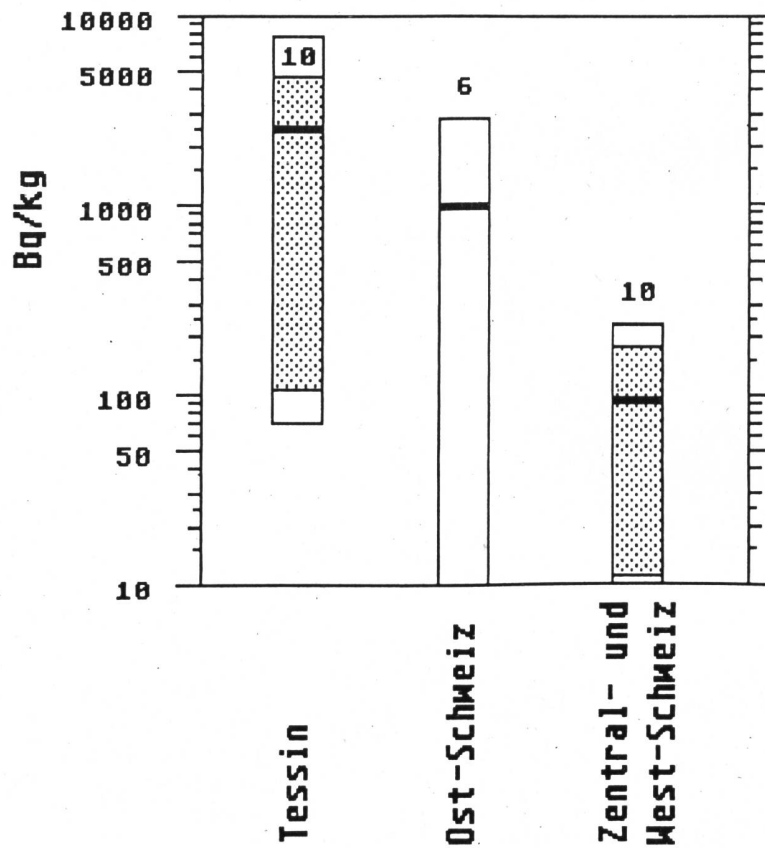


Fig. 3.19.e: Korrelation Erde (0-5cm) - Gras (1987)

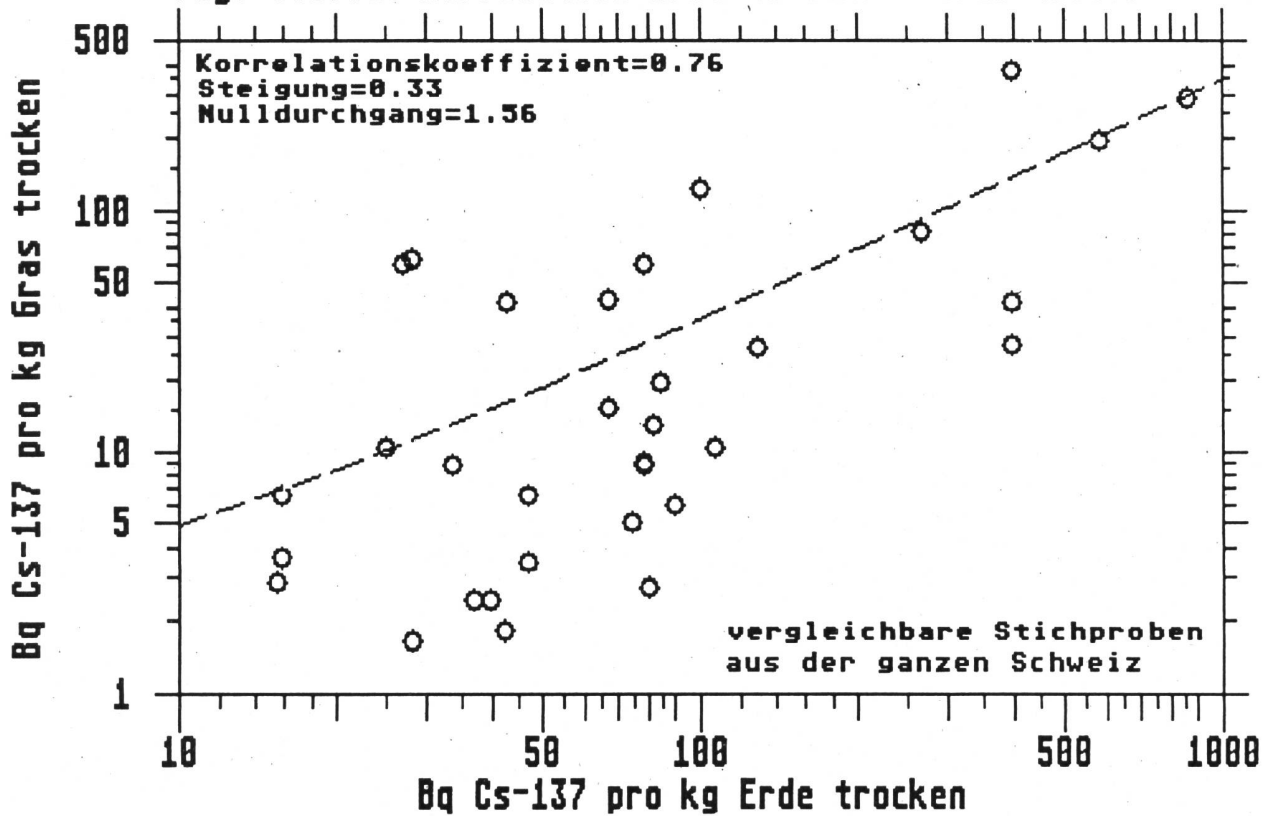


Fig.3.19.f: Korrelation Erde (0-5cm) - Gras (1988)

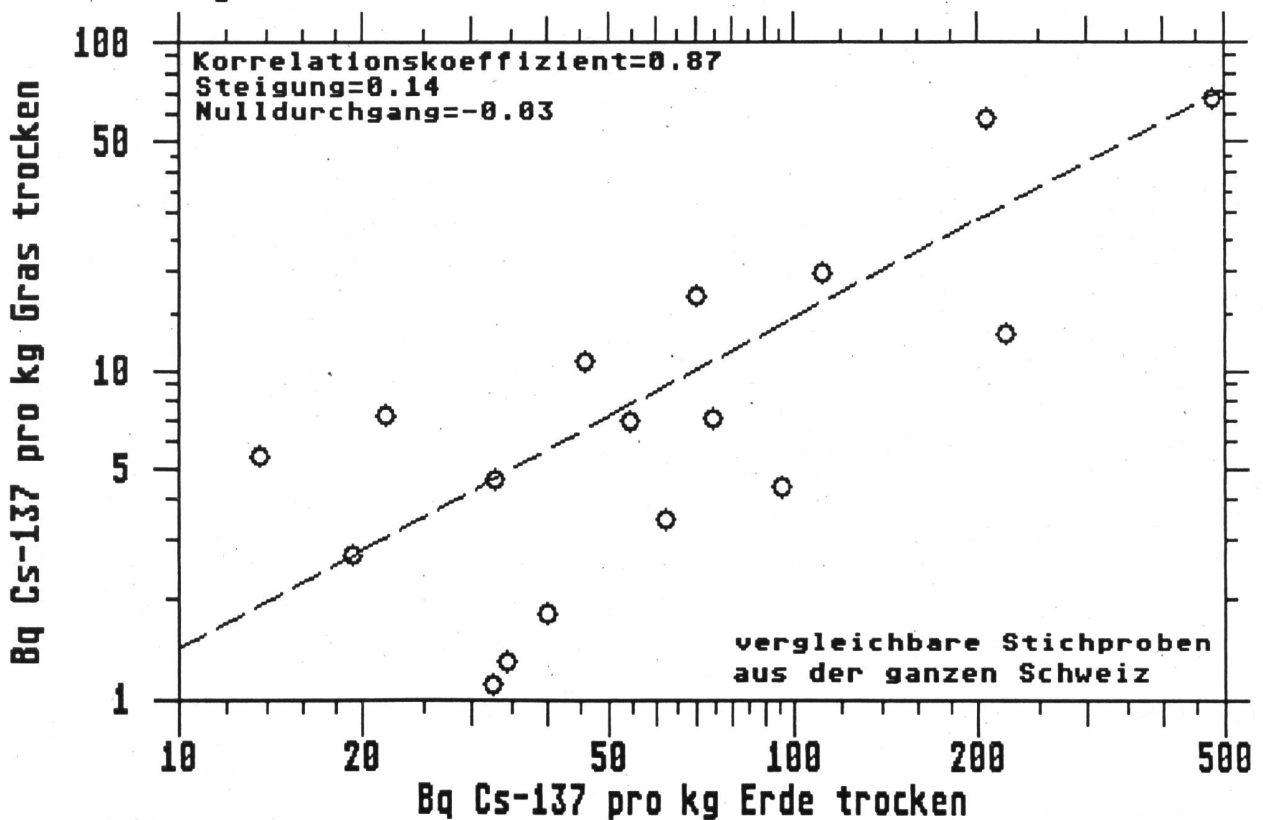


Fig.3.20.a: Cs-137 in der Milch aus dem Blenio-Tal/TI 1987

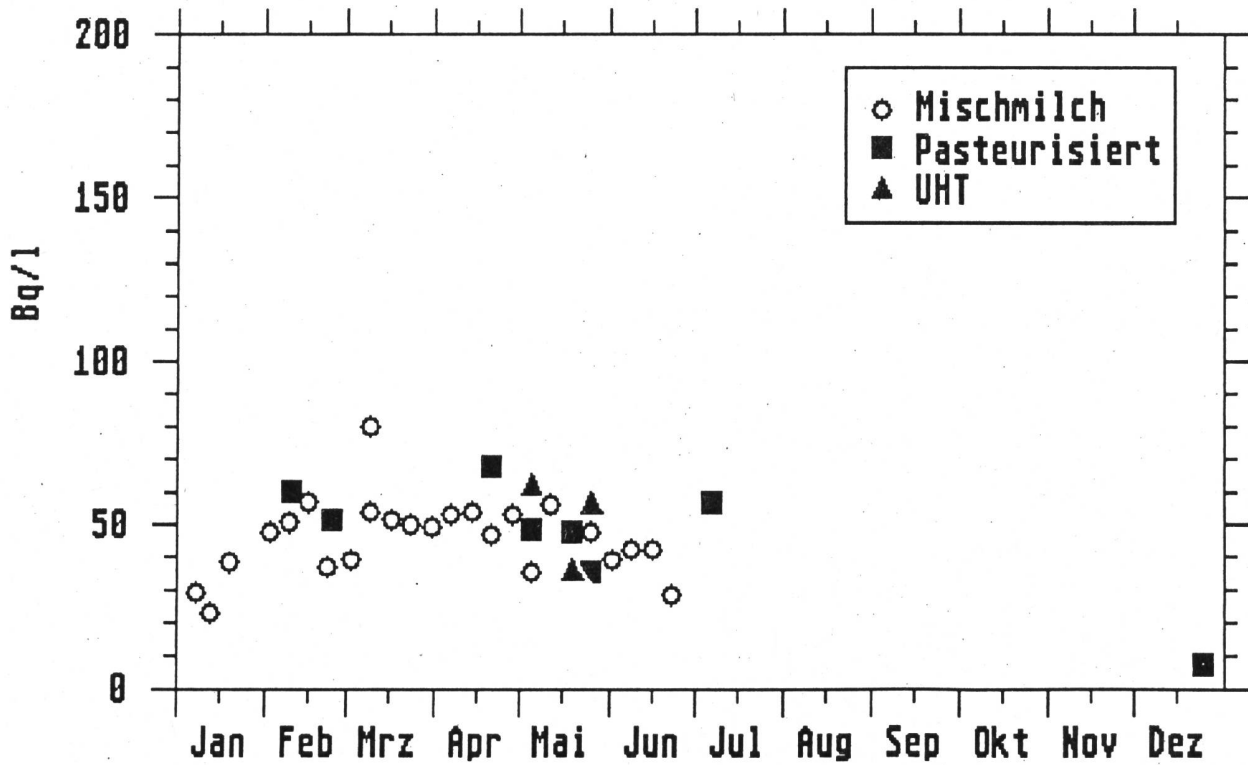


Fig.3.20.b: Cs-137 in der Milch von Piano Magadino/TI 1987

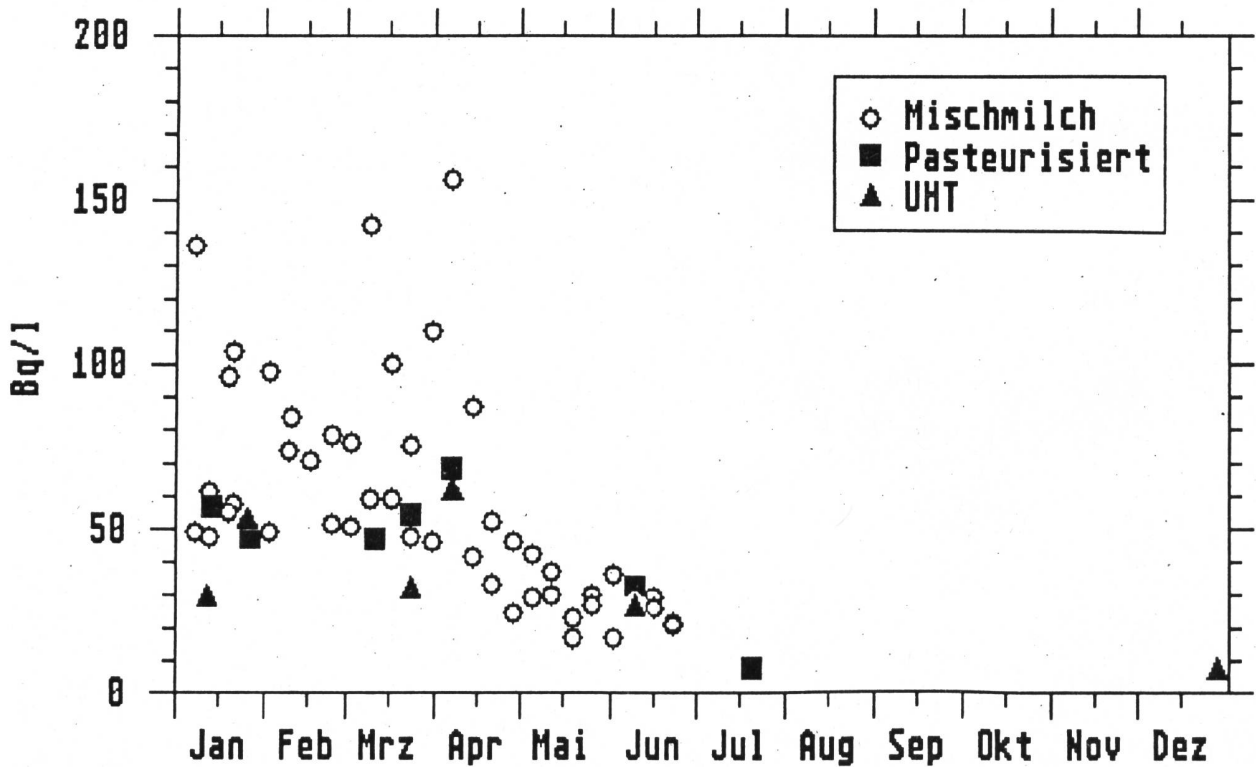


Fig.3.20.c: Cs-137 in der Milch aus dem Luganese/TI 1987

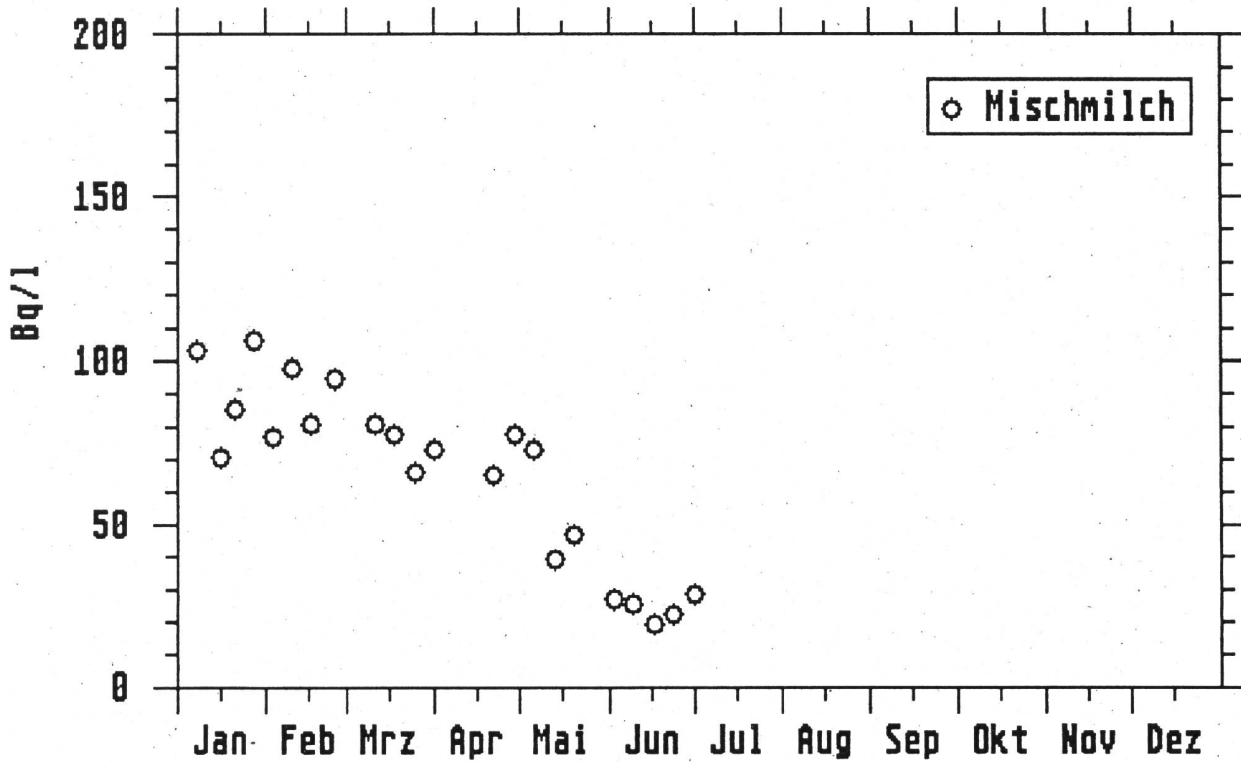


Fig.3.20.d: Cs-137 in der Milch aus dem Mendrisiotto/TI 1987

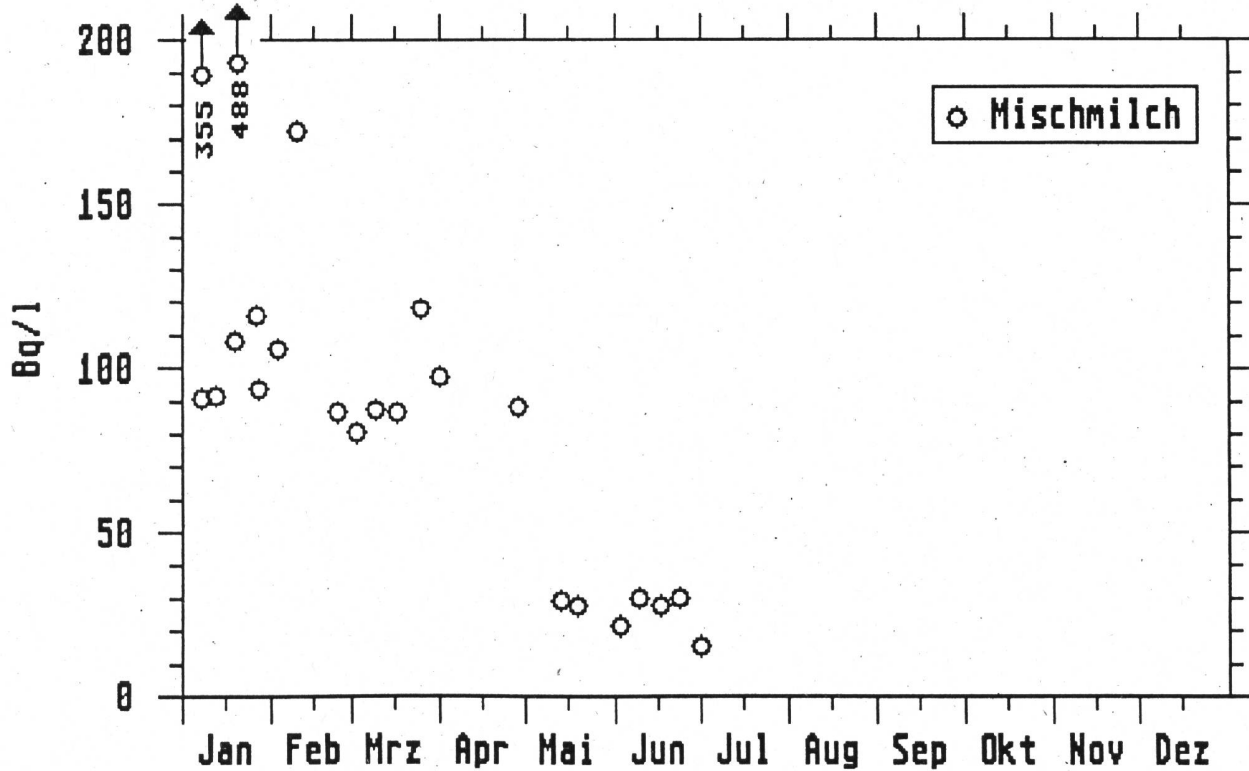


Fig.3.20.e: Cs-137 in Einzelmilchproben aus dem Tessin 87

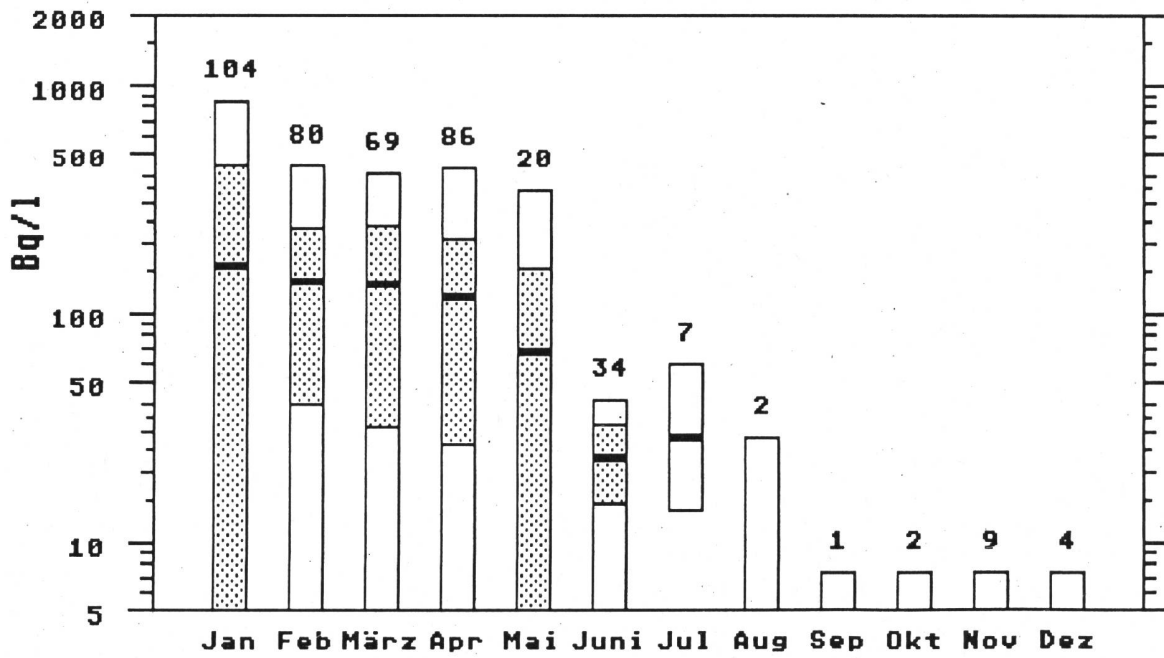


Fig.3.20.f: Cs-137 in Einzelmilchproben aus dem Tessin 88

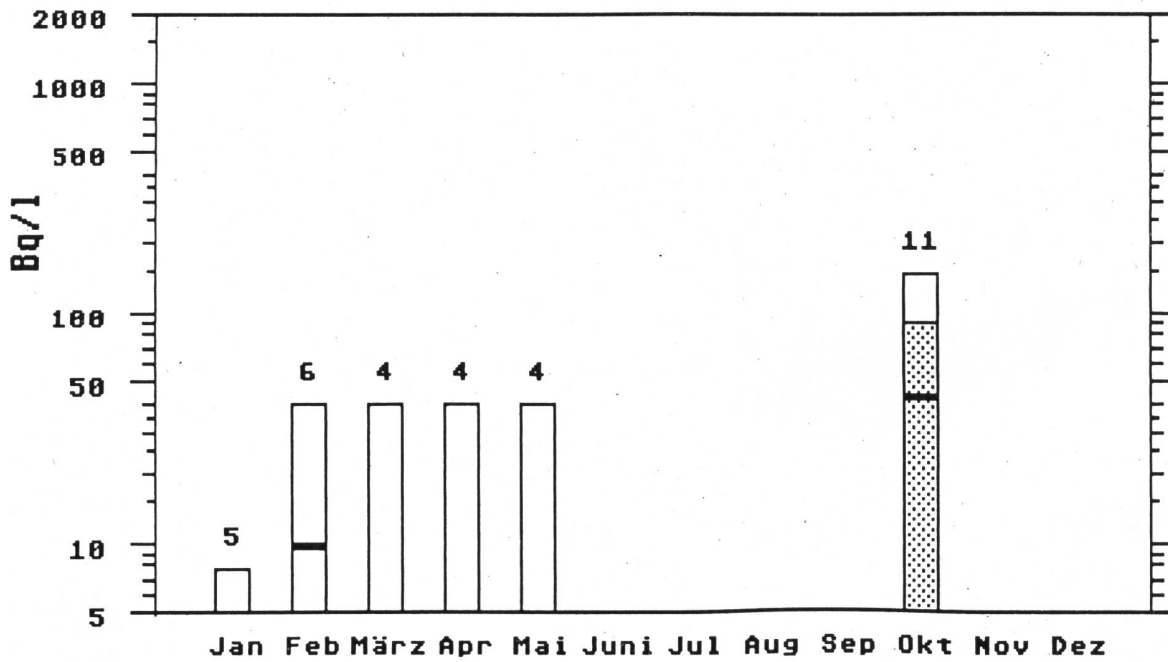


Fig.3.21.a: Cs-137 in Kuhmilch Graubünden 1987/1988

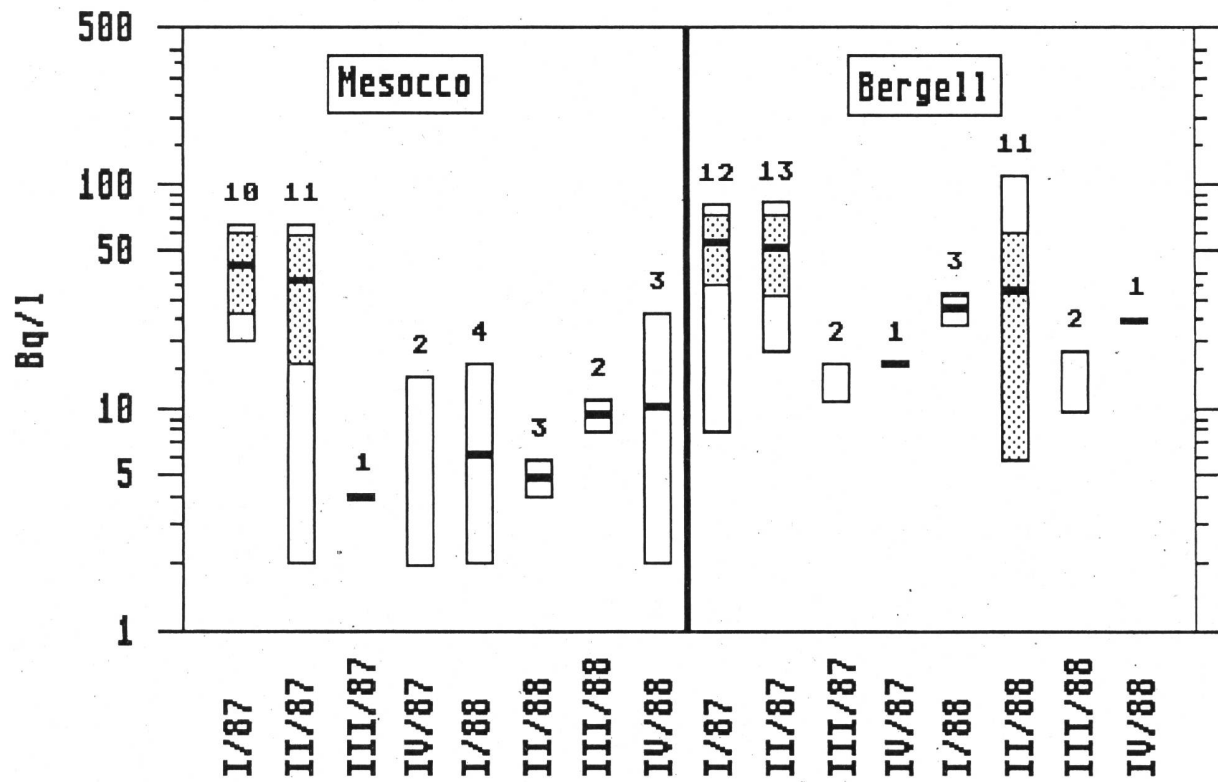


Fig.3.21.b: Cs-137 in Kuhmilch Graubünden 1987/1988

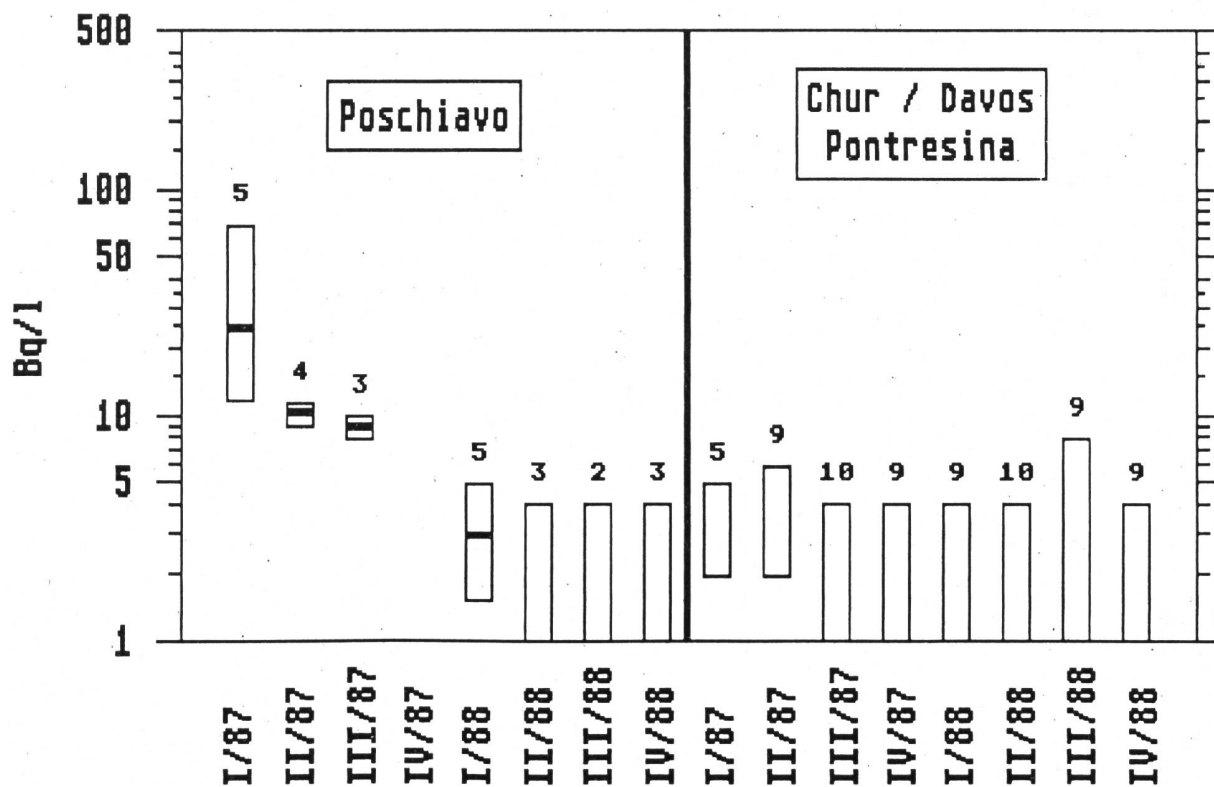


Fig.3.21.c: Cs-137 in Kuhmilch St.Gallen 1987/1988

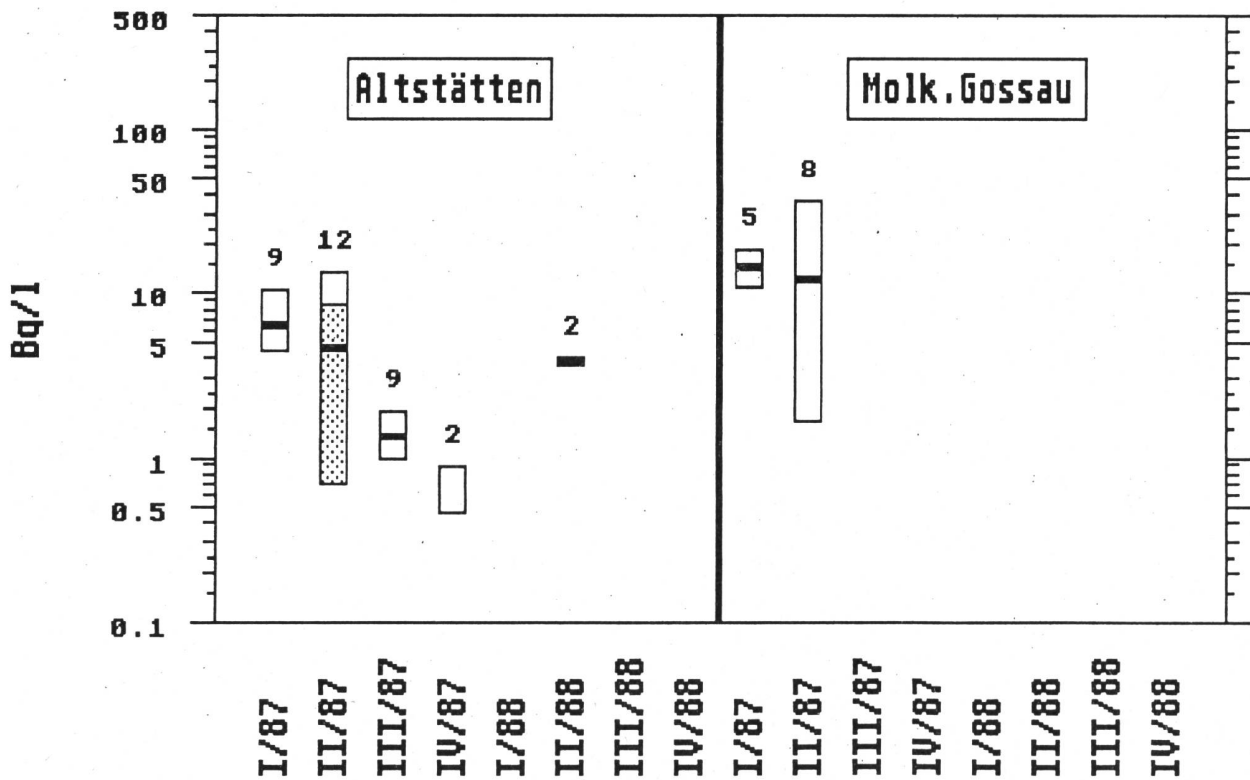


Fig.3.21.d:  
Cs-137 in Kuhmilch  
Thurgau 1987/1988

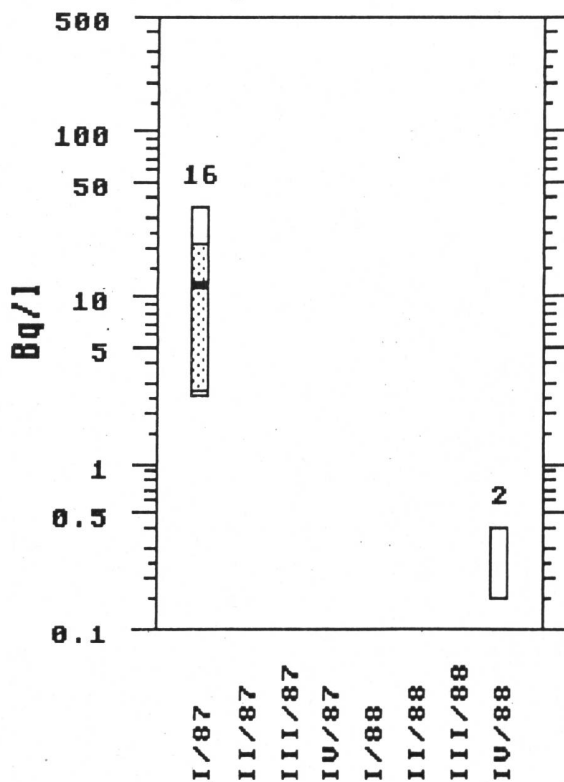


Fig.3.21.e:  
Cs-137 in Kuhmilch  
Schaffhausen 1987/1988

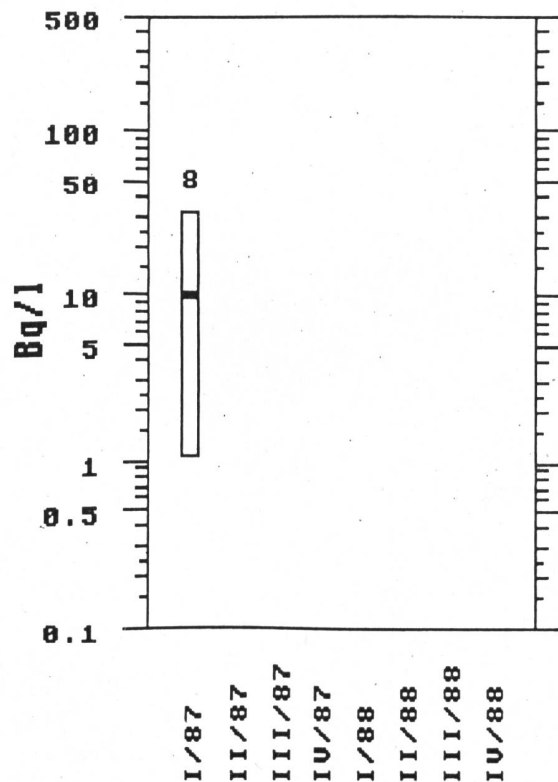


Fig.3.21.f: Cs-137 in Kuhmilch Zürich 1987/1988

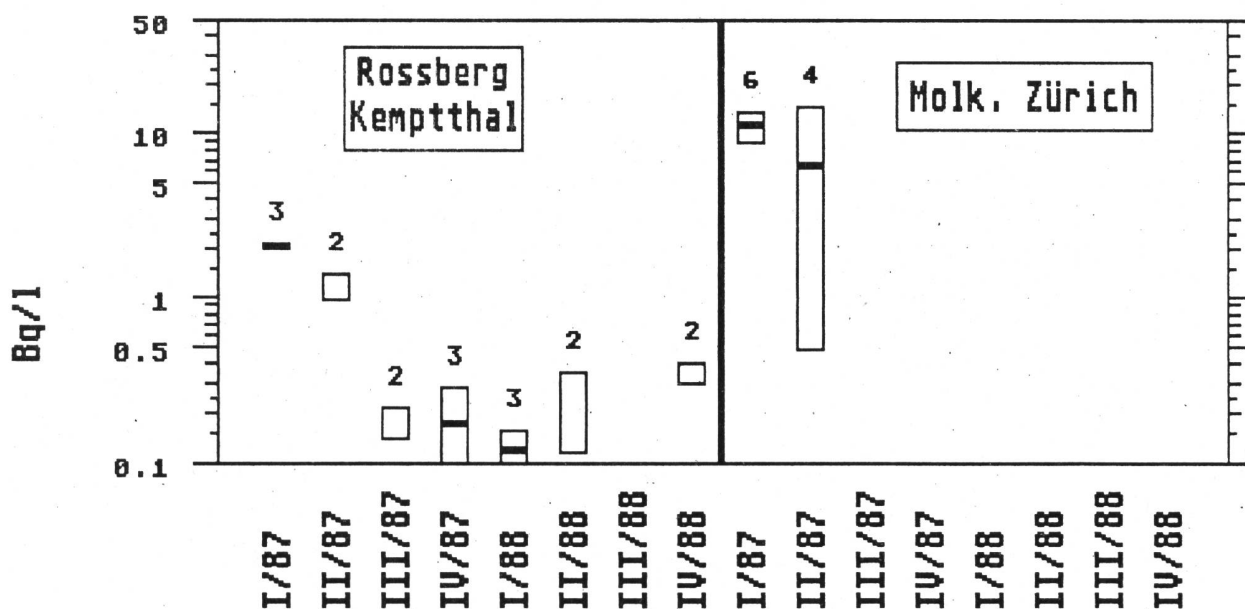


Fig.3.21.g: Cs-137 in Kuhmilch Basel (BS und BL) 1987/88

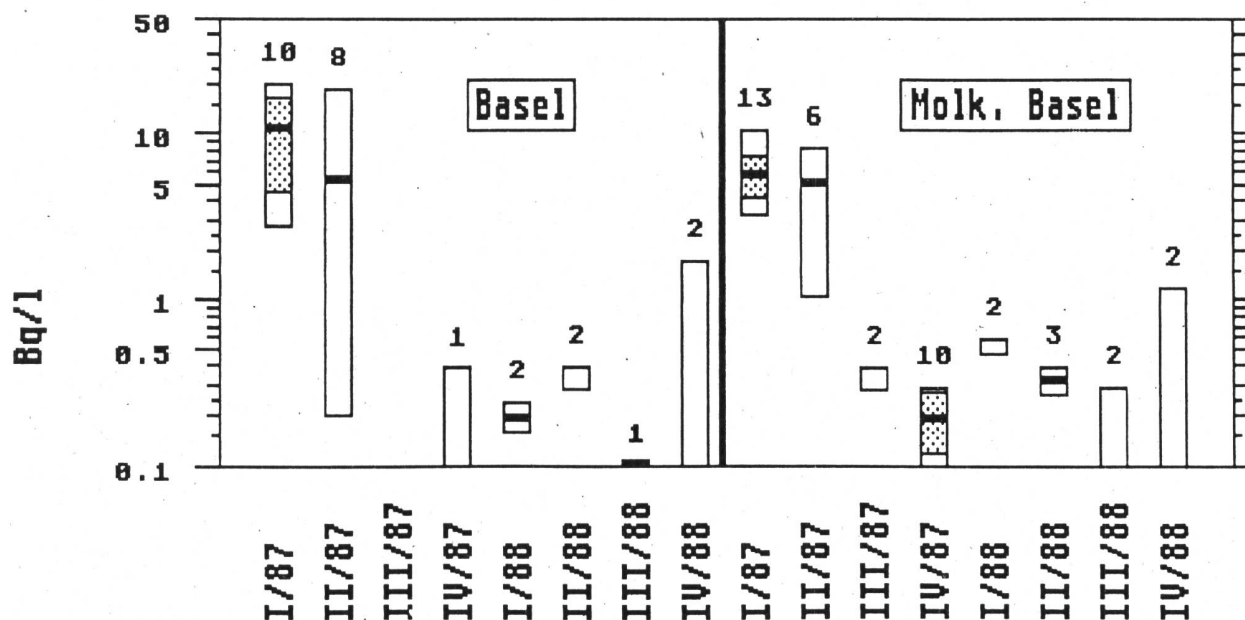


Fig.3.21.h: Cs-137 in Kuhmilch Aargau und Solothurn 87/88

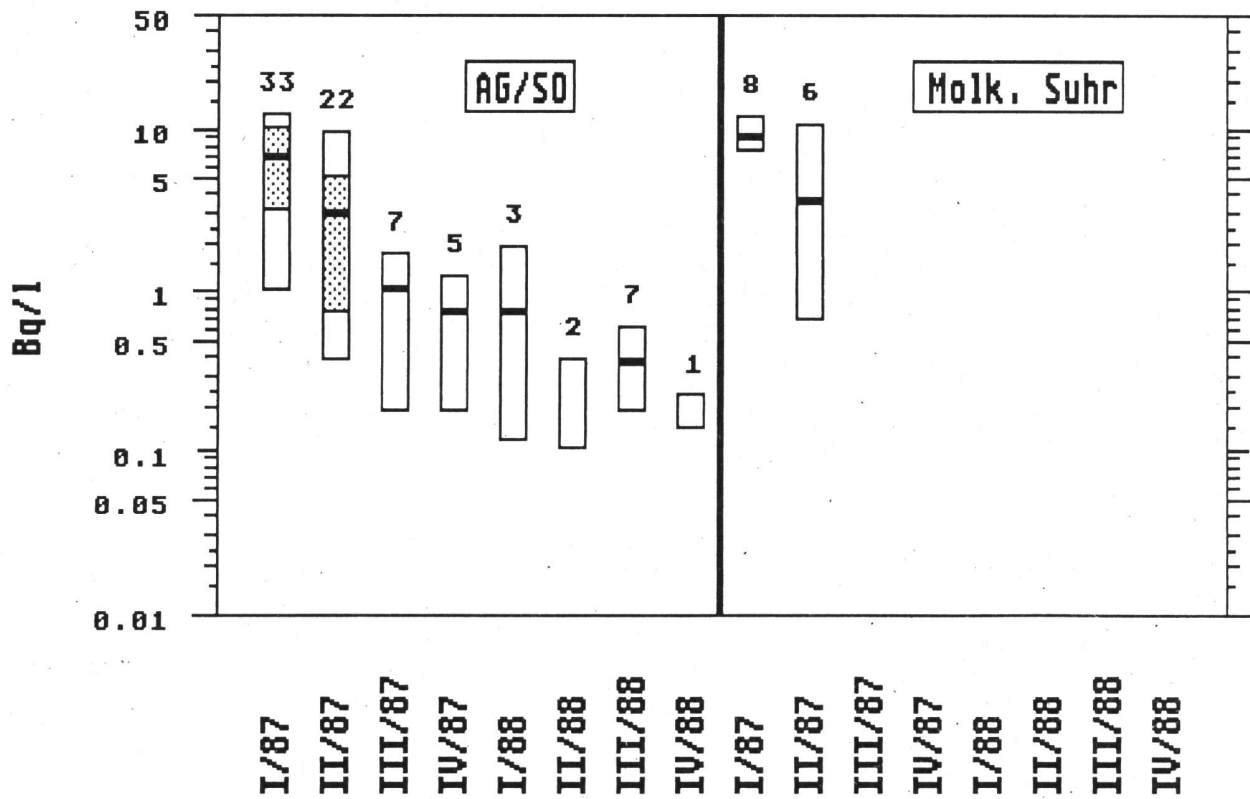


Fig.3.21.i: Cs-137 in Kuhmilch Innerschweiz 1987/1988

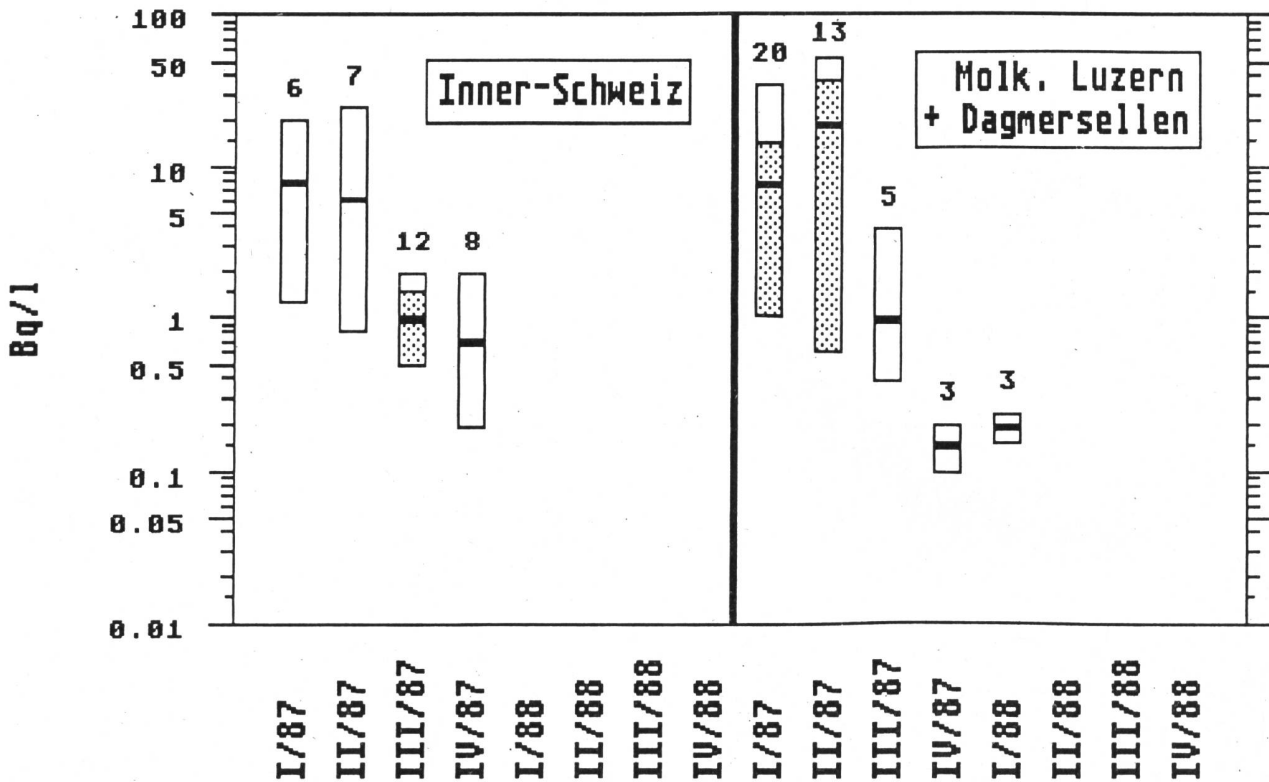


Fig.3.21.j: Cs-137 in Kuhmilch Bern 1987/1988

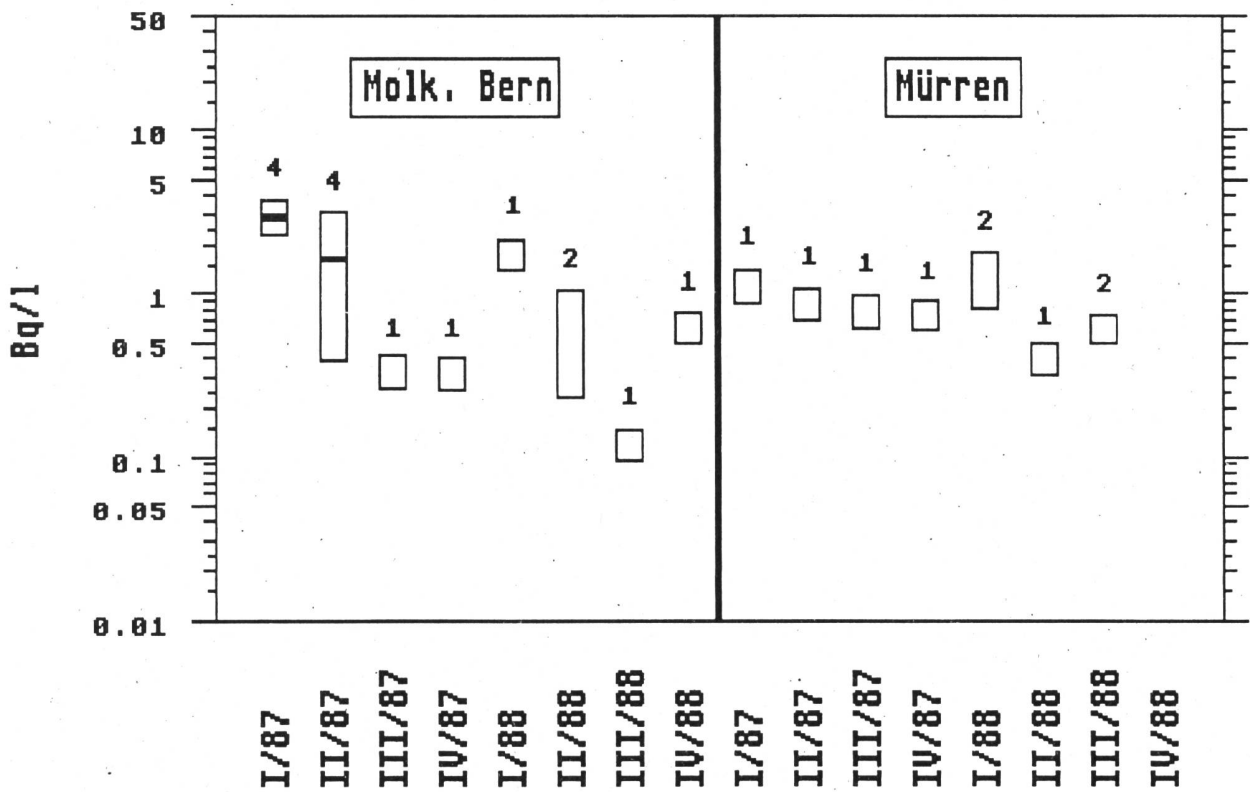


Fig.3.21.k: Cs-137 in Kuhmilch Bern 1987/1988

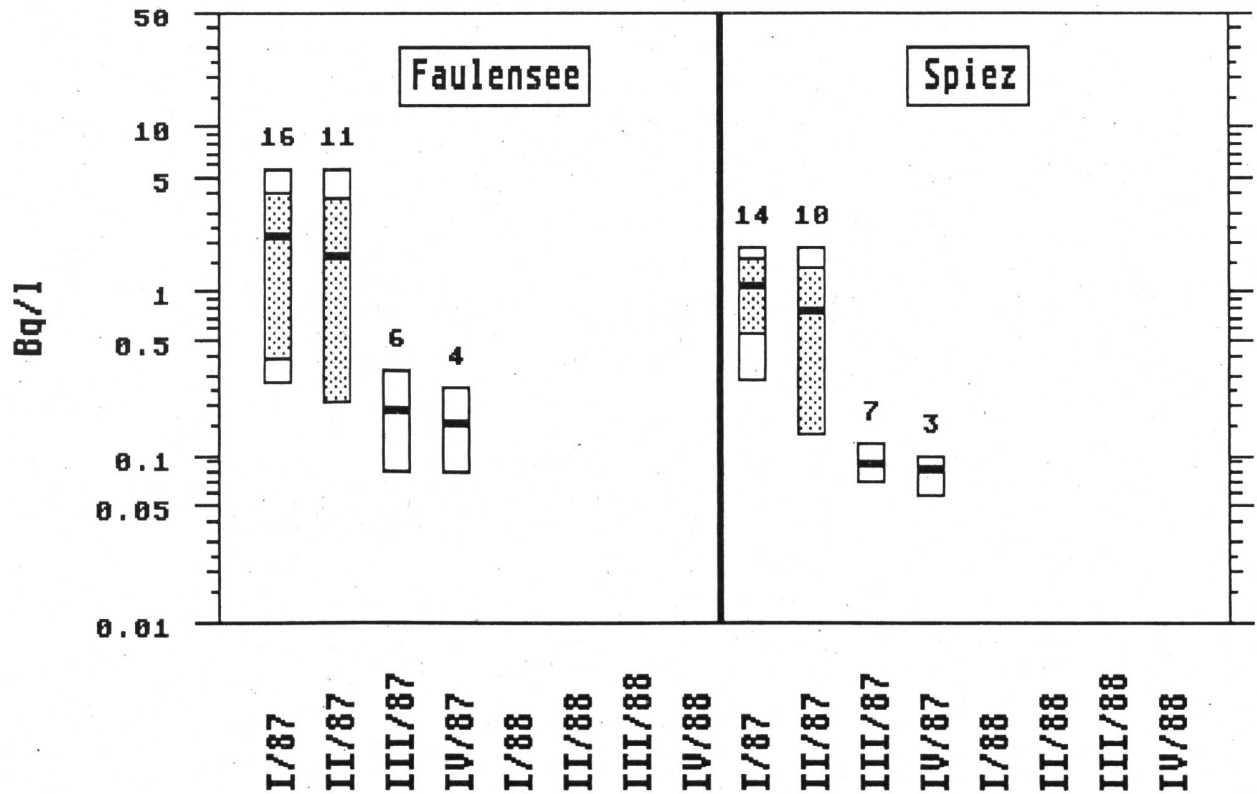


Fig.3.21.l: Cs-137 in Kuhmilch Bern 1987/1988

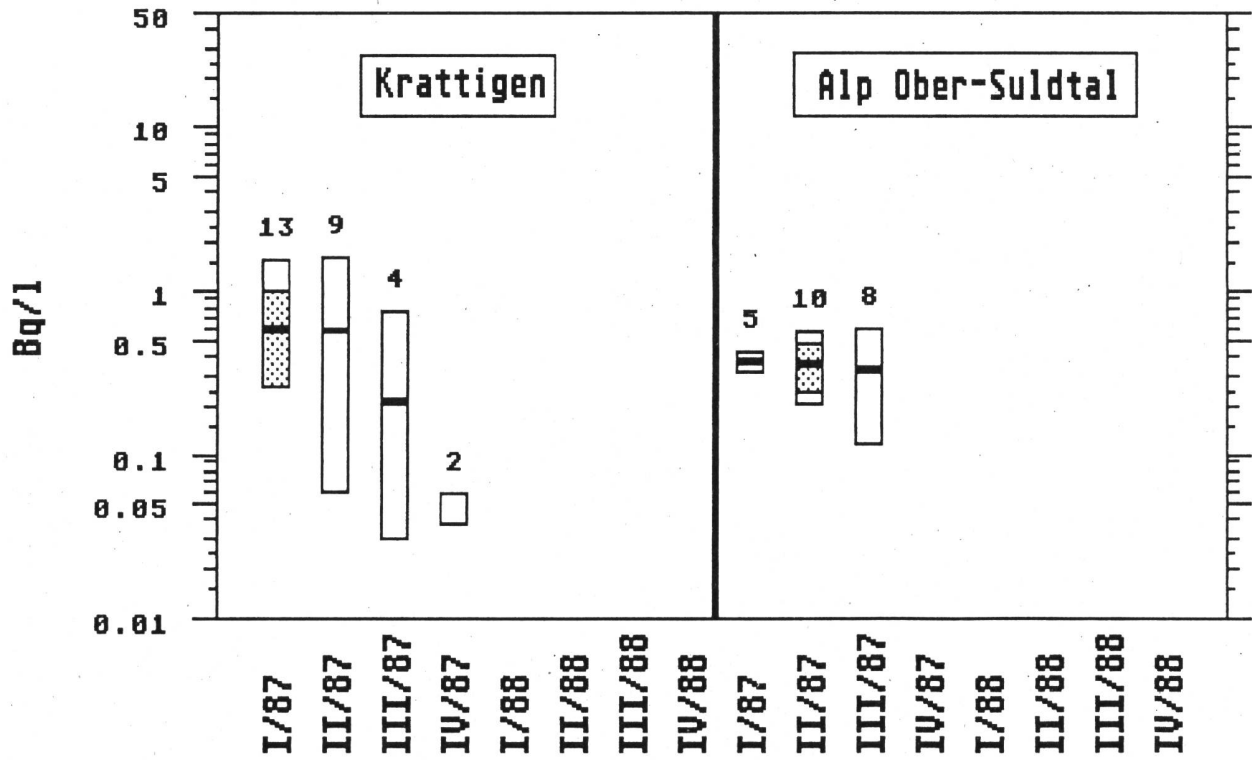


Fig.3.21.m: Cs-137 in Kuhmilch 1987 und 1988

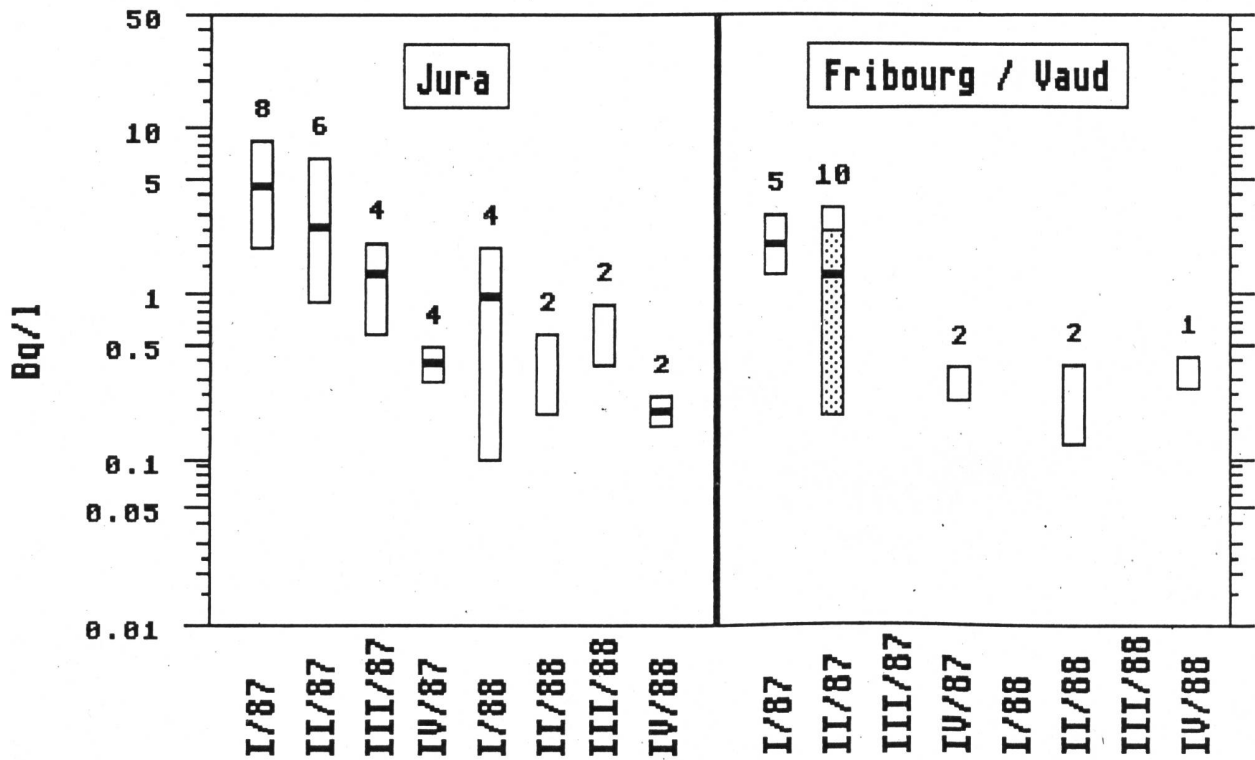


Fig.3.22.a: Milch Misox/GR

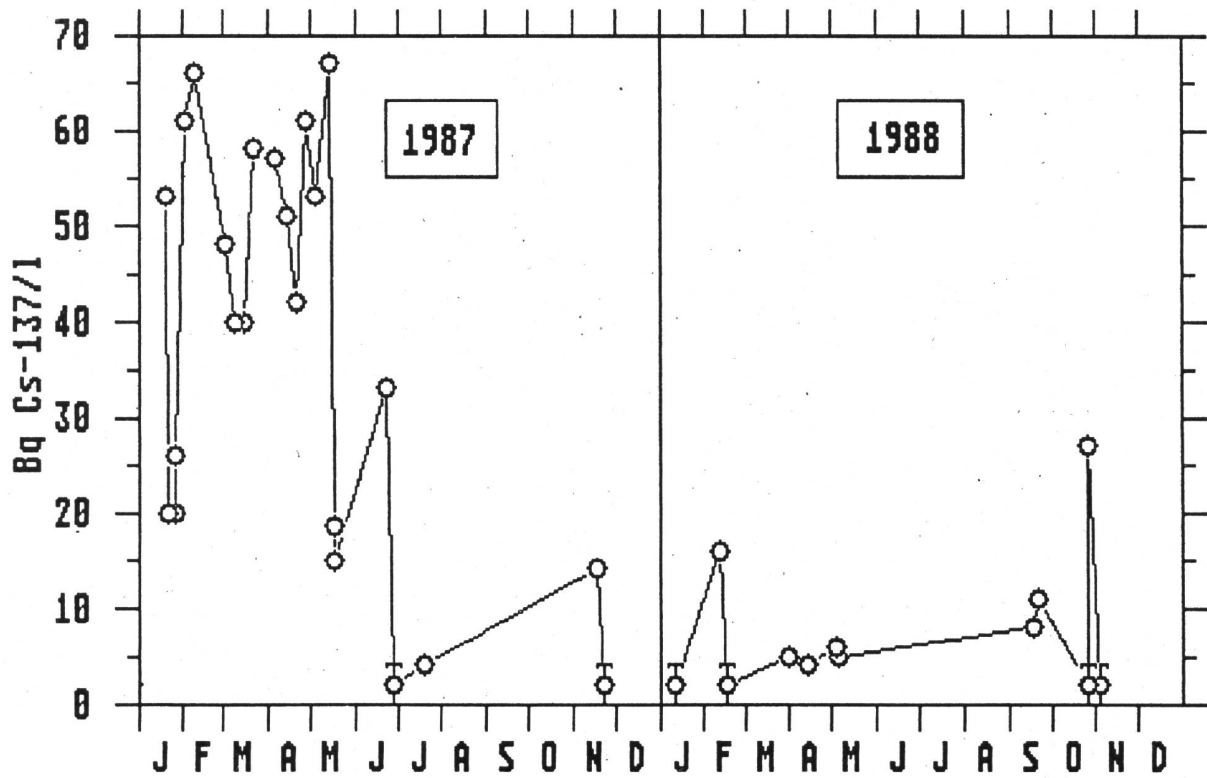


Fig.3.22.b: Milch Basel und Jura

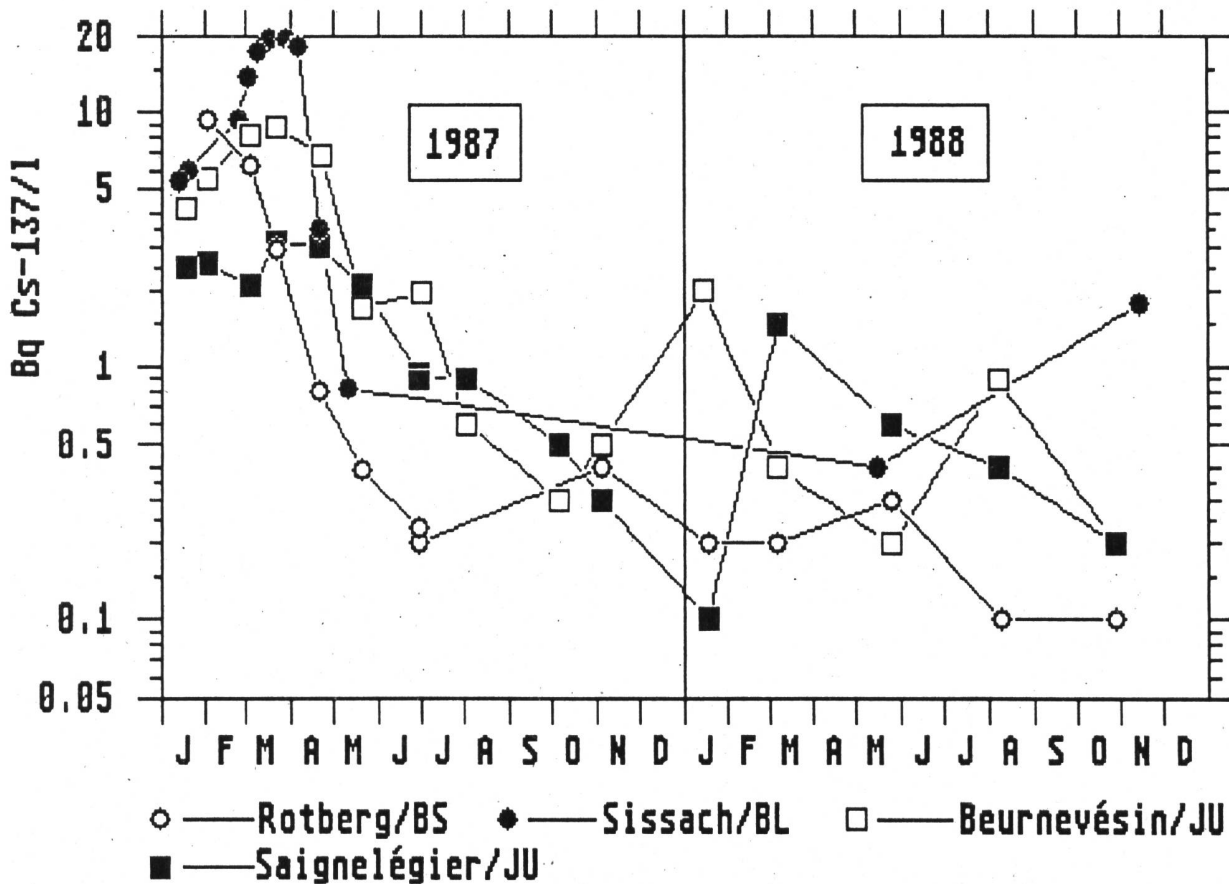


Fig.3.22.c: Milch Berner Oberland

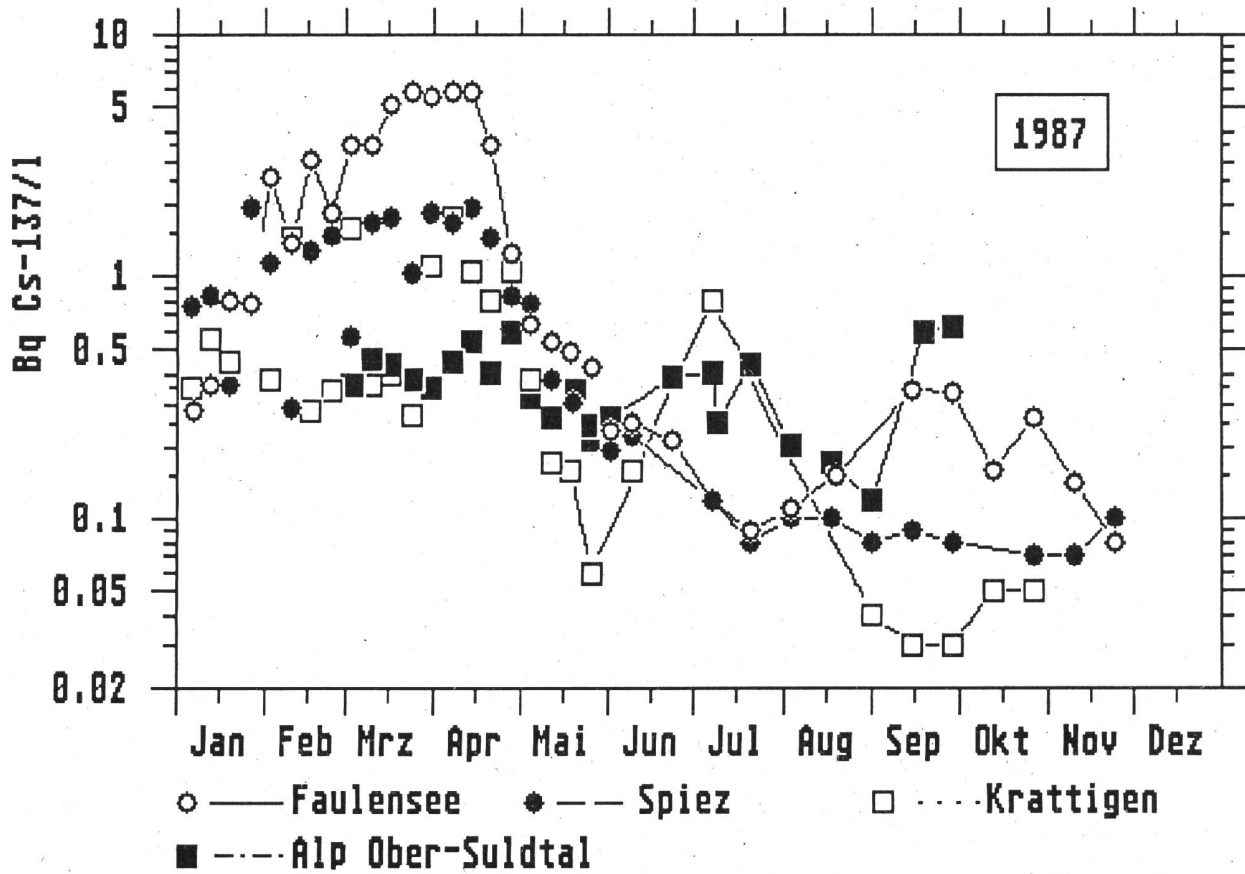


Fig.3.22.d: Beziehung zwischen Milch und Gras: Cs-137-Aktivität im Jahr 1987.

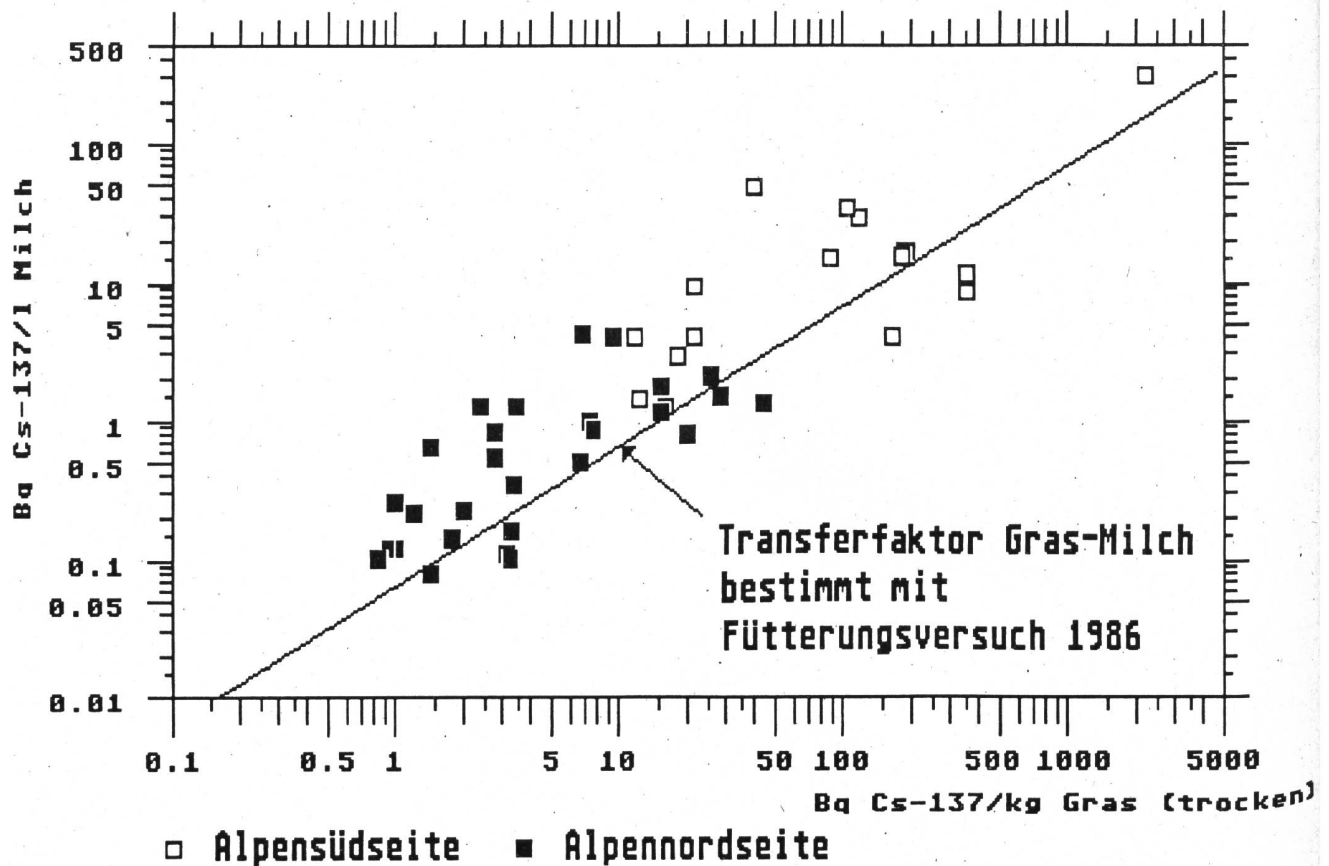


Fig.3.22.e: Sr-90 in Milchproben

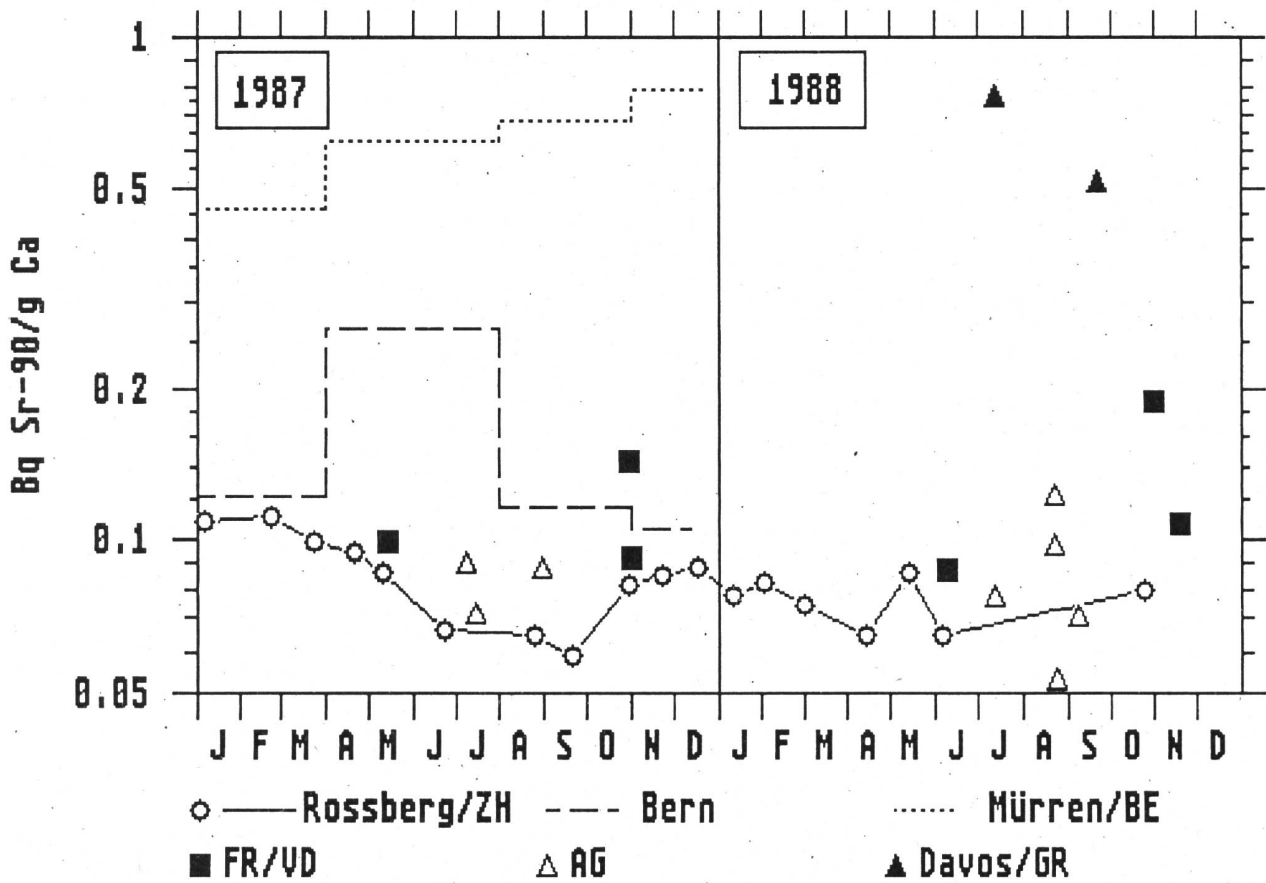


Fig. 3.22.f: Sr-90 in der Milch aus Rossberg/Kemptthal/ZH

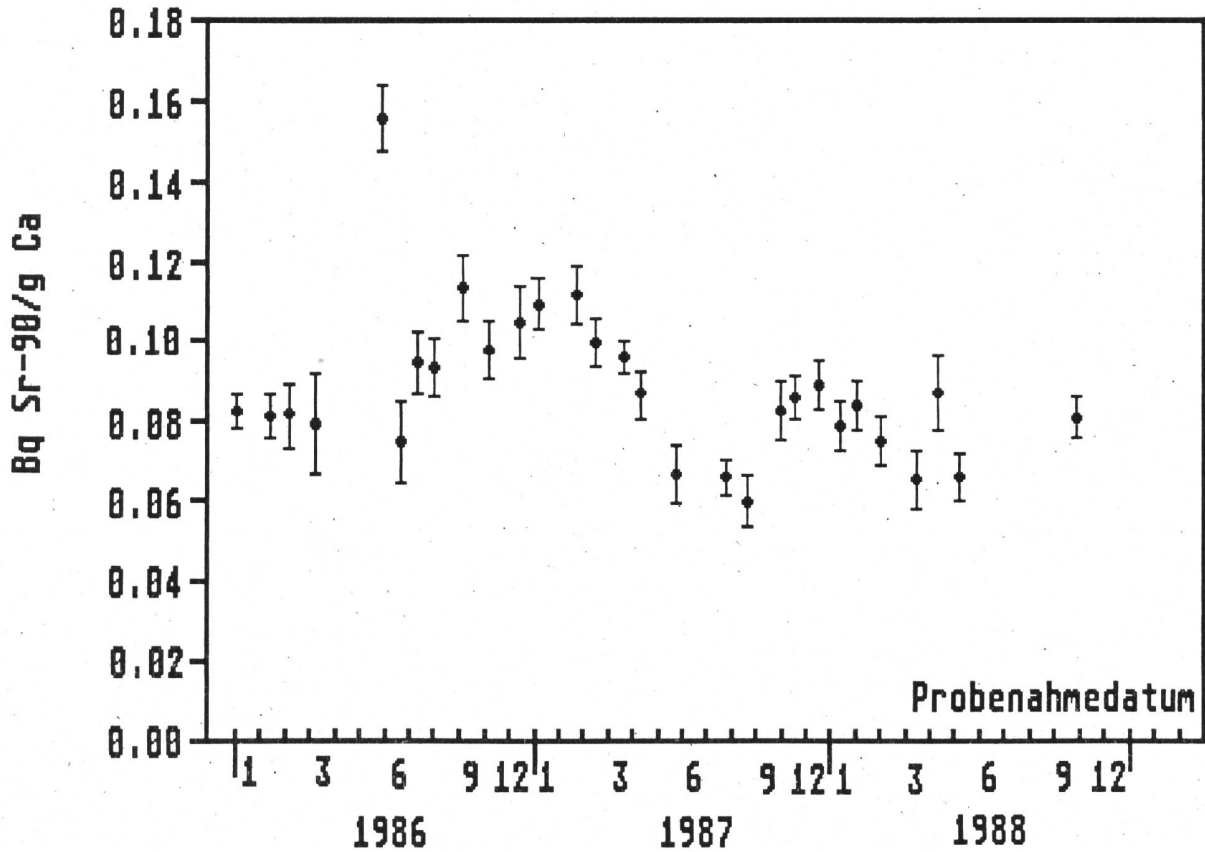


Fig.3.23.a: Cs-137 in Ziegenmilch

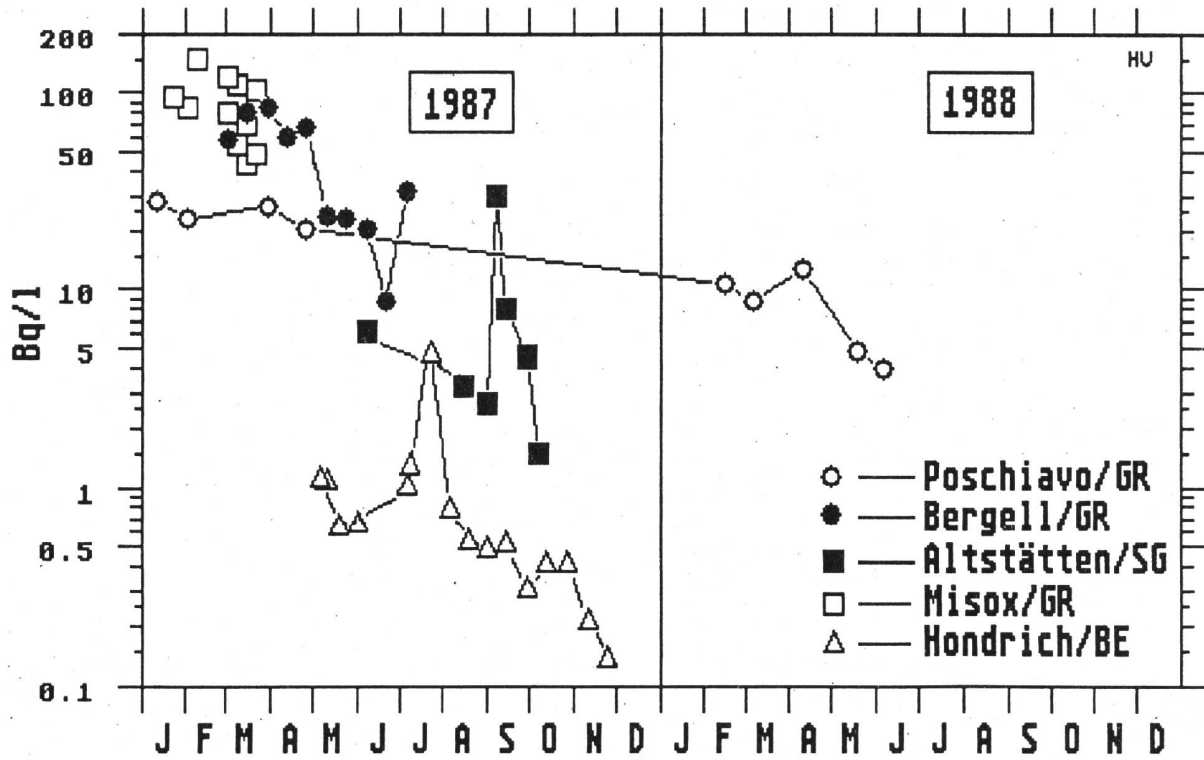


Fig.3.23.b: Cs-137 in Ziegenmilch aus dem Tessin

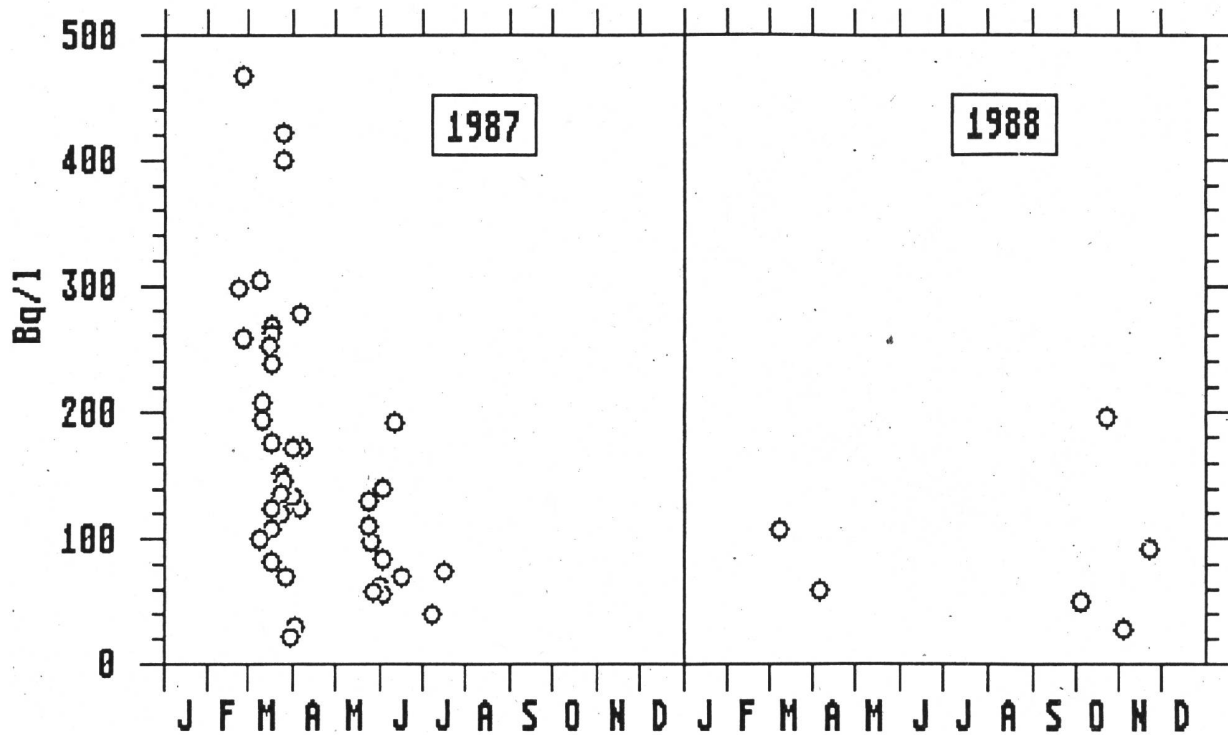


Fig.3.23.c: Cs-137 in Schafmilch

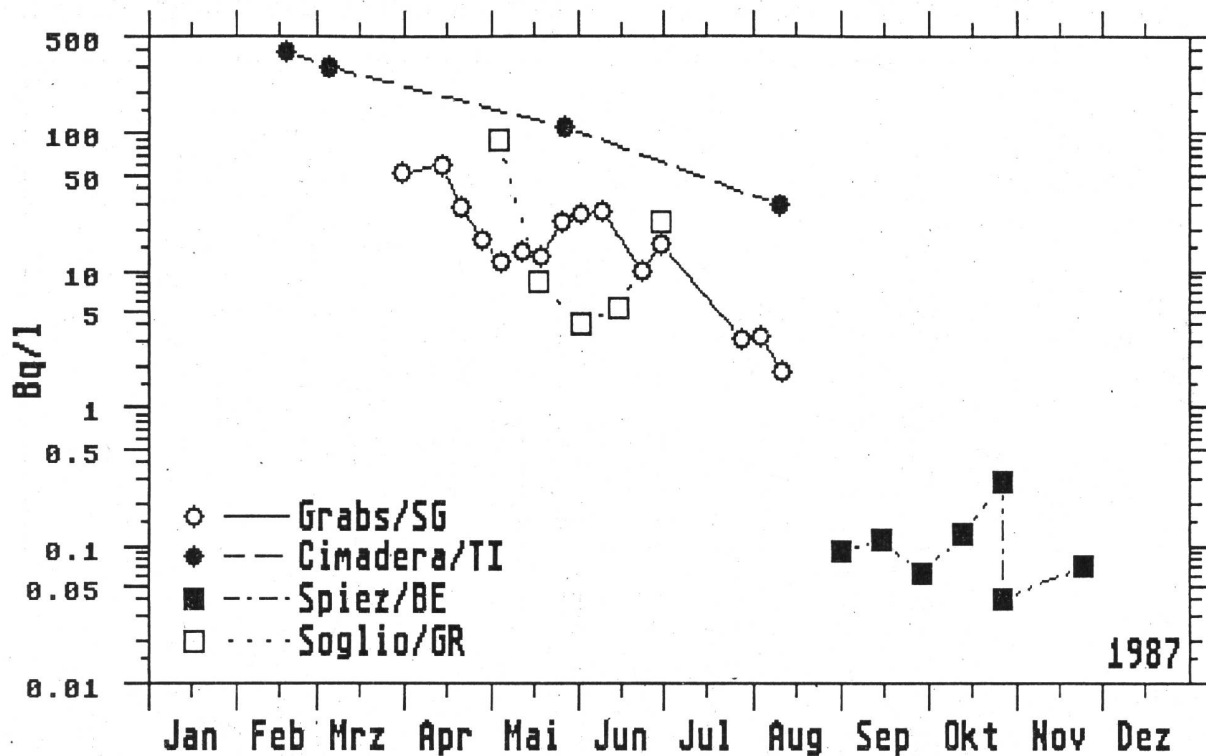


Fig.3.24: Cs-137 in Milchprodukten 1987/1988

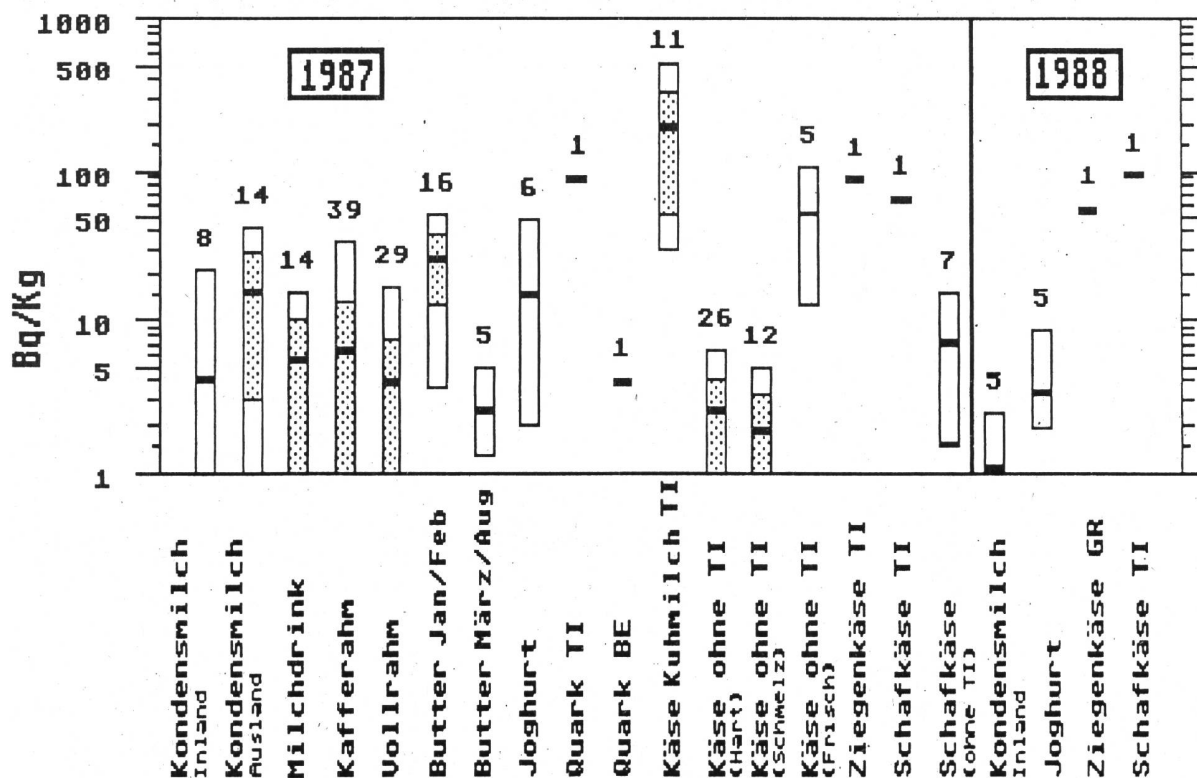


Fig.3.25.a: Cs-137 in Getreide & Getreideprodukten 1987

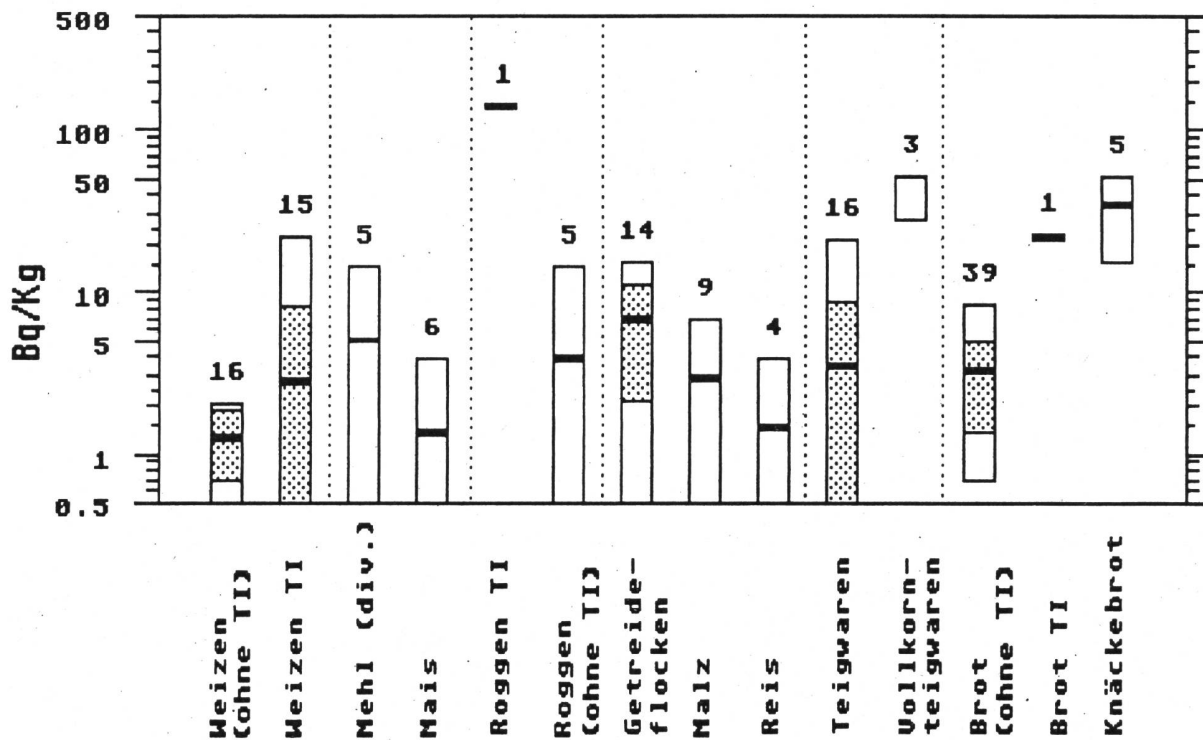


Fig.3.25.b: Cs-137 in Getreide & Getreideprodukten 1988

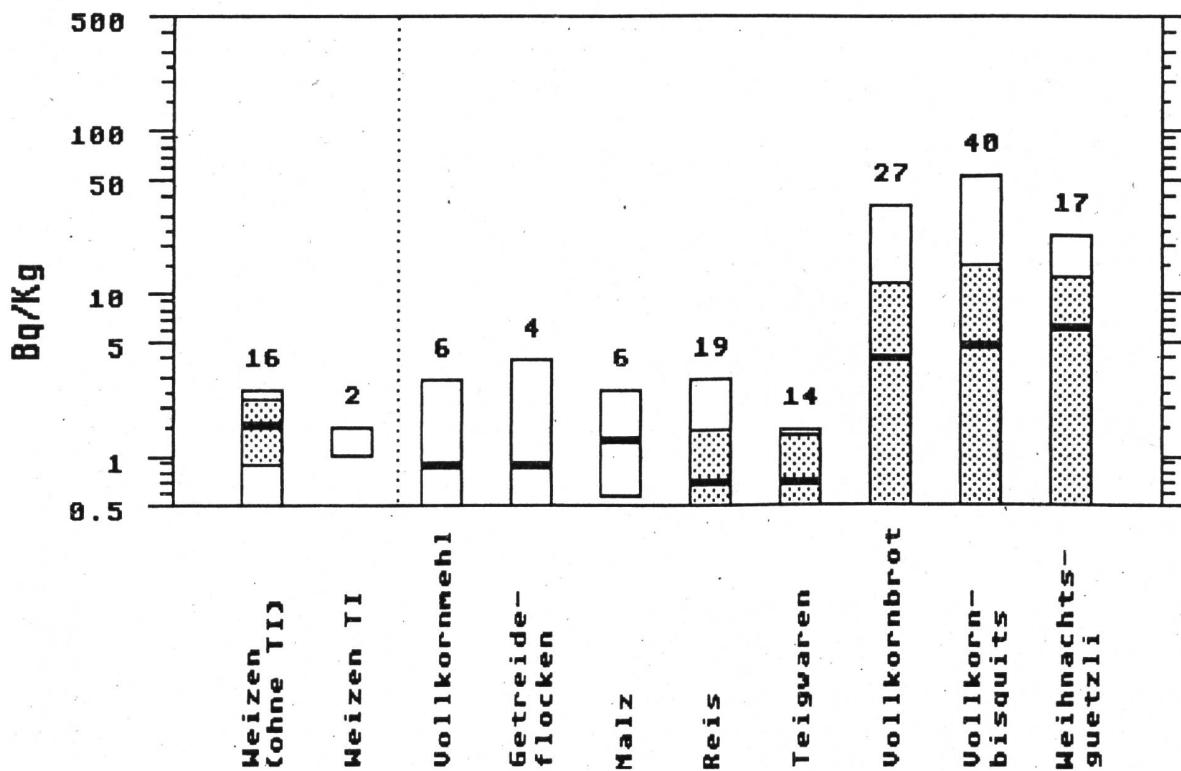


Fig.3.25.c: Cs-137 in Getreideprodukten

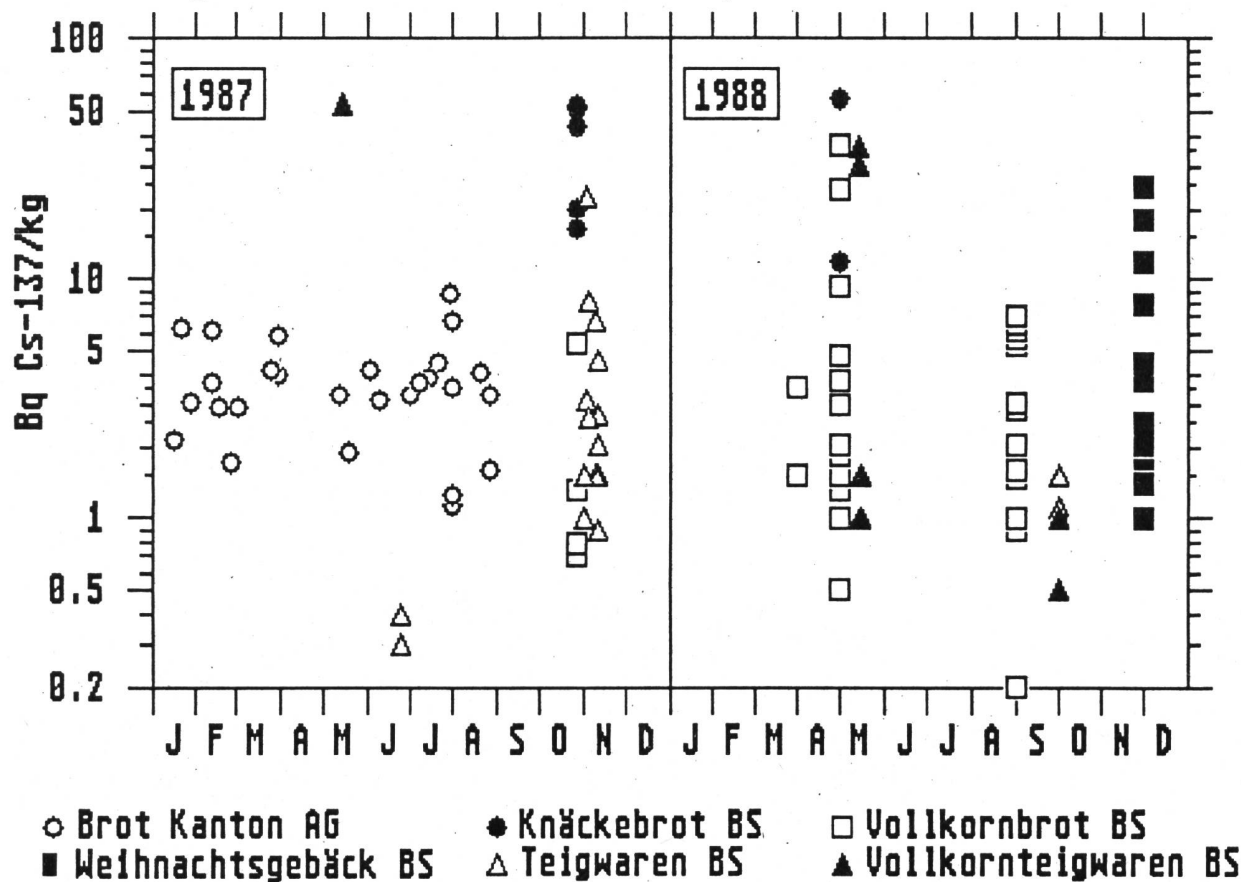
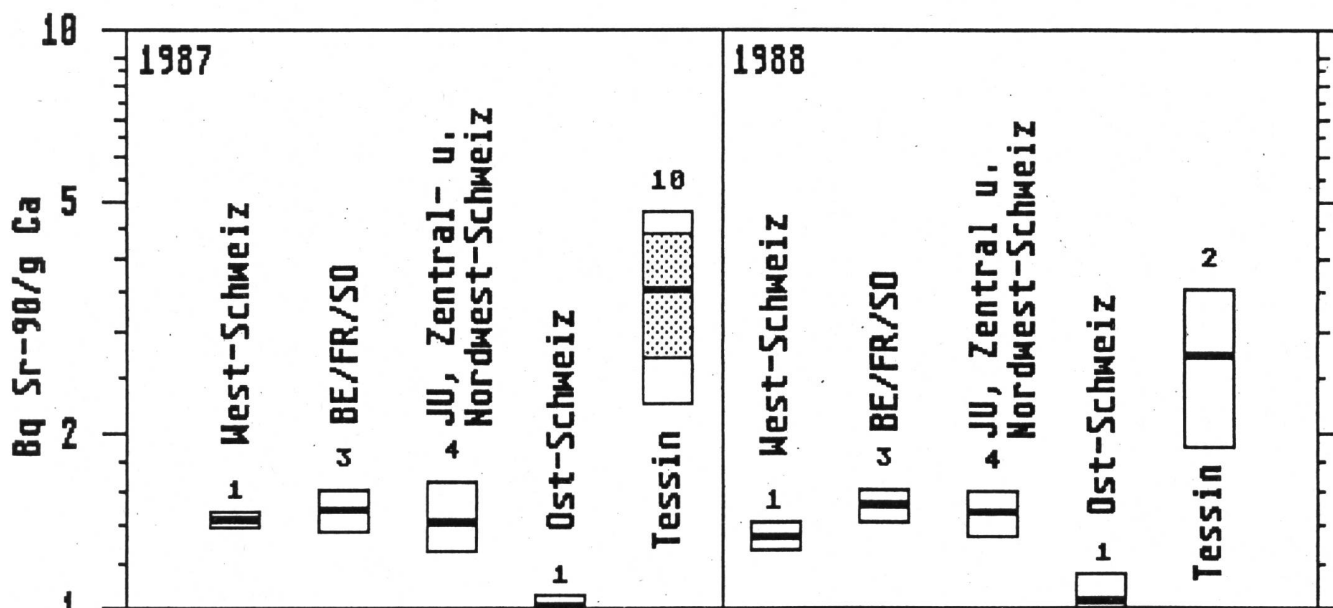


Fig.3.25.d: Sr-90 im Getreide



1 Bq Sr-90/kg = 2.6 Bq/g Ca

Fig.3.26.a: Cs-137 in Gemüse Tessin 1987/1988

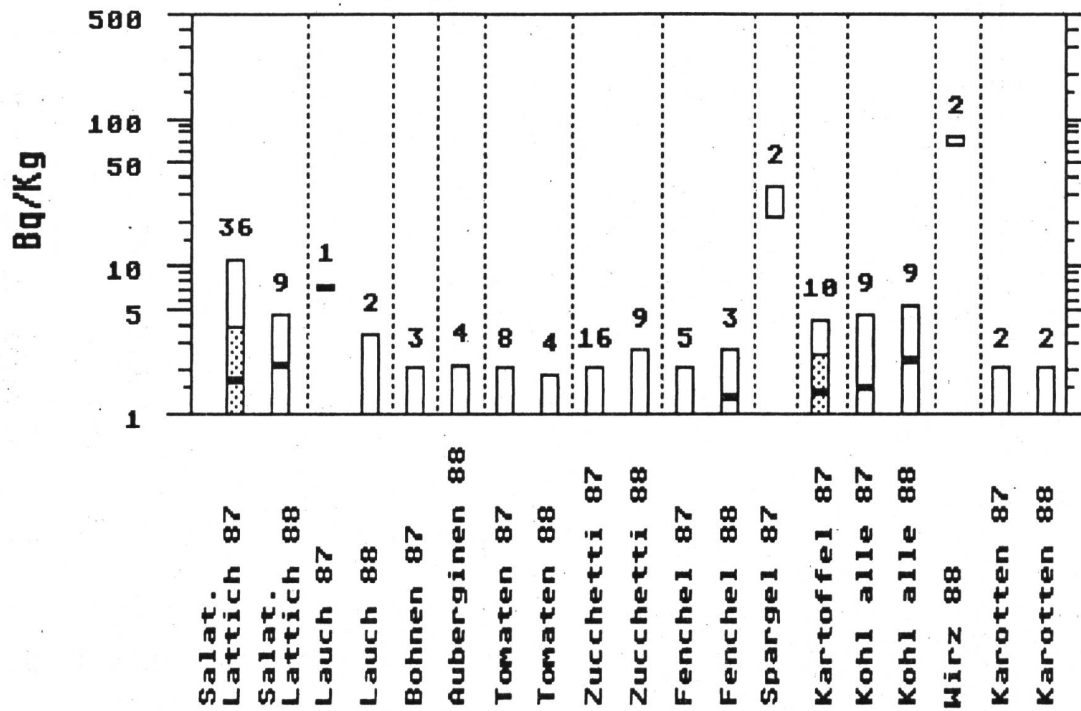


Fig.3.26.b: Cs-137 in Gemüse Ostschweiz 1987/1988

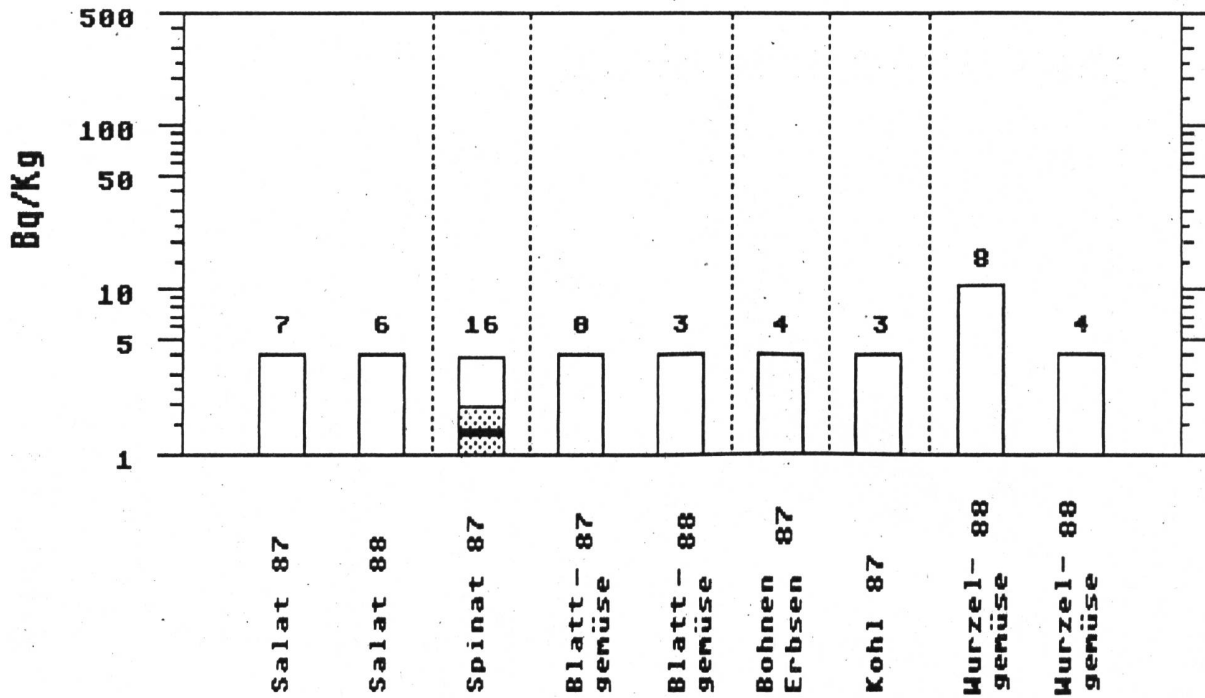


Fig.3.26.c: Cs-137 in Gemüse übrige Schweiz 1987/1988

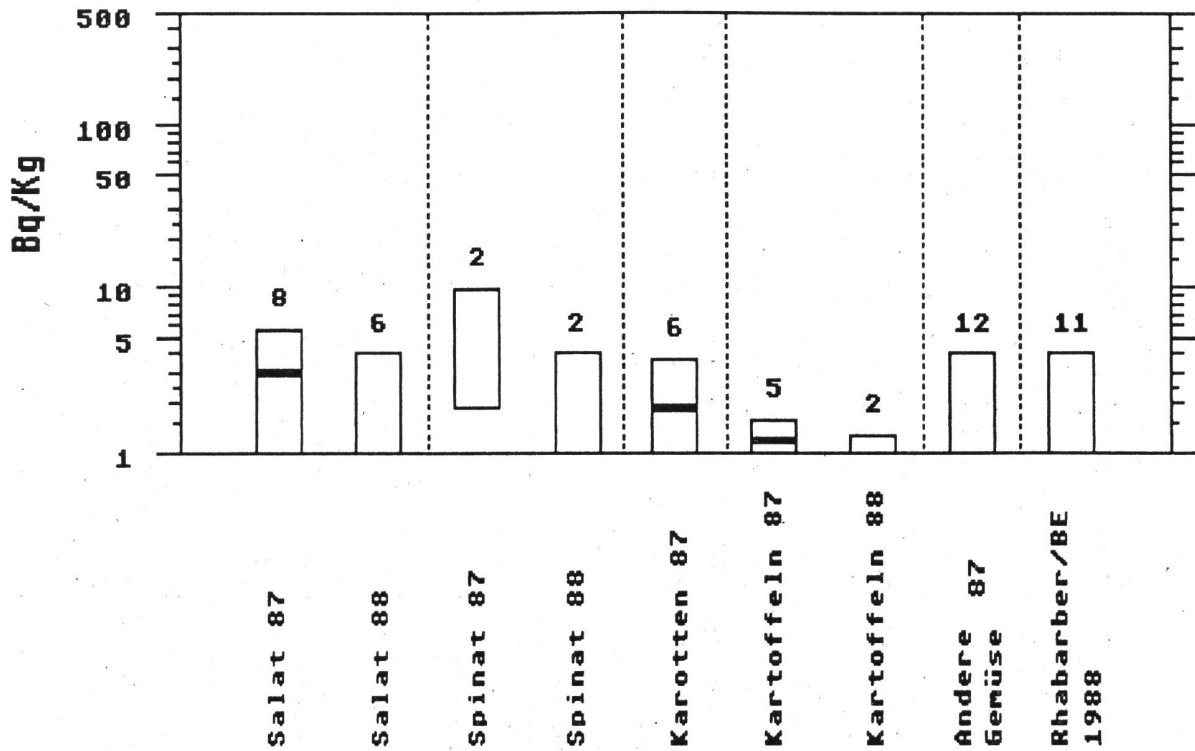


Fig.3.27.a: Cs-137 in Früchte und Obst Tessin 1987/1988

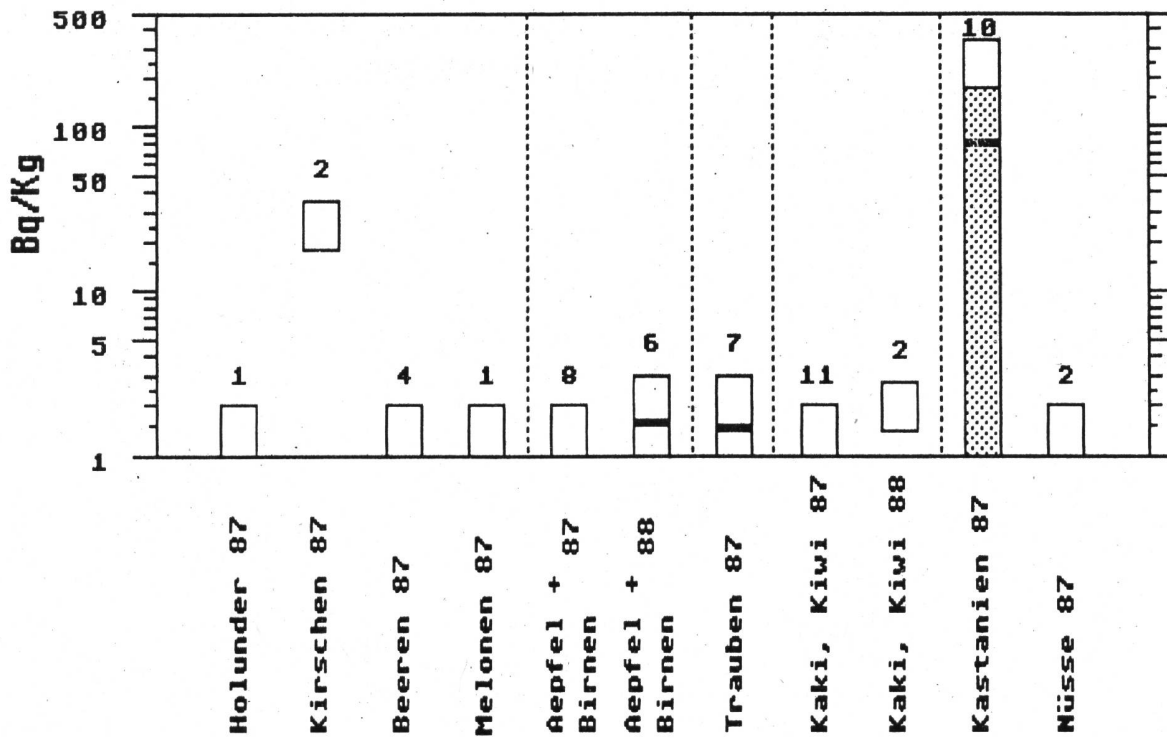


Fig.3.27.b: Cs-137 in Früchte und Obst Ost-Schweiz  
1987/1988

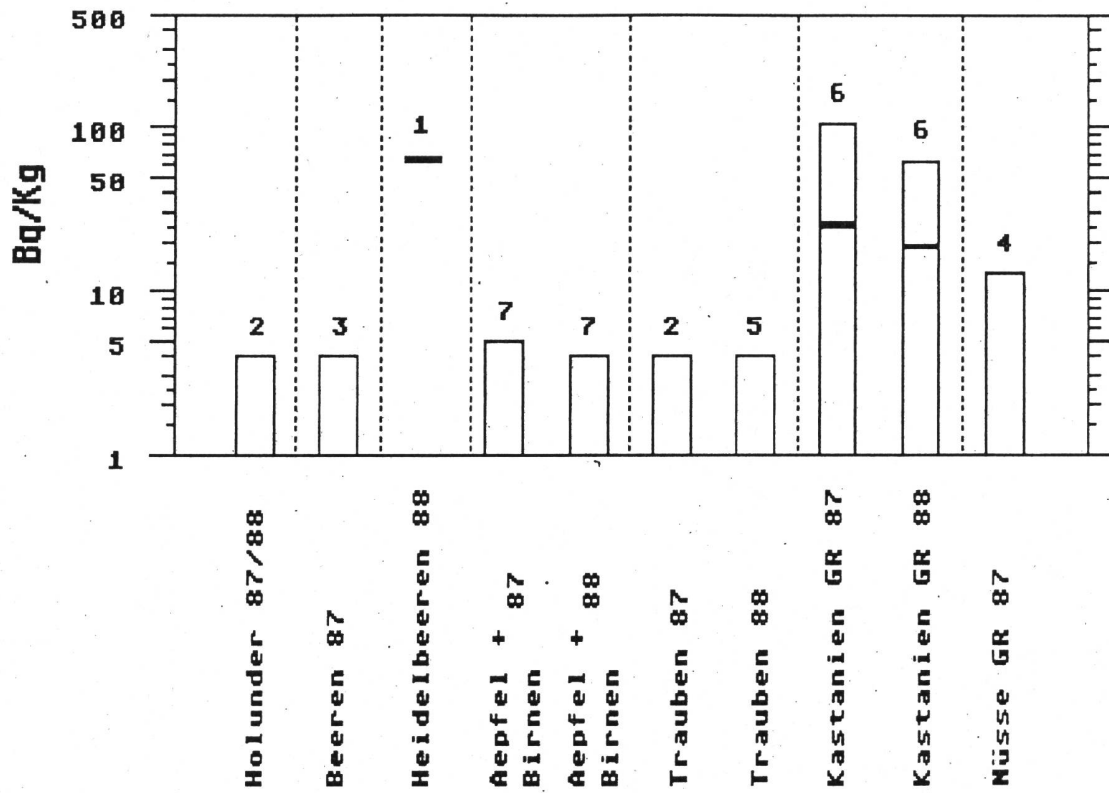


Fig.3.27.c: Cs-137 in Früchte und Obst übrige Schweiz  
1987/1988

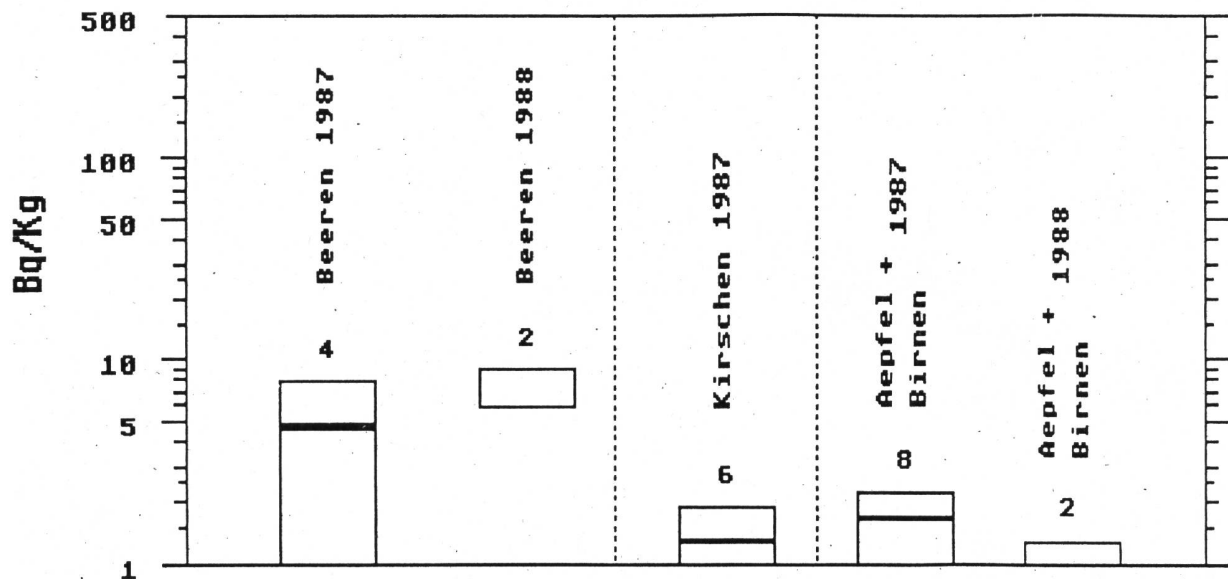


Fig.3.28.a: Cs-137 in Pilzen (frisch)

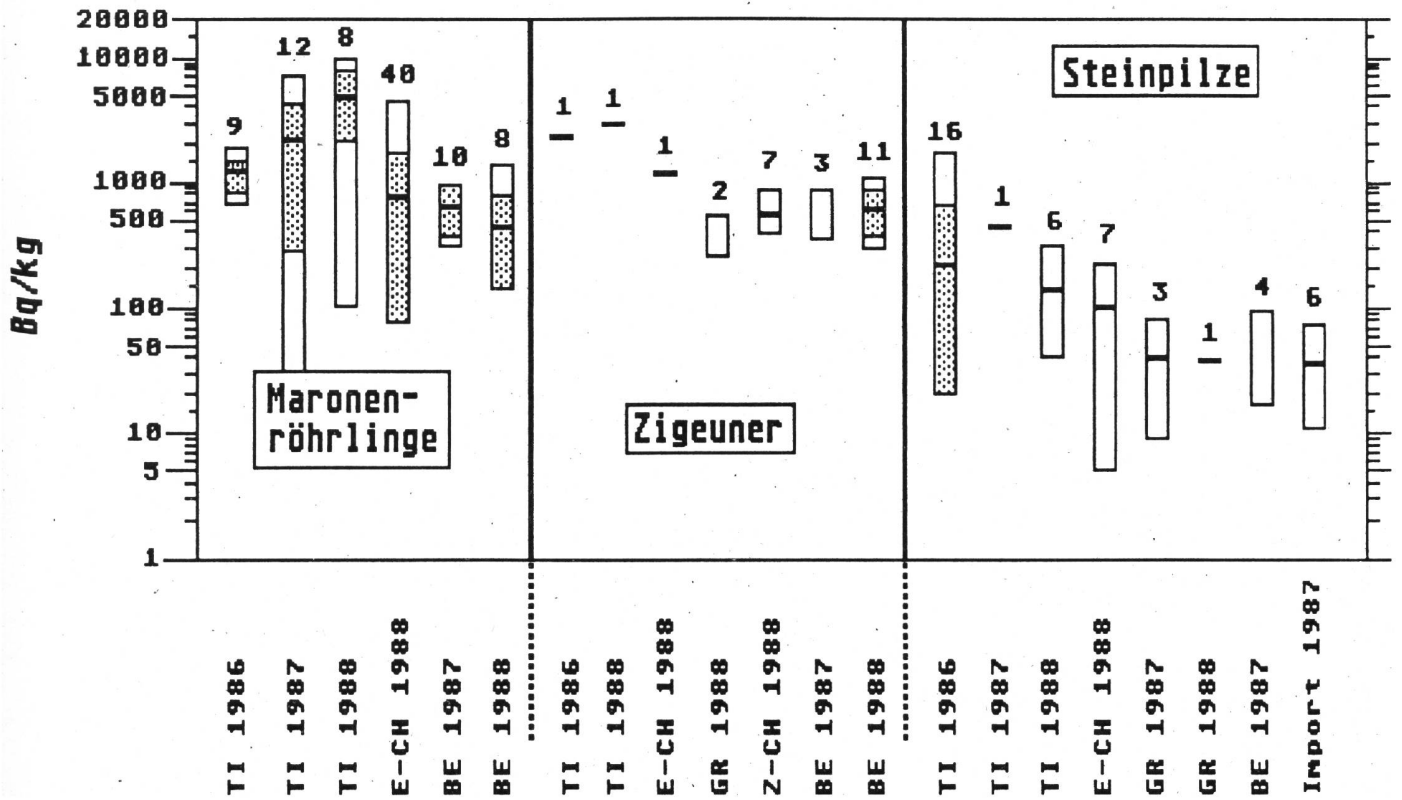
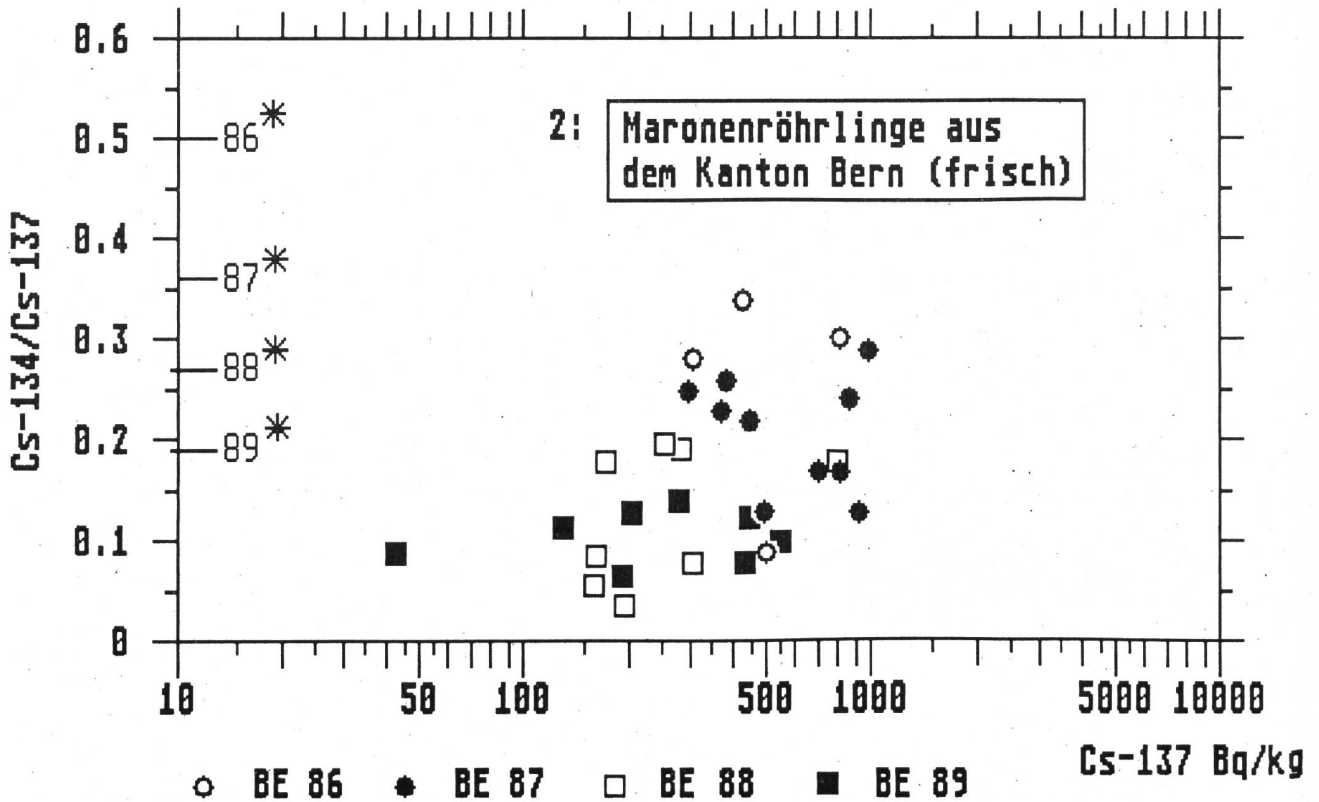
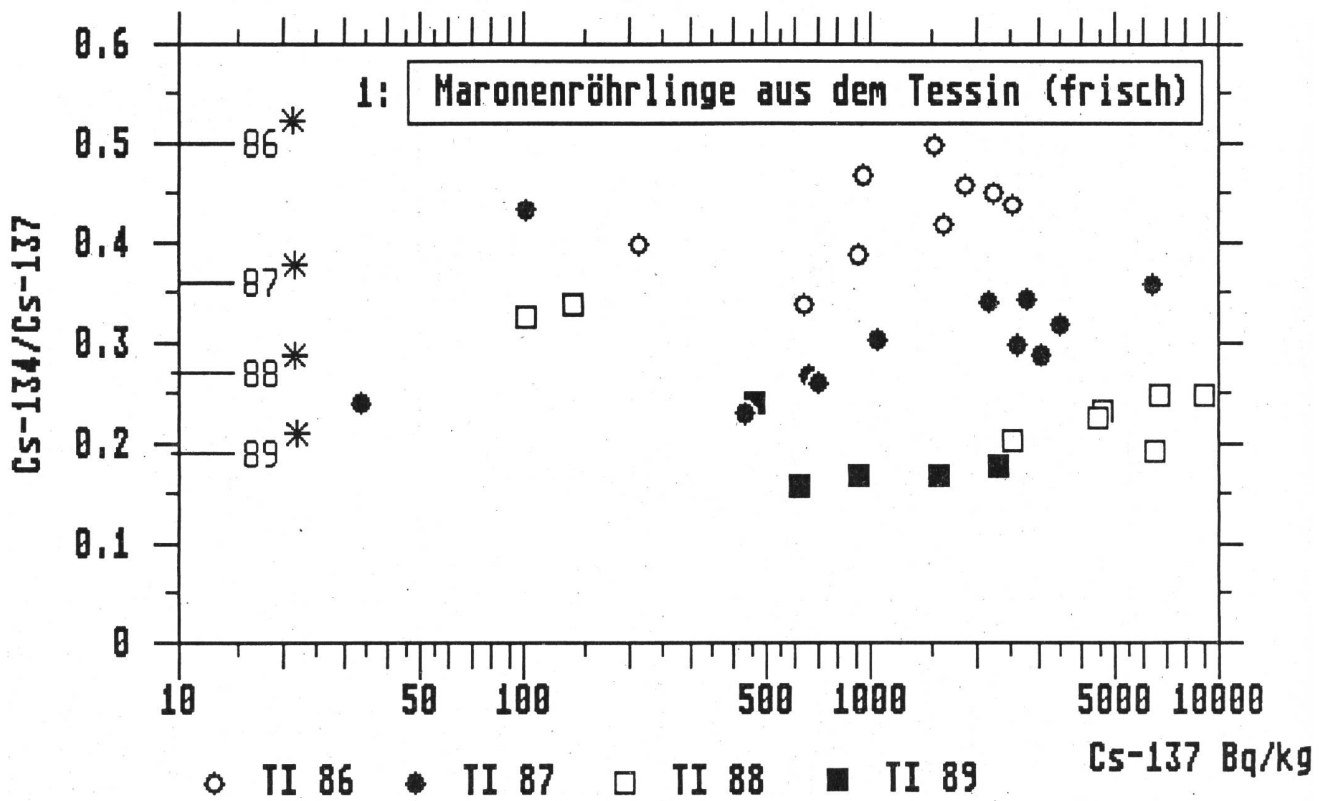


Fig.3.28.b: Cs-134/137 Isotopenverhältnis in Maronenröhrlingen



\* erwarteter Wert für das Cs-134/137-Verhältnis

Fig.3.29.a: Cs-137 in Fleisch Haustiere Tessin 87/88

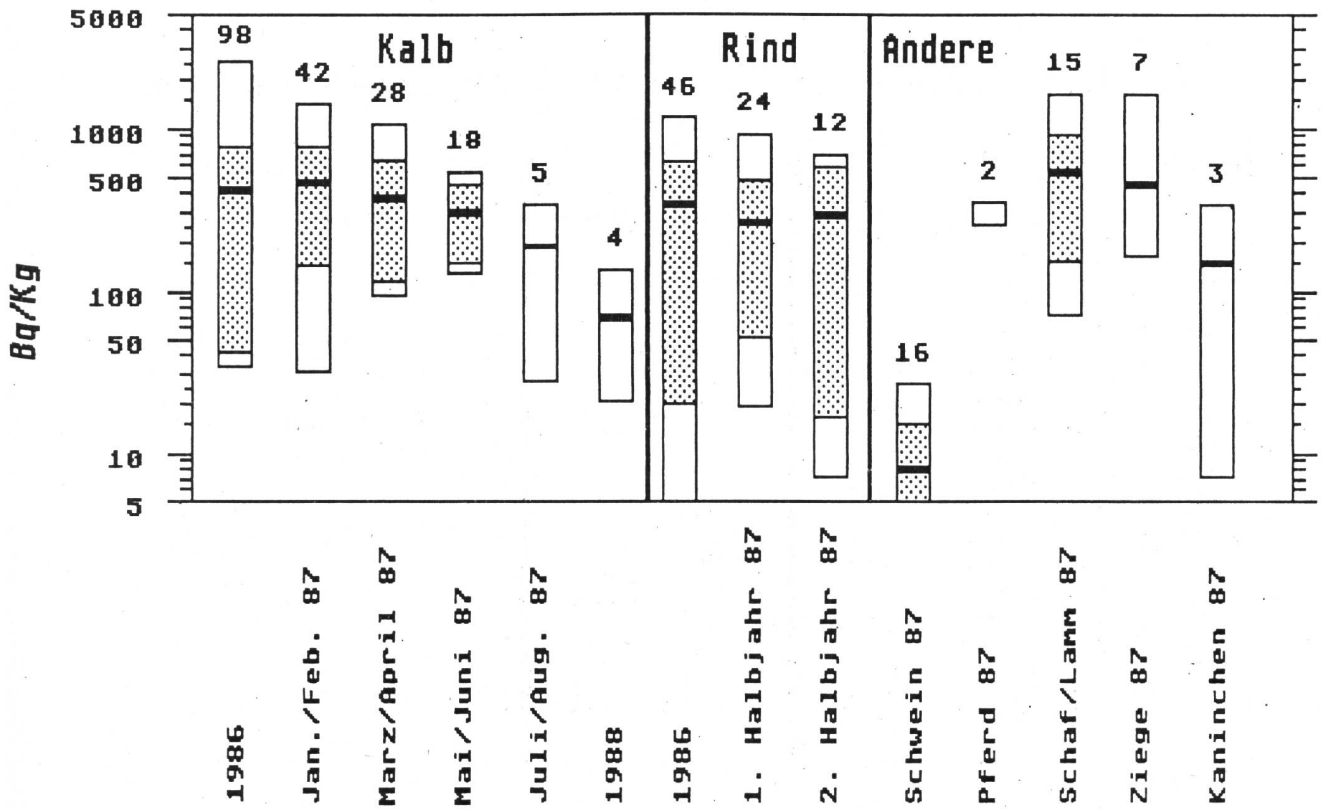


Fig.3.29.b: Cs-137 in Fleisch Haustiere Ostschweiz 87/88

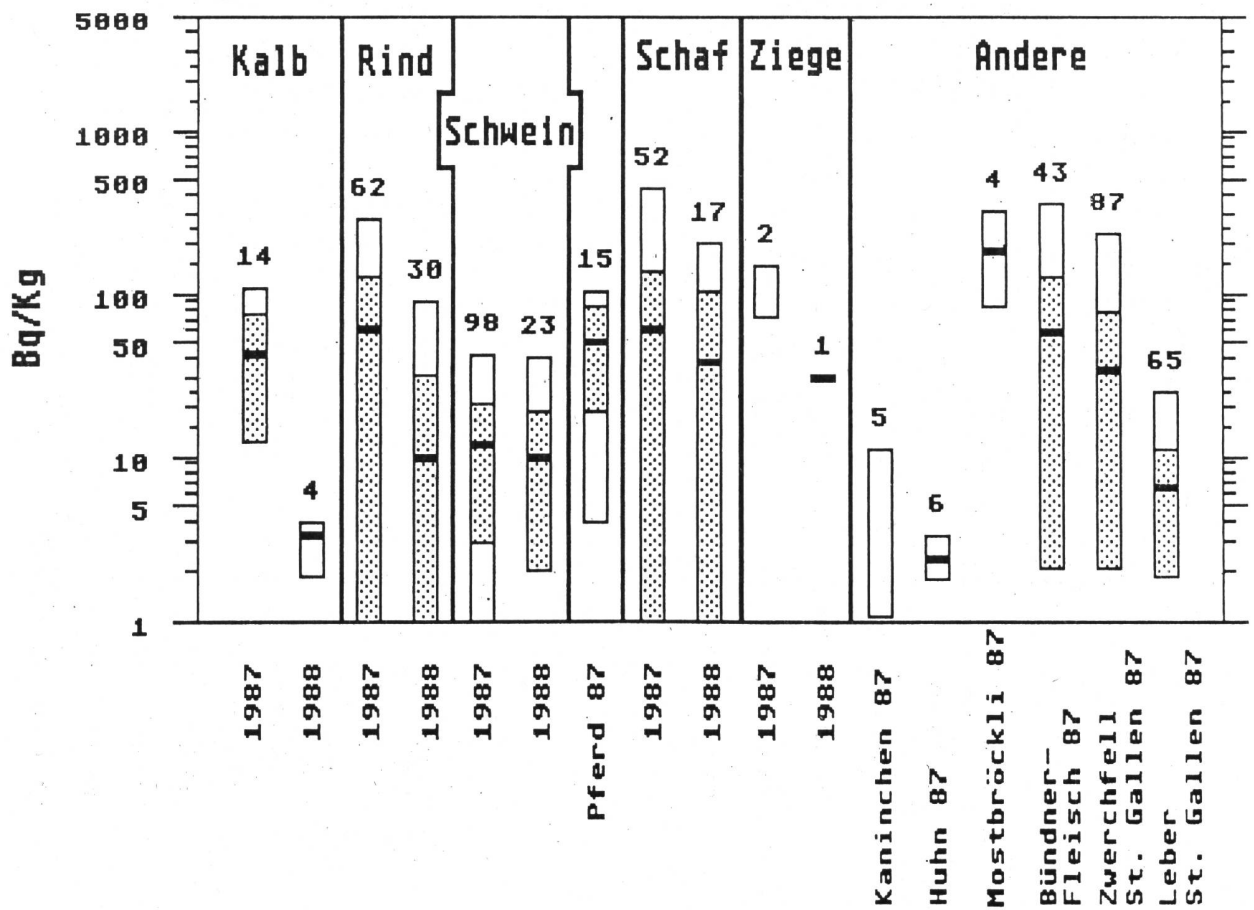


Fig.3.29.c: Cs-137 in Fleisch Haustiere Graubünden 87/88

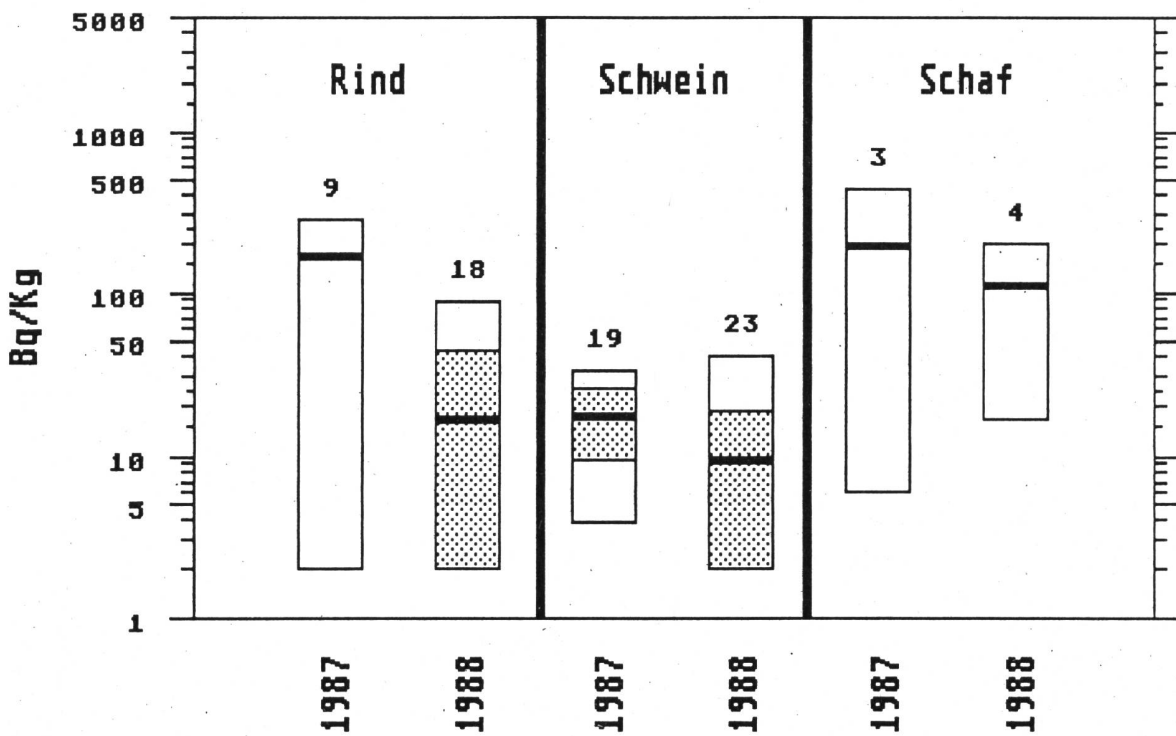


Fig.3.29.d: Cs-137 in Fleisch Haustiere Zentral- und Nordschweiz 1987/1988

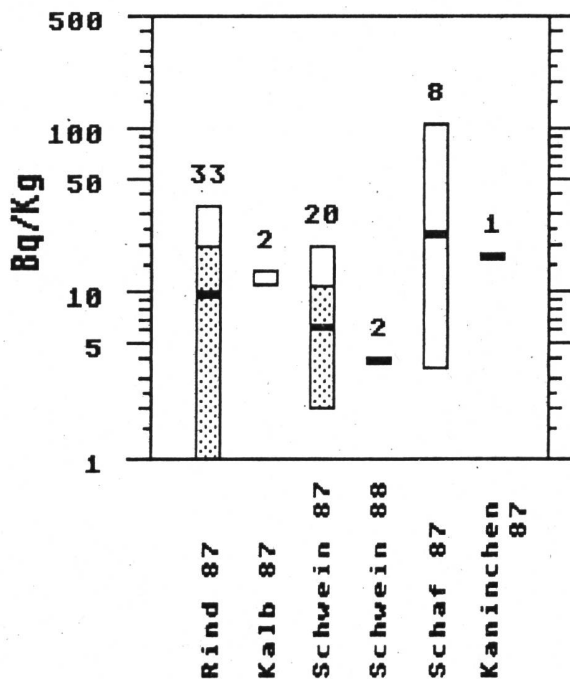


Fig.3.29.e: Cs-137 in Fleisch Haustiere Westschweiz 1987/1988

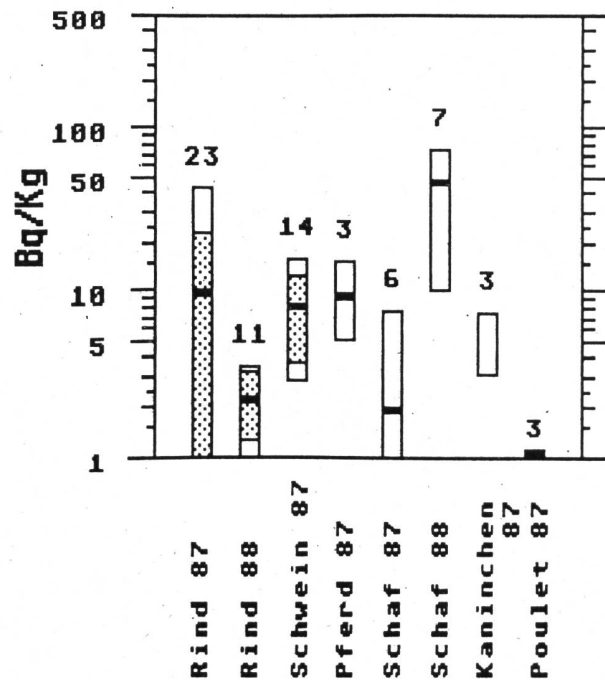


Fig.3.30.a: Cs-137 in Wild  
Tessin 1987/1988

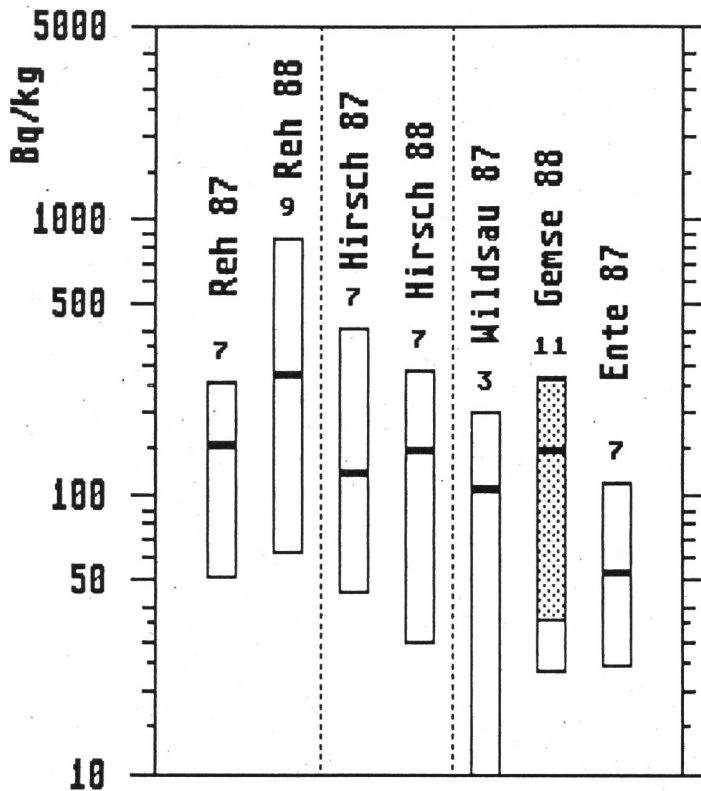


Fig.3.30.b: Cs-137 in Wild  
Ostschweiz ohne Graubünden  
1987/1988

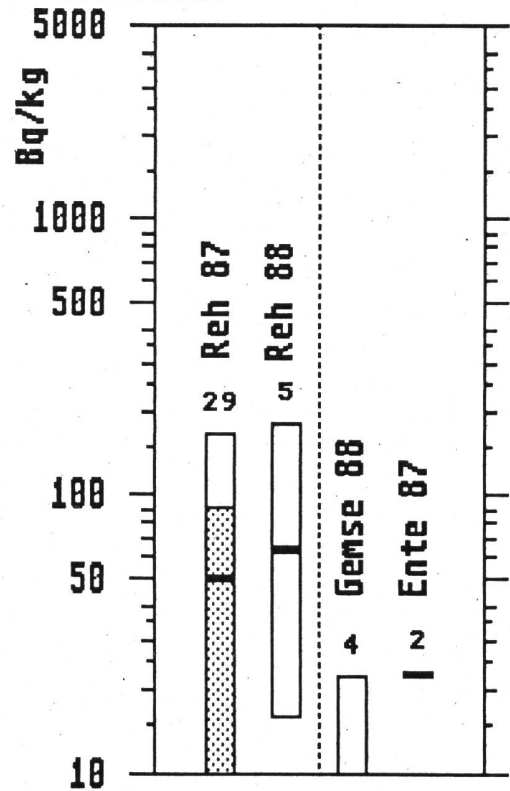


Fig.3.30.c: Cs-137 in Wild  
Graubünden

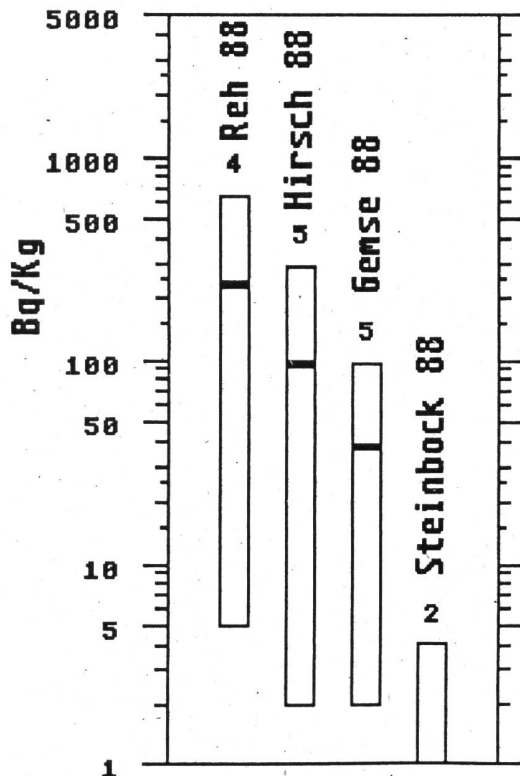


Fig.3.30.d: Cs-137 in Wild übrige  
Schweiz (ohne TI und Ostschweiz)  
1987/1988

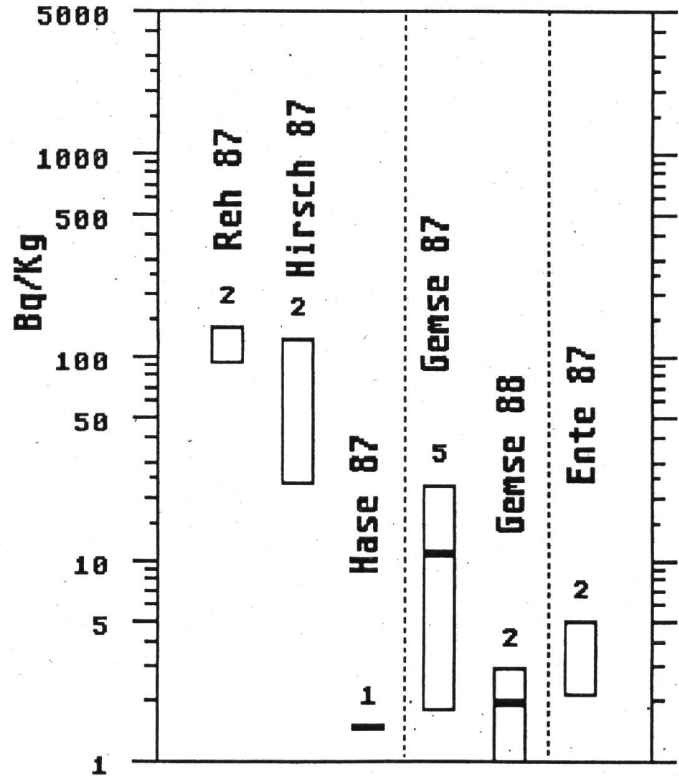


Fig.3.31.a: Tritium im Rhein (Monats- oder Wochenmischproben)

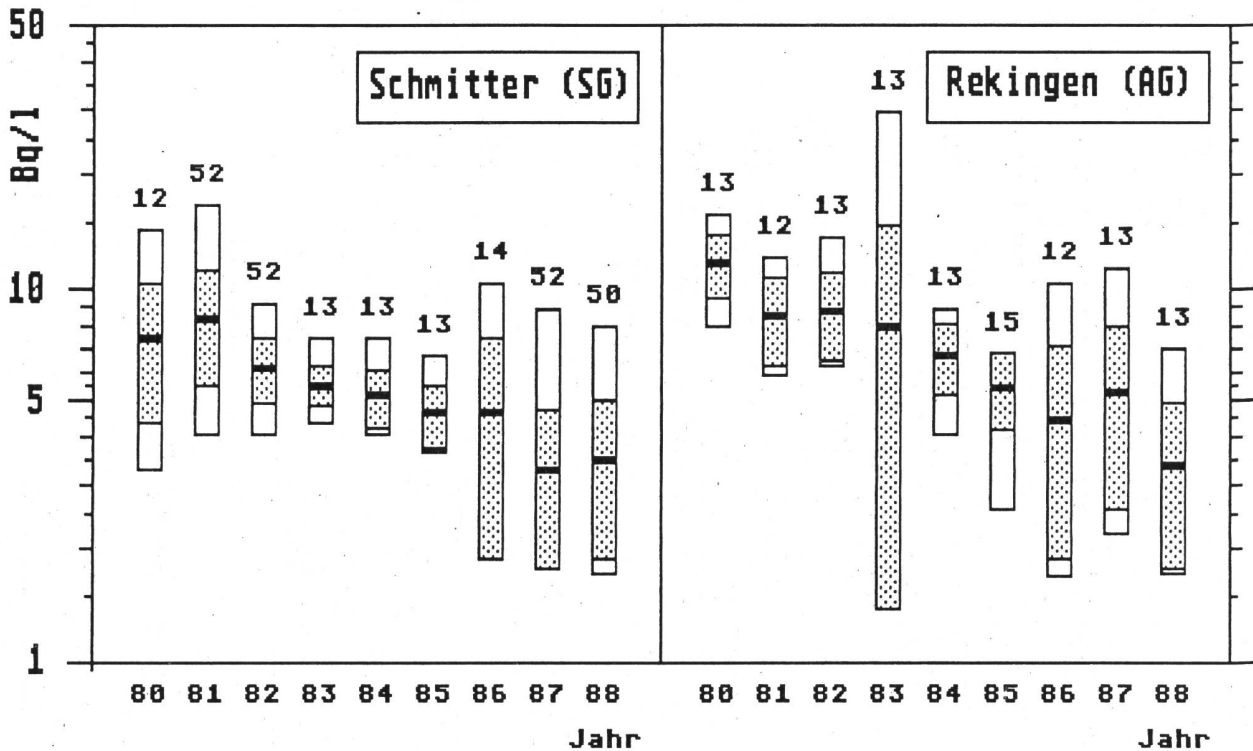


Fig.3.31.b: Tritium in der Aare (Monats- oder Wochenmischproben)

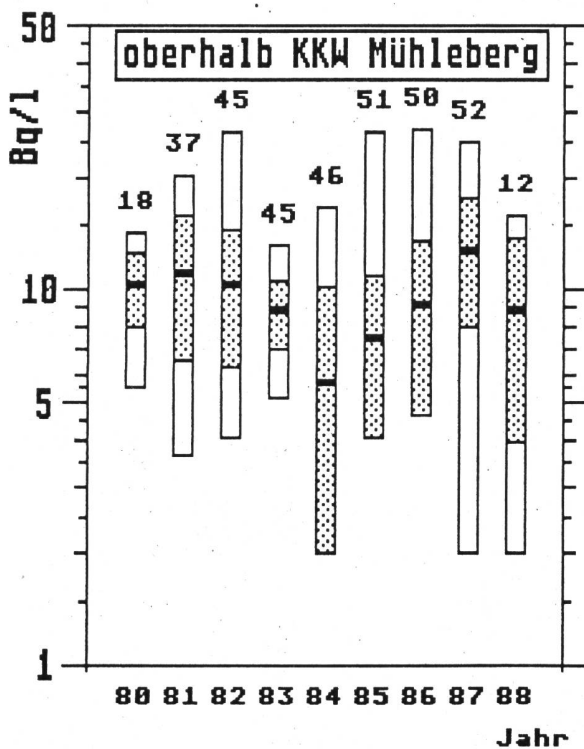


Fig.3.31.c: Tritium im Rhein (Monatsmischproben)

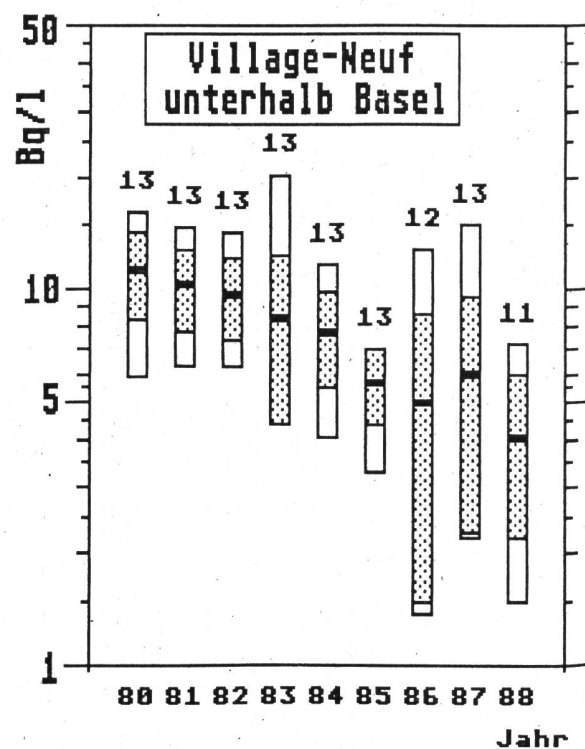


Fig.3.31.d: Tritium in der Rhone (Monatsmischproben)

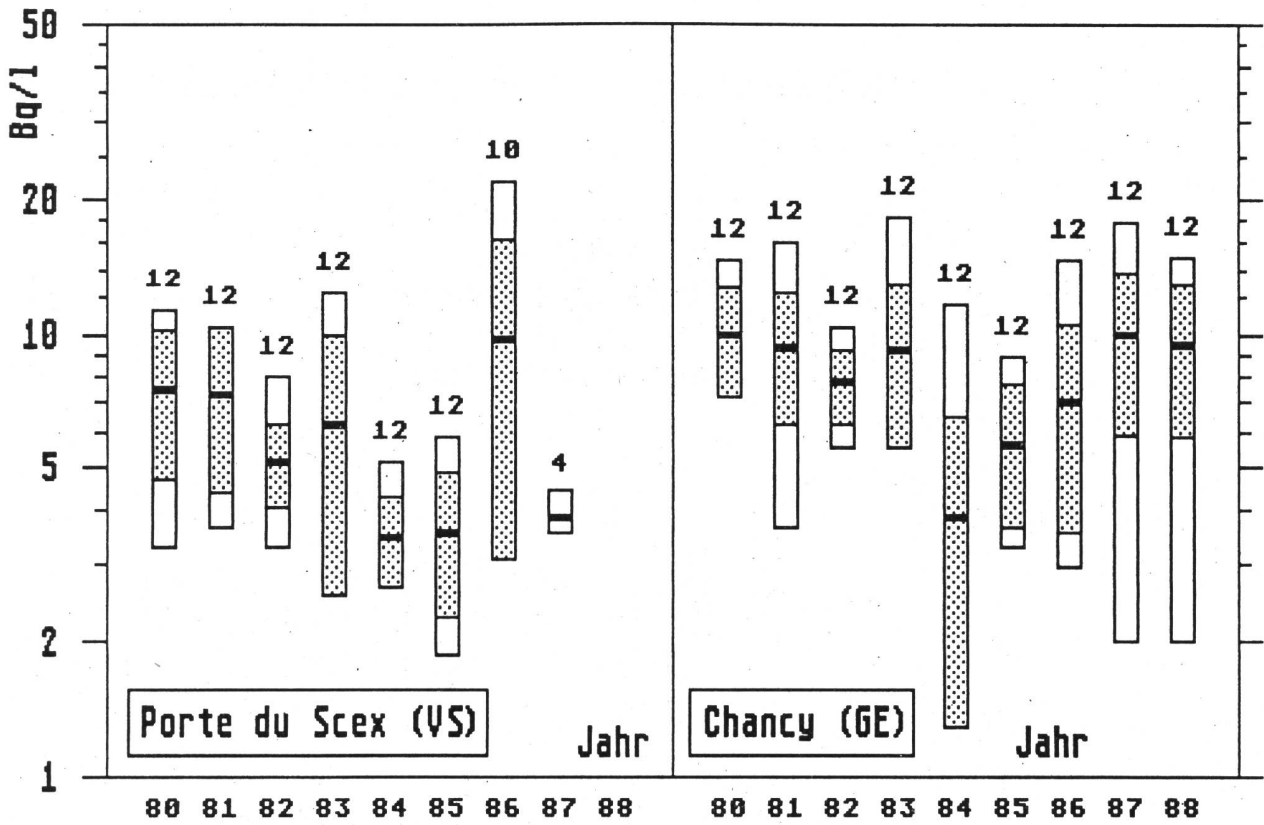


Fig.3.31.e: Tritium in der Aare

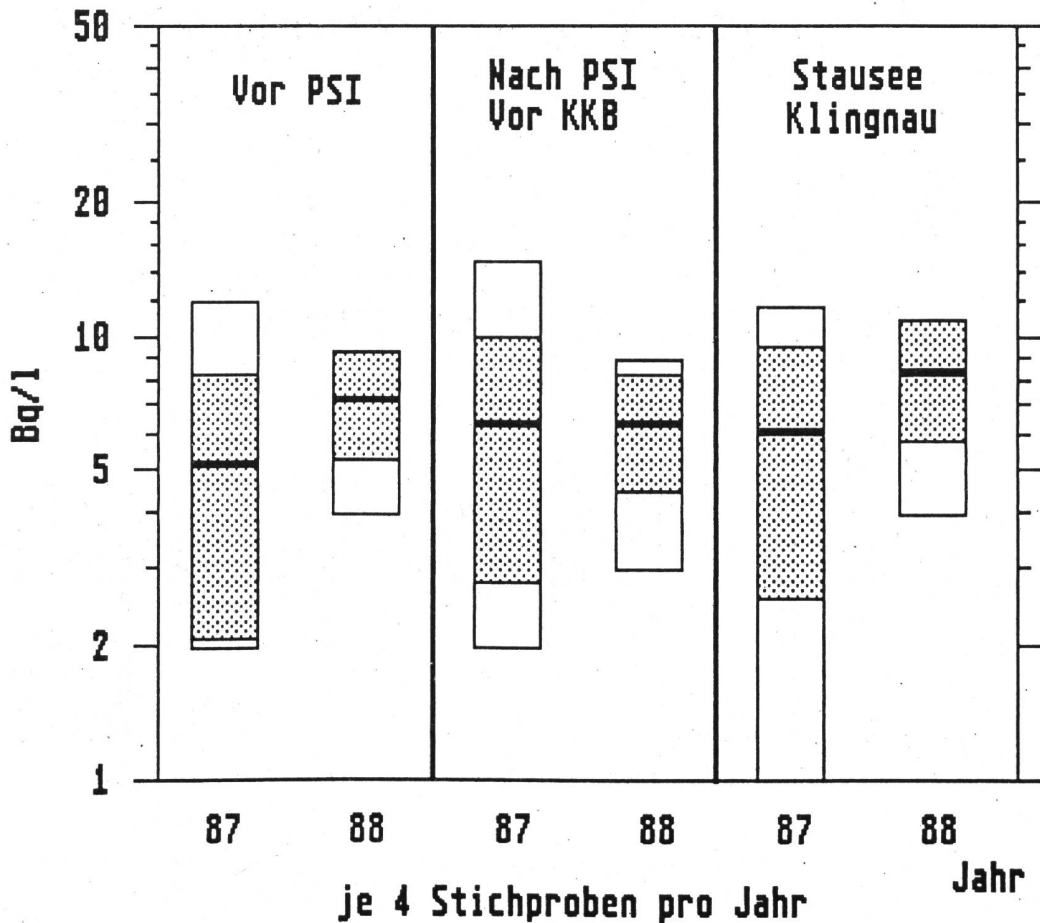


Fig.3.31.f: Total  $\alpha$ -Aktivität im Rhein

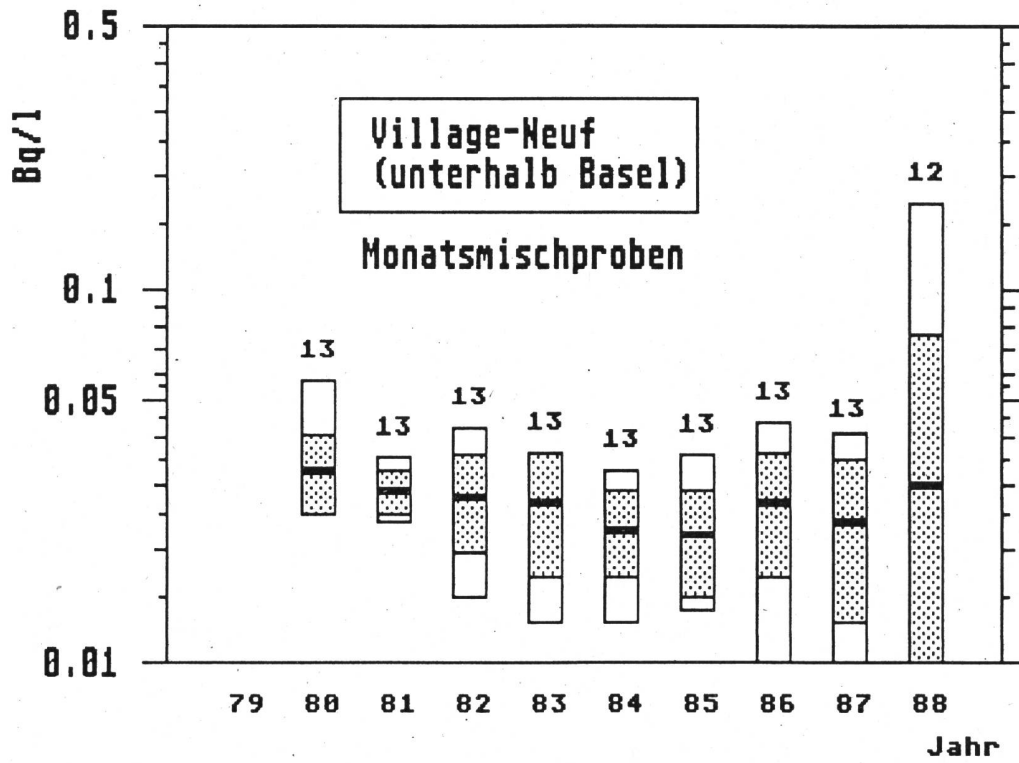


Fig.3.31.g: Total  $\alpha$ -Aktivität im Rhein

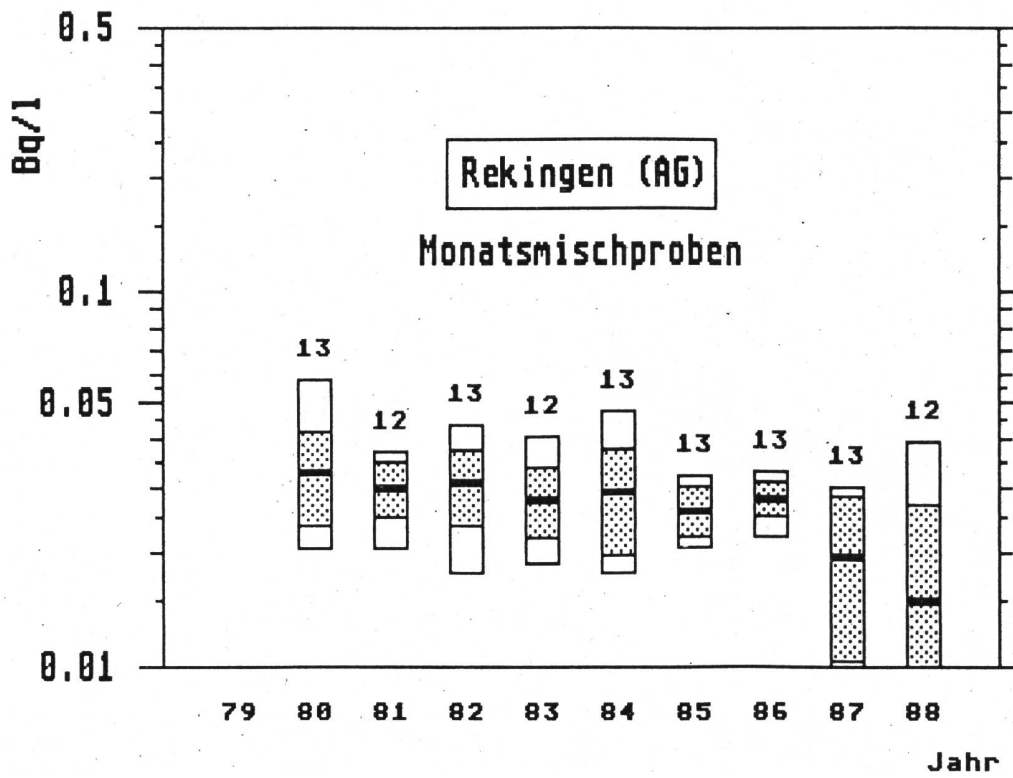


Fig.3.31.h: Alpha-Aktivität im Rhein (Monatsmischproben)

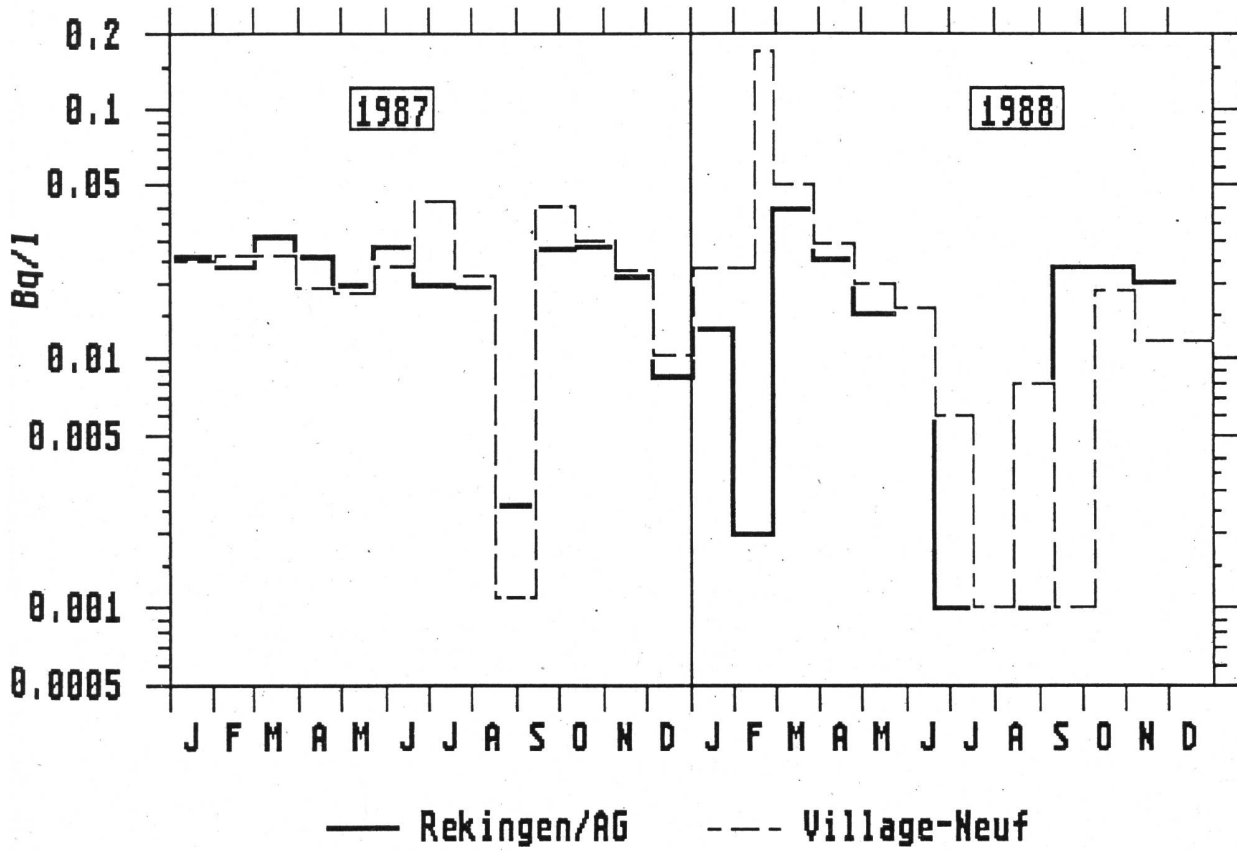


Fig. 3.32.a: Cs-137 im Luganerseeewasser. (Südbecken) (EAWAG)

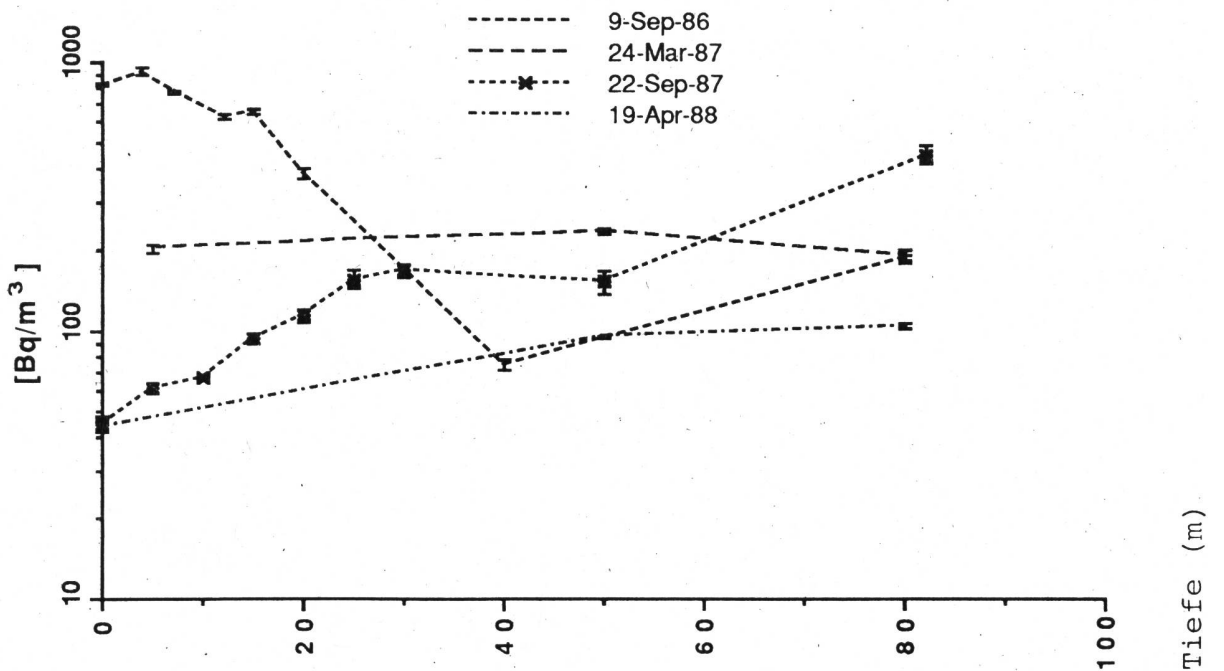


Fig. 3.32.b: Cs-137 im Bodenseewasser

(EAWAG)

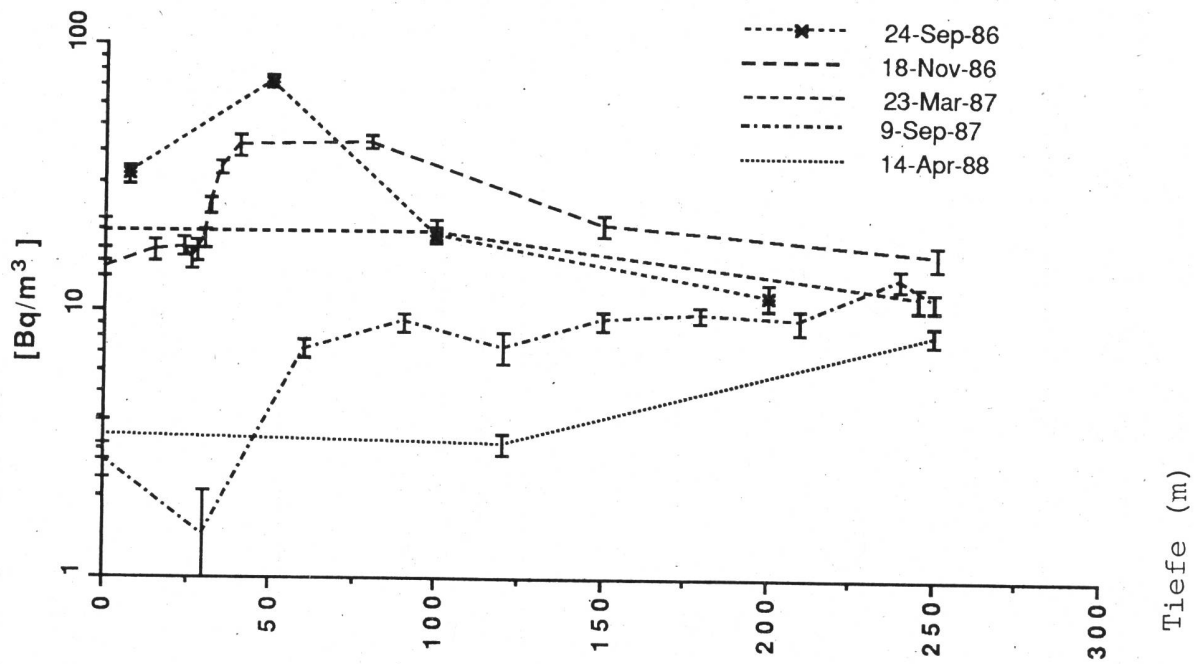


Fig. 3.32.c: Cs-137 im Zürichseewasser

(EAWAG)

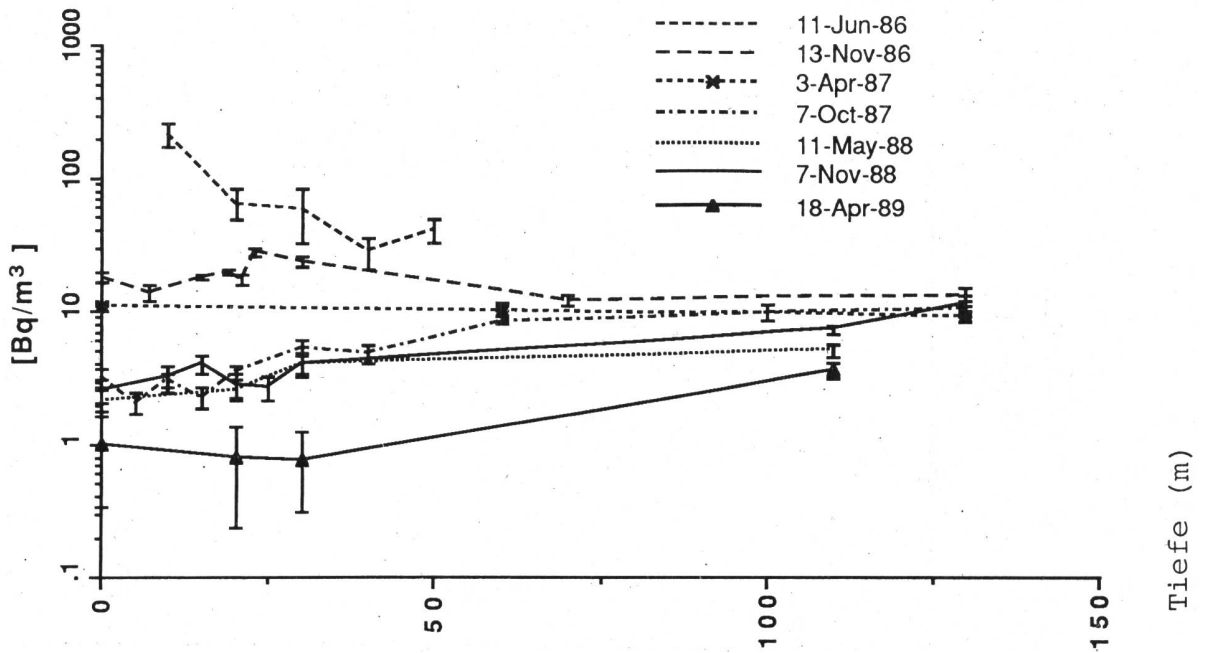


Fig.3.32.d: Caesium-137-Inventar in Schweizer Seen

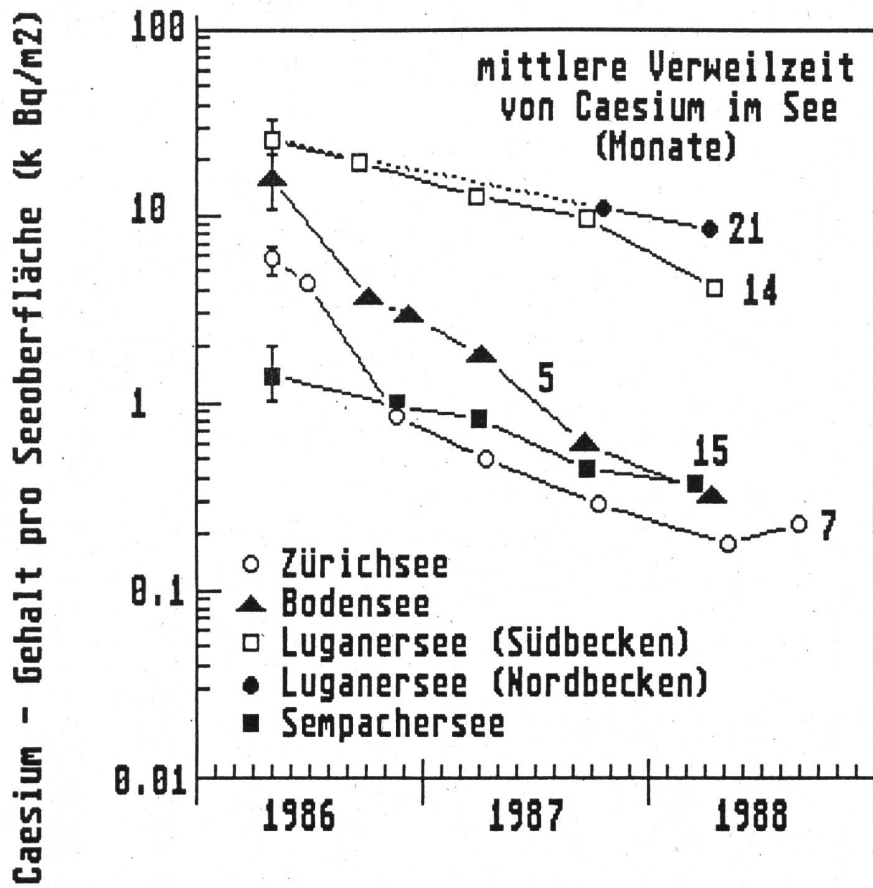


Fig.3.33.a: Cs-137 in den Fischen der Schweiz 1987/1988

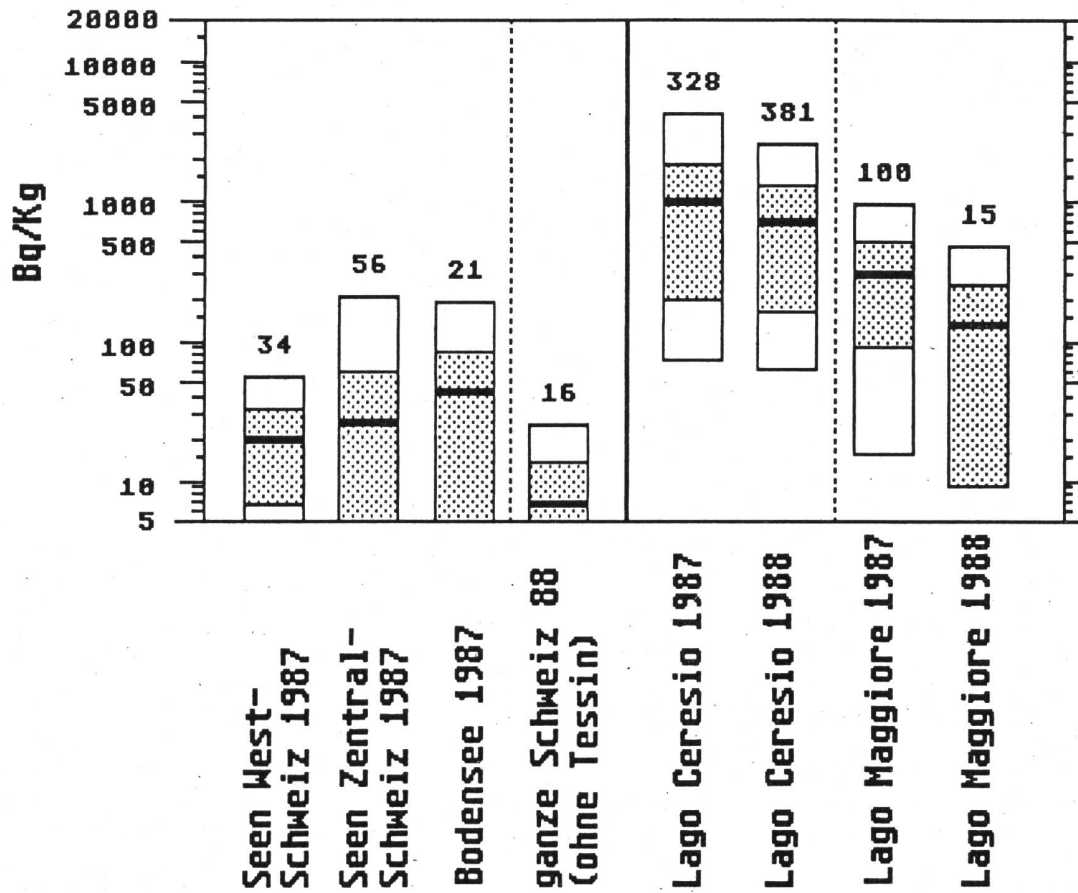


Fig. 3.33.b: Cs-137 in den Fischen des Lago Ceresio/II: Hechtbarsch (Zander)

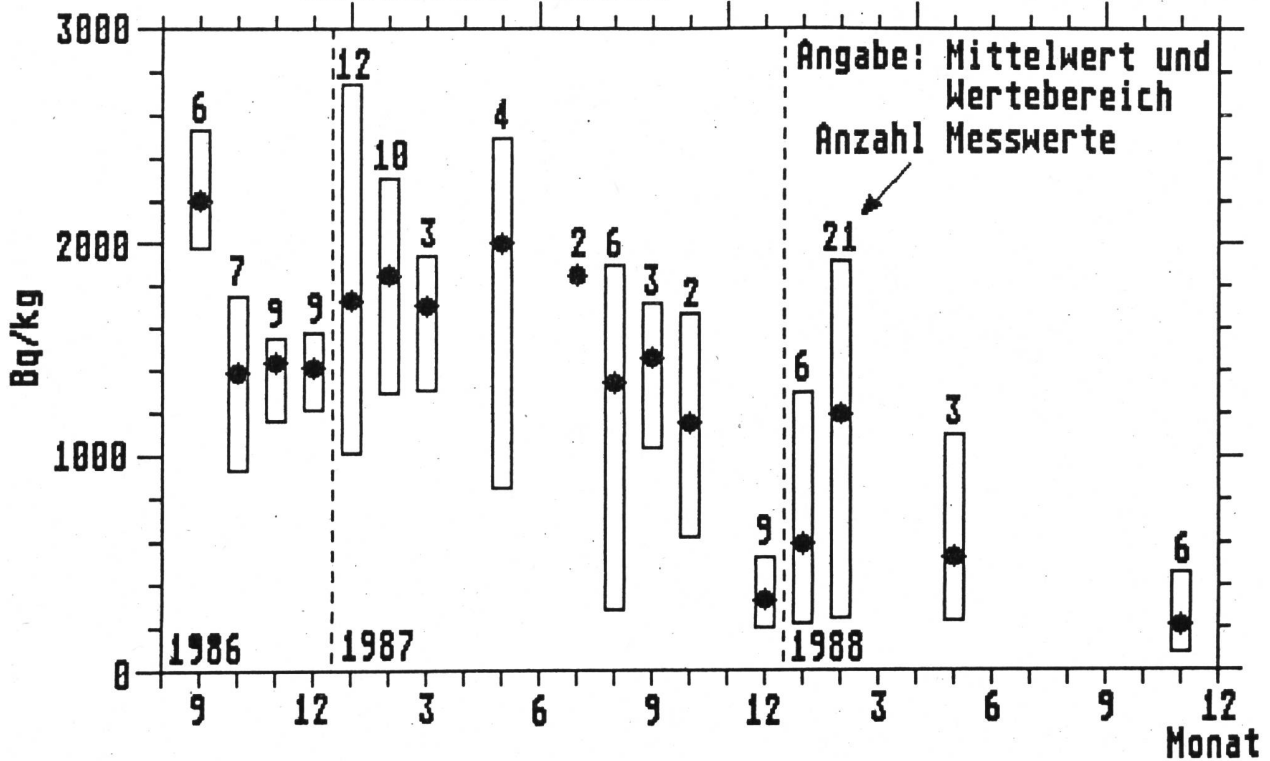


Fig. 3.33.c: Cs-134 und Cs-137 im Barsch aus dem Luganersee  
kBq/kg (Cs-134 + Cs-137) Wertebereich und Mittelwerte

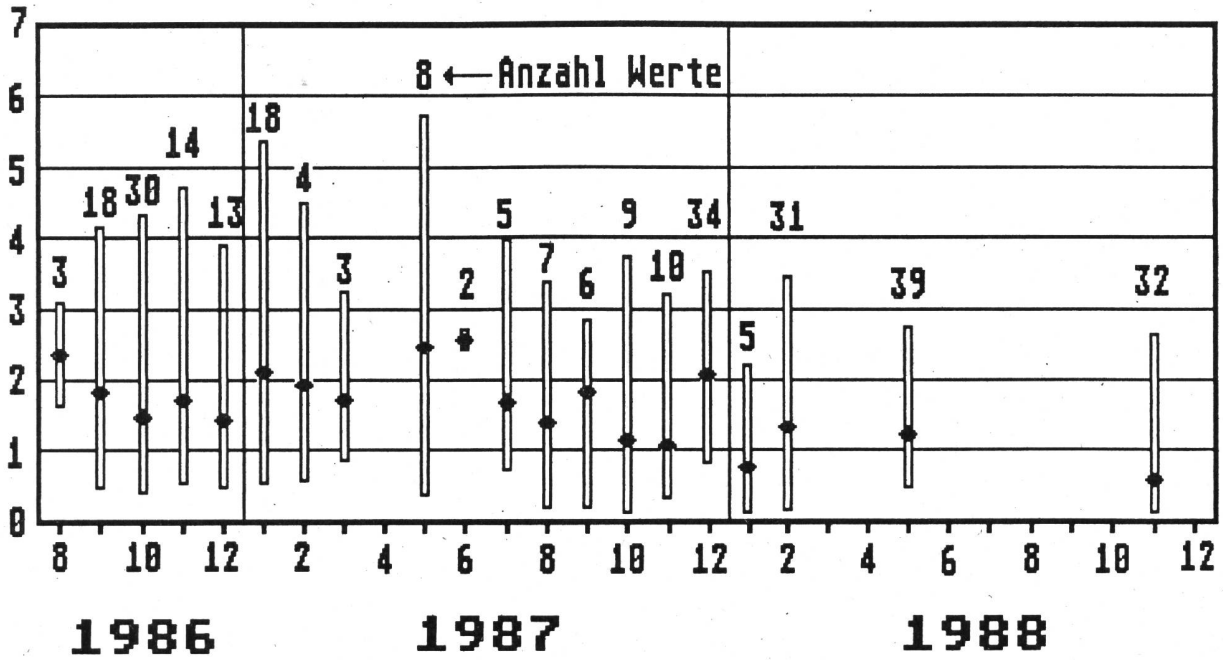


Fig. 3.33.d:  
Cs-134 + Cs-137 in Fischen aus dem Luganersee (Monatsmittelwerte)

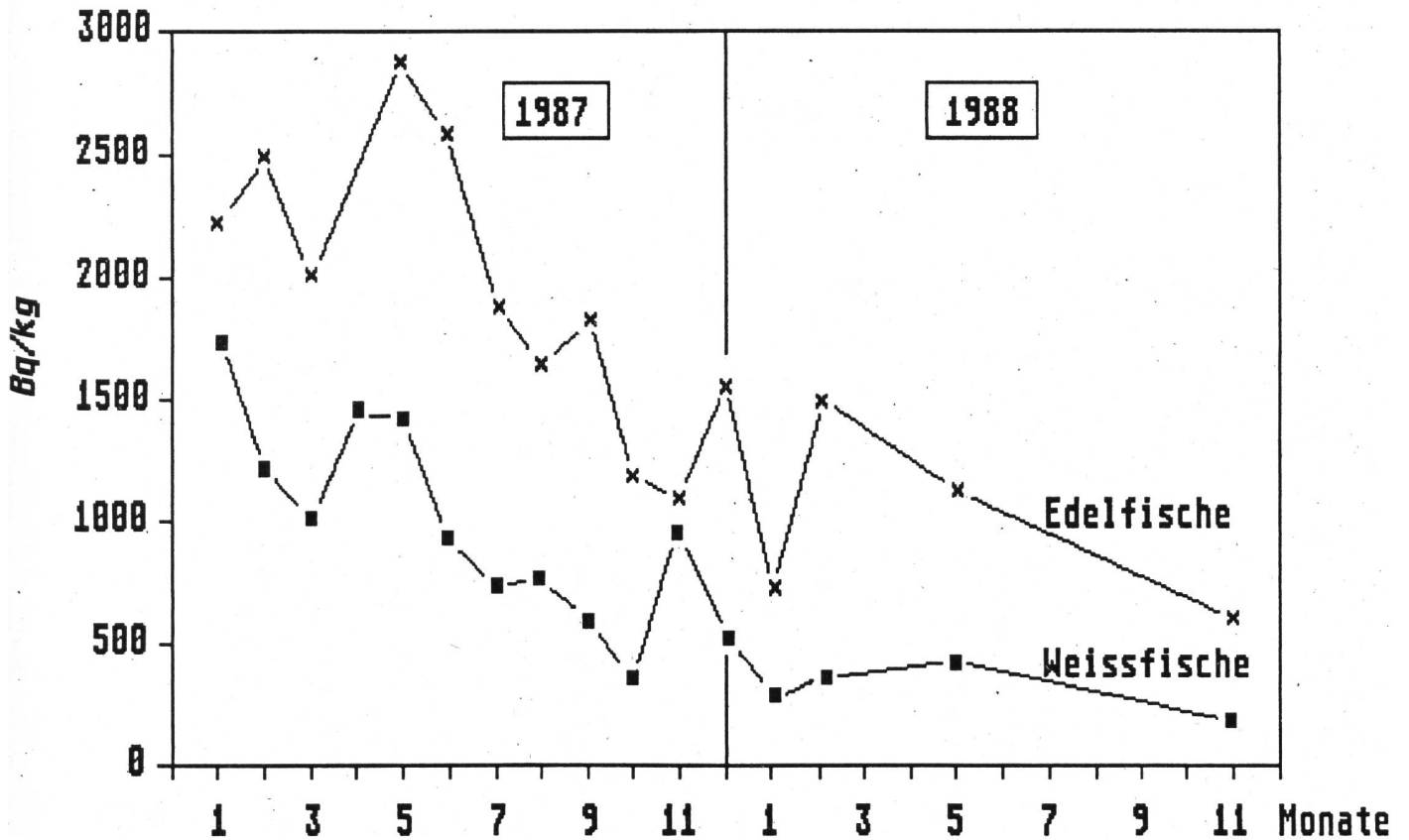


Fig.3.34.a: Cs-137 in verschiedenen Produkten 1987/1988

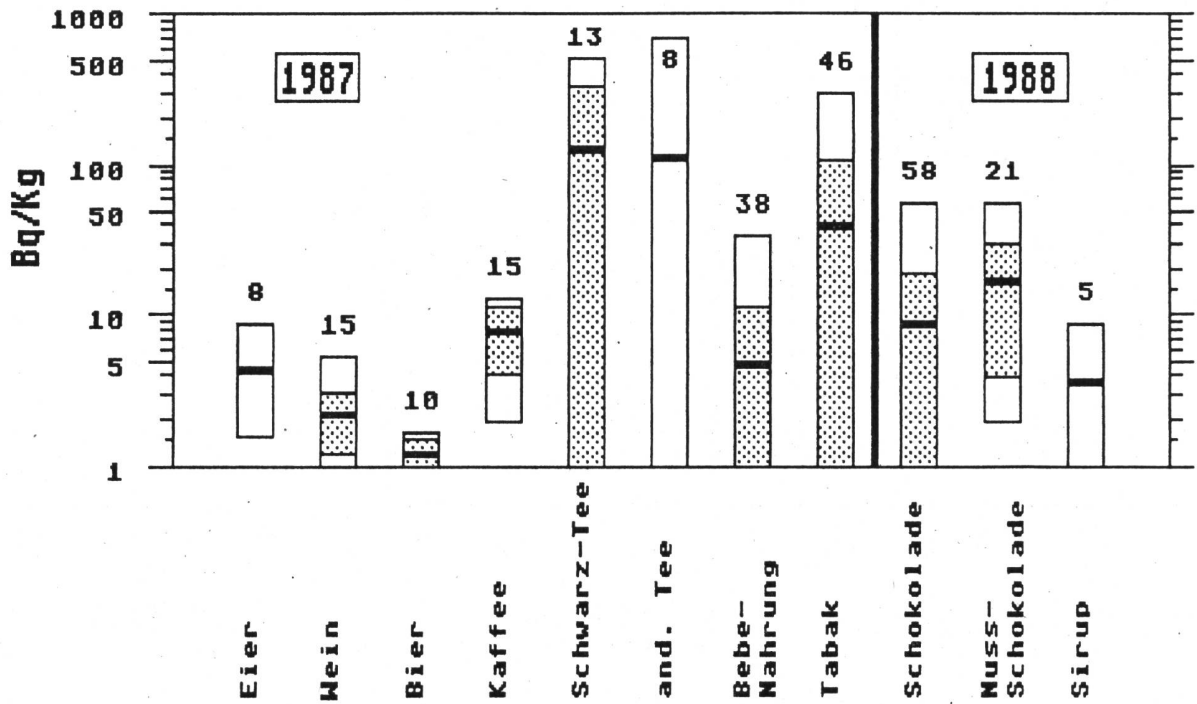


Fig.3.34.b: Cs-137 in verschiedenen Produkten 1987

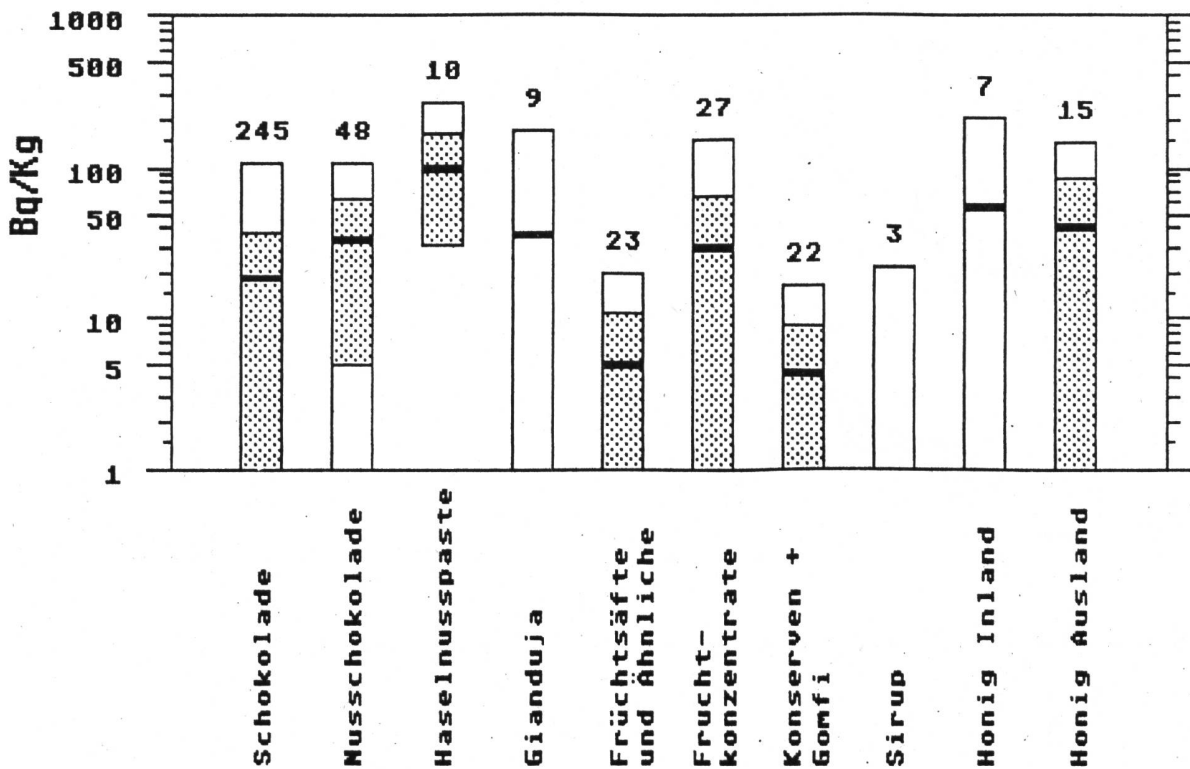


Fig.3.35: Cs-137 im Klärschlamm (frisch)

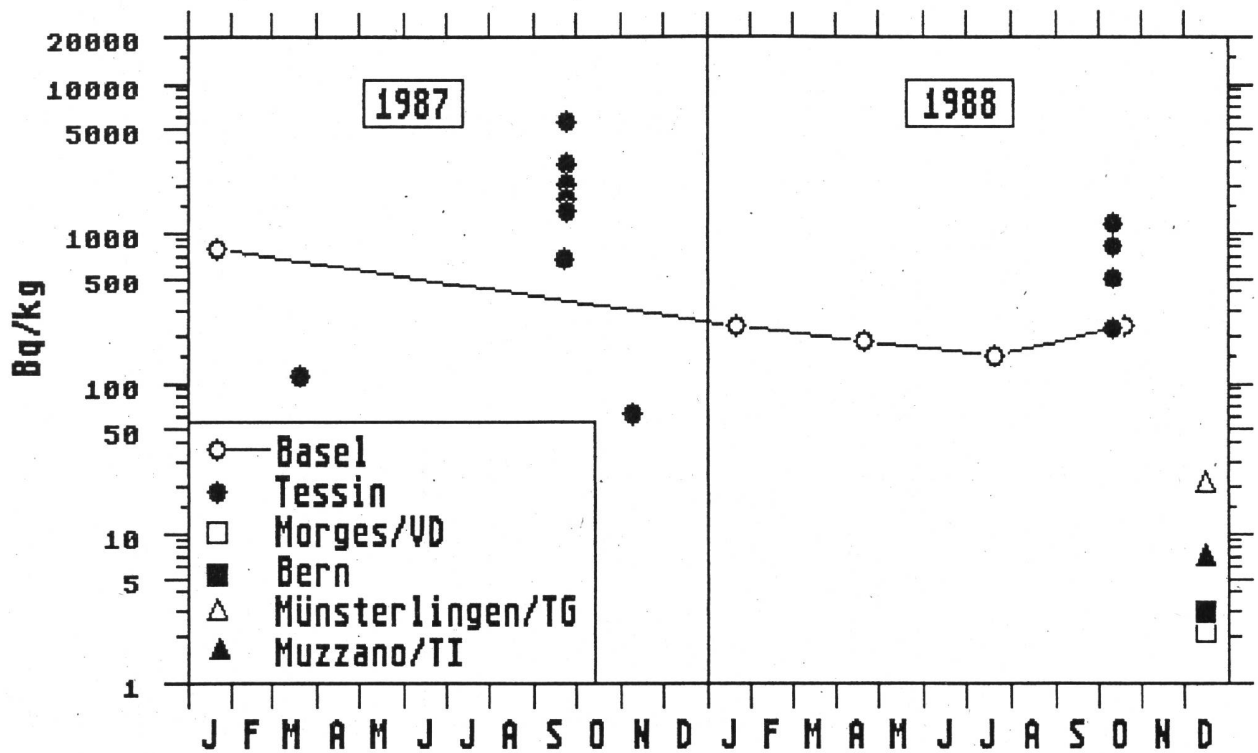


Fig.3.36.a: Cs-137 in Fleischimporten 1987/1988

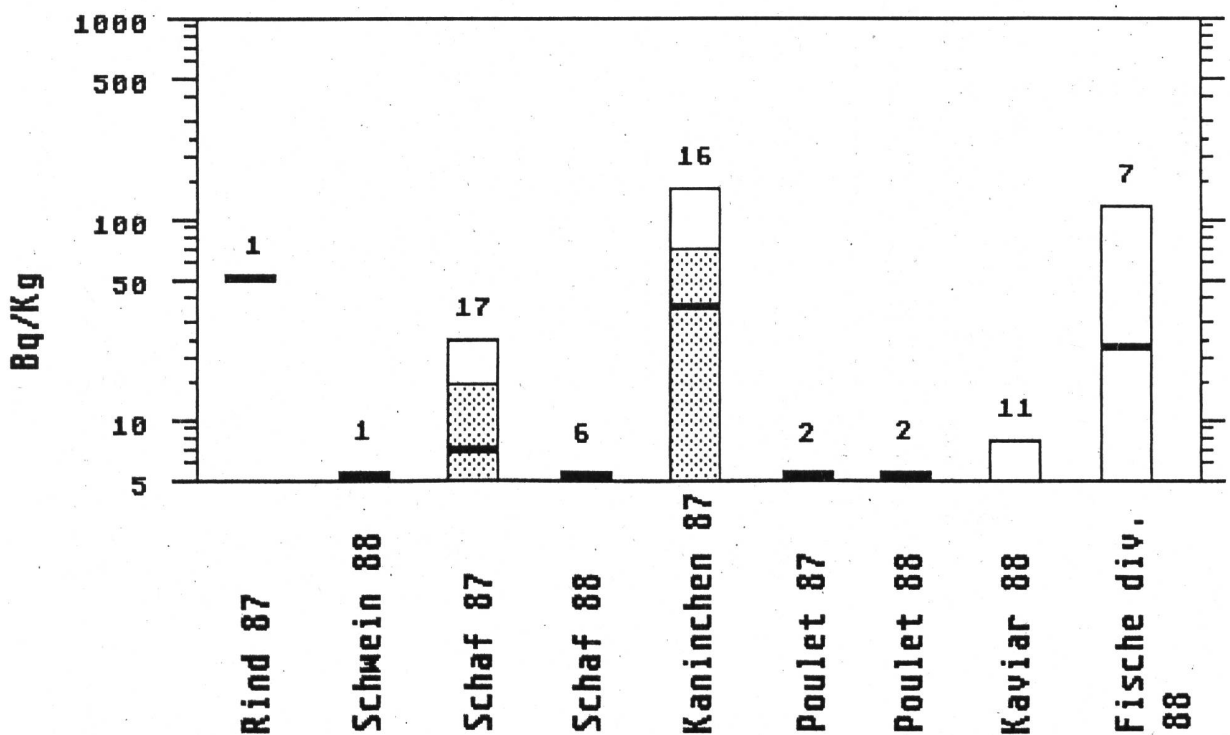


Fig.3.36.b: Cs-137 in Wild-Importen aus Österreich 1987

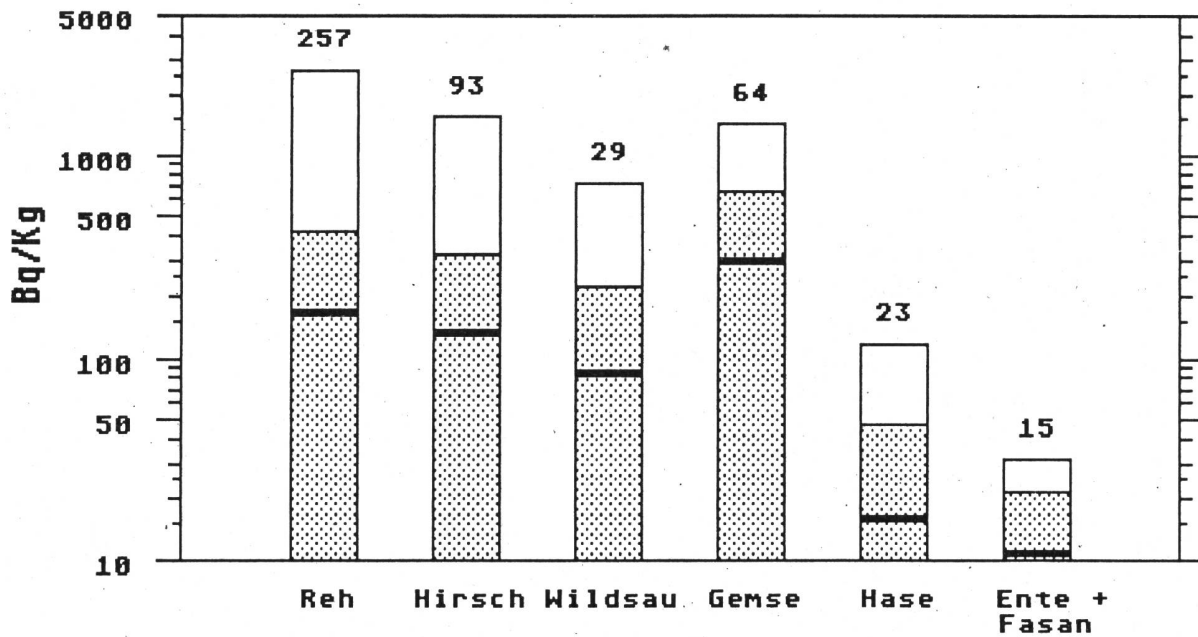


Fig.3.36.c: Cs-137 in Wild-Importen aus Österreich 1988

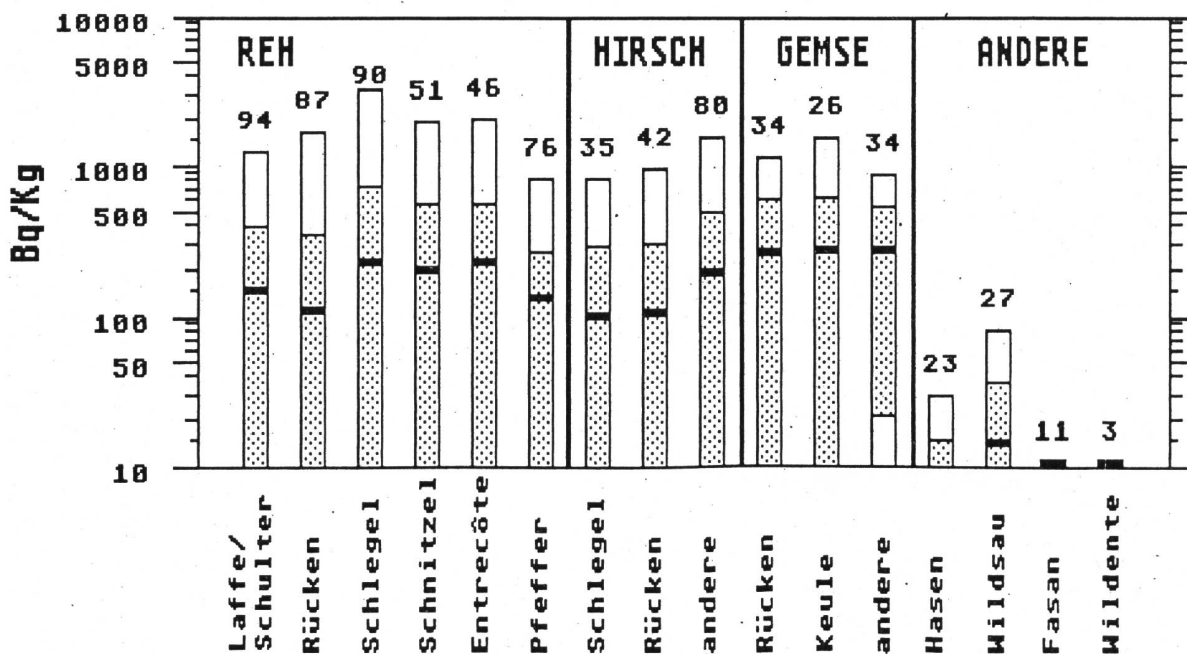


Fig.3.36.d: Cs-137 in Wild-Importen aus übrigen Ländern 1987

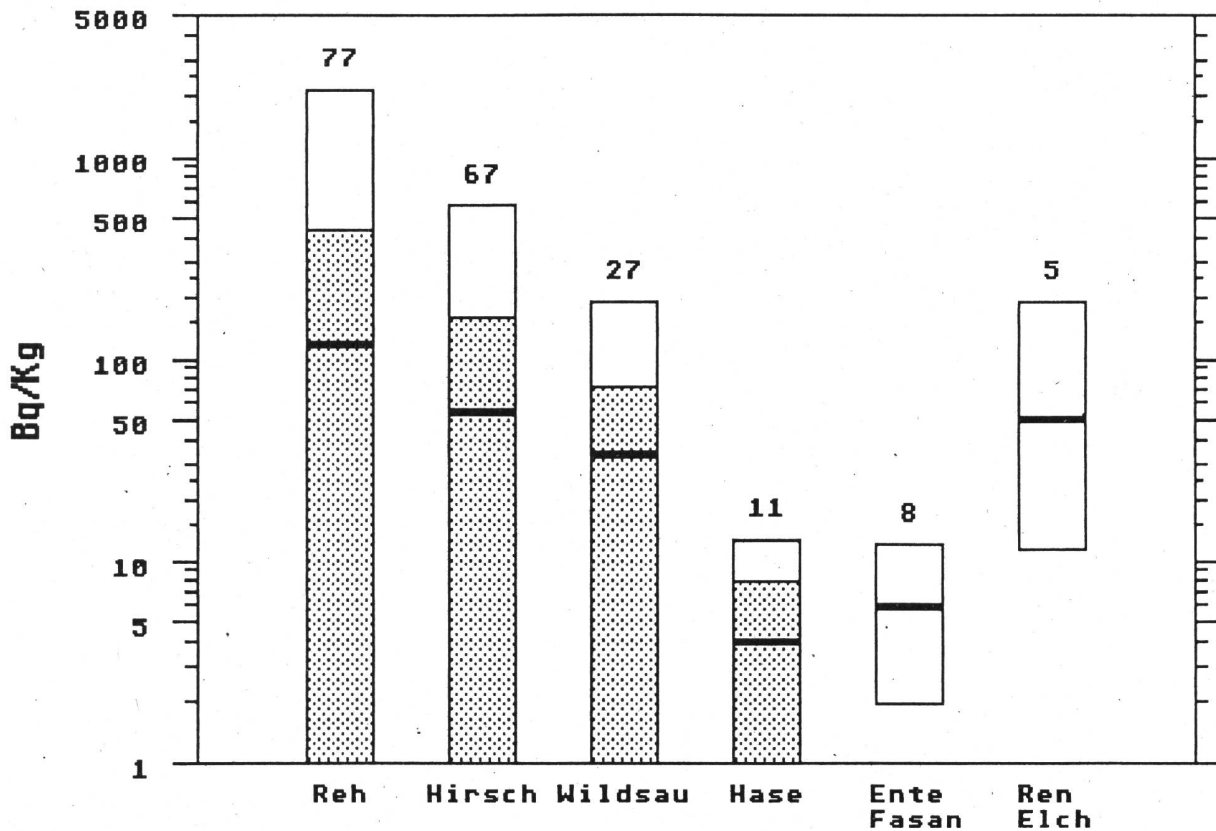


Fig.3.36.e: Cs-137 in Wild-Importen aus übrigen Ländern 1988

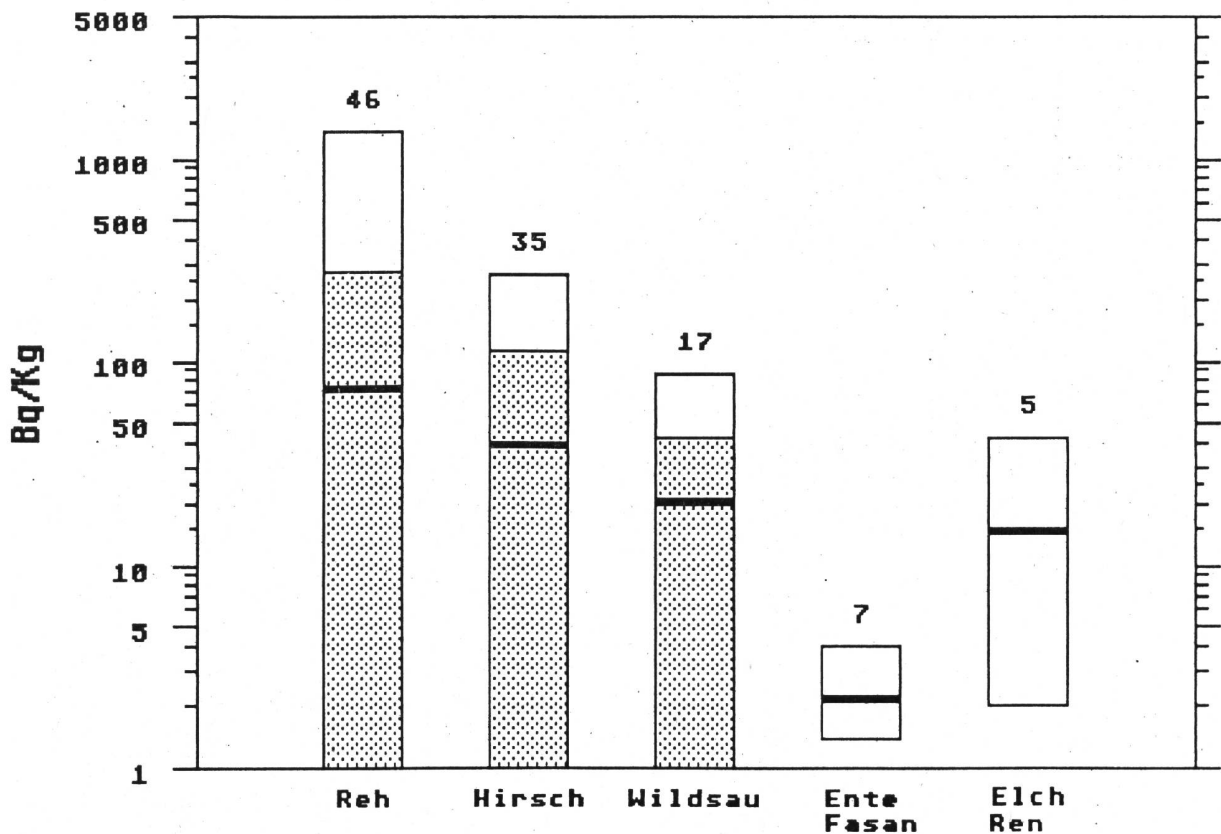


Fig.3.36.f: Cs-137 in Gemüse-Importen 1987/1988

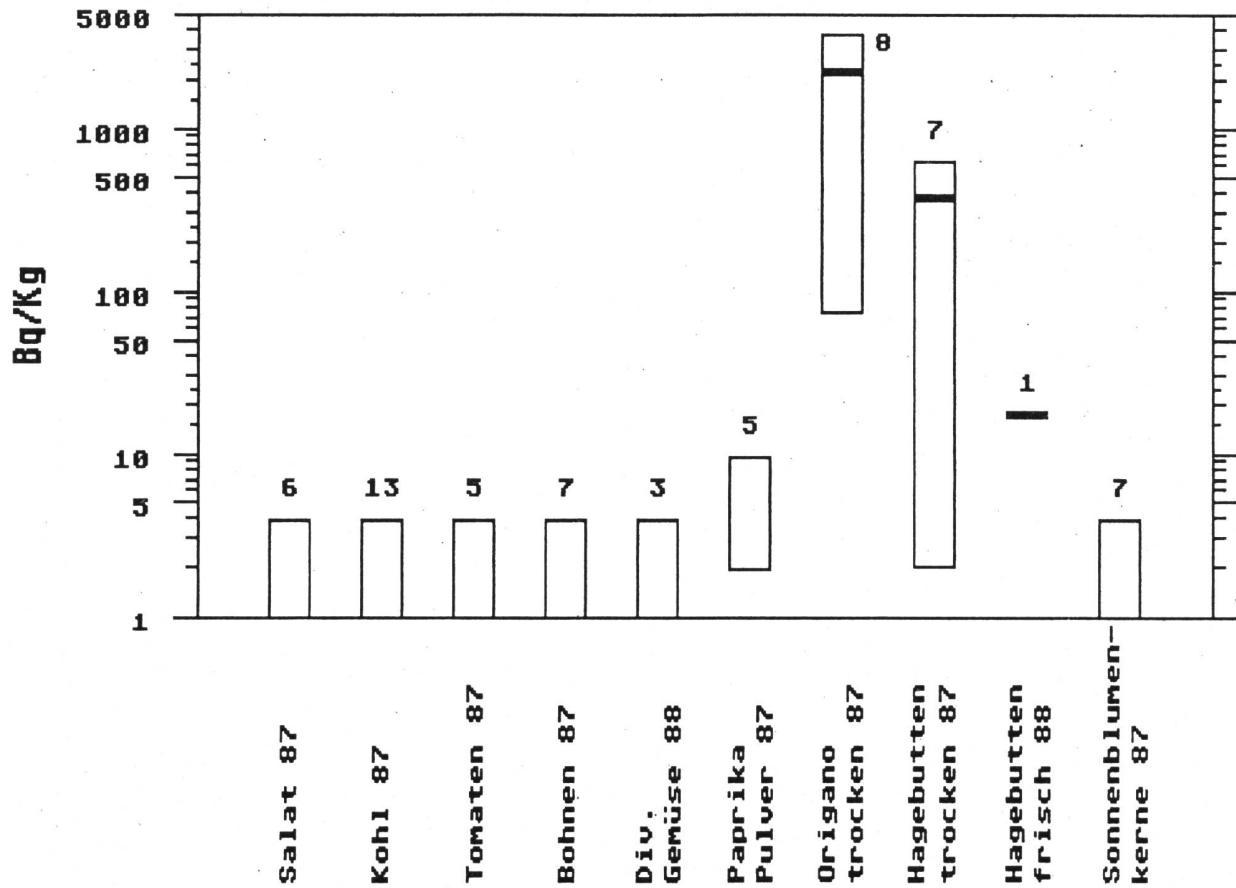


Fig.3.36.g: Cs-137 in Früchte-Importen 1987/1988

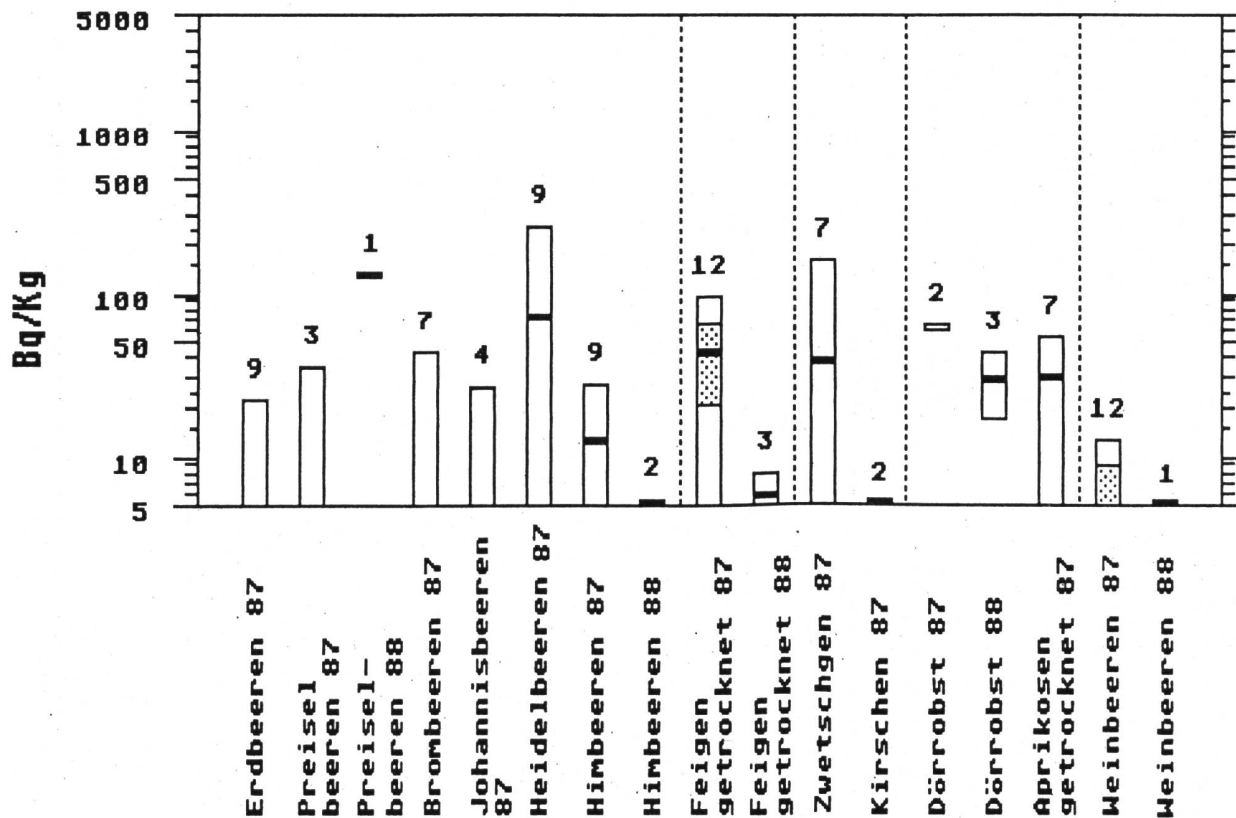


Fig.3.36.h: Cs-137 in importierten Nüssen 1987/1988

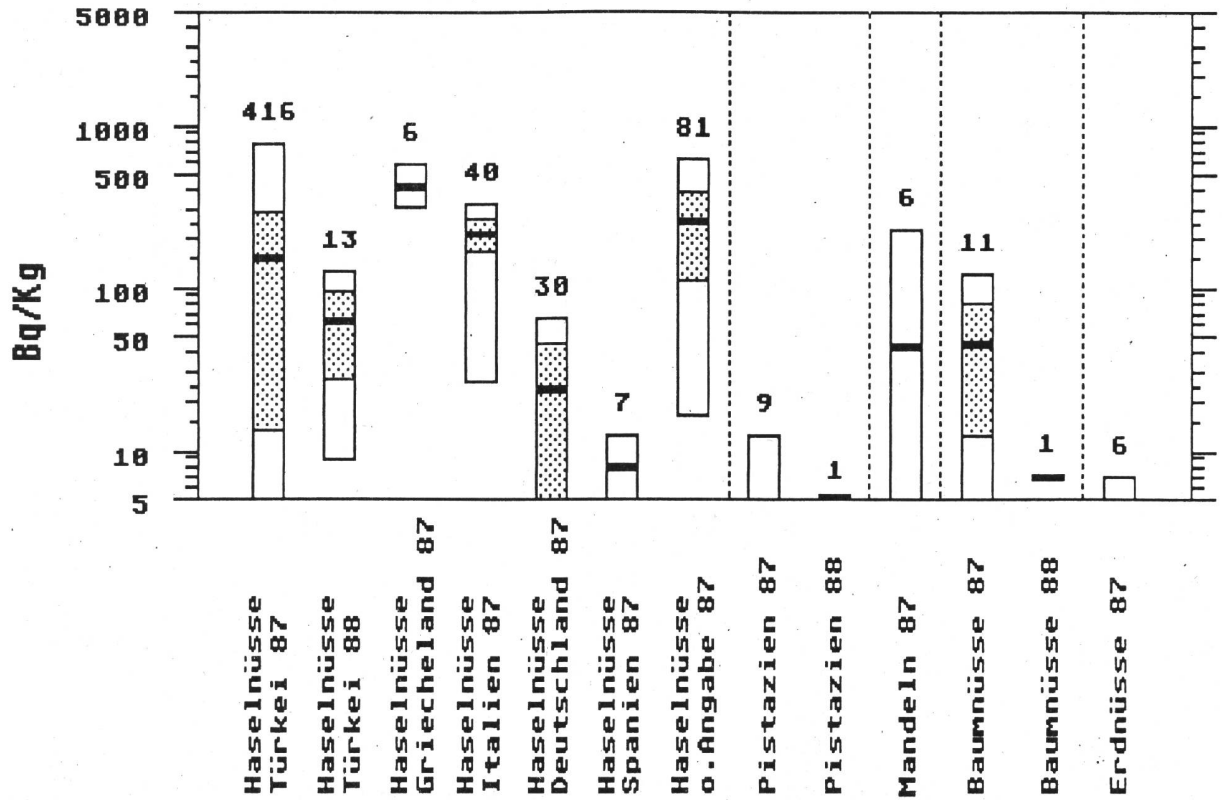


Fig.3.36.i: Cs-137 in importierten Pilze 1987/1988

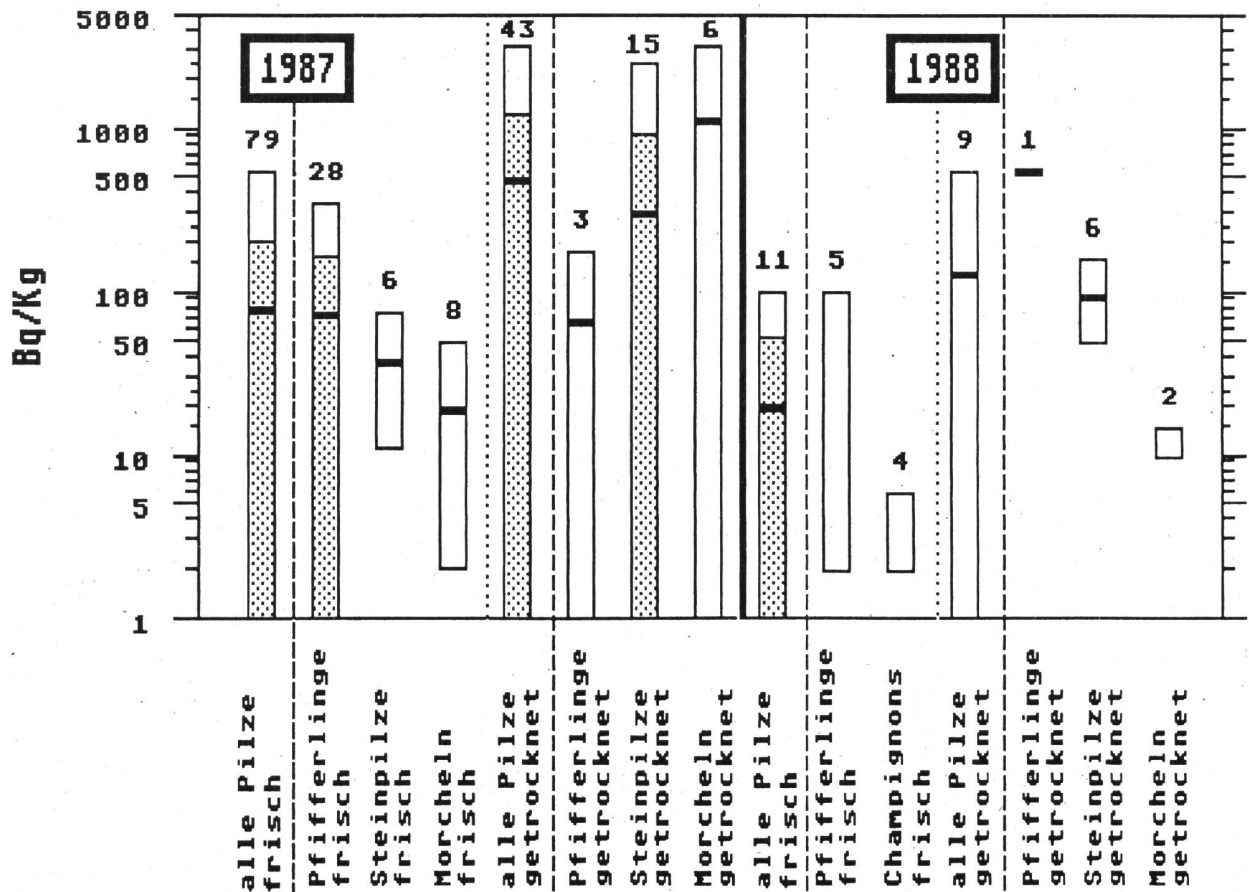
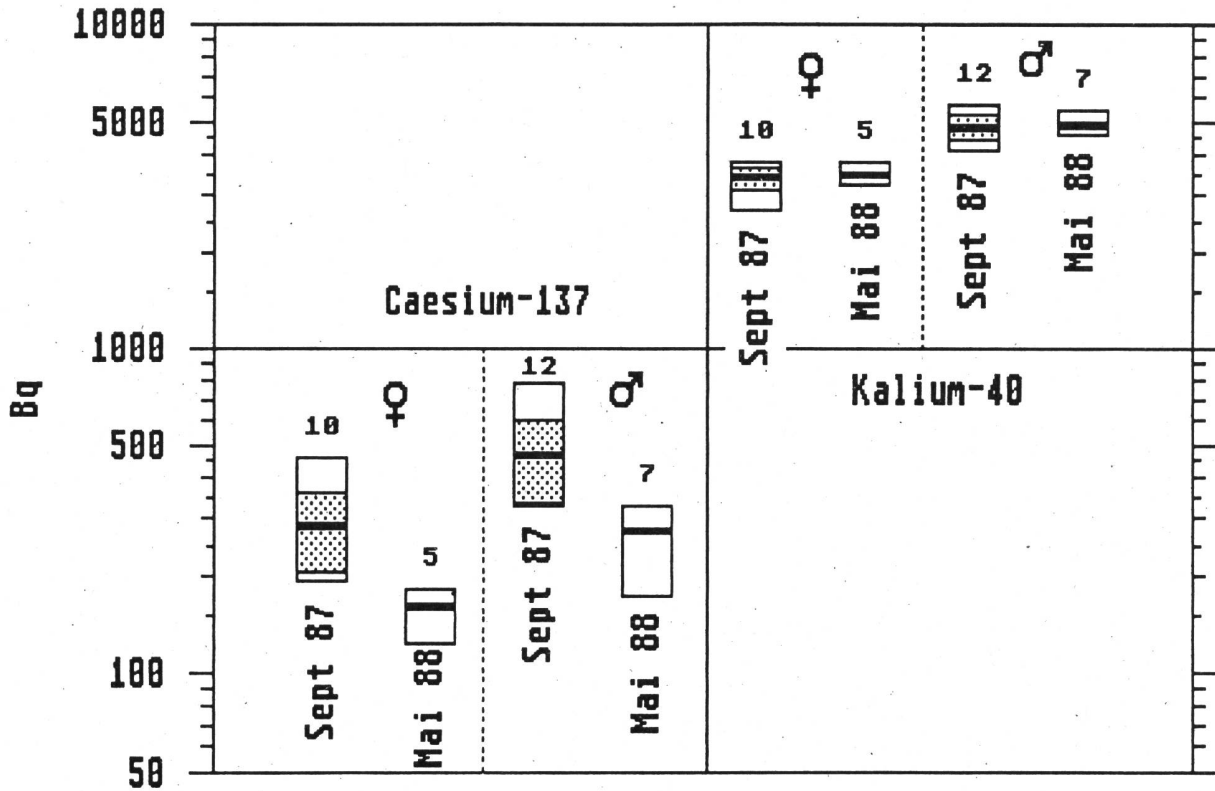
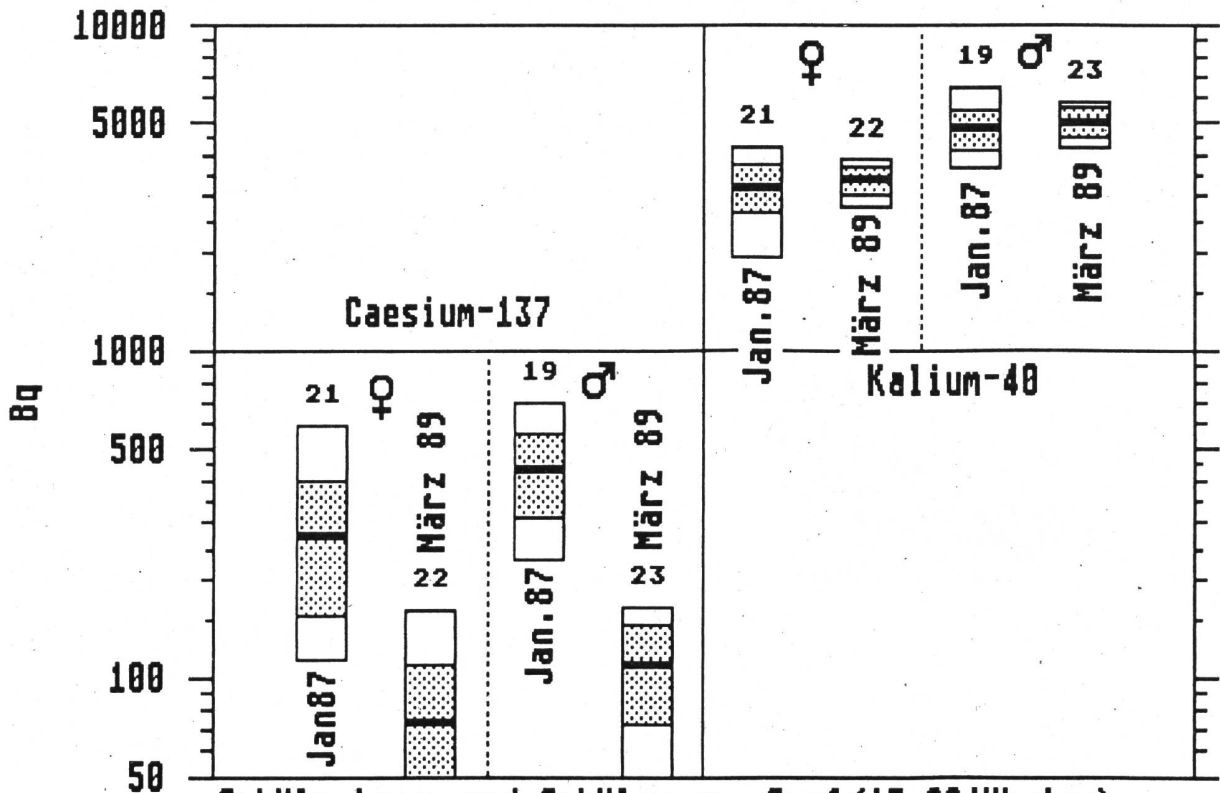


Fig.3.37.a: Ganzkörpermessungen Genf



Schülerinnen und Schüler aus Basel (20jährig)

Fig.3.37.b: Ganzkörpermessungen Genf



Schülerinnen und Schüler aus Genf (17-20jährige)

Fig. 3.37.c:

Ganzkörpermessungen 1986-88: Cs-134 + Cs-137

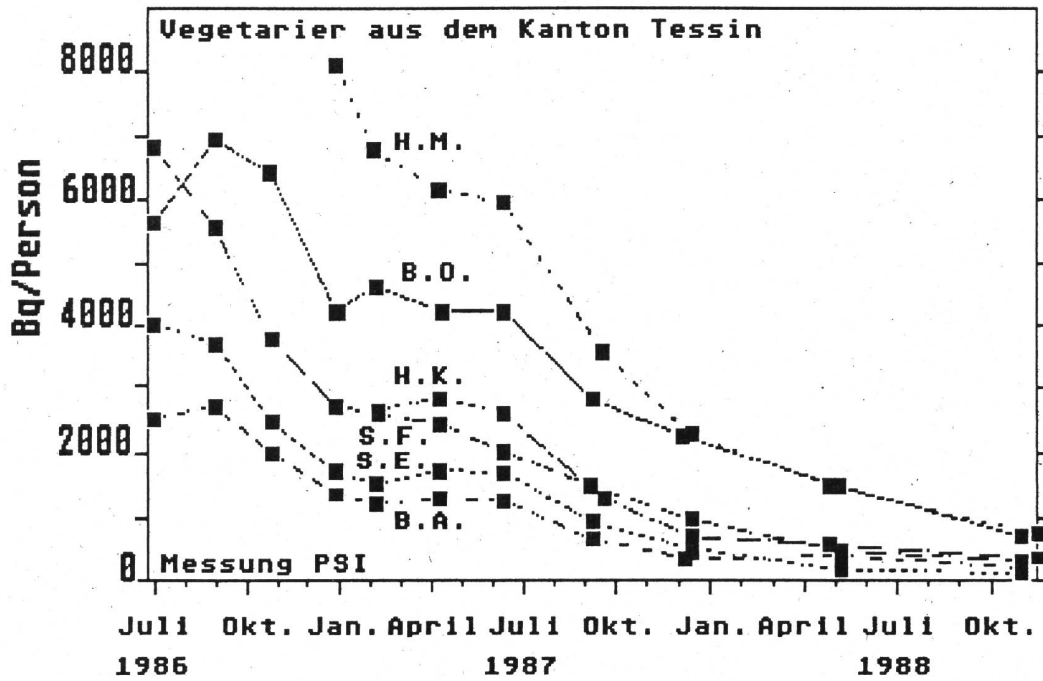
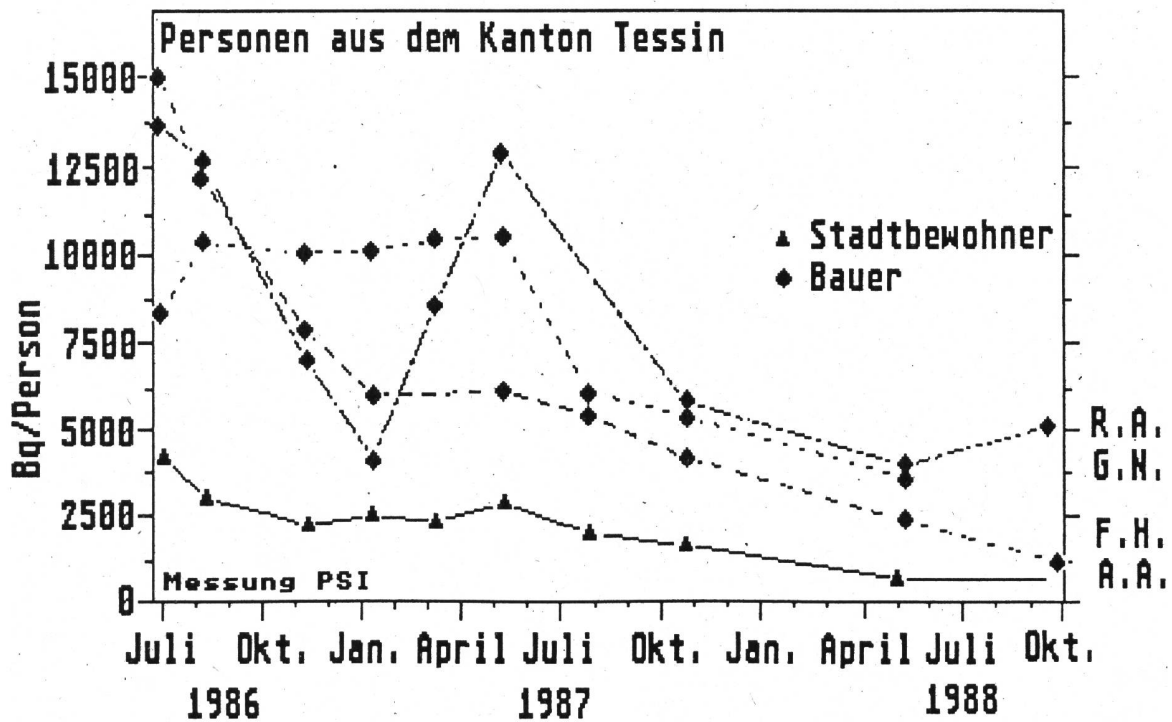
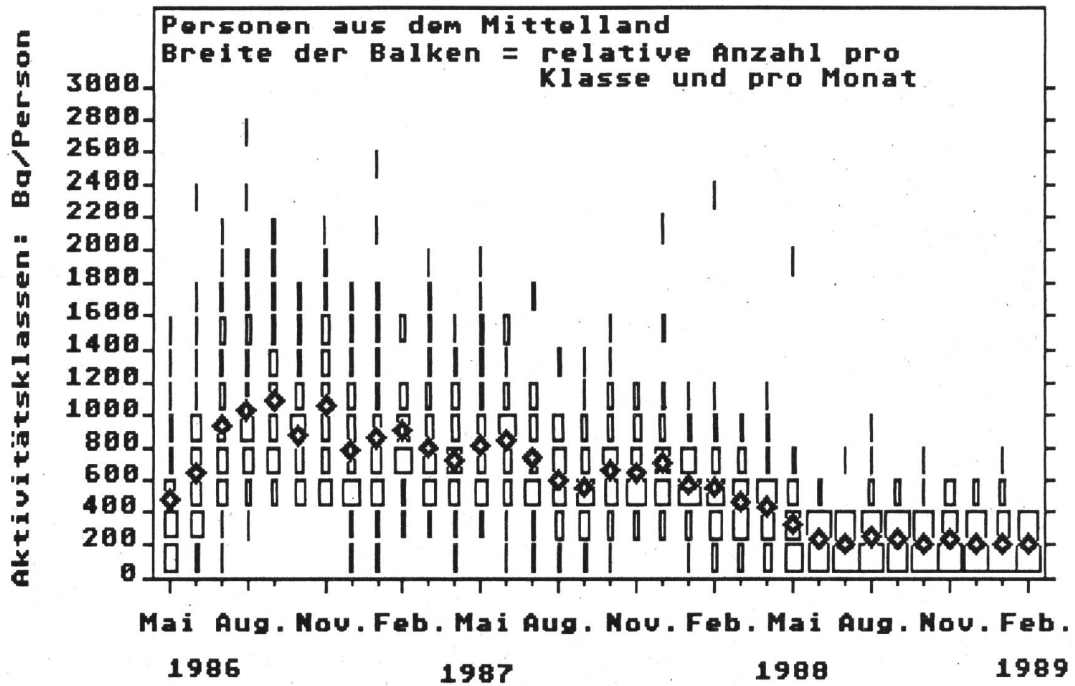


Fig. 3.37.d:

Ganzkörpermessungen 1986-89: Cs-134 + Cs-137



**Fig. 3.37.e:**  
**Ganzkörpermessungen 1986/89: Cs-134 + Cs-137**  
 Messung PSI



**Fig. 3.37.f:**  
**Ganzkörpermessungen 1986-89: Cs-134 + Cs-137**  
 Messung PSI

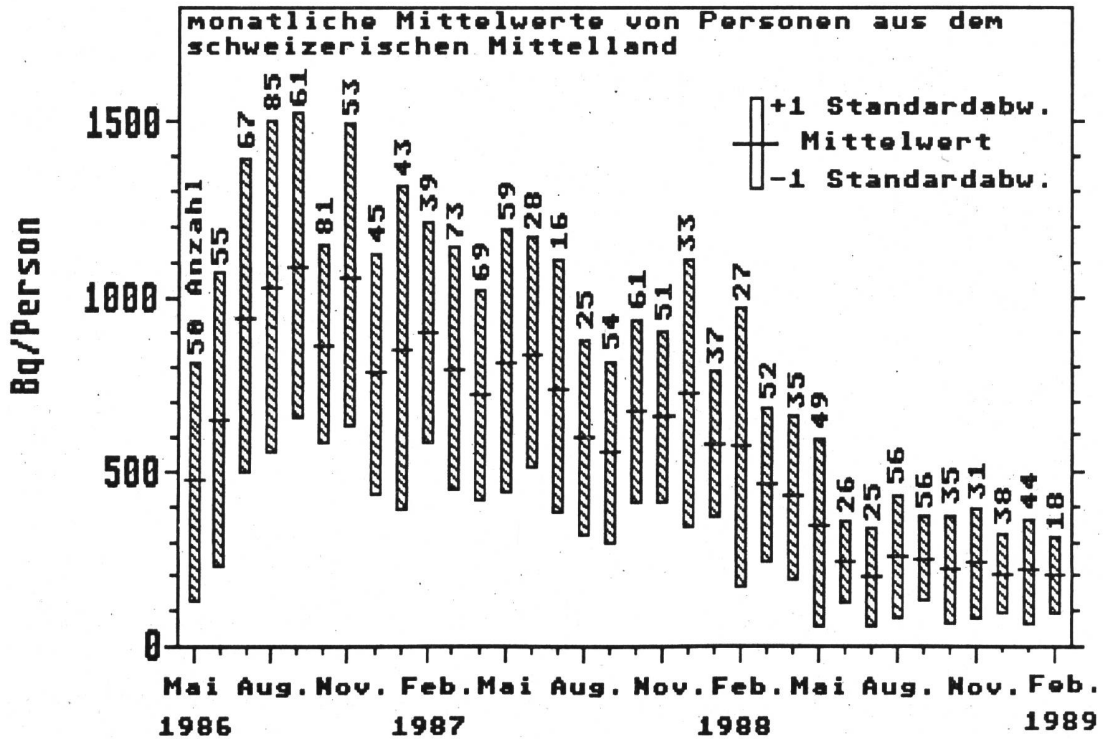


Fig. 3.37.g: Urinmessungen: 1986-1989: Cs-134 + Cs-137  
Messung PSI

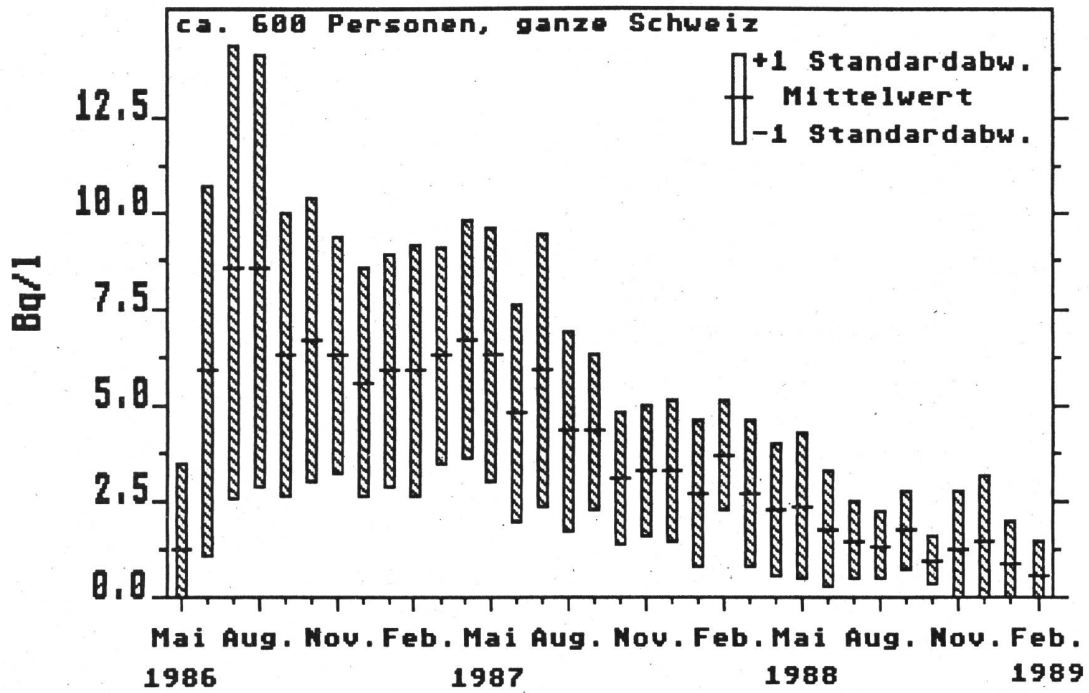
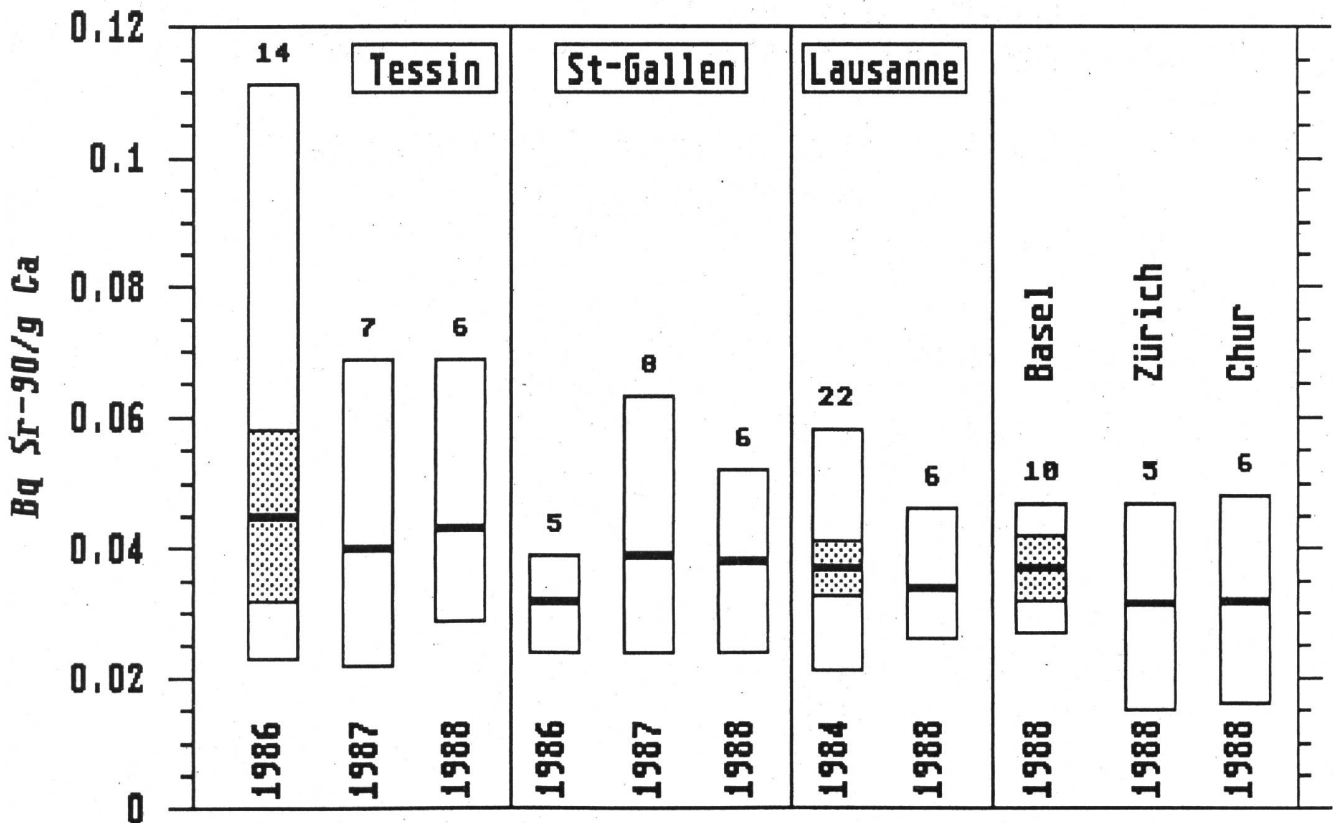


Fig.3.38: Sr-90 in Wirbelknochen



Die Umrechnung der Messwerte für Wirbel auf das ganze Skelett ergibt sich durch Multiplikation mit dem Faktor von 0.55.